

U.S. Army Garrison
Fort Monmouth, New Jersey

**Underground Storage Tank
Closure Report**

*Main Post – (former) Building 701
Alexander Ave.*

NJDEP UST Registration No. 81533-113

February 2008

UNDERGROUND STORAGE TANK REPORT

**MAIN POST – (FORMER) BUILDING 701
NJDEP UST REGISTRATION NO. 81533-113**

FEBRUARY 2008

PREPARED FOR:

**U.S. ARMY GARRISON, FORT MONMOUTH, NJ
DIRECTORATE OF PUBLIC WORKS
BUILDING 167
FORT MONMOUTH, NJ 07703**

PROJECT NO. 06-34950

PREPARED BY:

**TECOM-VINNELL SERVICES, INC.
P.O. BOX 60
FT. MONMOUTH, NJ 07703**

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EXECUTIVE SUMMARY

UST Closure

A single wall steel underground storage tank (UST) was closed by removal in accordance with the New Jersey Department of Environmental Protection (NJDEP) guidelines on June 18, 1990. The UST was located on the southwest side of (former) Building 701 in the Main Post area of Fort Monmouth. UST No. 81533-113 was a 1,000-gallon tank containing No. 2 heating oil.

Site Assessment

This site assessment was performed by TECOM-Vinnell Service (TVS) personnel in accordance with the NJDEP *Technical Requirements for Site Remediation* (N.J.A.C. 7:26E) and the NJDEP *Field Sampling Procedures Manual*.

During the time of UST removal, no closure soil samples were collected. Soil sampling was not required at the time. However, in order to confirm that the tank did not leak, this subsurface investigation was conducted. On January 27, 2006, a Geoprobe was utilized to collect soil samples 701W, 701C, 701E and 701C (groundwater) from a total of three (3) locations along the tank centerline bottom. All soil samples were analyzed for total petroleum hydrocarbons (TPH). Groundwater was encountered at approximately eight (8.0) feet below surface grade in the borings. A sample of it was collected and analyzed for volatile organic analysis (VOA) and semi-volatile organic analysis (SVOA).

Findings

The closure soil samples collected from the location associated with UST No. 81533-113, contained TPH concentrations below the NJDEP health based criterion of 10,000 milligrams per kilogram (mg/kg) for total organic contaminants (N.J.A.C. 7:26E and revisions dated February 3, 1994). All soil samples contained TPH concentrations of Not Detected.

Conclusions and Recommendations

Based on the closure soil sampling results, soils with TPH concentrations exceeding the NJDEP health based criterion of 10,000 mg/kg for total organic contaminants are not present in the location of the UST. A groundwater sample, analyzed for volatile organic analysis and semi-volatile organic analysis, did contain one compound above the analytical method detection limits. Detected was Bis(2-Ethylhexyl)phthalate was detected at 13.8 ug/L which is above the regulatory level of 3 ug/L. However, this compound is a common laboratory contaminant.

No Further Action is proposed in regard to the closure and site assessment of UST No. 81533-113 at (former) Building 701.

1.0 UNDERGROUND STORAGE TANK CLOSURE SOIL SAMPLING ACTIVITIES

1.1 OVERVIEW

One underground storage tank (UST), New Jersey Department of Environmental Protection (NJDEP) Registration No. 81533-113, was closed at (former) Building 701 located on the Main Post at the U.S. Army Garrison, Fort Monmouth, New Jersey. Refer to site location map on Figure 1. This report presents the results of soil and groundwater sampling analysis to confirm that the tank did not leak. The UST was a 1,000-gallon, single-wall steel tank containing No. 2 heating oil for residential use. The UST was installed in 1963 and the removal was done on June 18, 1990. An archived letter detailing the removal procedures, a copy of Site Assessment Compliance Statement, a historical photograph of (former) Building 701 and the NJDEP UST Site Investigation Report Form are included in Appendix A.

This UST Closure Report has been prepared by TVS to assist the U.S. Army Garrison DPW in complying with the NJDEP - Underground Storage Tanks regulations. The applicable NJDEP regulations at the date of closure were the *Closure of Underground Storage Tank Systems* (N.J.A.C. 7:14B-9 et seq. December, 1987 and revisions dated April 20, 2003).

This report was prepared using information required by the *Technical Requirements for Site Remediation* (N.J.A.C. 7:26E) (*Technical Requirements*). Section 1 of this UST Closure Report provides a summary of the UST site. Section 2 of this report describes the site investigation activities. Conclusions and recommendations, including the results of the soil sampling investigation, are presented in Section 3 of this report.

1.2 SITE DESCRIPTION

(Former) Building 701, Alexander Ave., was located in the central portion (600 Area) of the Main Post of Fort Monmouth, as shown on Figure 1. A historical map, Figure 2, was used to determine the location of (former) Building 701. UST No. 81533-113 was located on the southeast side of (former) Building 701.

1.2.1 Geological/Hydrogeological Setting

The following is a description of the geological/hydrogeological setting of the 600 Area. Included is a description of the regional geology of the area surrounding Fort Monmouth as well as descriptions of the local geology and hydrogeology of the Main Post area.

Regional Geology

Monmouth County lies within the New Jersey Section of the Atlantic Coastal Plain physiographic province. The Main Post, Charles Wood and the Evans areas are located in what may be referred to as the Outer Coastal Plain subprovince, or the Outer Lowlands.

In general, New Jersey Coastal Plain formations consist of a seaward-dipping wedge of unconsolidated deposits of clay, silt, sand and gravel. These formations typically strike northeast-southwest with a dip ranging from 10 to 60 feet per mile and were deposited on Precambrian and lower Paleozoic rocks (Zapeczka, 1989). These sediments, predominantly derived from deltaic, shallow marine, and continental shelf environments, date from Cretaceous through the Quaternary Periods. The mineralogy ranges from quartz to glauconite.

The formations record several major transgressive/regressive cycles and contain units which are generally thicker to the southeast and reflect a deeper water environment. Over 20 regional geologic units are present within the sediments of the Coastal Plain. Regressive, upward coarsening deposits are usually aquifers (e.g., Englishtown and Kirkwood Formations, and the Cohansey Sand) while the transgressive deposits act as confining units (e.g., the Merchantville, Marshalltown, and Navesink Formations). The individual thicknesses for these units vary greatly (i.e., from several feet to several hundred feet). The Coastal Plain deposits thicken to the southeast from the Fall Line to greater than 6,500 feet in Cape May County (Brown and Zapeczka, 1990).

Local Geology

Based on the regional geologic map (Jablonski, 1968), the Cretaceous age Red Bank and Tinton Sands outcrop at the Main Post area. The Red Bank sand conformably overlies the Navesink Formation and dips to the southeast at 35 feet per mile. The upper member (Shrewsbury) of the Red Bank sand is a yellowish-gray to reddish brown clayey, medium- to coarse-grained sand that contains abundant rock fragments, minor mica and glauconite (Jablonski). The lower member (Sandy Hook) is a dark gray to black, medium-to-fine grained sand with abundant clay, mica, and glauconite.

The Tinton sand conformably overlies the Red Bank Sand and ranges from a clayey medium to very coarse grained feldspathic quartz and glauconite sand to a glauconitic coarse sand. The color varies from dark yellowish orange or light brown to moderate brown and from light olive to grayish olive. Glauconite may constitute 60 to 80 percent of the sand fraction in the upper part of the unit (Minard, 1969). The upper part of the Tinton is often highly oxidized and iron oxide encrusted (Minard).

Hydrogeology

The water table aquifer in the Main Post area is identified as part of the "composite confining units", or minor aquifers. The minor aquifers include the Navesink formation, Red Bank Sand, Tinton Sand, Hornerstown Sand, Vincentown Formation, Manasquan Formation, Shark River Formation, Piney Point Formation, and the basal clay of the Kirkwood Formation.

Based on records of wells drilled in the Main Post area, water is typically encountered at depths of 2 to 9 feet below ground surface (bgs). According to Jablonski, wells drilled in the Red Bank and Tinton Sands may produce 2 to 25 gallons per minute (gpm). Some well owners have reported acidic water that requires treatment to remove iron.

Due to the proximity of the Atlantic Ocean to Fort Monmouth, shallow groundwater may be tidally influenced and may flow toward creeks and brooks as the tide goes out, and away from creeks and brooks as the tide comes in. However, an abundance of clay lenses and sand deposits were noted in borings installed throughout Fort Monmouth. Therefore, the direction of shallow groundwater should be determined on a case by case basis.

Shallow groundwater is locally influenced within the Main Post area by the following factors:

- tidal influence (based on proximity to the Atlantic Ocean, rivers and tributaries)
- topography
- nature of the fill material within the Main Post area
- presence of clay and silt lenses in the natural overburden deposits
- local groundwater recharge areas (e.g., streams, lakes)

Due to the fluvial nature of the overburden deposits (e.g., sand and clay lenses), shallow groundwater flow direction is best determined on a case-by-case basis. This is consistent with lithologies observed in borings installed within the Main Post area, which primarily consisted of fine-to-medium grained sands, with occasional lenses or laminations of gravel silt and/or clay.

(Former) Building 701 was located approximately 450 feet north of Husky Brook, the nearest water body, which flows into Oceanport Creek and then into the Shrewsbury River. Based on the Main Post topography, the groundwater flow in the area of (former) Building 701 is anticipated to be to the south.

1.3 HEALTH AND SAFETY

Work site health and safety hazards were minimized during all site investigation activities. All areas which posed a vapor hazard were monitored by a qualified individual utilizing a calibrated photo-ionizer detector : Thermo Instruments Organic Vapor Monitor (OVM) – Model #580-B. The individual ascertained if the area was properly vented to render the area safe, as defined by OSHA. All work areas were properly vented to insure that there were no contaminants present in the breathing zone above permissible exposure limits (PEL's).

2.0 SITE INVESTIGATION ACTIVITIES

2.1 OVERVIEW

The Site Investigation was managed and carried out by U.S. Army DPW personnel. All analyses were performed and reported by Fort Monmouth Environmental Testing Laboratory, a NJDEP-certified testing laboratory. All sampling was performed by a NJDEP Certified Subsurface Evaluator according to the methods described in the NJDEP Field Sampling Procedures Manual (1992). Sampling frequency and parameters analyzed complied with the NJDEP document *Technical Requirements for Site Remediation, 7:26E-3.9* (December 17, 2002 and revisions dated February 3, 2003) which was the applicable regulation at the date of the investigation. All records of the Site Investigation activities are maintained by the Fort Monmouth DPW Environmental Office.

The following Parties participated in Closure and Site Assessment Activities.

- Ft. Monmouth Directorate of Public Works-Environmental Division
Contact Person: Joseph Fallon
Phone Number: (732) 532-7013
- Subsurface Evaluator: Frank Accorsi
Employer: TECOM-Vinnell Services, Inc. (TVS)
Phone Number: (732) 532-5241
NJDEP License No.: 0010042
TVS - NJDEP License No.: US252302
- Analytical Laboratory: Fort Monmouth Environmental Testing Laboratory
Contact Person: Jacqueline Hamer
Phone Number: (732) 532-4359
NJDEP Laboratory Certification No.: 13461

2.2 FIELD SCREENING/MONITORING

Field screening of the soils was performed by a NJDEP certified Subsurface Evaluator using an OVM and visual observations to identify potentially contaminated material of which none were found.

2.3 SOIL SAMPLING

On January 24, 2006, closure soil samples 701W, 701C and 701E were collected from a total of three (3) locations along the tank centerline bottom of the UST. Groundwater was encountered at approximately eight (8.0) feet below surface grade in the borings. All soil samples were analyzed for TPH. A soil sample location map is provided on Figure 3.

The site assessment was performed by TVS personnel in accordance with the NJDEP *Technical Requirements for Site Remediation* and the NJDEP *Field Sampling Procedures Manual*. A summary of sampling activities including parameters analyzed is provided on Table 1. The soil samples were collected into laboratory prepared glassware using properly decontaminated stainless steel trowels. After collection, the samples were immediately placed on ice in a cooler and delivered to Fort Monmouth Environmental Testing Laboratory for analysis.

2.4 GROUNDWATER SAMPLING

On January 24, 2006, groundwater sample 701C-GW was collected from soil borehole 701C to assess the groundwater quality in the location of the tank. A temporary piezometer was installed in the borehole for sample collection. The sample was collected into laboratory prepared glassware using a disposable teflon bailer. The sample was analyzed for volatile organic analysis (VOA) and semi-volatile organic analysis (SVOA).

3.0 CONCLUSIONS AND RECOMMENDATIONS

3.1 SOIL SAMPLING RESULTS

Closure soil samples were collected from a total of three locations on January 24, 2006 to evaluate soil conditions in the location of the UST. All samples were analyzed for TPH. The closure soil sample results were compared to the NJDEP health based criterion of 10,000 mg/kg for total organic contaminants (N.J.A.C. 7:26D and revisions dated February 3, 1994). A summary of the analytical results and comparison to the NJDEP soil cleanup criteria is provided on Table 2. The analytical data package, including associated quality control data, is provided in Appendix B.

Closure soil samples collected on January 24, 2006 from UST 81533-113 contained no concentrations of TPH above the method detection limits.

3.2 GROUNDWATER SAMPLING RESULTS

One groundwater sample was collected via temporary piezometer installed in soil borehole 701C. There were no compounds detected above the method detection limits for the volatile organic analysis. There was one compound detected above the method detection limits for the semi-volatile organic analysis. Bis(2-Ethylhexyl)phthalate was detected at 13.8 ug/L which is above the regulatory level of 3 ug/L. However, this compound is a common laboratory contaminant.

3.3 CONCLUSIONS AND RECOMMENDATIONS

The analytical results for all soil samples collected from the UST closure assessment at UST No. 81533-113 were below the regulatory limits.

Based on the closure soil sampling results, soils with TPH concentrations exceeding the NJDEP health based criterion for total organic contaminants of 10,000 mg/kg are not present at the location of UST No. 81533-113.

No Further Action is proposed in regard to the closure and site assessment of UST No. 81533-113 at (former) Building 701.

FIGURES

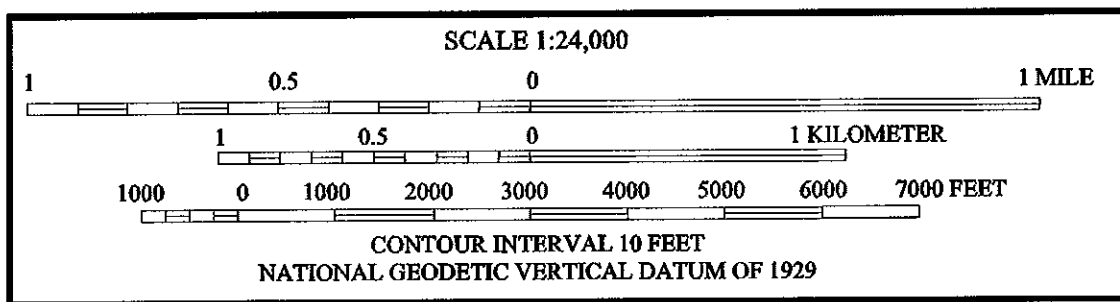
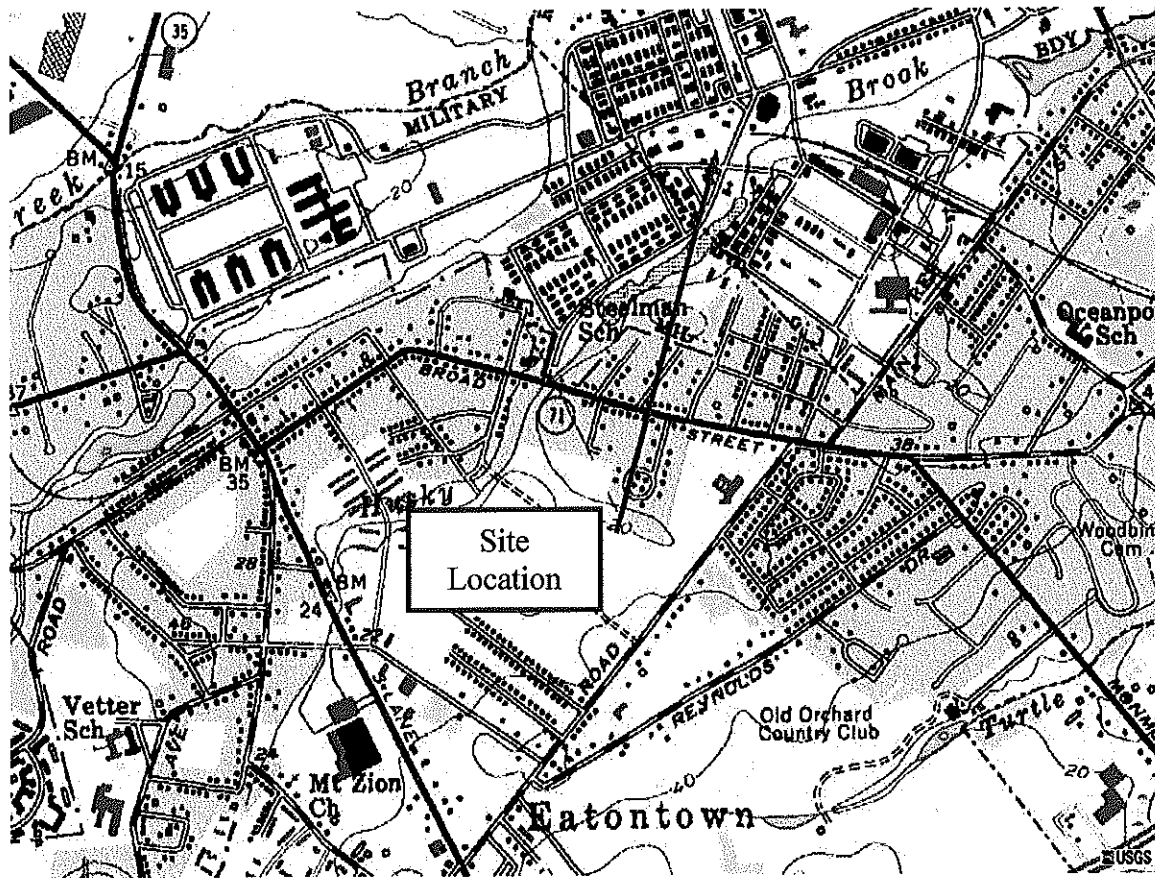


FIGURE 1

**SITE LOCATION MAP
(FORMER) BUILDING 701A
UST NO. 81533-115
FT. MONMOUTH, NJ**

SOURCE: USGS 7½-MINUTE SERIES (TOPOGRAPHIC)
LONG BRANCH QUADRANGLE, NEW JERSEY, 1981.

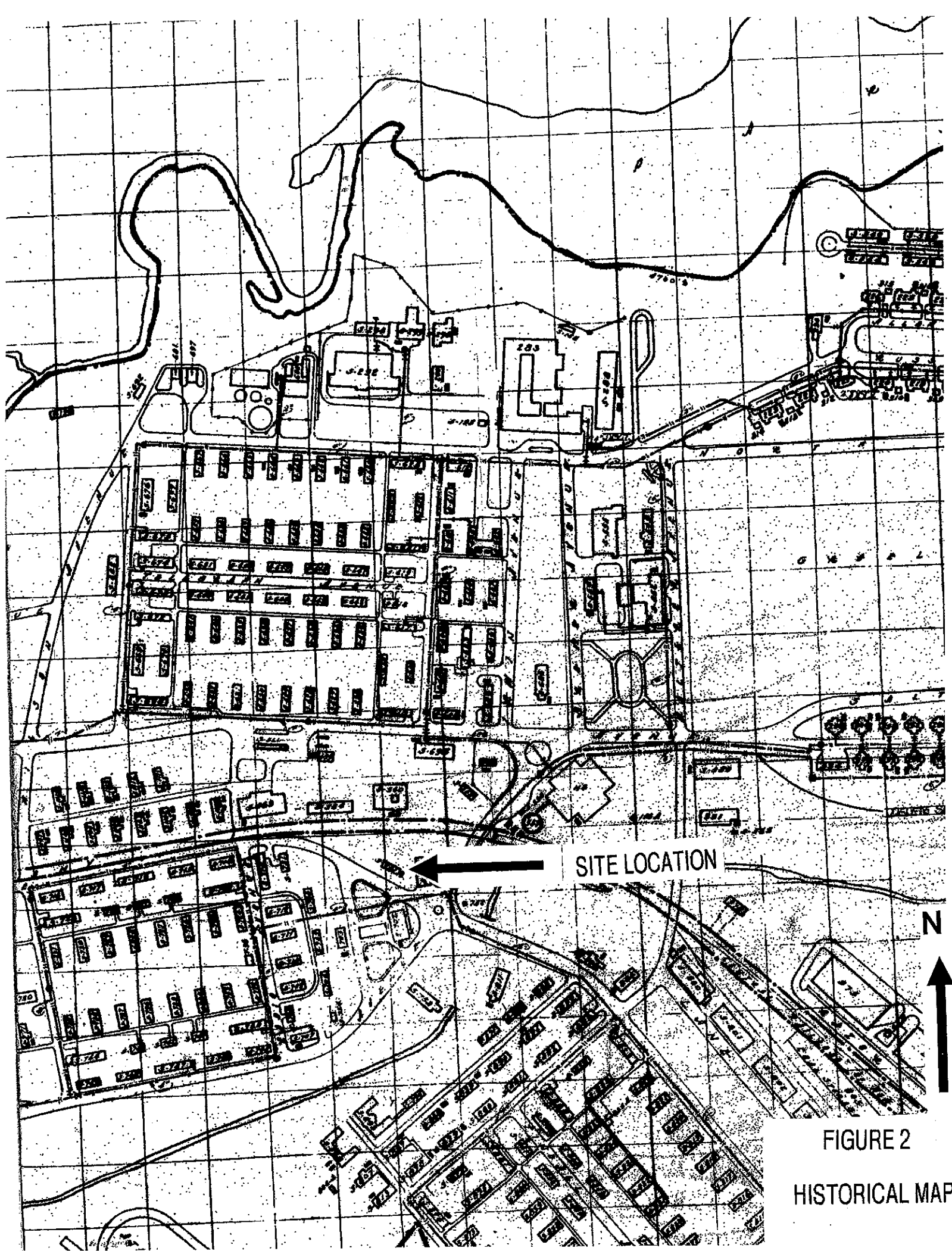


FIGURE 2
HISTORICAL MAP

701W
701C
701E

Alexander Ave.

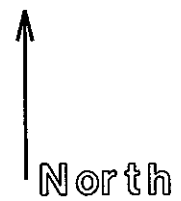


FIGURE 3 Soil Sample Location Map (former) Building 701A	
U.S. Army Garrison Fort Monmouth, New Jersey	
SCALE: 1" = 30'	DATE: February, 2008

TABLES

TABLE 1

SUMMARY OF LABORATORY ANALYSIS

**FT. MONMOUTH, (former) BUILDING 701, UST No. 81533-113
24 January 2006**

SAMPLE ID	LABORATORY SAMPLE ID	SAMPLE DATE	SAMPLE MATRIX	ANALYTICAL PARAMETER	ANALYTICAL METHOD
701W	6004801	24-Jan-06	SOIL	TPH	OQA-QAM-25
701C	6004802	24-Jan-06	SOIL	TPH	OQA-QAM-25
701E	6004804	24-Jan-06	SOIL	TPH	OQA-QAM-25
701Duplic.	6004803	24-Jan-06	SOIL	TPH	OQA-QAM-25
701C-Groundwater	6004805	24-Jan-06	AQUEOUS	VOA, SVOA	SW-846, EPA 625
Trip Blank	6004806	24-Jan-06	AQUEOUS	VOA	SW-846
Trip Blank	6004807	24-Jan-06	METHANOL	VOA	SW-846

ABBREVIATIONS:

TPH = Total Petroleum Hydrocarbons, Method NJDEP OQA-QAM-25

VOA = Volatile Organic Analysis, EPA SW-846 Method 8260

SVOA = Semi-Volatile Organic Analysis in Water, EPA Method 625

TABLE 2

SUMMARY OF LABORATORY ANALYTICAL RESULTS-SOIL

FT. MONMOUTH, (former) BUILDING 701, UST No. 81533-113
24 January 2006

TOTAL PETROLEUM HYDROCARBONS

SAMPLE ID	LABORATORY SAMPLE ID	SAMPLE LOCATION	SAMPLE DEPTH (in feet)	MATRIX	TPH RESULTS mg/kg
701W	6004801	WEST END UST	7.5 – 8.0	Soil	ND
701C	6004802	CENTER UST	7.5 – 8.0	Soil	ND
701E	6004804	EAST END UST	4.5 – 5.0	Soil	ND
701-Duplic.	6004803	CENTER END UST	7.5 – 8.0	Soil	ND

ABBREVIATIONS:

mg/kg = milligrams per kilogram = parts per million

ND = Compound Not Detected

NA = Compound Not Analyzed

*= Further Analyzed for Volatile Organic Compounds

Notes:

Gray shading indicates exceedance of NJDEP
health based criterion of 10,000 ppm total organic contaminants

TABLE 3

SUMMARY OF LABORATORY ANALYTICAL RESULTS- GROUNDWATER

FT. MONMOUTH, (former) BUILDING 701, UST No. 81533-113

24 January 2006

SEMI-VOLATILE ORGANIC COMPOUNDS

SAMPLE ID	LAB SAMPLE ID	Bis(2-Ethylhexyl) phthalate
UNITS		ug/L
701C- Groundwater	6004805	13.83
NJDEP Criteria	Ground Water Quality Crireria	3.0

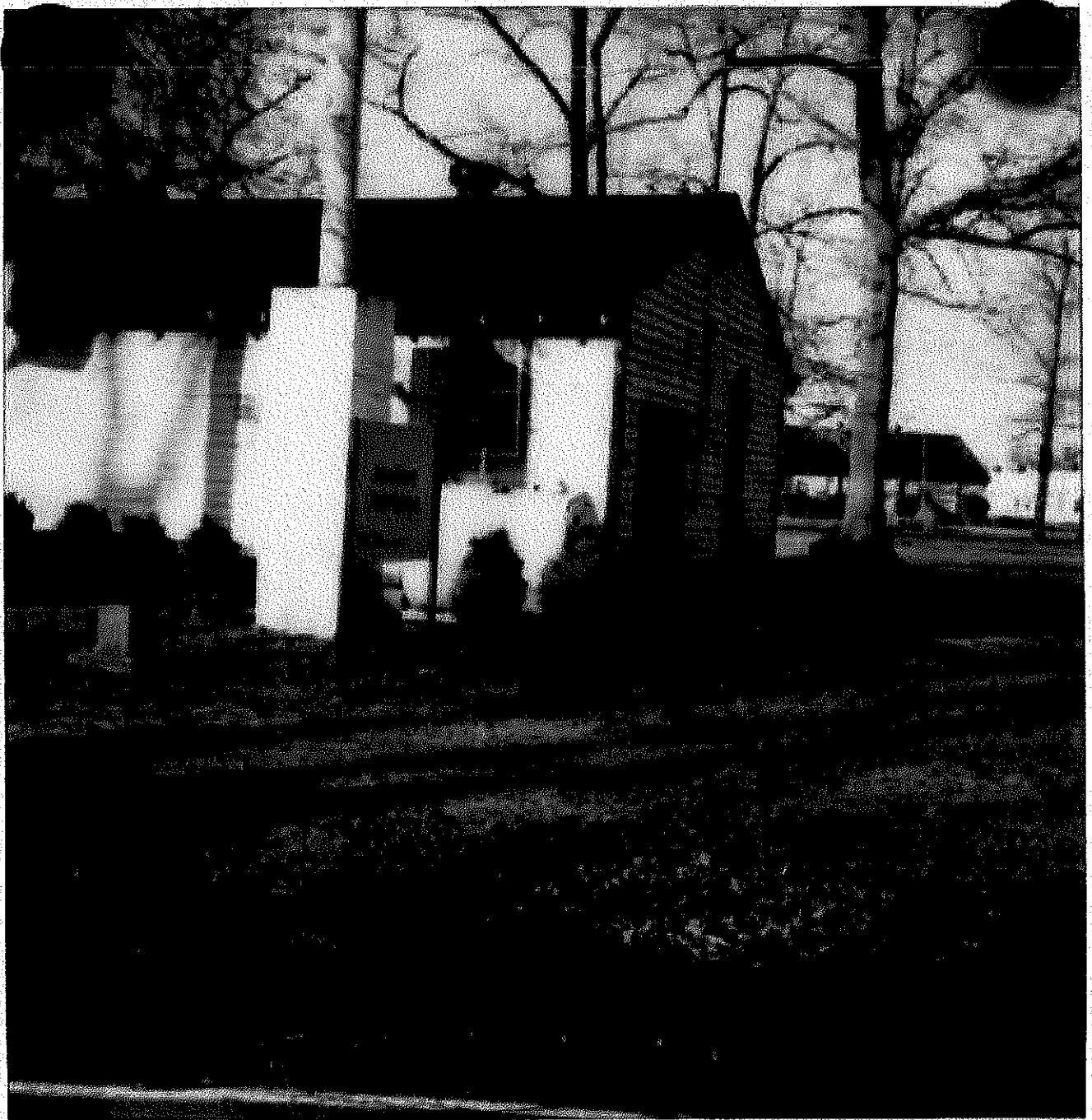
ABBREVIATIONS:

ug/L = Micrograms Per Liter = parts per billion
ND = Compound Not Detected
NA = Compound Not Analyzed
NLE = No Limit Established

Notes:

Gray shading indicates exceedance of NJDEP
Class II Ground Water Quality Criteria

APPENDIX A
CERTIFICATIONS



701

1/4/92

1450

Rockhoushey

81533-113

1000 gal

#2 Fuel Oil



Bldg 701A

For State Use Only

Date Rec'd.	_____
Auth	_____
Routing	_____
UST NO.	_____

State of New Jersey
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
 CN 020
 TRENTON, NEW JERSEY 08625
 ATTN: BUST Program
 (609) 984-3156

STANDARD REPORTING FORM
 for the: _____
 Installation/Abandon/Remove/Sale-Transfer/Substantial Modification
 Circle Only One - Use One Form Per Activity

(More than one tank can be listed per tank activity)

Answer questions 1 through 5 and others as applicable:

- Company name and address: (as it appears on registration questionnaire)
U.S. Army
DEH Bldg. #167
Attn: SERFM-EH
Fort Monmouth, NJ 07703
- Facility name and location: (if different from above)
U.S. Army Fort Monmouth
Main Post West
- Contact person for this activity:
Mr. Joseph M. Fallon
 Telephone Number: (908) 532-6223
- The identification number of the affected tank as it appears in Question Number 12 on the Registration Questionnaire:
Tank Nos. 58, 88, 95, 104, 110, 113, 146, 148, 158, + 163
Bdgs. 283A, 614, 622, 676, 692, 701A, 906, 910, 1004, 1103
- Registration Number (if known): UST - # 0081533

(OVER)



STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
Bureau of Underground Storage Tanks
CN-029, Trenton, NJ 08625

Date Rec'd _____
Auth _____
Routing _____
UST NO. _____

SITE ASSESSMENT COMPLIANCE STATEMENT

Supplement to the New Jersey Standard Reporting Form
(Complete for ALL regulated UST abandonments or removals)

Within ninety (90) days of completing the UST closure of any State or Federally-regulated tank, the owner or operator must submit this completed form to the NJDEP Bureau of Underground Storage Tanks. If the facility is located in one of the counties listed on the back, a copy of this form must also be sent to the Health Agency indicated.

The owner or operator of any Federally-regulated tank must also comply with the following:

40 CFR Part 280.72 Assessing the site at closure or change-in-service

"(a) Before permanent closure or a change-in-service is completed, owners and operators must measure for the presence of a release where contamination is most likely to be present at the UST site. In selecting sample types, sample locations, and measurement methods, owners and operators must consider the method of closure, the nature of the stored substance, the type of backfill, the depth to ground water, and other factors appropriate for identifying the presence of a release."

FACILITY U.S. Army Fort Monmouth UST # 0081533 Tank No. _____

- Check off the following items as appropriate for the site. 58, 88, 95,
- The UST facility is only regulated by State law, therefore a site assessment is not mandatory. 104, 110, 113,
 - The UST facility is regulated by Federal law and a site assessment was conducted. 146, 148, 158,
- 163.

- The results of the site assessment indicate:
- There was NO release from the UST system.
 - There was a release from the UST system and it was reported to the DEP Environmental Hotline (609-292-7172).

NOTE: The results of the site assessment are not to be submitted to the DEP or Health Agency unless requested to do so. The results are to be available for inspection at the UST facility.

Questions can be directed to the Bureau at (609) 984-3156.

*** This registration form shall be signed by the highest ranking individual at the facility with overall responsibility for that facility (7:14B-2.3 (a) 1). ***

"I certify under penalty of law that the information provided in this document is true, accurate and complete. I am aware that there are significant civil and criminal penalties for submitting false, inaccurate or incomplete information, including fines and/or imprisonment.

SACS-2,1/89

22 NOV 1991
Date / /

James Ott
SIGNATURE

JAMES OTT
Acting Director
Dir, Engineering and Housing

(Title)



DEPARTMENT OF THE ARMY
Headquarters, U.S. Army Garrison Fort Monmouth
Fort Monmouth, New Jersey 07703-5000



REPLY TO
ATTENTION OF

Directorate of Engineering
and Housing

22 NOV 1991

SUBJECT: Removal Procedure:

U.S. Army Fort Monmouth
Main Post West
Site Registration #0081533
Tank #58, 88, 95, 104, 110, 113, 146, 148, 158, 163
POC: Joseph M. Fallon (908) 532-6223

The remaining product inside each tank was removed for disposal by Lionetti Oil Recovery Co., Inc. Lionetti is a licensed hazardous waste transporter and treatment, storage, and disposal facility (USEPA ID #NJD084044064).

The top of each tank was excavated and cut open across the entire length of the tank. In addition, the inside of each tank was hand cleaned and thoroughly wiped down. The soil from the top of each excavation was visually inspected and analyzed using a HNU Model PI-101 photoionizer. No contamination was detected.

After each tank was cleaned, a visual inspection was made inside the tanks for signs of leakage. No corrosion was found inside the tanks.

Each tank was then removed from the ground and disposed of through a metal recycler. No contamination was discovered at the sites upon removing the tanks.

Each site was then backfilled with the excavated soil to close out the project.

Site Remediation Program
UST Site Remedial Investigation Report

A. Facility Name: Building 701
Facility Street Address: 701 Nicodemus Ave.
Municipality: Oceanport County: Monmouth
Block: NA Lot(s): NA Telephone Number: 732-532-6223

B. Owner (RP)'s Name: U.S. Army Garrison-Dept. of Public Works
Street Address: 167 Riverside Ave. City: Ft. Monmouth
State: NJ Zip: 07703 Telephone Number: 732-532-6223

C. (Check as appropriate)
 Site Investigation Report (SIR) \$500 Fee
 Remedial Investigation Report (RIR) \$1000 Fee

D. (Complete all that apply)
Assigned Case Manager: _____
UST Registration Number: 81533-115 (7 digits)
• Incident Report Number: _____ (10 or 12 digits)
• Tank Closure Number C(N)9____ - C 9-____ C9____ - _____ (7 characters)

E. Certification by the Subsurface Evaluator:

The attached report conforms to the specific reporting requirements of N.J.A.C. 7:26E Yes No

Name: Frank Accorsi Signature: _____ UST Cert. No.: 0010042
Firm: Tecom-Vinnell Services, Inc. Firm's UST Cert. Number: US252302
Firm Address: P.O. Box 60 City: Ft. Monmouth
State: NJ Zip: 07724 Telephone Number: 732-532-5241

(NOTE: Certification numbers required only if work was conducted on USTs regulated per N.J.S.A. 5 8: 10A-2 1 et seq.)

F. Certification by the Responsible Party(ies) of the Facility:

The following certification shall be signed [according to the requirements of N.J.A.C. 7: 14B-1.7(b)]as follows:

1. For a Corporation by a person authorized by a resolution of the board of directors to sign the document. A copy of the resolution, certified as a true copy by the secretary of the corporation, shall be submitted along with the certification; or
2. For a partnership or sole proprietorship, by a general partner or the proprietor, respectively; or
3. For a municipality, State, federal or other public agency by either a principal executive officer or ranking elected Official.

"I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attached documents, and that based on my inquiry of those individuals responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant civil penalties for knowingly submitting false, inaccurate, or incomplete information and that I am committing a crime of the fourth degree if I make a written false statement which I do not believe to be true. I am also aware that if I knowingly direct or authorize the violation of any statute, I am personally liable for the penalties."

Name (Print or Type): _____ Title: _____

Signature: _____

Company Name: _____ Date: _____

APPENDIX B

SOIL AND GROUNDWATER ANALYTICAL DATA PACKAGE

FORT MONMOUTH ENVIRONMENTAL TESTING LABORATORY

DIRECTORATE OF PUBLIC WORKS

PHONE: (732) 532-4359 FAX: (732) 532-6263

WET-CHEM - METALS - ORGANICS - FIELD SAMPLING

CERTIFICATIONS: NJDEP #13461, NYSDOH #11699



ANALYTICAL DATA REPORT
Fort Monmouth Environmental Laboratory
ENVIRONMENTAL DIVISION
Fort Monmouth, New Jersey
PROJECT: BLDG. 701

Bldg. 701

Field Sample Location	Laboratory Sample ID#	Matrix	Date and Time of Collection	Date Received
701W 7.5-8.0'	6004801	Soil	24-Jan-06 09:25	01/24/06
701C 7.5-8.0'	6004802	Soil	24-Jan-06 09:52	01/24/06
Duplicate	6004803	Soil	24-Jan-06 09:52	01/24/06
701E 4.5-5.0'	6004804	Soil	24-Jan-06 10:33	01/24/06
701C GW	6004805	Aqueous	24-Jan-06 11:08	01/24/06
Trip Blank	6004806	Aqueous	24-Jan-06	01/24/06
Trip Blank	6004807	Methanol	24-Jan-06	01/24/06

ANALYSIS:

FORT MONMOUTH ENVIRONMENTAL LAB
VOA+15, BN+15, TPHC, % SOLIDS

ENCLOSURE:
CHAIN OF CUSTODY
RESULTS


3-6-06
Daniel Wright/Date
Laboratory Director

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**CHAIN
OF
CUSTODY**

000001

Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703

Tel (732)532-4359 Fax (732)532-6263 EMail:wrightd@mail1.monmouth.army.mil

NJDEP Certification #13461

Chain of Custody Record

Customer: <u>John McCarthy</u>		Project No: <u>06-34880</u>		Analysis Parameters						Comments:													
Phone: # <u>X26224</u>		Location: <u>701</u>		TPH	VO+10	BN+15																	
() DERA () OMA () Other: _____		(Former UST)								Sample #	bottles												
Samplers Name / Company: <u>George Boyce / TVS</u>		Date		Time		Type		Remarks / Preservation Method															
LIMS/Work Order #	Sample Location	Date	Time	Type	bottles	TPH	VO+10	BN+15															
<u>100048</u>	<u>01 701W</u>	<u>7.5-8.0</u>	<u>1/24/06</u>	<u>0925</u>	<u>Soil</u>	<u>2</u>	<u>X</u>														<u>4448</u>		
	<u>02 701C</u>	<u>7.5-8.0</u>		<u>0952</u>	<u>L</u>	<u>2</u>	<u>X</u>														<u>4449</u>		
	<u>03 Dupe</u>			<u>0952</u>	<u>L</u>	<u>2</u>	<u>X</u>														<u>4450</u>		
	<u>04 701E</u>	<u>4.5-5.0</u>		<u>1033</u>	<u>L</u>	<u>2</u>	<u>X</u>														<u>4451</u>		
	<u>05 701C GW</u>			<u>1108</u>		<u>4</u>		<u>X</u>	<u>X</u>														
	<u>06 TRIP</u>				<u>Ag</u>	<u>2</u>		<u>X</u>															
	<u>07 TRIP</u>		<u>Q</u>		<u>HB</u>	<u>1</u>															<u>4447</u>		
Relinquished by (signature): <u>George Boyce</u>		Date/Time: <u>1-24-06 11:00</u>		Received by (signature): <u>[Signature]</u>		Relinquished by (signature):		Date/Time:		Received by (signature):		Relinquished by (signature):		Date/Time:		Received by (signature):		Relinquished by (signature):		Date/Time:		Received by (signature):	
Relinquished by (signature):		Date/Time:		Received by (signature):		Relinquished by (signature):		Date/Time:		Received by (signature):		Relinquished by (signature):		Date/Time:		Received by (signature):		Relinquished by (signature):		Date/Time:		Received by (signature):	
Report Type: () Full, (<input checked="" type="checkbox"/>) Reduced, () Standard, () Screen / non-certified, () EDD						Remarks: <u>VO+10 on 25% > 1000 ppm TPH</u>																	
Turnaround time: (<input checked="" type="checkbox"/>) Standard 3 wks, () Rush Days, () ASAP Verbal Hrs.																							

SAMPLE RECEIPT FORM

Date Received: 1-24-06

Work Order ID#: 60048

Site/Proj. Name: Bidy 701 / CST

Cooler Temp (°C): 4.0°C

Received By: J. Veronika
(Print name)

Sign: [Signature]

Check the appropriate box

- | | | | |
|---|---|--|------------------------------|
| 1. Did the samples come in a cooler? | <input checked="" type="checkbox"/> yes | <input type="checkbox"/> no | <input type="checkbox"/> n/a |
| 2. Were samples rec'd in good condition? | <input checked="" type="checkbox"/> yes | <input type="checkbox"/> no | |
| 3. Was the chain of custody filled out correctly and legibly? | <input checked="" type="checkbox"/> yes | <input type="checkbox"/> no | |
| 4. Was the chain of custody signed in the appropriate place? | <input checked="" type="checkbox"/> yes | <input type="checkbox"/> no | |
| 5. Did the labels agree with the chain of custody? | <input checked="" type="checkbox"/> yes | <input type="checkbox"/> no | |
| 6. Were the correct containers/preservatives used? | <input checked="" type="checkbox"/> yes | <input type="checkbox"/> no | |
| 7. Was a sufficient amount of sample supplied? | <input checked="" type="checkbox"/> yes | <input type="checkbox"/> no | |
| 8. Were air bubbles present in VOA vials? | <input type="checkbox"/> yes | <input checked="" type="checkbox"/> no | <input type="checkbox"/> n/a |
| 9. Were samples received on ice? | <input checked="" type="checkbox"/> yes | <input type="checkbox"/> no | |
| 10. Were analyze-immediately tests perform within 15 minutes | <input type="checkbox"/> yes | <input type="checkbox"/> no | <input type="checkbox"/> n/a |

Fill out the following table for each sample bottle

Lims ID	pH	Preservative	Sample ID	pH	Preservative
<u>60048/5-6-12</u>	<u>7.2</u>	<u>MLH</u>			

Comments: _____

Former UST 701 Sample Location GPS Positions

US State Plane 1983 New Jersey (NY East) 2900
NAD 1983 (Conus)
Geoid 96 (Conus)

(In US Survey Feet)

Position	Northing (Y Coord.)	Easting (X Coord.)
701E	538759.669	619026.435
701C	538761.162	619021.418
701W	538761.464	619016.865

METHOD SUMMARY

000005

Methodology Summary

EPA Method 624

Gas Chromatographic Determination of Volatiles in Water

Surrogates and internal standards are added to a 5-ml aliquot of sample. The sample is then purged and desorbed into a GC/MS system. The organic compounds are separated by the gas chromatograph and detected using the mass spectrometer. Volatiles are identified and quantitated.

EPA SW-846 Method 8260

Gas Chromatographic Determination of Volatiles in Methanol

A 10-gram volume of soil is combined with 25-ml of Methanol and surrogates in the field. Internal standards are added and the sample is placed on a purge and trap concentrator. The sample is purged and desorbed into a GC/MS system. Volatiles are identified and quantitated. The final concentration is calculated using soil weight, percent moisture and concentration.

EPA Method 625

Gas Chromatographic Determination of Semi-volatiles in Water

Surrogates are added to a measured volume of sample, usually 1 liter, at a specified pH. The sample is serially extracted with Methylene Chloride using a separatory funnel. The extract is concentrated and internal standards are added. The sample is injected into a GC/MS system. Semi-volatiles are identified and quantitated.

NJDEP Method OQA-QAM-025 10/97

Gas Chromatographic Determination of Total Petroleum Hydrocarbons in Soil

Fifteen grams (15g) of soil is added to a 125-ml acid cleaned and solvent rinsed capped Erlenmeyer flask. 15g anhydrous Sodium Sulfate is added to dry the sample. Surrogate standard spiking solution is then added to the flask.

Twenty-five ml of Methylene Chloride is added to the flask and it is secured on an orbital shaker table. The agitation rate is set to 400 rpm and the sample is shaken for 30 minutes. The flask is removed from the table and the particulate matter is allowed to settle. The extract is transferred to a Teflon capped vial. A second 25-ml of Methylene Chloride is added to the flask and shaken for an additional 30 minutes. The flask is again removed and allowed to settle. The extracts are combined in the vial then transferred to a 1-ml auto-sampler vial.

The extract is then injected directly into a GC-FID for analysis. The sample is analyzed for Petroleum Hydrocarbons covering a range of C8-C42, including Pristane and Phytane. Total Petroleum Hydrocarbon concentration is determined by integrating between 5 minutes and 22 minutes. The baseline is established by starting the integration after the end of the solvent peak and stopping after the last peak. The final concentration of Total Petroleum Hydrocarbons is calculated using percent moisture, sample weight and concentration.

LABORATORY CHRONICLE

Laboratory Chronicle

Lab ID: 60048

Site: UST
Bldg. 701

	Date	Hold Time
Date Sampled	01/24/06	NA
Receipt/Refrigeration	01/24/06	NA
Extractions		
1. BN	01/27/06	7 days
2. TPHC	01/26/06	14 days
Analyses		
1. VOA	02/03/06	14 days
2. BN	01/30/06	40 days
3. TPHC	01/30/06	40 days

000009

**CONFORMANCE/
NON-
CONFORMANCE
SUMMARY**

GC/MS ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY FORMAT

Indicate
Yes, No, N/A

1. Chromatograms labeled/Compounds identified
(Field samples and method blanks) yes
2. Retention times for chromatograms provided yes
3. GC/MS Tune Specifications
 - a. BFB Meet Criteria yes
 - b. DFTPP Meet Criteria yes
4. GC/MS Tuning Frequency – Performed every 24 hours for 600 series and 12 hours for 8000 series yes
5. GC/MS Calibration – Initial Calibration performed before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series yes
6. GC/MS Calibration requirements
 - a. Calibration Check Compounds Meet Criteria yes
 - b. System Performance Check Compounds Meet Criteria yes
7. Blank Contamination – If yes, List compounds and concentrations in each blank: NO
 - a. VOA Fraction _____
 - b. B/N Fraction _____
 - c. Acid Fraction NA
8. Surrogate Recoveries Meet Criteria yes

If not met, list those compounds and their recoveries, which fall outside the acceptable range:

 - a. VOA Fraction _____
 - b. B/N Fraction _____
 - c. Acid Fraction NA

If not met, were the calculations checked and the results qualified as "estimated"?

9. Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria NO

(If not met, list those compounds and their recoveries, which fall outside the acceptable range)

 - a. VOA Fraction Various out see form
 - b. B/N Fraction Low recoveries for Benzidine
 - c. Acid Fraction NA

GC/MS ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY FORMAT (cont.)

Indicate
Yes, No, N/A

10. Internal Standard Area/Retention Time Shift Meet Criteria
(If not met, list those compounds, which fall outside the acceptable range)

yes

- a. VOA Fraction _____
- b. B/N Fraction _____
- c. Acid Fraction N/A _____

11. Extraction Holding Time Met

yes

If not met, list the number of days exceeded for each sample: _____

12. Analysis Holding Time Met

yes

If not met, list the number of days exceeded for each sample: _____

Additional Comments:

Laboratory Manager:



Date: 3-6-06

TPHC CONFORMANCE/NON-CONFORMANCE SUMMARY REPORT

Indicate
Yes, No, N/A

1. Method Detection Limits Provided yes
2. Method Blank Contamination – If yes, list the sample and the corresponding concentrations in each blank

no
3. Matrix Spike Results Summary Meet Criteria
(If not met, list the sample and corresponding recovery which falls outside the acceptable range)

yes
4. Duplicate Results Summary Meet Criteria

yes
5. IR Spectra submitted for standards, blanks and samples NA
6. Chromatograms submitted for standards, blanks and samples if GC fingerprinting was conducted yes
7. Analysis holding time met
(If not met, list number of days exceeded for each sample)

yes

Additional comments: _____

Laboratory Manager:  Date: 3-6-06

**VOLATILE
ORGANICS
(AQUEOUS)**

US ARMY FT. MONMOUTH ENVIRONMENTAL LABORATORY
NJDEP CERTIFICATION # 13461

Definition of Qualifiers

- U:** The compound was analyzed for but not detected.
- B:** Indicates that the compound was found in the associated method blank as well as in the sample.
- J:** Indicates an estimated value. This flag is used:
- (1) When the mass spec and retention time data indicate the presence of a compound however the result is less than the MDL but greater than zero.
 - (2) When estimating the concentration of a tentatively identified compound (TIC), where a 1:1 response is assumed.
- D:** This flag is used to identify all compounds (target or TIC) that required a dilution.
- E:** Indicates the compound's concentration exceeds the calibration range of the instrument for that specific analysis.
- N:** This flag is only used for TICs. It indicates the presumptive evidence of a compound. For a generic characterization of a TIC, such as unknown hydrocarbon, the flag is not used.

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File **VB021618.D**
 Operator **Skelfon**
 Date Acquired **3 Feb 2006 4:05 pm**

Sample Name **MB 03Feb2006**
 Field ID **MB 03Feb2006**
 Sample Multiplier **1**

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	RL	Qualifiers
107028	Acrolein			not detected	5	2.01 ug/L	5.00 ug/L	
107131	Acrylonitrile			not detected	5	1.23 ug/L	5.00 ug/L	
75650	tert-Butyl alcohol			not detected	100	5.70 ug/L	10.00 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.21 ug/L	2.00 ug/L	
108203	Di-isopropyl ether			not detected	20000	0.26 ug/L	2.00 ug/L	
75718	Dichlorodifluoromethane			not detected	1000	0.20 ug/L	2.00 ug/L	
74-87-3	Chloromethane			not detected	nle	0.24 ug/L	2.00 ug/L	
75-01-4	Vinyl Chloride			not detected	1	0.23 ug/L	2.00 ug/L	
74-83-9	Bromomethane			not detected	10	0.26 ug/L	2.00 ug/L	
75-00-3	Chloroethane			not detected	nle	0.29 ug/L	2.00 ug/L	
75-69-4	Trichlorofluoromethane			not detected	2000	0.23 ug/L	2.00 ug/L	
75-35-4	1,1-Dichloroethene			not detected	1	0.19 ug/L	2.00 ug/L	
67-64-1	Acetone			not detected	6000	0.36 ug/L	2.00 ug/L	
75-15-0	Carbon Disulfide			not detected	700	0.24 ug/L	2.00 ug/L	
75-09-2	Methylene Chloride			not detected	3	0.21 ug/L	2.00 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.24 ug/L	2.00 ug/L	
75-34-3	1,1-Dichloroethane			not detected	50	0.24 ug/L	2.00 ug/L	
108-05-4	Vinyl Acetate			not detected	7000	0.20 ug/L	2.00 ug/L	
78-93-3	2-Butanone			not detected	300	0.26 ug/L	2.00 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	70	0.20 ug/L	2.00 ug/L	
67-66-3	Chloroform			not detected	70	0.22 ug/L	2.00 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.20 ug/L	2.00 ug/L	
56-23-5	Carbon Tetrachloride			not detected	1	0.24 ug/L	2.00 ug/L	
71-43-2	Benzene			not detected	1	0.24 ug/L	2.00 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.23 ug/L	2.00 ug/L	
79-01-6	Trichloroethene			not detected	1	0.26 ug/L	2.00 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.24 ug/L	2.00 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.22 ug/L	2.00 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.23 ug/L	2.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	1	0.22 ug/L	2.00 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	nle	0.35 ug/L	2.00 ug/L	
108-88-3	Toluene			not detected	1000	0.26 ug/L	2.00 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	1	0.25 ug/L	2.00 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.28 ug/L	2.00 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.20 ug/L	2.00 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.43 ug/L	2.00 ug/L	
124-48-1	Dibromochloromethane			not detected	1	0.22 ug/L	2.00 ug/L	
108-90-7	Chlorobenzene			not detected	50	0.28 ug/L	2.00 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.27 ug/L	2.00 ug/L	
1330-20-7	m+tp-Xylenes			not detected	nle	0.43 ug/L	4.00 ug/L	
95-47-6	o-Xylene			not detected	nle	0.21 ug/L	2.00 ug/L	
100-42-5	Styrene			not detected	100	0.21 ug/L	2.00 ug/L	
75-25-2	Bromoform			not detected	4	0.27 ug/L	2.00 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1	0.45 ug/L	2.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.36 ug/L	2.00 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.35 ug/L	2.00 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.45 ug/L	2.00 ug/L	

*Results between MDL and RL are estimated values
 *Higher of PQL's and Interim Criteria as per N.J.A.C. 7:9C 07Nov2005

Qualifiers

B = Compound found in related blank
 E = Value above linear range
 D = Value from dilution
 PQL = Practical Quantitation Limit

MDL = Method Detection Limit
 NLE = No Limit Established
 R.T. = Retention Time
 R.L. = Reporting Limit

000016

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID:

MB 03Feb2006

Lab Name: FMETL NJDEP#: 13461
Project: 06-34880 Case No.: 60048 Location: 701 SDG No.: UST
Matrix: (soil/water) WATER Lab Sample ID: MB 03Feb2006
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB021618.D
Level: (low/med) LOW Date Received: 1/23/2006
% Moisture: not dec. _____ Date Analyzed: 2/3/2006
GC Column: RTX502 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 4

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1.	unknown	12.51	34	J
2.	unknown	20.58	4	J
3.	unknown	24.39	15	J
4.	unknown	25.77	5	J

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File VB021623.D
 Operator Skelton
 Date Acquired 3 Feb 2006 7:24 pm

Sample Name 6004806
 Field ID Trip Blank
 Sample Multiplier 1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	RL	Qualifiers
107028	Acrolein			not detected	5	2.01 ug/L	5.00 ug/L	
107131	Acrylonitrile			not detected	5	1.23 ug/L	5.00 ug/L	
75650	tert-Butyl alcohol			not detected	100	5.70 ug/L	10.00 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.21 ug/L	2.00 ug/L	
108203	Di-isopropyl ether			not detected	20000	0.26 ug/L	2.00 ug/L	
75718	Dichlorodifluoromethane			not detected	1000	0.20 ug/L	2.00 ug/L	
74-87-3	Chloromethane			not detected	nle	0.24 ug/L	2.00 ug/L	
75-01-4	Vinyl Chloride			not detected	1	0.23 ug/L	2.00 ug/L	
74-83-9	Bromomethane			not detected	10	0.26 ug/L	2.00 ug/L	
75-00-3	Chloroethane			not detected	nle	0.29 ug/L	2.00 ug/L	
75-69-4	Trichlorofluoromethane			not detected	2000	0.23 ug/L	2.00 ug/L	
75-35-4	1,1-Dichloroethene			not detected	1	0.19 ug/L	2.00 ug/L	
67-64-1	Acetone			not detected	6000	0.36 ug/L	2.00 ug/L	
75-15-0	Carbon Disulfide			not detected	700	0.24 ug/L	2.00 ug/L	
75-09-2	Methylene Chloride			not detected	3	0.21 ug/L	2.00 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.24 ug/L	2.00 ug/L	
75-34-3	1,1-Dichloroethane			not detected	50	0.24 ug/L	2.00 ug/L	
108-05-4	Vinyl Acetate			not detected	7000	0.20 ug/L	2.00 ug/L	
78-93-3	2-Butanone			not detected	300	0.26 ug/L	2.00 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	70	0.20 ug/L	2.00 ug/L	
67-66-3	Chloroform			not detected	70	0.22 ug/L	2.00 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.20 ug/L	2.00 ug/L	
56-23-5	Carbon Tetrachloride			not detected	1	0.24 ug/L	2.00 ug/L	
71-43-2	Benzene			not detected	1	0.24 ug/L	2.00 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.23 ug/L	2.00 ug/L	
79-01-6	Trichloroethene			not detected	1	0.26 ug/L	2.00 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.24 ug/L	2.00 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.22 ug/L	2.00 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.23 ug/L	2.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	1	0.22 ug/L	2.00 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	nle	0.35 ug/L	2.00 ug/L	
108-88-3	Toluene			not detected	1000	0.26 ug/L	2.00 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	1	0.25 ug/L	2.00 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.28 ug/L	2.00 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.20 ug/L	2.00 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.43 ug/L	2.00 ug/L	
124-48-1	Dibromochloromethane			not detected	1	0.22 ug/L	2.00 ug/L	
108-90-7	Chlorobenzene			not detected	50	0.28 ug/L	2.00 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.27 ug/L	2.00 ug/L	
1330-20-7	m-p-Xylenes			not detected	nle	0.43 ug/L	4.00 ug/L	
95-47-6	o-Xylene			not detected	nle	0.21 ug/L	2.00 ug/L	
100-42-5	Styrene			not detected	100	0.21 ug/L	2.00 ug/L	
75-25-2	Bromoform			not detected	4	0.27 ug/L	2.00 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1	0.45 ug/L	2.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.36 ug/L	2.00 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.35 ug/L	2.00 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.45 ug/L	2.00 ug/L	

*Results between MDL and RL are estimated values
 *Higher of PQL's and Interim Criteria as per N.J.A.C. 7:9C-07Nov2005

Qualifiers

B = Compound found in related blank
 E = Value above linear range
 D = Value from dilution
 PQL = Practical Quantitation Limit

MDL = Method Detection Limit
 NLE = No Limit Established
 R.T. = Retention Time
 R.L. = Reporting Limit

000018

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID:

Trip Blank

Lab Name: FMETL NJDEP#: 13461
Project: 06-34880 Case No.: 60048 Location: 701 SDG No.: UST
Matrix: (soil/water) WATER Lab Sample ID: 6004806
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB021623.D
Level: (low/med) LOW Date Received: 1/23/2006
% Moisture: not dec. _____ Date Analyzed: 2/3/2006
GC Column: RTX502 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
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Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File VB021626.D
 Operator Skelton
 Date Acquired 3 Feb 2006 9:27 pm

Sample Name 6004805
 Field ID 701C-GW
 Sample Multiplier 1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	RL	Qualifiers
107028	Acrolein			not detected	5	2.01 ug/L	5.00 ug/L	
107131	Acrylonitrile			not detected	5	1.23 ug/L	5.00 ug/L	
75650	tert-Butyl alcohol			not detected	100	5.70 ug/L	10.00 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.21 ug/L	2.00 ug/L	
108203	Di-isopropyl ether			not detected	20000	0.26 ug/L	2.00 ug/L	
75718	Dichlorodifluoromethane			not detected	1000	0.20 ug/L	2.00 ug/L	
74-87-3	Chloromethane			not detected	nle	0.24 ug/L	2.00 ug/L	
75-01-4	Vinyl Chloride			not detected	1	0.23 ug/L	2.00 ug/L	
74-83-9	Bromomethane			not detected	10	0.26 ug/L	2.00 ug/L	
75-00-3	Chloroethane			not detected	nle	0.29 ug/L	2.00 ug/L	
75-69-4	Trichlorofluoromethane			not detected	2000	0.23 ug/L	2.00 ug/L	
75-35-4	1,1-Dichloroethene			not detected	1	0.19 ug/L	2.00 ug/L	
67-64-1	Acetone			not detected	6000	0.36 ug/L	2.00 ug/L	
75-15-0	Carbon Disulfide			not detected	700	0.24 ug/L	2.00 ug/L	
75-09-2	Methylene Chloride			not detected	3	0.21 ug/L	2.00 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.24 ug/L	2.00 ug/L	
75-34-3	1,1-Dichloroethane			not detected	50	0.24 ug/L	2.00 ug/L	
108-05-4	Vinyl Acetate			not detected	7000	0.20 ug/L	2.00 ug/L	
78-93-3	2-Butanone			not detected	300	0.26 ug/L	2.00 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	70	0.20 ug/L	2.00 ug/L	
67-66-3	Chloroform			not detected	70	0.22 ug/L	2.00 ug/L	
71-55-6	1,1,1-Trichloroethane			not detected	30	0.20 ug/L	2.00 ug/L	
56-23-5	Carbon Tetrachloride			not detected	1	0.24 ug/L	2.00 ug/L	
71-43-2	Benzene			not detected	1	0.24 ug/L	2.00 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.23 ug/L	2.00 ug/L	
79-01-6	Trichloroethene			not detected	1	0.26 ug/L	2.00 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.24 ug/L	2.00 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.22 ug/L	2.00 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.23 ug/L	2.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	1	0.22 ug/L	2.00 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	nle	0.35 ug/L	2.00 ug/L	
108-88-3	Toluene			not detected	1000	0.26 ug/L	2.00 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	1	0.25 ug/L	2.00 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.28 ug/L	2.00 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.20 ug/L	2.00 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.43 ug/L	2.00 ug/L	
124-48-1	Dibromochloromethane			not detected	1	0.22 ug/L	2.00 ug/L	
108-90-7	Chlorobenzene			not detected	50	0.28 ug/L	2.00 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.27 ug/L	2.00 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	0.43 ug/L	4.00 ug/L	
95-47-6	o-Xylene			not detected	nle	0.21 ug/L	2.00 ug/L	
100-42-5	Styrene			not detected	100	0.21 ug/L	2.00 ug/L	
75-25-2	Bromoform			not detected	4	0.27 ug/L	2.00 ug/L	
79-34-5	1,1,1,2,2-Tetrachloroethane			not detected	1	0.45 ug/L	2.00 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.36 ug/L	2.00 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.35 ug/L	2.00 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.45 ug/L	2.00 ug/L	

*Results between MDL and RL are estimated values
 *Higher of PQL's and Interim Criteria as per N.J.A.C. 7:9C 07Nov2005

Qualifiers

B = Compound found in related blank
 E = Value above linear range
 D = Value from dilution
 PQL = Practical Quantitation Limit

MDL = Method Detection Limit
 NLE = No Limit Established
 R.T. = Retention Time
 R.L. = Reporting Limit

000020

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID:

701C-GW

Lab Name: FMETL NJDEP#: 13461
Project: 06-34880 Case No.: 60048 Location: 701 SDG No.: UST
Matrix: (soil/water) WATER Lab Sample ID: 6004805
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VB021626.D
Level: (low/med) LOW Date Received: 1/23/2006
% Moisture: not dec. _____ Date Analyzed: 2/3/2006
GC Column: RTX502 ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Number TICs found: 0

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
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5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: FMETL NJDEP#: 13461
 Project: 06-34880 Case No.: 60048 Location: 701 SDG No.: UST
 Lab File ID: VB021610.D BFB Injection Date: 2/3/2006
 Instrument ID: GCMS#2 BFB Injection Time: 9:58
 GC Column: RTX502.2 ID: 0.25 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	19.0
75	30.0 - 66.0% of mass 95	51.6
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	50.0 - 120.0% of mass 95	77.6
175	4.0 - 9.0% of mass 174	6.1 (7.9)1
176	93.0 - 101.0% of mass 174	76.2 (98.2)1
177	5.0 - 9.0% of mass 176	4.7 (6.2)2

1-Value is % mass 174

2-Value is % mass 176

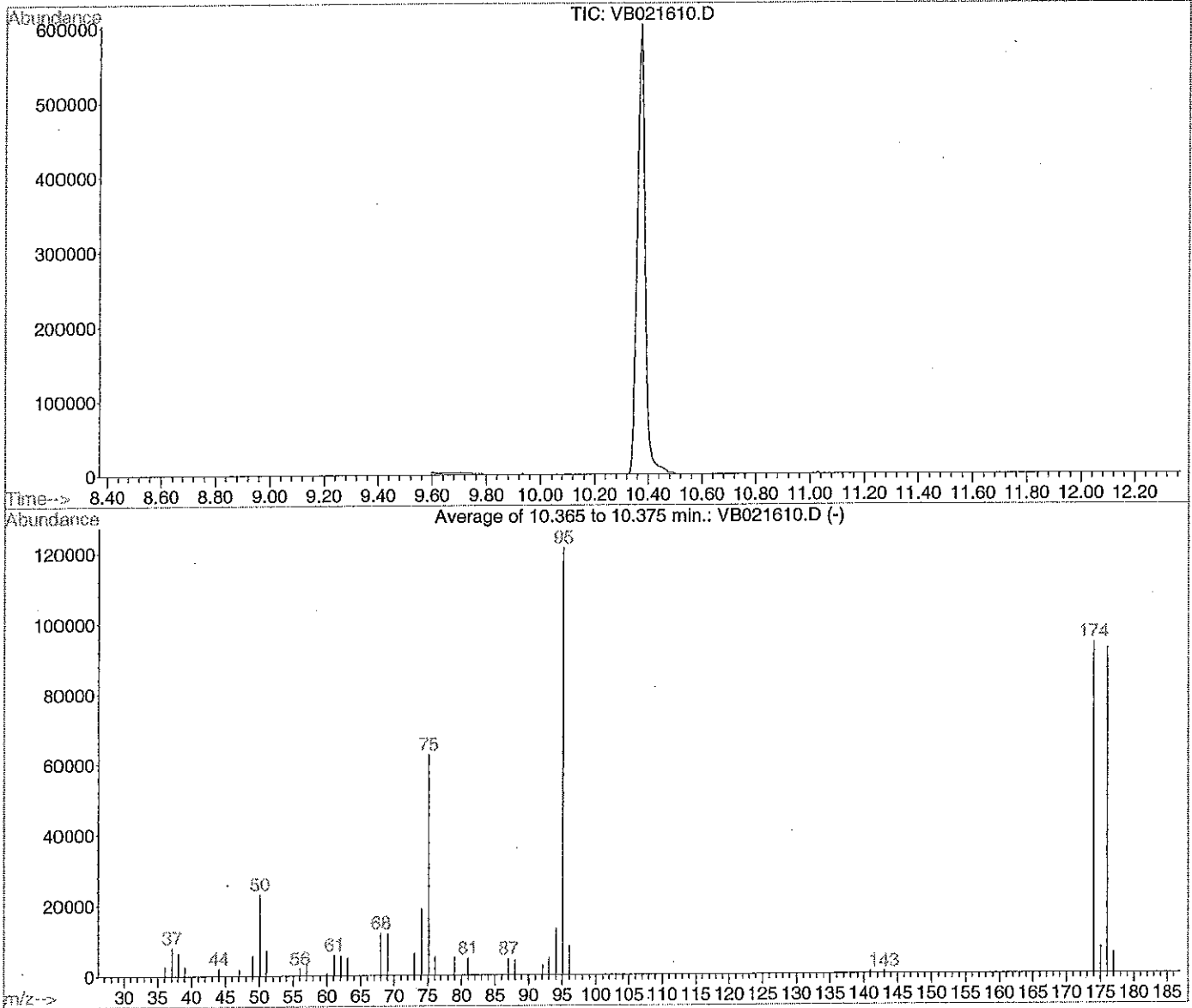
THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	FIELD ID:	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050	VSTD050	VB021611.D	2/3/2006	10:39
02	VSTD020	VSTD020	VB021612.D	2/3/2006	11:21
03	VSTD010	VSTD010	VB021613.D	2/3/2006	12:03
04	VSTD005	VSTD005	VB021614.D	2/3/2006	12:45
05	VSTD002	VSTD002	VB021615.D	2/3/2006	13:27
06	MB 03FEB2006	MB 03FEB2006	VB021618.D	2/3/2006	16:05
07	TRIP BLANK	6004806	VB021623.D	2/3/2006	19:24
08	701C-GW	6004805	VB021626.D	2/3/2006	21:27

BFB

Data File : C:\HPCHEM\1\DATA\060203\VB021610.D
Acq On : 3 Feb 2006 9:58 am
Sample : BFB Tune
Misc : BFB Tune
MS Integration Params: GAS10.P
Method : C:\HPCHEM\1\METHODS\M2VO230.M (RTE Integrator)
Title : Volatile Organics by GC/MS Method 624/8260/TCLP

Vial: 1
Operator: Skelton
Inst : GC/MS Ins
Multiplr: 1.00



AutoFind: Scans 148, 149, 150; Background Corrected with Scan 139

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.0	23013	PASS
75	95	30	60	51.6	62523	PASS
95	95	100	100	100.0	121213	PASS
96	95	5	9	6.8	8188	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	77.6	94045	PASS
175	174	5	9	7.9	7387	PASS
176	174	95	101	98.2	92397	PASS
177	176	5	9	6.2	5736	PASS

Response Factor Report GC/MS Ins

Method : C:\HPCHEM\1\METHODS\M2VO230.M (RTE Integrator)
 Title : Volatile Organics by GC/MS Method 624/8260/TCLP
 Last Update : Fri Feb 03 14:05:16 2006
 Response via : Initial Calibration

Calibration Files

50 =VB021611.D 20 =VB021612.D 10 =VB021613.D
 5 =VB021614.D 2 =VB021615.D

Compound	50	20	10	5	2	Avg	%RSD
-----ISTD-----							
1) I Bromochloromethane							
2) tm Acrolein	0.093	0.089	0.087	0.075	0.077	0.084	9.58
3) tm Acrylonitrile	0.796	0.793	0.784	0.701	0.695	0.754	6.81
4) tm tert-Butyl alcohol	0.096	0.102	0.109	0.095	0.091	0.099	6.81
5) tm Methyl-tert-Butyl eth	4.126	3.622	3.372	3.048	2.510	3.336	18.18
6) tm Di-isopropyl ether	0.953	0.783	0.711	0.594	0.456	0.699	26.90
7) Tm Dichlorodifluorometha	2.045	1.921	1.830	1.704	1.690	1.838	8.15
8) TPm Chloromethane	2.216	2.224	2.139	2.055	2.102	2.147	3.40
9) TCm Vinyl Chloride	2.484	2.389	2.251	2.172	2.129	2.285	6.53
10) Tm Bromomethane	1.592	1.749	1.838	1.874	1.993	1.809	8.26
11) Tm Chloroethane	1.640	1.773	1.736	1.702	1.692	1.709	2.92
12) Tm Trichlorofluoromethan	4.674	4.610	4.593	4.396	4.391	4.533	2.88
13) MC 1,1-Dichloroethene	3.292	3.161	2.869	2.674	2.525	2.904	11.08
14) Tm Acetone	0.475	0.511	0.544	0.589	0.929	0.609	30.11
15) Tm Carbon Disulfide	6.564	6.329	5.942	5.518	5.229	5.916	9.34
16) Tm Methylene Chloride	2.499	2.511	2.491	2.419	2.525	2.489	1.65
17) Tm trans-1,2-Dichloroeth	3.139	3.000	2.767	2.549	2.395	2.770	11.11
18) TPm 1,1-Dichloroethane	4.278	4.194	3.972	3.722	3.513	3.936	8.14
19) Tm Vinyl Acetate	1.217	1.119	1.032	0.916	0.756	1.008	17.78
20) Tm 2-Butanone	0.601	0.576	0.564	0.489	0.441	0.534	12.50
21) Tm cis-1,2-Dichloroethen	3.363	3.191	2.943	2.661	2.430	2.918	13.03
22) TCm Chloroform	4.517	4.468	4.374	4.265	4.410	4.407	2.19
23) Tm 1,1,1-Trichloroethane	3.414	3.119	2.903	2.620	2.131	2.837	17.28
24) Tm Carbon Tetrachloride	2.245	2.000	1.911	1.831	1.544	1.906	13.39
25) S 1,2-Dichloroethane-d4	2.954	2.872	2.815	2.732	2.808	2.836	2.91
-----ISTD-----							
26) I 1,4-Difluorobenzene							
27) TM Benzene	1.712	1.754	1.692	1.655	1.598	1.682	3.51
28) Tm 1,2-Dichloroethane	0.711	0.769	0.766	0.761	0.819	0.765	5.03
29) TM Trichloroethene	0.523	0.525	0.509	0.492	0.447	0.499	6.40
30) TCm 1,2-Dichloropropane	0.426	0.441	0.428	0.419	0.361	0.415	7.53
31) Tm Bromodichloromethane	0.626	0.641	0.622	0.592	0.570	0.610	4.66
32) Tm 2-Chloroethyl vinyl e	0.109	0.103	0.104	0.095	0.098	0.102	5.34
33) Tm cis-1,3-Dichloroprope	0.608	0.537	0.473	0.417	0.391	0.485	18.26
34) Tm 4-Methyl-2-Pentanone	0.033	0.032	0.035	0.031	0.034	0.033#	4.36
35) S Toluene-d8	0.661	0.619	0.635	0.579	0.566	0.612	6.45
36) TCM Toluene	0.777	0.738	0.768	0.697	0.712	0.739	4.67
-----ISTD-----							
37) I Chlorobenzene-d5							
38) Tm trans-1,3-Dichloropro	5.018	4.252	3.361	2.988	2.595	3.643	27.00
39) Tm 1,1,2-Trichloroethane	3.744	3.963	3.678	3.604	3.209	3.640	7.56
40) Tm Tetrachloroethene	2.971	2.945	2.742	2.690	2.351	2.740	9.10
41) Tm 2-Hexanone	0.407	0.450	0.492	0.465	0.581	0.479	13.54
42) Tm Dibromochloromethane	3.491	3.409	3.095	2.959	2.485	3.088	13.01
43) TMP Chlorobenzene	3.853	3.894	4.010	4.157	4.351	4.053	5.04
44) TCm Ethylbenzene	3.421	3.790	4.556	5.656	5.930	4.671	23.71
45) Tm m+p-Xylenes	1.181	1.528	1.744	2.193	2.177	1.765	24.54
46) Tm o-Xylene	2.412	2.858	3.287	4.399	4.684	3.528	27.79
47) Tm Styrene	1.563	1.850	2.068	2.848	2.932	2.252	27.08
48) TPm Bromoform	1.320	1.271	1.250	1.189	1.151	1.236	5.42
49) S Bromofluorobenzene	0.994	1.077	1.278	1.676	1.875	1.380	27.68
50) TPm 1,1,2,2-Tetrachloroet	1.553	1.576	1.645	1.593	1.722	1.618	4.19
51) Tm 1,3-Dichlorobenzene	1.780	2.052	2.199	3.077	3.072	2.436	24.72
52) Tm 1,4-Dichlorobenzene	2.403	2.683	2.583	3.570	3.233	2.894	16.87
53) Tm 1,2-Dichlorobenzene	1.935	2.081	2.184	3.037	2.984	2.444	21.46
54) Tm Naphthalene	1.343	2.521	2.392	2.831	3.143	2.446	27.88

(#) = Out of Range

VOLATILE METHOD BLANK SUMMARY

MB 03Feb2006

Lab Name: FMETL NJDEP#: 13461
 Project: 06-34880 Case No.: 60048 Location: 701 SDG No.: UST
 Lab File ID: VB021618.D Lab Sample ID: MB 03Feb2006
 Date Analyzed: 2/3/2006 Time Analyzed: 16:05
 GC Column: RTX502 ID: 0.25 (mm) Heated Purge: (Y/N) N
 Instrument ID: GCMS#2

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	FIELD ID:	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	TRIP BLANK	6004806	VB021623.D	19:24
02	701C-GW	6004805	VB021626.D	21:27

COMMENTS:

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: FMETL NJDEP#: 13461
 Project: 06-34880 Case No.: 60048 Location: 701 SDG No.: UST

	FIELD ID:	SMC1 DCE #	SMC2 TOL #	SMC3 BFB #	TOT OUT
01	MB 03FEB2006	89	102	111	0
02	TRIP BLANK	92	84	100	0
03	701C-GW	91	79	97	0

QC LIMITS

SMC1 DCE = 1,2-Dichloroethane-d4 (70-120)
 SMC2 TOL = Toluene-d8 (70-120)
 SMC3 BFB = Bromofluorobenzene (70-120)

Column to be used to flag recovery values
 * Values outside of contract required QC limits
 D System Monitoring Compound diluted out

Spike Recovery and RPD Summary Report - WATER

Method : C:\HPCHEM\1\METHODS\M2VO231.M (RTE Integrator)
 Title : Volatile Organics by GC/MS Method 624/8260/TCLP
 Last Update : Wed Feb 08 15:05:52 2006
 Response via : Initial Calibration

Non-Spiked Sample: VB021645.D

Spike Sample	Spike Duplicate Sample
File ID : VB021646.D	VB021647.D
Sample : 6006204 MS	6006204 MSD
Acq Time: 8 Feb 2006 3:59 am	8 Feb 2006 4:40 am

Compound	Sample Conc	Spike Added	Spike Res	Dup Res	Spike %Rec	Dup %Rec	RPD	QC Limits RPD	Limits % Rec
Acrolein	0.0	50	57	61	114	121	6	20	59-137
Acrylonitrile	0.0	50	61	64	121	128#	5	20	68-127
tert-Butyl alcohol	0.0	100	109	121	109	121	11	20	17-167
Methyl-tert-Butyl et	0.0	10	13	14	132#	139#	5	20	74-116
Di-isopropyl ether	0.0	10	14	14	136#	141#	4	20	77-117
Dichlorodifluorometh	0.0	10	10	10	96	99	3	20	50-131
Chloromethane	1.4	10	11	12	92	108	17	20	65-123
Vinyl Chloride	0.0	10	13	13	131#	135#	3	20	63-125
Bromomethane	5.7	10	15	15	89	94	6	20	72-118
Chloroethane	0.0	10	4	4	38#	40#	4	20	64-127
Trichlorofluorometha	0.0	10	8	8	81	79	3	20	60-122
1,1-Dichloroethene	0.0	10	10	10	99	101	2	20	68-116
Acetone	0.0	10	9	9	91	93	1	20	2-148
Carbon Disulfide	0.0	10	9	10	94	96	2	20	69-117
Methylene Chloride	2.6	10	15	16	120#	131#	9	20	79-110
trans-1,2-Dichloroet	0.0	10	11	12	114#	123#	8	20	73-113
1,1-Dichloroethane	0.0	10	2	2	22#	25#	13	20	77-112
Vinyl Acetate	0.0	10	13	13	126	134#	6	20	52-127
2-Butanone	0.0	10	13	13	131	133	1	20	12-162
cis-1,2-Dichloroethe	0.0	10	12	12	116#	124#	6	20	74-114
Chloroform	0.0	10	10	12	103	119#	14	20	79-110
1,1,1-Trichloroethan	0.0	10	12	12	116#	121#	4	20	73-114
Carbon Tetrachloride	0.0	10	11	11	109	113	4	20	69-115
Benzene	0.0	10	8	8	85	85	0	20	78-112
1,2-Dichloroethane	0.0	10	9	9	90	89	1	20	78-115
Trichloroethene	0.0	10	8	8	83	83	1	20	74-114
1,2-Dichloropropane	0.0	10	9	9	87	87	0	20	77-113
Bromodichloromethane	0.0	10	8	8	84	83	1	20	77-113
2-Chloroethyl vinyl	0.0	10	9	9	85	86	1	20	67-117
cis-1,3-Dichloroprop	0.0	10	8	8	85	84	1	20	75-116
4-Methyl-2-Pentanone	0.0	10	8	9	84	86	3	20	33-146
Toluene	0.0	10	9	9	87	87	1	20	80-113
trans-1,3-Dichloropr	0.0	10	9	9	86	85	0	20	75-117
1,1,2-Trichloroethan	0.0	10	9	9	92	92	0	20	78-116
Tetrachloroethene	0.0	10	8	8	83	82	2	20	73-115
2-Hexanone	0.0	10	8	9	83	85	3	20	30-147
Dibromochloromethane	0.0	10	9	8	86	84	2	20	77-115
Chlorobenzene	0.0	10	9	9	87	86	2	20	78-112
Ethylbenzene	0.0	10	8	8	84	83	2	20	77-113
m+p-Xylenes	0.0	20	17	17	86	84	3	20	76-115
o-Xylene	0.0	10	9	9	91	88	3	20	74-118
Styrene	0.0	10	9	8	87	85	2	20	77-116
Bromoform	0.0	10	8	8	84	83	1	20	72-116
1,1,2,2-Tetrachloroe	0.0	10	9	9	90	89	2	20	73-120
1,3-Dichlorobenzene	0.0	10	9	9	88	88	0	20	75-114
1,4-Dichlorobenzene	0.0	10	9	9	89	89	0	20	75-116
1,2-Dichlorobenzene	0.0	10	9	9	89	89	0	20	76-115
Naphthalene	0.1	10	6	7	60#	72	19	20	70-120

- Fails Limit Check

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: FMETL NJDEP#: 13461
 Project: 06-34880 Case No.: 60048 Location: 701 SDG No.: UST
 Lab File ID (Standard): VB021613.D Date Analyzed: 2/3/2006
 Instrument ID: GCMS#2 Time Analyzed: 12:03
 GC Column: RTX502.2 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS1BCM AREA #	RT #	IS2DFB AREA #	RT #	IS3CBZ AREA #	RT #
12 HOUR STD	369432	16.44	1565703	19.65	151289	25.67
UPPER LIMIT	738864	16.94	3131406	20.15	302578	26.17
LOWER LIMIT	184716	15.94	782852	19.15	75645	25.17
FIELD ID:						
01 MB 03FEB2006	367651	16.43	1570584	19.65	196839	25.66
02 TRIP BLANK	350040	16.43	1159908	19.65	101570	25.66
03 701C-GW	343469	16.43	1190664	19.64	99241	25.66

IS1 BCM = Bromochloromethane
 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 to be used to flag values outside QC limit with an asterisk.

* Values outside of contract required QC limits

Data File : C:\HPCHEM\1\DATA\060203\VB021618.D Vial: 2
 Acq On : 3 Feb 2006 4:05 pm Operator: Skelton
 Sample : MB 03Feb2006 Inst : GC/MS Ins
 Misc : MB 03Feb2006 Multiplr: 1.00
 MS Integration Params: GAS10.P
 Quant Time: Feb 28 13:18 2006 Quant Results File: M2V0230.RES

Quant Method : C:\HPCHEM\1\METHODS\M2V0230.M (RTE Integrator)
 Title : Volatile Organics by GC/MS Method 624/8260/TCLP
 Last Update : Fri Feb 03 14:05:16 2006
 Response via : Initial Calibration
 DataAcq Meth : M2V0230

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	16.43	128	367651	30.00	ug/L	-0.01
26) 1,4-Difluorobenzene	19.65	114	1570584	30.00	ug/L	0.00
37) Chlorobenzene-d5	25.66	119	196839	30.00	ug/L	-0.01

System Monitoring Compounds

25) 1,2-Dichloroethane-d4	18.48	65	930771	26.78	ug/L	-0.01
Spiked Amount	30.000	Range	70 - 120	Recovery	=	89.27%
35) Toluene-d8	22.58	98	982316	30.66	ug/L	-0.01
Spiked Amount	30.000	Range	70 - 120	Recovery	=	102.20%
49) Bromofluorobenzene	28.00	95	302007	33.35	ug/L	0.00
Spiked Amount	30.000	Range	70 - 120	Recovery	=	111.17%

Target Compounds

Qvalue

C.
 T.
 L.
 P.
 D.

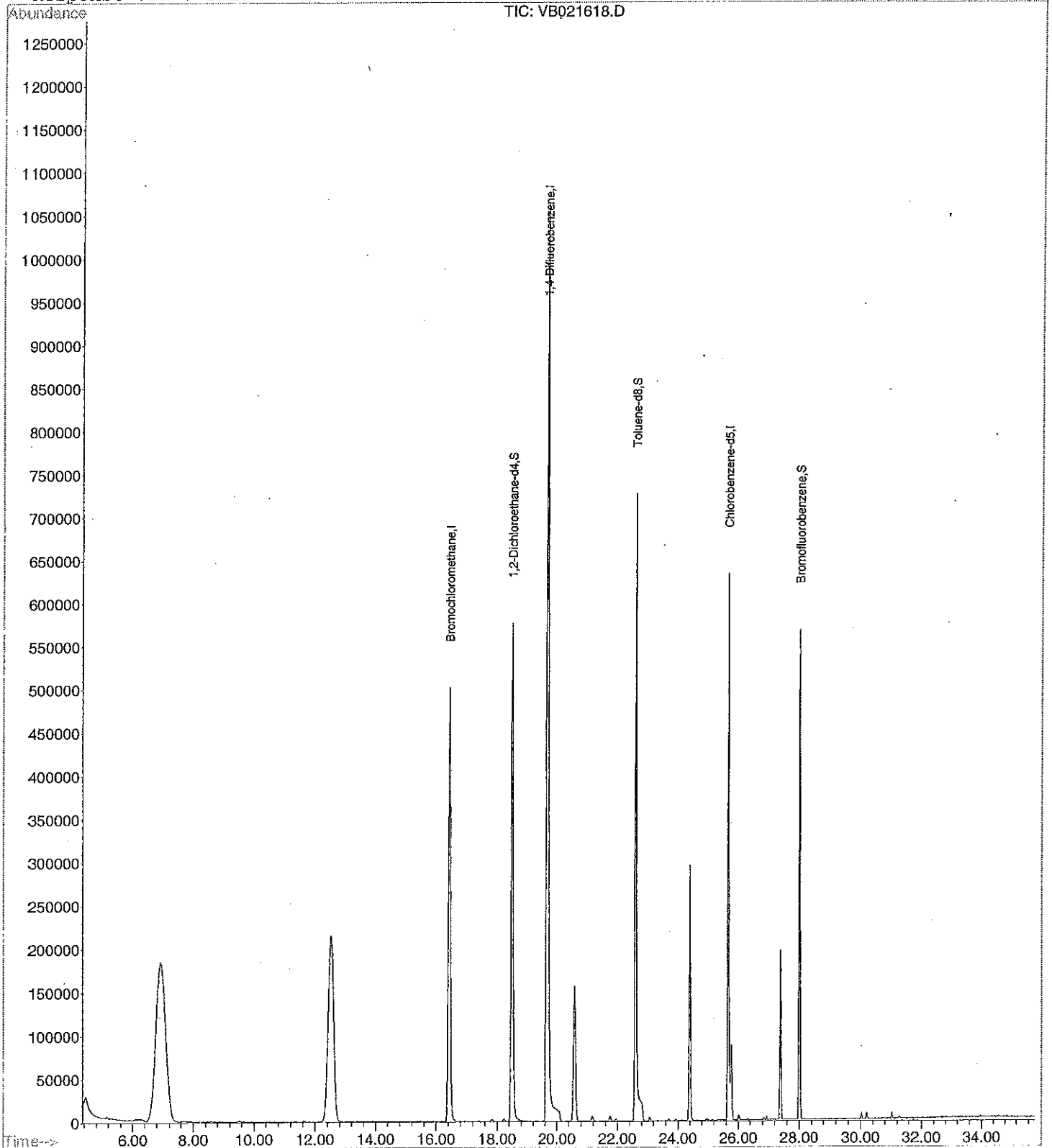
Quantitation Report

Data File : C:\HPCHEM\1\DATA\060203\VB021618.D
Acq On : 3 Feb 2006 4:05 pm
Sample : MB 03Feb2006
Misc : MB 03Feb2006
MS Integration Params: GAS10.P
Quant Time: Feb 28 13:18 2006

Vial: 2
Operator: Skelton
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: M2VO230.RES

Method : C:\HPCHEM\1\METHODS\M2VO230.M (RTE Integrator)
Title : Volatile Organics by GC/MS Method 624/8260/TCLP
Last Update : Fri Feb 03 14:05:16 2006
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\060203\VB021623.D Vial: 7
 Acq On : 3 Feb 2006 7:24 pm Operator: Skelton
 Sample : 6004806 Inst : GC/MS Ins
 Misc : Trip Blank Multiplr: 1.00
 MS Integration Params: GAS10.P
 Quant Time: Feb 3 20:00 2006 Quant Results File: M2VO230.RES

Quant Method : C:\HPCHEM\1\METHODS\M2VO230.M (RTE Integrator)
 Title : Volatile Organics by GC/MS Method 624/8260/TCLP
 Last Update : Fri Feb 03 14:05:16 2006
 Response via : Initial Calibration
 DataAcq Meth : M2VO230

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	16.43	128	350040	30.00	ug/L	-0.01
26) 1,4-Difluorobenzene	19.65	114	1159908	30.00	ug/L	0.00
37) Chlorobenzene-d5	25.66	119	101570	30.00	ug/L	-0.01

System Monitoring Compounds						
25) 1,2-Dichloroethane-d4	18.48	65	910876	27.53	ug/L	-0.01
Spiked Amount	30.000	Range	70 - 120	Recovery	=	91.77%
35) Toluene-d8	22.58	98	592658	25.05	ug/L	-0.01
Spiked Amount	30.000	Range	70 - 120	Recovery	=	83.50%
49) Bromofluorobenzene	28.00	95	140443	30.06	ug/L	0.00
Spiked Amount	30.000	Range	70 - 120	Recovery	=	100.20%

Target Compounds Qvalue

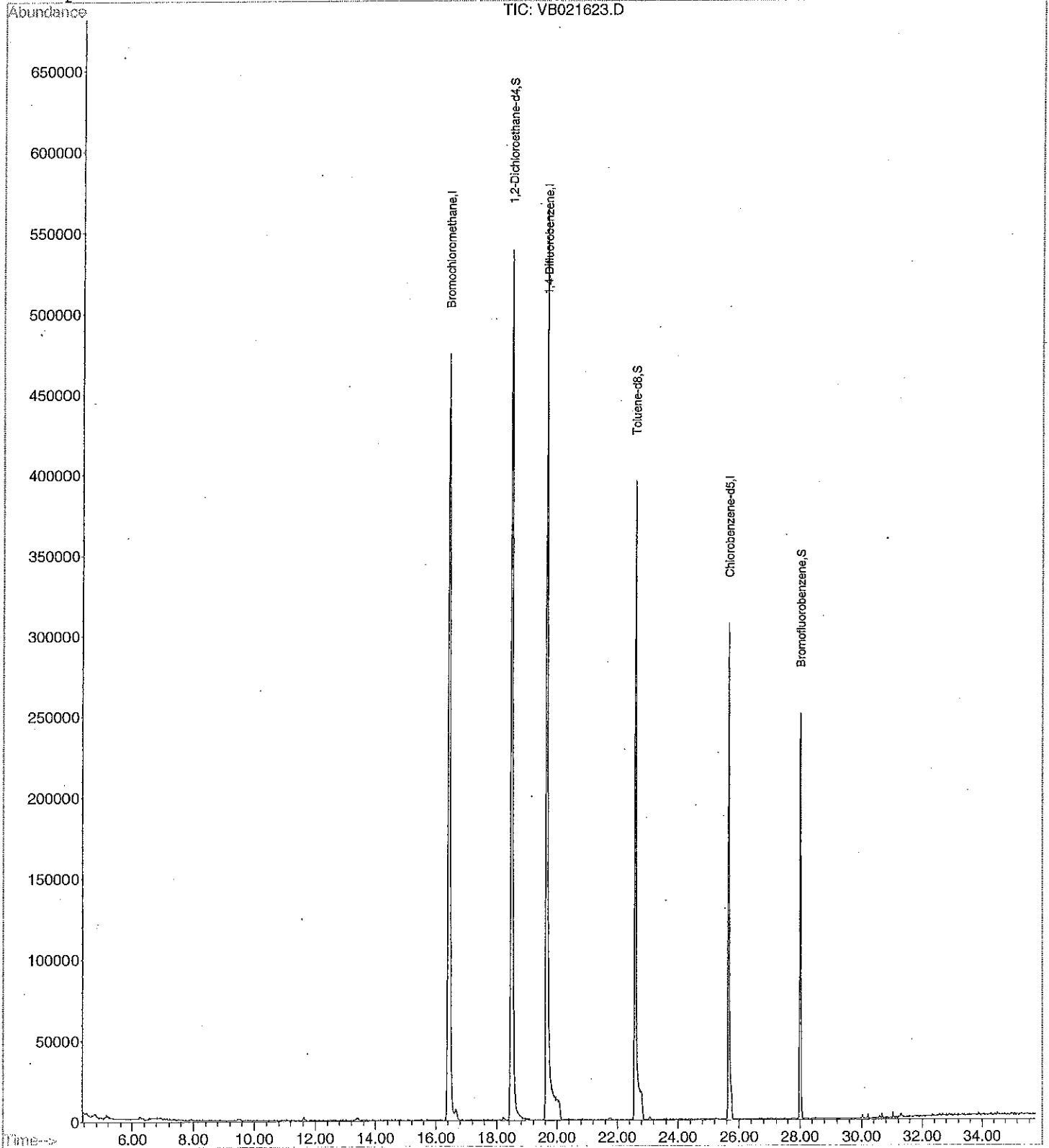
Quantitation Report

Data File : C:\HPCHEM\1\DATA\060203\VB021623.D
Acq On : 3 Feb 2006 7:24 pm
Sample : 6004806
Misc : Trip Blank
MS Integration Params: GAS10.P
Quant Time: Feb 3 20:00 2006

Vial: 7
Operator: Skelton
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: M2VO230.RES

Method : C:\HPCHEM\1\METHODS\M2VO230.M (RTE Integrator)
Title : Volatile Organics by GC/MS Method 624/8260/TCLP
Last Update : Fri Feb 03 14:05:16 2006
Response via : Initial Calibration



Data File : C:\HPCHEM\1\DATA\060203\VB021626.D Vial: 10
 Acq On : 3 Feb 2006 9:27 pm Operator: Skelton
 Sample : 6004805 Inst : GC/MS Ins
 Misc : 701C-GW Multiplr: 1.00
 MS Integration Params: GAS10.P
 Quant Time: Feb 3 22:03 2006 Quant Results File: M2VO230.RES

Quant Method : C:\HPCHEM\1\METHODS\M2VO230.M (RTE Integrator)
 Title : Volatile Organics by GC/MS Method 624/8260/TCLP
 Last Update : Fri Feb 03 14:05:16 2006
 Response via : Initial Calibration
 DataAcq Meth : M2VO230

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	16.43	128	343469	30.00	ug/L	-0.01
26) 1,4-Difluorobenzene	19.64	114	1190664	30.00	ug/L	-0.01
37) Chlorobenzene-d5	25.66	119	99241	30.00	ug/L	-0.01
System Monitoring Compounds						
25) 1,2-Dichloroethane-d4	18.48	65	885231	27.26	ug/L	-0.01
Spiked Amount	30.000	Range 70 - 120	Recovery =	90.87%		
35) Toluene-d8	22.58	98	576650	23.74	ug/L	-0.01
Spiked Amount	30.000	Range 70 - 120	Recovery =	79.13%		
49) Bromofluorobenzene	27.99	95	133119	29.16	ug/L	-0.01
Spiked Amount	30.000	Range 70 - 120	Recovery =	97.20%		

Target Compounds Qvalue

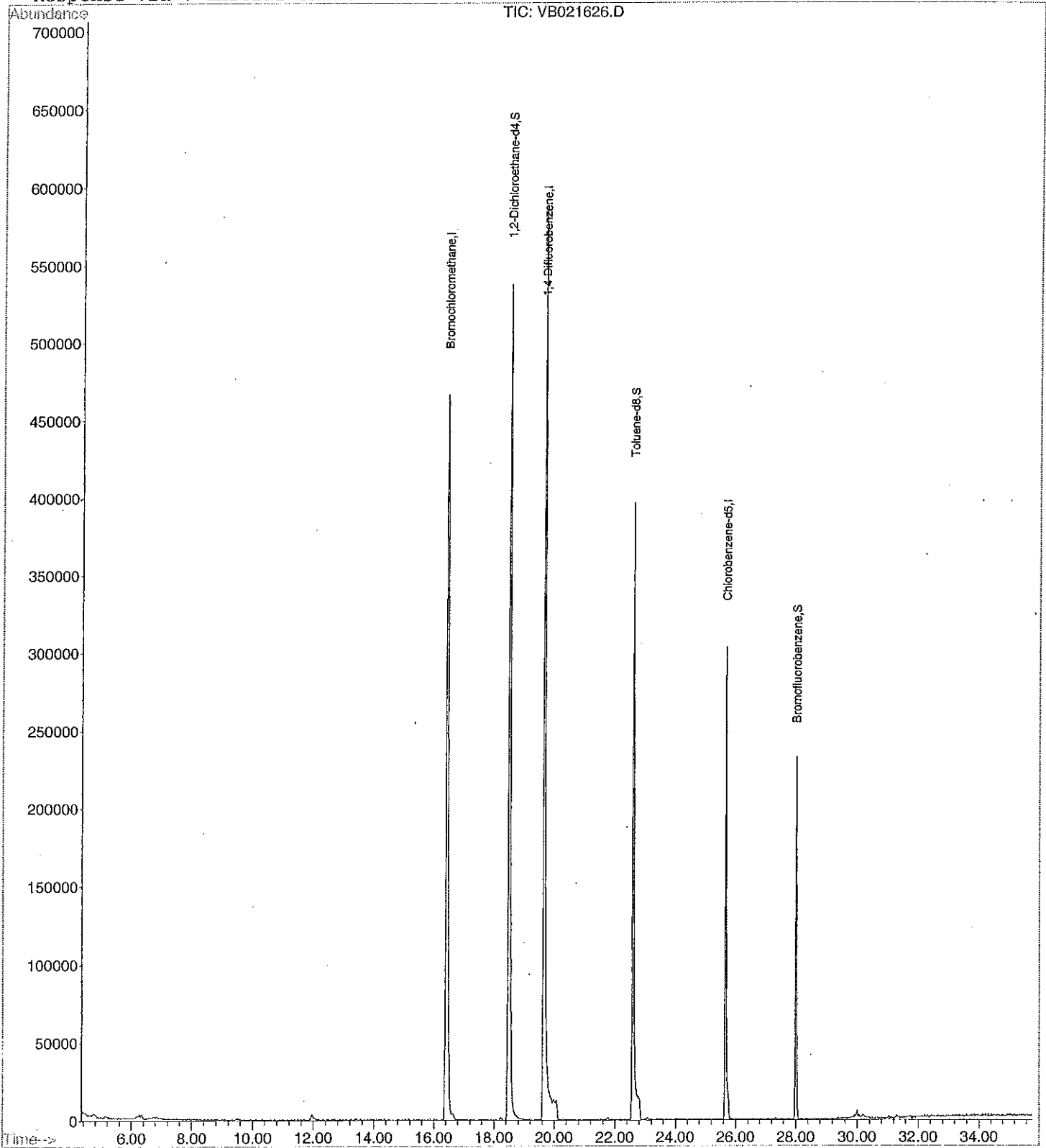
Quantitation Report

Data File : C:\HPCHEM\1\DATA\060203\VB021626.D
Acq On : 3 Feb 2006 9:27 pm
Sample : 6004805
Misc : 701C-GW
MS Integration Params: GAS10.P
Quant Time: Feb 3 22:03 2006

Vial: 10
Operator: Skelton
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: M2VO230.RES

Method : C:\HPCHEM\1\METHODS\M2VO230.M (RTE Integrator)
Title : Volatile Organics by GC/MS Method 624/8260/TCLP
Last Update : Fri Feb 03 14:05:16 2006
Response via : Initial Calibration



SEMI-VOLATILE ORGANICS

000035

Semi-Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name **BNA11471.D**
 Operator **BPatel**
 Date Acquired **30-Jan-06**

Sample Name **MB-012706-01**
 Misc Info **MB-012706-01**
 Sample Multiplier **1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	RL	ug/L	Qualifiers
110-86-1	Pyridine			not detected	NLE	1.13	10.00	ug/L	
62-75-9	N-nitroso-dimethylamine			not detected	0.8	0.60	10.00	ug/L	
62-53-3	Aniline			not detected	6	2.38	10.00	ug/L	
111-44-4	bis(2-Chloroethyl)ether			not detected	7	0.71	10.00	ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	1.02	10.00	ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.99	10.00	ug/L	
100-51-6	Benzyl alcohol			not detected	2000	0.66	10.00	ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.96	10.00	ug/L	
39638-32-9	bis(2-chloroisopropyl)ether			not detected	300	0.88	10.00	ug/L	
621-64-7	n-Nitroso-di-n-propylamine			not detected	10	0.76	10.00	ug/L	
67-72-1	Hexachloroethane			not detected	7	0.96	10.00	ug/L	
98-95-3	Nitrobenzene			not detected	6	0.86	10.00	ug/L	
78-59-1	Isophorone			not detected	40	0.76	10.00	ug/L	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.79	10.00	ug/L	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	0.89	10.00	ug/L	
91-20-3	Naphthalene			not detected	300	0.76	10.00	ug/L	
106-47-8	4-Chloroaniline			not detected	30	1.37	10.00	ug/L	
87-68-3	Hexachlorobutadiene			not detected	1	0.99	10.00	ug/L	
91-57-6	2-Methylnaphthalene			not detected	NLE	1.01	10.00	ug/L	
77-47-4	Hexachlorocyclopentadiene			not detected	40	0.92	10.00	ug/L	
91-58-7	2-Chloronaphthalene			not detected	600	0.72	10.00	ug/L	
88-74-4	2-Nitroaniline			not detected	NLE	0.77	10.00	ug/L	
131-11-3	Dimethylphthalate			not detected	NLE	0.78	10.00	ug/L	
208-96-8	Acenaphthylene			not detected	NLE	0.67	10.00	ug/L	
606-20-2	2,6-Dinitrotoluene			not detected	10	0.71	10.00	ug/L	
99-09-2	3-Nitroaniline			not detected	NLE	1.18	10.00	ug/L	
83-32-9	Acenaphthene			not detected	400	0.73	10.00	ug/L	
132-64-9	Dibenzofuran			not detected	NLE	0.69	10.00	ug/L	
121-14-2	2,4-Dinitrotoluene			not detected	10	0.81	10.00	ug/L	
84-66-2	Diethylphthalate			not detected	6000	0.96	10.00	ug/L	
86-73-7	Fluorene			not detected	300	0.71	10.00	ug/L	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	0.73	10.00	ug/L	
100-01-6	4-Nitroaniline			not detected	NLE	1.11	10.00	ug/L	
86-30-6	n-Nitrosodiphenylamine			not detected	10	0.62	10.00	ug/L	
103-33-3	Azobenzene			not detected	NLE	0.72	10.00	ug/L	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.92	10.00	ug/L	
118-74-1	Hexachlorobenzene			not detected	0.02	0.95	10.00	ug/L	
85-01-8	Phenanthrene			not detected	NLE	0.81	10.00	ug/L	
120-12-7	Anthracene			not detected	2000	0.76	10.00	ug/L	
84-74-2	Di-n-butylphthalate			not detected	700	0.92	10.00	ug/L	
206-44-0	Fluoranthene			not detected	300	0.82	10.00	ug/L	

Semi-Volatile Analysis Report
Page 2

Data File Name **BNA11471.D**
Operator **BPatel**
Date Acquired **30-Jan-06**

Sample Name **MB-012706-01**
Misc Info **MB-012706-01**
Sample Multiplier **1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	RL	Qualifiers
92-87-5	Benzidine			not detected	20	0.98	10.00	ug/L
129-00-0	Pyrene			not detected	200	0.79	10.00	ug/L
85-68-7	Butylbenzylphthalate			not detected	100	0.86	10.00	ug/L
56-55-3	Benzo[a]anthracene			not detected	0.1	0.82	10.00	ug/L
91-94-1	3,3'-Dichlorobenzidine			not detected	30	1.31	10.00	ug/L
218-01-9	Chrysene			not detected	5	0.77	10.00	ug/L
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	3	1.28	10.00	ug/L
117-84-0	Di-n-octylphthalate			not detected	100	1.02	10.00	ug/L
205-99-2	Benzo[b]fluoranthene			not detected	0.2	0.98	10.00	ug/L
207-08-9	Benzo[k]fluoranthene			not detected	0.5	0.92	10.00	ug/L
50-32-8	Benzo[a]pyrene			not detected	0.1	0.71	10.00	ug/L
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	0.2	0.76	10.00	ug/L
53-70-3	Dibenz[a,h]anthracene			not detected	0.3	0.76	10.00	ug/L
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.80	10.00	ug/L

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

Qualifiers

E= Value Exceeds Linear Range
D= Value from dilution
B= Compound in Related Blank

MDL= Method Detection Limit
NLE= No Limit Established
R.T.=Retention Time

RL= Reporting Limit. The values between the MDL and RL are considered estimated.

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MB-012706-01

Lab Name: FMETL Lab Code 13461
Project: 06-34880 Case No.: 60048 Location: 701 SDG No.: _____
Matrix: (soil/water) WATER Lab Sample ID: MB-012706-01
Sample wt/vol: 1000 (g/ml) ML Lab File ID: BNA11471.D
Level: (low/med) LOW Date Received: 1/24/2006
% Moisture: _____ decanted: (Y/N) N Date Extracted: 1/27/2006
Concentrated Extract Volume: 1000 (uL) Date Analyzed: 1/30/2006
Injection Volume: 1.0 (uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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Semi-Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File Name **BNA11478.D**
 Operator **BPatel**
 Date Acquired **30-Jan-06**

Sample Name **6004805**
 Misc Info **701C-GW**
 Sample Multiplier **1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	RL	Qualifiers
110-86-1	Pyridine			not detected	NLE	1.13	10.00	ug/L
62-75-9	N-nitroso-dimethylamine			not detected	0.8	0.60	10.00	ug/L
62-53-3	Aniline			not detected	6	2.38	10.00	ug/L
111-44-4	bis(2-Chloroethyl)ether			not detected	7	0.71	10.00	ug/L
541-73-1	1,3-Dichlorobenzene			not detected	600	1.02	10.00	ug/L
106-46-7	1,4-Dichlorobenzene			not detected	75	0.99	10.00	ug/L
100-51-6	Benzyl alcohol			not detected	2000	0.66	10.00	ug/L
95-50-1	1,2-Dichlorobenzene			not detected	600	0.96	10.00	ug/L
39638-32-9	bis(2-chloroisopropyl)ether			not detected	300	0.88	10.00	ug/L
621-64-7	n-Nitroso-di-n-propylamine			not detected	10	0.76	10.00	ug/L
67-72-1	Hexachloroethane			not detected	7	0.96	10.00	ug/L
98-95-3	Nitrobenzene			not detected	6	0.86	10.00	ug/L
78-59-1	Isophorone			not detected	40	0.76	10.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.79	10.00	ug/L
120-82-1	1,2,4-Trichlorobenzene			not detected	9	0.89	10.00	ug/L
91-20-3	Naphthalene			not detected	300	0.76	10.00	ug/L
106-47-8	4-Chloroaniline			not detected	30	1.37	10.00	ug/L
87-68-3	Hexachlorobutadiene			not detected	1	0.99	10.00	ug/L
91-57-6	2-Methylnaphthalene			not detected	NLE	1.01	10.00	ug/L
77-47-4	Hexachlorocyclopentadiene			not detected	40	0.92	10.00	ug/L
91-58-7	2-Chloronaphthalene			not detected	600	0.72	10.00	ug/L
88-74-4	2-Nitroaniline			not detected	NLE	0.77	10.00	ug/L
131-11-3	Dimethylphthalate			not detected	NLE	0.78	10.00	ug/L
208-96-8	Acenaphthylene			not detected	NLE	0.67	10.00	ug/L
606-20-2	2,6-Dinitrotoluene			not detected	10	0.71	10.00	ug/L
99-09-2	3-Nitroaniline			not detected	NLE	1.18	10.00	ug/L
83-32-9	Acenaphthene			not detected	400	0.73	10.00	ug/L
132-64-9	Dibenzofuran			not detected	NLE	0.69	10.00	ug/L
121-14-2	2,4-Dinitrotoluene			not detected	10	0.81	10.00	ug/L
84-66-2	Diethylphthalate			not detected	6000	0.96	10.00	ug/L
86-73-7	Fluorene			not detected	300	0.71	10.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	0.73	10.00	ug/L
100-01-6	4-Nitroaniline			not detected	NLE	1.11	10.00	ug/L
86-30-6	n-Nitrosodiphenylamine			not detected	10	0.62	10.00	ug/L
103-33-3	Azobenzene			not detected	NLE	0.72	10.00	ug/L
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.92	10.00	ug/L
118-74-1	Hexachlorobenzene			not detected	0.02	0.95	10.00	ug/L
85-01-8	Phenanthrene			not detected	NLE	0.81	10.00	ug/L
120-12-7	Anthracene			not detected	2000	0.76	10.00	ug/L
84-74-2	Di-n-butylphthalate			not detected	700	0.92	10.00	ug/L
206-44-0	Fluoranthene			not detected	300	0.82	10.00	ug/L

Semi-Volatile Analysis Report
Page 2

Data File Name **BNA11478.D**
Operator **BPatel**
Date Acquired **30-Jan-06**

Sample Name **6004805**
Misc Info **701C-GW**
Sample Multiplier **1**

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	RL	Qualifiers
92-87-5	Benzidine			not detected	20	0.98	10.00	ug/L
129-00-0	Pyrene			not detected	200	0.79	10.00	ug/L
85-68-7	Butylbenzylphthalate			not detected	100	0.86	10.00	ug/L
56-55-3	Benzo[a]anthracene			not detected	0.1	0.82	10.00	ug/L
91-94-1	3,3'-Dichlorobenzidine			not detected	30	1.31	10.00	ug/L
218-01-9	Chrysene			not detected	5	0.77	10.00	ug/L
117-81-7	bis(2-Ethylhexyl)phthalate	27.68	624296	13.83 ug/L	3	1.28	10.00	ug/L
117-84-0	Di-n-octylphthalate			not detected	100	1.02	10.00	ug/L
205-99-2	Benzo[b]fluoranthene			not detected	0.2	0.98	10.00	ug/L
207-08-9	Benzo[k]fluoranthene			not detected	0.5	0.92	10.00	ug/L
50-32-8	Benzo[a]pyrene			not detected	0.1	0.71	10.00	ug/L
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	0.2	0.76	10.00	ug/L
53-70-3	Dibenz[a,h]anthracene			not detected	0.3	0.76	10.00	ug/L
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.80	10.00	ug/L

* Higher of PQL's and Ground Water Criteria as per NJAC 7:9-6 2-Sept-97

Qualifiers

E= Value Exceeds Linear Range

D= Value from dilution

B= Compound in Related Blank

RL= Reporting Limit. The values between the MDL and RL are considered estimated.

MDL= Method Detection Limit

NLE= No Limit Established

R.T.=Retention Time

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

701C-GW

Lab Name: FMETL Lab Code 13461
Project: 06-34880 Case No.: 60048 Location: 701 SDG No.: _____
Matrix: (soil/water) WATER Lab Sample ID: 6004805
Sample wt/vol: 1000 (g/ml) ML Lab File ID: BNA11478.D
Level: (low/med) LOW Date Received: 1/24/2006
% Moisture: _____ decanted: (Y/N) N Date Extracted: 1/27/2006
Concentrated Extract Volume: 1000 (uL) Date Analyzed: 1/30/2006
Injection Volume: 1.0 (uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) N pH: _____

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: FMETL Lab Code 13461
 Project: 06-34880 Case No.: 60048 Location: 701 SDG No.: _____
 Lab File ID: BNA11332.D DFTPP Injection Date: 11/3/2005
 Instrument ID: GC_BNA_2 DFTPP Injection Time: 9:33

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	46.2
68	Less than 2.0% of mass 69	0.9 (1.8)1
69	Mass 69 Relative abundance	51.6
70	Less than 2.0% of mass 69	0.4 (0.7)1
127	25.0 - 75.0% of mass 198	51.4
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	22.3
365	Greater than 0.75% of mass 198	2.1
441	Present, but less than mass 443	10.9
442	40.0 - 110.0% of mass 198	64.7
443	15.0 - 24.0% of mass 442	13.9 (21.6)2

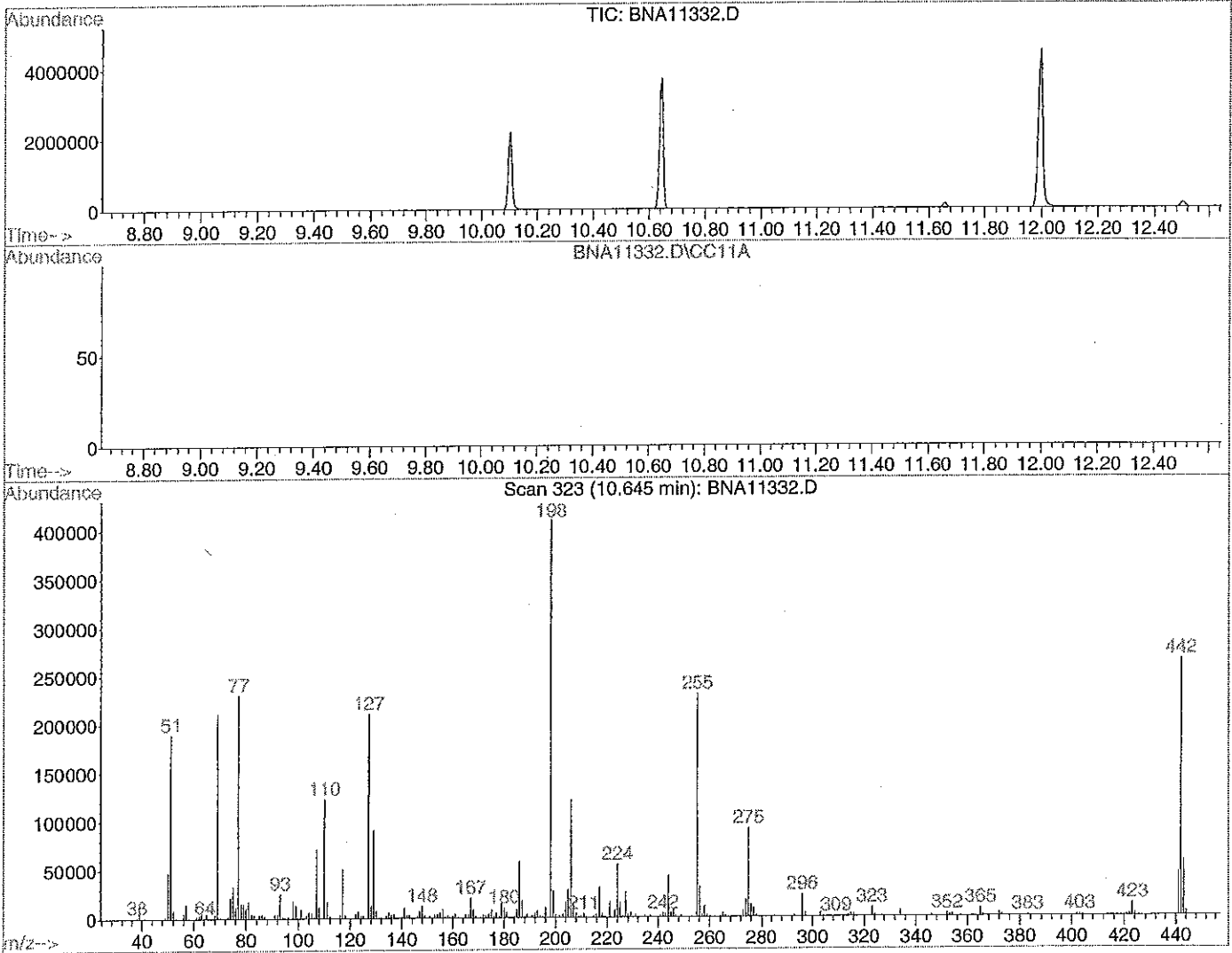
1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD120	SSTD120	BNA11333.D	11/3/2005	9:57
02	SSTD010	SSTD010	BNA11334.D	11/3/2005	10:40
03	SSTD050	SSTD050	BNA11335.D	11/3/2005	11:24
04	SSTD020	SSTD020	BNA11336.D	11/3/2005	12:08
05	SSTD080	SSTD080	BNA11337.D	11/3/2005	12:51

Data File : C:\HPCHEM\1\DATA\051103\BNA11332.D Vial: 99
 Acq On : 3 Nov 2005 9:33 am Operator: BPatel
 Sample : DF7PP Tune Inst : GC/MS Ins
 Misc : SV080105.01 Multiplr: 1.00
 MS Integration Params: ODD.P GC Integration Params: rteint2.p
 Method : C:\HPCHEM\1\METHODS\M262593.M (RTE Integrator)
 Title : BNA Calibration



Spectrum Information: Scan 323

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	46.2	189312	PASS
68	69	0.00	2	1.8	3845	PASS
69	198	0.00	100	51.6	211392	PASS
70	69	0.00	2	0.7	1460	PASS
127	198	40	60	51.4	210752	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	409984	PASS
199	198	5	9	6.5	26680	PASS
275	198	10	30	22.3	91280	PASS
365	198	1	100	2.1	8485	PASS
441	443	1	99	77.9	44552	PASS
442	198	40	100	64.7	265088	PASS
443	442	17	23	21.6	57184	PASS

Response Factor Report GC/MS Ins

Method : C:\HPCHEM\1\METHODS\M262593.M (RTE Integrator)
 Title : BNA Calibration
 Last Update : Thu Nov 03 13:40:19 2005
 Response via : Initial Calibration

Calibration Files
 120 =BNA11333.D 80 =BNA11337.D 50 =BNA11335.D
 20 =BNA11336.D 10 =BNA11334.D

Compound	120	80	50	20	10	Avg	%RSD
-----ISTD-----							
1) I 1,4-Dichlorobenzene-d							
2) T Pyridine	1.621	1.540	1.525	1.532	1.462	1.536	3.69
3) T N-nitroso-dimethylami	0.882	0.832	0.827	0.831	0.748	0.824	5.85
4) S 2-Fluorophenol	1.316	1.256	1.283	1.229	1.189	1.255	3.88
5) T Aniline	2.399	2.297	2.313	2.310	2.223	2.308	2.70
6) S Phenol-d6	1.800	1.730	1.751	1.730	1.667	1.736	2.76
7) TCM Phenol	2.014	1.926	1.946	1.973	1.886	1.949	2.48
8) T bis(2-Chloroethyl)eth	1.410	1.377	1.399	1.388	1.340	1.383	1.93
9) TM 2-Chlorophenol	1.339	1.297	1.302	1.307	1.266	1.302	1.98
10) T 1,3-Dichlorobenzene	1.520	1.489	1.511	1.525	1.462	1.501	1.75
11) TCM 1,4-Dichlorobenzene	1.572	1.558	1.566	1.560	1.519	1.555	1.34
12) T Benzyl alcohol	1.025	0.988	1.010	0.991	0.921	0.987	4.06
13) T 1,2-Dichlorobenzene	1.436	1.413	1.426	1.448	1.367	1.418	2.21
14) T 2-Methylphenol	1.352	1.322	1.358	1.363	1.315	1.342	1.61
15) T bis(2-chloroisopropyl	1.710	1.681	1.728	1.744	1.624	1.697	2.79
16) T 4-Methylphenol	1.435	1.390	1.416	1.432	1.338	1.402	2.87
17) TPM n-Nitroso-di-n-propyl	0.246	0.240	0.244	0.248	0.243	0.244	1.27
18) T Hexachloroethane	0.649	0.636	0.653	0.645	0.615	0.639	2.36
-----ISTD-----							
19) I Naphthalene-d8							
20) S Nitrobenzene-d5	0.585	0.587	0.591	0.582	0.571	0.583	1.31
21) T Nitrobenzene	0.559	0.561	0.562	0.560	0.554	0.559	0.56
22) T Isophorone	0.937	0.933	0.950	0.945	0.946	0.942	0.75
23) TC 2-Nitrophenol	0.197	0.197	0.197	0.193	0.184	0.194	2.89
24) T 2,4-Dimethylphenol	0.471	0.476	0.476	0.470	0.473	0.473	0.62
25) T bis(2-Chloroethoxy)me	0.495	0.498	0.494	0.502	0.494	0.497	0.71
26) TC 2,4-Dichlorophenol	0.329	0.327	0.326	0.316	0.312	0.322	2.28
27) T Benzoic Acid	0.317	0.284	0.222	0.146	0.092	0.212	44.17
28) TM 1,2,4-Trichlorobenzen	0.359	0.355	0.356	0.355	0.355	0.356	0.57
29) T Naphthalene	1.058	1.079	1.089	1.084	1.088	1.080	1.16
30) T 4-Chloroaniline	0.444	0.442	0.457	0.450	0.455	0.449	1.44
31) TC Hexachlorobutadiene	0.218	0.219	0.218	0.215	0.215	0.217	0.83
32) TCM 4-Chloro-3-methylphen	0.419	0.421	0.429	0.419	0.399	0.417	2.62
33) T 2-Methylnaphthalene	0.698	0.702	0.707	0.702	0.692	0.700	0.76
-----ISTD-----							
34) I Acenaphthene-d10							
35) TP Hexachlorocyclopentad	0.397	0.377	0.367	0.318	0.281	0.348	13.56
36) TC 2,4,6-Trichlorophenol	0.404	0.396	0.399	0.389	0.376	0.393	2.73
37) T 2,4,5-Trichlorophenol	0.434	0.427	0.427	0.405	0.402	0.419	3.42
38) S 2-Fluorobiphenyl	1.307	1.308	1.308	1.292	1.300	1.303	0.54
39) T 2-Chloronaphthalene	1.133	1.135	1.145	1.129	1.148	1.138	0.71
40) T 2-Nitroaniline	0.378	0.378	0.380	0.369	0.362	0.373	1.98
41) T Dimethylphthalate	1.340	1.356	1.372	1.367	1.353	1.358	0.92
42) T Acenaphthylene	1.802	1.827	1.829	1.816	1.821	1.819	0.59
43) T 2,6-Dinitrotoluene	0.315	0.314	0.314	0.306	0.291	0.308	3.32
44) T 3-Nitroaniline	0.309	0.308	0.316	0.311	0.307	0.310	1.20
45) TCM Acenaphthene	1.114	1.124	1.105	1.101	1.109	1.110	0.79
46) TP 2,4-Dinitrophenol	0.203	0.195	0.181	0.140	0.089	0.162	29.31
47) T Dibenzofuran	1.614	1.634	1.634	1.618	1.623	1.625	0.57
48) TMP 4-Nitrophenol	0.416	0.408	0.410	0.385	0.356	0.395	6.27
49) TM 2,4-Dinitrotoluene	0.457	0.457	0.461	0.436	0.419	0.446	3.99
50) T Diethylphthalate	1.397	1.428	1.446	1.431	1.408	1.422	1.35
51) T Fluorene	1.361	1.376	1.377	1.343	1.344	1.360	1.21
52) T 4-Chlorophenyl-phenyl	0.659	0.653	0.643	0.651	0.648	0.651	0.87
53) T 4-Nitroaniline	0.314	0.309	0.320	0.310	0.306	0.312	1.68
-----ISTD-----							
54) I Phenanthrene-d10							

(#) = Out of Range

M262593.M

Wed Feb 01 14:39:38 2006

000044

Page 1

Response Factor Report GC/MS Ins

Method : C:\HPCHEM\1\METHODS\M262593.M (RTE Integrator)
 Title : BNA Calibration
 Last Update : Thu Nov 03 13:40:19 2005
 Response via : Initial Calibration

Calibration Files
 120 =BNA11333.D 80 =BNA11337.D 50 =BNA11335.D
 20 =BNA11336.D 10 =BNA11334.D

Compound	120	80	50	20	10	Avg	%RSD
55) T 4,6-Dinitro-2-methylp	0.172	0.162	0.154	0.132	0.105	0.145	18.54
56) TC n-Nitrosodiphenylamin	0.566	0.559	0.562	0.554	0.556	0.559	0.88
57) T Azobenzene	0.999	0.995	1.018	1.041	1.023	1.015	1.88
58) S 2,4,6-Tribromophenol	0.102	0.099	0.098	0.096	0.090	0.097	4.74
59) T 4-Bromophenyl-phenyle	0.228	0.224	0.218	0.216	0.208	0.219	3.39
60) T Hexachlorobenzene	0.242	0.239	0.230	0.230	0.224	0.233	3.17
61) TCM Pentachlorophenol	0.139	0.128	0.115	0.095	0.069	0.109	25.56
62) T Phenanthrene	1.189	1.179	1.183	1.198	1.201	1.190	0.79
63) T Anthracene	1.150	1.135	1.153	1.167	1.151	1.151	1.00
64) T Di-n-butylphthalate	1.277	1.285	1.325	1.363	1.361	1.322	3.07
65) TC Fluoranthene	1.236	1.234	1.237	1.240	1.228	1.235	0.36
-----ISTD-----							
66) I Chrysene-d12							
67) T Benzidine	0.471	0.473	0.501	0.583	0.691	0.544	17.27
68) TM Pyrene	1.214	1.225	1.246	1.253	1.259	1.239	1.54
69) S p-Terphenyl-d14	0.860	0.844	0.838	0.830	0.836	0.841	1.34
70) T Butylbenzylphthalate	0.596	0.597	0.608	0.611	0.608	0.604	1.17
71) T Benzo[a]anthracene	1.291	1.252	1.226	1.195	1.201	1.233	3.19
72) T 3,3'-Dichlorobenzidin	0.484	0.436	0.427	0.435	0.470	0.450	5.57
73) T Chrysene	1.065	1.072	1.051	1.056	1.057	1.060	0.79
74) T bis(2-Ethylhexyl)phth	0.757	0.756	0.770	0.769	0.771	0.765	1.00
-----ISTD-----							
75) I Perylene-d12							
76) TC Di-n-octylphthalate	2.119	2.089	2.119	2.064	2.028	2.084	1.87
77) T Benzo[b]fluoranthene	1.794	1.751	1.681	1.624	1.623	1.695	4.51
78) T Benzo[k]fluoranthene	1.790	1.725	1.710	1.648	1.607	1.696	4.17
79) TC Benzo[a]pyrene	1.607	1.564	1.524	1.474	1.445	1.523	4.31
80) T Indeno[1,2,3-cd]pyren	1.748	1.714	1.663	1.580	1.520	1.645	5.73
81) T Dibenz[a,h]anthracene	1.465	1.410	1.348	1.275	1.235	1.347	6.99
82) T Benzo[g,h,i]perylene	1.391	1.389	1.355	1.292	1.243	1.334	4.84

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: FMETL Lab Code 13461
 Project: 06-34880 Case No.: 60048 Location: 701 SDG No.: _____
 Lab File ID: BNA11467.D DFTPP Injection Date: 1/30/2006
 Instrument ID: GC_BNA_2 DFTPP Injection Time: 8:08

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 80.0% of mass 198	49.3
68	Less than 2.0% of mass 69	0.0 (0.0)1
69	Mass 69 Relative abundance	57.3
70	Less than 2.0% of mass 69	0.3 (0.6)1
127	25.0 - 75.0% of mass 198	54.8
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	6.4
275	10.0 - 30.0% of mass 198	21.8
365	Greater than 0.75% of mass 198	2.2
441	Present, but less than mass 443	8.5
442	40.0 - 110.0% of mass 198	56.0
443	15.0 - 24.0% of mass 442	12.0 (21.4)2

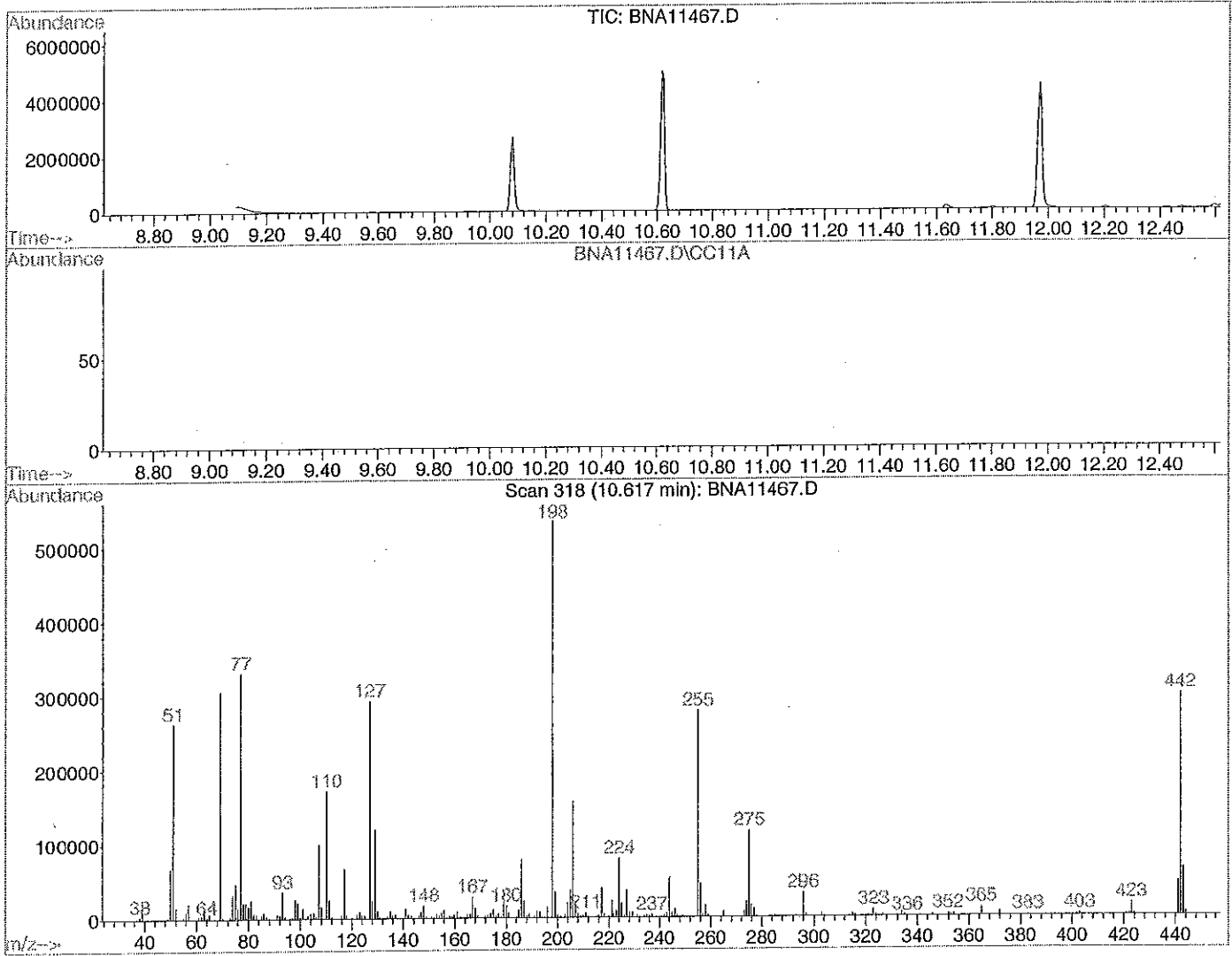
1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	SSTD050	SSTD050	BNA11468.D	1/30/2006	9:26
02	MB-012706-01	MB-012706-01	BNA11471.D	1/30/2006	11:50
03	701C-GW	6004805	BNA11478.D	1/30/2006	17:16

Data File : C:\HPCHEM\1\DATA\060130\BNA11467.D Vial: 99
 Acq On : 30 Jan 2006 8:08 am Operator: BPatel
 Sample : DFTPP Tune Inst : GC/MS Ins
 Misc : SV080105.01 Multiplr: 1.00
 MS Integration Params: ODD.P GC Integration Params: rteint2.p
 Method : C:\HPCHEM\1\METHODS\M262593.M (RTE Integrator)
 Title : BNA Calibration



Spectrum Information: Scan 318

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	49.3	263168	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	57.3	306432	PASS
70	69	0.00	2	0.6	1867	PASS
127	198	40	60	54.8	292928	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	534336	PASS
199	198	5	9	6.4	34176	PASS
275	198	10	30	21.8	116264	PASS
365	198	1	100	2.2	11755	PASS
441	443	1	99	71.1	45512	PASS
442	198	40	100	56.0	299072	PASS
443	442	17	23	21.4	64024	PASS

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\060130\BNA11468.D Vial: 100
 Acq On : 30 Jan 2006 9:26 am Operator: BPatel
 Sample : Sstd050 Inst : GC/MS Ins
 Misc : SV013006.01 Multiplr: 1.00
 MS Integration Params: ODD.P GC Integration Params: rteint2.p

Method : C:\HPCHEM\1\METHODS\M262593.M (RTE Integrator)
 Title : BNA Calibration
 Last Update : Thu Nov 03 13:40:19 2005
 Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	144	-0.04
2 T	Pyridine	1.536	1.525	0.7	144	0.00
3 T	N-nitroso-dimethylamine	0.824	0.808	1.9	140	0.00
4 S	2-Fluorophenol	1.255	1.268	-1.0	142	0.00
5 T	Aniline	2.308	2.128	7.8	132	-0.02
6 S	Phenol-d6	1.736	1.644	5.3	135	-0.01
7 TCM	Phenol	1.949	1.882	3.4	139	-0.01
8 T	bis(2-Chloroethyl)ether	1.383	1.363	1.4	140	-0.02
9 TM	2-Chlorophenol	1.302	1.291	0.8	142	-0.02
10 T	1,3-Dichlorobenzene	1.501	1.500	0.1	143	-0.03
11 TCM	1,4-Dichlorobenzene	1.555	1.537	1.2	141	-0.03
12 T	Benzyl alcohol	0.987	0.953	3.4	135	-0.02
13 T	1,2-Dichlorobenzene	1.418	1.405	0.9	141	-0.04
14 T	2-Methylphenol	1.342	1.281	4.5	135	-0.01
15 T	bis(2-chloroisopropyl)ether	1.697	1.640	3.4	136	-0.03
16 T	4-Methylphenol	1.402	1.340	4.4	136	-0.02
17 TPM	n-Nitroso-di-n-propylamine	0.244	0.235	3.7	138	-0.03
18 T	Hexachloroethane	0.639	0.629	1.6	138	-0.04
19 I	Naphthalene-d8	1.000	1.000	0.0	139	-0.03
20 S	Nitrobenzene-d5	0.583	0.555	4.8	130	-0.03
21 T	Nitrobenzene	0.559	0.540	3.4	133	-0.03
22 T	Isophorone	0.942	0.911	3.3	133	-0.03
23 TC	2-Nitrophenol	0.194	0.201	-3.6	141	-0.03
24 T	2,4-Dimethylphenol	0.473	0.460	2.7	134	-0.02
25 T	bis(2-Chloroethoxy)methane	0.497	0.485	2.4	136	-0.03
26 TC	2,4-Dichlorophenol	0.322	0.329	-2.2	140	-0.02
27 T	Benzoic Acid	0.212	0.258	-21.7	161	0.00
28 TM	1,2,4-Trichlorobenzene	0.356	0.373	-4.8	145	-0.03
29 T	Naphthalene	1.080	1.064	1.5	135	-0.04
30 T	4-Chloroaniline	0.449	0.406	9.6	123	-0.03
31 TC	Hexachlorobutadiene	0.217	0.232	-6.9	148	-0.03
32 TCM	4-Chloro-3-methylphenol	0.417	0.406	2.6	131	-0.01
33 T	2-Methylnaphthalene	0.700	0.696	0.6	136	-0.03
34 I	Acenaphthene-d10	1.000	1.000	0.0	138	-0.03
35 TP	Hexachlorocyclopentadiene	0.348	0.357	-2.6	134	-0.04
36 TC	2,4,6-Trichlorophenol	0.393	0.404	-2.8	140	-0.03
37 T	2,4,5-Trichlorophenol	0.419	0.421	-0.5	136	-0.01
38 S	2-Fluorobiphenyl	1.303	1.303	0.0	137	-0.03
39 T	2-Chloronaphthalene	1.138	1.146	-0.7	138	-0.03
40 T	2-Nitroaniline	0.373	0.373	0.0	135	-0.03
41 T	Dimethylphthalate	1.358	1.346	0.9	135	-0.03
42 T	Acenaphthylene	1.819	1.765	3.0	133	-0.03
43 T	2,6-Dinitrotoluene	0.308	0.315	-2.3	138	-0.03
44 T	3-Nitroaniline	0.310	0.270	12.9	118	-0.02
45 TCM	Acenaphthene	1.110	1.086	2.2	136	-0.03
46 TP	2,4-Dinitrophenol	0.162	0.177	-9.3	135	-0.03
47 T	Dibenzofuran	1.625	1.589	2.2	134	-0.03
48 TMP	4-Nitrophenol	0.395	0.392	0.8	132	0.00
49 TM	2,4-Dinitrotoluene	0.446	0.442	0.9	132	-0.03
50 T	Diethylphthalate	1.422	1.379	3.0	132	-0.03
51 T	Fluorene	1.360	1.324	2.6	133	-0.03
52 T	4-Chlorophenyl-phenylether	0.651	0.661	-1.5	142	-0.03

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\060130\BNA11468.D Vial: 100
 Acq On : 30 Jan 2006 9:26 am Operator: BPatel
 Sample : Sstd050 Inst : GC/MS Ins
 Misc : SV013006.01 Multiplr: 1.00
 MS Integration Params: ODD.P GC Integration Params: rteint2.p

Method : C:\HPCHEM\1\METHODS\M262593.M (RTE Integrator)
 Title : BNA Calibration
 Last Update : Thu Nov 03 13:40:19 2005
 Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
53 T	4-Nitroaniline	0.312	0.243	22.1	105	-0.03
54 I	Phenanthrene-d10	1.000	1.000	0.0	132	-0.03
55 T	4,6-Dinitro-2-methylphenol	0.145	0.159	-9.7	136	-0.03
56 TC	n-Nitrosodiphenylamine	0.559	0.556	0.5	131	-0.03
57 T	Azobenzene	1.015	0.975	3.9	127	-0.03
58 S	2,4,6-Tribromophenol	0.097	0.105	-8.2	141	-0.03
59 T	4-Bromophenyl-phenylether	0.219	0.226	-3.2	137	-0.04
60 T	Hexachlorobenzene	0.233	0.242	-3.9	139	-0.03
61 TCM	Pentachlorophenol	0.109	0.129	-18.3	147	-0.02
62 T	Phenanthrene	1.190	1.167	1.9	130	-0.03
63 T	Anthracene	1.151	1.130	1.8	129	-0.03
64 T	Di-n-butylphthalate	1.322	1.253	5.2	125	-0.03
65 TC	Fluoranthene	1.235	1.164	5.7	124	-0.03
66 I	Chrysene-d12	1.000	1.000	0.0	124	-0.04
67 T	Benzidine	0.544	0.515	5.3	128	-0.03
68 TM	Pyrene	1.239	1.240	-0.1	124	-0.03
69 S	p-Terphenyl-d14	0.841	0.863	-2.6	128	-0.03
70 T	Butylbenzylphthalate	0.604	0.592	2.0	121	-0.03
71 T	Benzo[a]anthracene	1.233	1.222	0.9	124	-0.04
72 T	3,3'-Dichlorobenzidine	0.450	0.532	-18.2	155	-0.03
73 T	Chrysene	1.060	1.047	1.2	124	-0.03
74 T	bis(2-Ethylhexyl)phthalate	0.765	0.724	5.4	117	-0.03
75 I	Perylene-d12	1.000	1.000	0.0	121	-0.04
76 TC	Di-n-octylphthalate	2.084	1.924	7.7	110	-0.03
77 T	Benzo[b]fluoranthene	1.695	1.700	-0.3	122	-0.03
78 T	Benzo[k]fluoranthene	1.696	1.662	2.0	117	-0.03
79 TC	Benzo[a]pyrene	1.523	1.488	2.3	118	-0.03
80 T	Indeno[1,2,3-cd]pyrene	1.645	1.575	4.3	115	-0.06
81 T	Dibenz[a,h]anthracene	1.347	1.275	5.3	114	-0.06
82 T	Benzo[g,h,i]perylene	1.334	1.255	5.9	112	-0.06

SEMIVOLATILE METHOD BLANK SUMMARY

MB-012706-01

Lab Name: FMETL Lab Code 13461
 Project: 06-34880 Case No.: 60048 Location: 701 SDG No.: _____
 Lab File ID: BNA11471.D Lab Sample ID: MB-012706-01
 Instrument ID: GC/MS Ins Date Extracted: 1/27/2006
 Matrix: (soil/water) WATER Date Analyzed: 1/30/2006
 Level: (low/med) LOW Time Analyzed: 11:50

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	701C-GW	6004805	BNA11478.D	1/30/2006

COMMENTS:

WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: FMETL Lab Code 13461
 Project: 06-34880 Case No.: 60048 Location: 701 SDG No.: _____

	EPA SAMPLE NO.	S1 NBZ #	S2 2FP #	S3 TPL #	TOT OUT
01	MB-012706-01	63	69	87	0
02	701C-GW	72	79	64	0

QC LIMITS

S1	NBZ	=	Nitrobenzene-d5	(40-110)
S2	2FP	=	2-Fluorobiphenyl	(50-110)
S3	TPL	=	p-Terphenyl-d14	(50-135)

Column to be used to flag recovery values
 * Values outside of contract required QC limits
 D Surrogate diluted out

Semi-Volatile MS/MSD Recovery Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

MS Lab ID:	6004508MS	MS Sample ID:	886 RW#3MS
MSD Lab ID:	6004508MSD	MSD Sample ID:	886 RW#3MSD
Matrix:	Aqueous	Sample File ID:	BNA11473.D
Date Extracted:	01/25/06	MS File ID:	BNA11474.D
Date Analyzed:	01/30/06	MSD File ID:	BNA11475.D

Compound Name	MS % Rec.	MSD % Rec.	% RPD	RPD Limits	Lower Control Limits	Upper Control Limits	Qualifier		
Pyridine	27.6	29.3	5.8	30.0	5	58			
N-nitroso-dimethylamine	39.9	45.7	13.6	30.0	25	110			
Aniline	47.9	40.6	16.5	30.0	4	90			
Phenol	32.1	30.8	4.3	30.0	10	115			
bis(2-Chloroethyl)ether	74.1	77.5	4.4	30.0	35	110			
2-Chlorophenol	72.7	74.9	3.0	30.0	35	105			
1,3-Dichlorobenzene	65.3	75.8	15.0	30.0	30	100			
1,4-Dichlorobenzene	65.8	75.7	14.0	30.0	30	100			
Benzyl alcohol	60.8	62.4	2.6	30.0	30	110			
1,2-Dichlorobenzene	68.6	76.7	11.2	30.0	35	100			
2-Methylphenol	64.4	64.8	0.5	30.0	40	110			
bis(2-chloroisopropyl)ether	77.6	83.5	7.3	30.0	25	130			
4-Methylphenol	58.8	56.5	4.1	30.0	30	110			
n-Nitroso-di-n-propylamine	77.1	79.1	2.6	30.0	35	130			
Hexachloroethane	62.8	72.5	14.4	30.0	30	95			
Nitrobenzene	73.4	75.6	3.0	30.0	45	110			
Isophorone	76.5	77.0	0.7	30.0	50	110			
2-Nitrophenol	73.7	76.0	3.1	30.0	40	115			
2,4-Dimethylphenol	72.2	73.0	1.1	30.0	30	110			
bis(2-Chloroethoxy)methane	74.7	74.7	0.0	30.0	45	105			
2,4-Dichlorophenol	75.0	76.3	1.7	30.0	50	105			
Benzoic Acid	24.2	22.3	8.2	30.0	0	125			
1,2,4-Trichlorobenzene	74.6	79.2	6.0	30.0	35	105			
Naphthalene	74.7	78.1	4.5	30.0	40	100			
4-Chloroaniline	57.9	48.6	17.5	30.0	15	110			
Hexachlorobutadiene	75.1	79.4	5.5	30.0	25	105			
4-Chloro-3-methylphenol	73.3	73.7	0.6	30.0	45	110			
2-Methylnaphthalene	75.8	77.2	1.8	30.0	45	105			
Hexachlorocyclopentadiene	45.2	45.8	1.4	30.0	5	67			
2,4,6-Trichlorophenol	80.5	82.6	2.6	30.0	50	115			
2,4,5-Trichlorophenol	81.4	80.5	1.1	30.0	50	110			
2-Chloronaphthalene	83.3	83.5	0.2	30.0	50	105			
2-Nitroaniline	80.3	79.6	0.9	30.0	50	115			
Dimethylphthalate	85.3	84.5	0.9	30.0	25	125			
Acenaphthylene	76.6	77.7	1.5	30.0	50	105			
2,6-Dinitrotoluene	81.2	80.3	1.1	30.0	50	115			
3-Nitroaniline	65.9	58.7	11.6	30.0	20	125			
Acenaphthene	78.0	79.6	2.0	30.0	45	110			

Semi-Volatile MS/MSD Recovery Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

MS Lab ID:	6004508MS	MS Sample ID:	6004508MS
MSD Lab ID:	6004508MSD	MSD Sample ID:	6004508MSD
Matrix:	Aqueous	Sample File ID:	BNA11473.D
Date Extracted:	01/25/06	MS File ID:	BNA11474.D
Date Analyzed:	01/30/06	MSD File ID:	BNA11475.D

Compound Name	MS % Rec.	MSD % Rec.	% RPD	RPD Limits	Lower Control Limits	Upper Control Limits	Qualifier		
2,4-Dinitrophenol	62.9	61.4	2.4	30.0	15	140			
Dibenzofuran	77.7	79.2	1.9	30.0	55	105			
4-Nitrophenol	37.6	3.5	165.9	30.0	0	125			^
2,4-Dinitrotoluene	79.5	81.7	2.8	30.0	50	120			
Diethylphthalate	82.1	83.3	1.4	30.0	40	120			
Fluorene	79.1	80.4	1.7	30.0	50	110			
4-Chlorophenyl-phenylether	80.4	84.0	4.4	30.0	50	110			
4-Nitroaniline	68.2	69.4	1.7	30.0	35	120			
4,6-Dinitro-2-methylphenol	71.8	71.2	0.8	30.0	40	130			
n-Nitrosodiphenylamine	73.9	73.9	0.1	30.0	50	110			
Azobenzene	74.1	74.6	0.7	30.0	58	102			
4-Bromophenyl-phenylether	75.7	78.2	3.2	30.0	50	115			
Hexachlorobenzene	72.9	73.7	1.1	30.0	50	110			
Pentachlorophenol	81.8	80.7	1.4	30.0	40	115			
Phenanthrene	73.4	74.6	1.6	30.0	50	115			
Anthracene	74.7	76.1	1.8	30.0	55	110			
Di-n-butylphthalate	79.1	79.9	1.1	30.0	55	115			
Fluoranthene	73.7	73.3	0.6	30.0	55	115			
Benzidine	1.0	0.5	60.0	30.0	5	100	**	**	^
Pyrene	86.6	88.9	2.7	30.0	50	130			
Butylbenzylphthalate	87.2	88.1	1.1	30.0	45	115			
Benzo[a]anthracene	80.7	81.3	0.7	30.0	55	110			
3,3'-Dichlorobenzidine	55.1	51.8	6.2	30.0	20	110			
Chrysene	82.6	83.7	1.3	30.0	55	110			
bis(2-Ethylhexyl)phthalate	87.3	88.3	1.1	30.0	40	125			
Di-n-octylphthalate	65.8	67.0	1.9	30.0	35	135			
Benzo[b]fluoranthene	60.4	61.4	1.6	30.0	45	120			
Benzo[k]fluoranthene	61.0	60.8	0.4	30.0	45	125			
Benzo[a]pyrene	60.1	61.0	1.6	30.0	55	110			
Indeno[1,2,3-cd]pyrene	57.9	58.4	0.9	30.0	45	125			
Dibenz[a,h]anthracene	58.3	58.2	0.1	30.0	40	125			
Benzo[g,h,i]perylene	60.0	59.4	1.0	30.0	40	125			

Qualifiers :

**	% Recovery is Outside QC Limits
^	% RPD is Outside QC Limits

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: FMETL Lab Code 13461
 Project: 06-34880 Case No.: 60048 Location: 701 SDG No.: _____
 Lab File ID (Standard): BNA11468.D Date Analyzed: 1/30/2006
 Instrument ID: GC_BNA_2 Time Analyzed: 9:26

	IS1DCB AREA #	RT #	IS2NAP AREA #	RT #	IS3ANE AREA #	RT #
12 HOUR STD	785226	10.36	2657684	13.29	1674549	17.50
UPPER LIMIT	1570452	10.86	5315368	13.79	3349098	18.00
LOWER LIMIT	392613	9.86	1328842	12.79	837275	17.00
EPA SAMPLE NO.						
01 MB-012706-01	706266	10.36	2593985	13.29	1563725	17.50
02 701C-GW	736773	10.36	2706715	13.28	1624916	17.49

IS1 DCB = 1,4-Dichlorobenzene-d4
 IS2 NAP = Naphthalene-d8
 IS3 ANE = Acenaphthene-d10
 IS4 PNE = Phenanthrene-d10
 IS5 CYS = Chrysene-d12
 IS6 PRL = 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 to be used to flag values outside QC limit with an asterisk.

* Values outside of contract required QC limits

8C
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: FMETL Lab Code 13461
 Project: 06-34880 Case No.: 60048 Location: 701 SDG No.: _____
 Lab File ID (Standard): BNA11468.D Date Analyzed: 01/30/06
 Instrument ID: GC_BNA_2 Time Analyzed: 09:26

	IS4PNE AREA #	RT #	IS5CYS AREA #	RT #	IS6PRL AREA #	RT #
12 HOUR STD	2728970	21.09	2562483	27.51	1497487	30.70
UPPER LIMIT	5457940	20.59	5124966	27.01	2994974	30.20
LOWER LIMIT	1364485	21.59	1281242	28.01	748744	31.20
EPA SAMPLE NO.						
01 MB-012706-01	2848236	21.08	2533615	27.49	2077860	30.70
02 701C-GW	2911181	21.08	2362091	27.49	2019105	30.70

IS1 DCB = 1,4-Dichlorobenzene-d4
 IS2 NAP = Naphthalene-d8
 IS3 ANE = Acenaphthene-d10
 IS4 PNE = Phenanthrene-d10
 IS5 CYS = Chrysene-d12
 IS6 PRL = 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 to be used to flag values outside QC limit with an asterisk.
 * Values outside of contract required QC limits

Data File : C:\HPCHEM\1\DATA\060130\BNA11471.D Vial: 3
 Acq On : 30 Jan 2006 11:50 am Operator: BPatel
 Sample : MB-012706-01 Inst : GC/MS Ins
 Misc : MB-012706-01 Multiplr: 1.00
 MS Integration Params: ODD.P GC Integration Params: rteint2.p
 Quant Time: Jan 30 12:26 2006 Quant Results File: M262593.RES

Quant Method : C:\HPCHEM\1\METHODS\M262593.M (RTE Integrator)
 Title : BNA Calibration
 Last Update : Thu Nov 03 13:40:19 2005
 Response via : Initial Calibration
 DataAcq Meth : M262593

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	10.36	152	706266	40.00	ug/L	-0.04
19) Naphthalene-d8	13.29	136	2593985	40.00	ug/L	-0.04
34) Acenaphthene-d10	17.50	164	1563725	40.00	ug/L	-0.04
54) Phenanthrene-d10	21.08	188	2848236	40.00	ug/L	-0.05
66) Chrysene-d12	27.49	240	2533615	40.00	ug/L	-0.05
75) Perylene-d12	30.70	264	2077860	40.00	ug/L	-0.05

System Monitoring Compounds

4) 2-Fluorophenol	0.00	112	0	0.00	ug/L	
Spiked Amount	100.000	Range	20 - 110	Recovery	=	0.00%#
6) Phenol-d6	0.00	99	0	0.00	ug/L	
Spiked Amount	100.000	Range	10 - 115	Recovery	=	0.00%#
20) Nitrobenzene-d5	11.62	82	1195598	31.61	ug/L	-0.04
Spiked Amount	50.000	Range	40 - 110	Recovery	=	63.22%
38) 2-Fluorobiphenyl	15.91	172	1751455	34.39	ug/L	-0.04
Spiked Amount	50.000	Range	50 - 110	Recovery	=	68.78%
58) 2,4,6-Tribromophenol	0.00	330	0	0.00	ug/L	
Spiked Amount	100.000	Range	40 - 125	Recovery	=	0.00%#
69) p-Terphenyl-d14	25.01	244	2326420	43.65	ug/L	-0.04
Spiked Amount	50.000	Range	50 - 135	Recovery	=	87.30%

Target Compounds

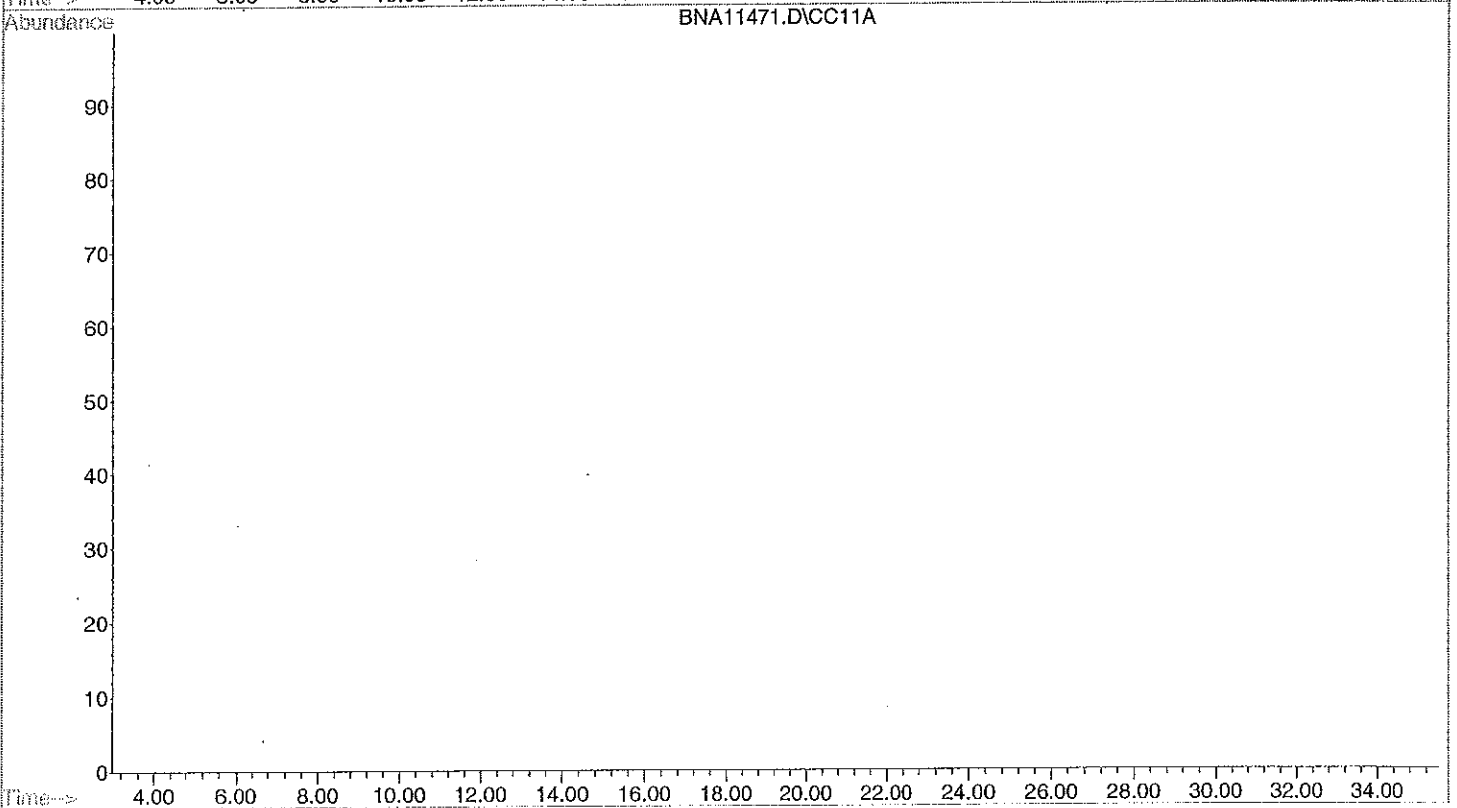
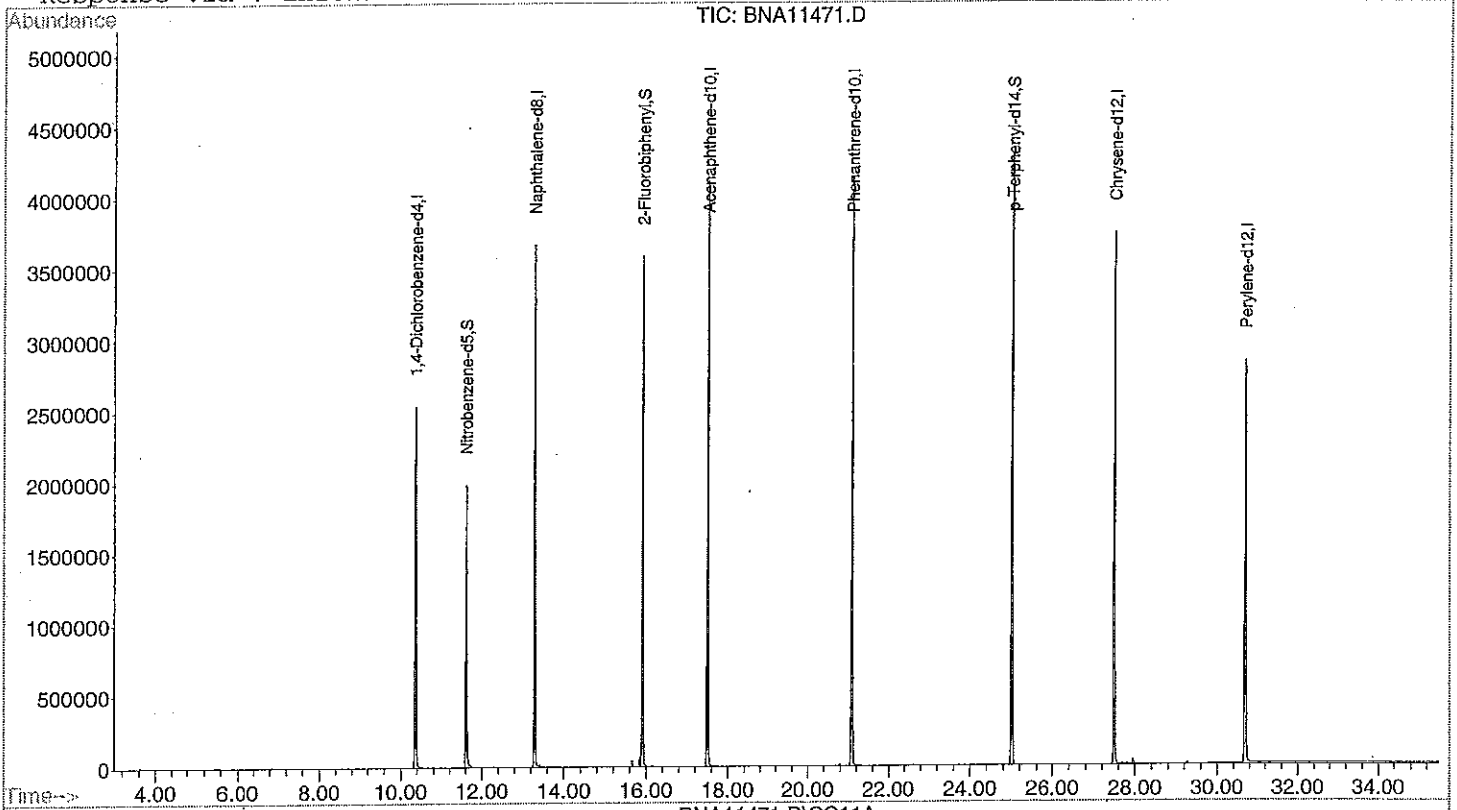
Qvalue

Quantitation Report

Data File : C:\HPCHEM\1\DATA\060130\BNA11471.D
Acq On : 30 Jan 2006 11:50 am
Sample : MB-012706-01
Misc : MB-012706-01
MS Integration Params: ODD.P
Quant Time: Jan 30 12:26 2006

Vial: 3
Operator: BPatel
Inst : GC/MS Ins
Multiplr: 1.00
GC Integration Params: rteint2.p
Quant Results File: M262593.RES

Method : C:\HPCHEM\1\METHODS\M262593.M (RTE Integrator)
Title : BNA Calibration
Last Update : Thu Nov 03 13:40:19 2005
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\060130\BNA11478.D Vial: 10
 Acq On : 30 Jan 2006 5:16 pm Operator: BPatel
 Sample : 6004805 Inst : GC/MS Ins
 Misc : 701C-GW Multiplr: 1.00
 MS Integration Params: ODD.P GC Integration Params: rteint2.p
 Quant Time: Feb 1 12:58 2006 Quant Results File: M262593.RES

Quant Method : C:\HPCHEM\1\METHODS\M262593.M (RTE Integrator)
 Title : BNA Calibration
 Last Update : Thu Nov 03 13:40:19 2005
 Response via : Initial Calibration
 DataAcq Meth : M262593

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	10.36	152	736773	40.00	ug/L	-0.04
19) Naphthalene-d8	13.28	136	2706715	40.00	ug/L	-0.04
34) Acenaphthene-d10	17.49	164	1624916	40.00	ug/L	-0.04
54) Phenanthrene-d10	21.08	188	2911181	40.00	ug/L	-0.04
66) Chrysene-d12	27.49	240	2362091	40.00	ug/L	-0.05
75) Perylene-d12	30.70	264	2019105	40.00	ug/L	-0.04

System Monitoring Compounds

4) 2-Fluorophenol	0.00	112	0	0.00	ug/L	
Spiked Amount	100.000	Range 20 - 110	Recovery =	0.00%#		
6) Phenol-d6	0.00	99	0	0.00	ug/L	
Spiked Amount	100.000	Range 10 - 115	Recovery =	0.00%#		
20) Nitrobenzene-d5	11.61	82	1424739	36.10	ug/L	-0.04
Spiked Amount	50.000	Range 40 - 110	Recovery =	72.20%		
38) 2-Fluorobiphenyl	15.91	172	2083880	39.38	ug/L	-0.04
Spiked Amount	50.000	Range 50 - 110	Recovery =	78.76%		
58) 2,4,6-Tribromophenol	0.00	330	0	0.00	ug/L	
Spiked Amount	100.000	Range 40 - 125	Recovery =	0.00%#		
69) p-Terphenyl-d14	25.01	244	1600184	32.20	ug/L	-0.04
Spiked Amount	50.000	Range 50 - 135	Recovery =	64.40%		

Target Compounds

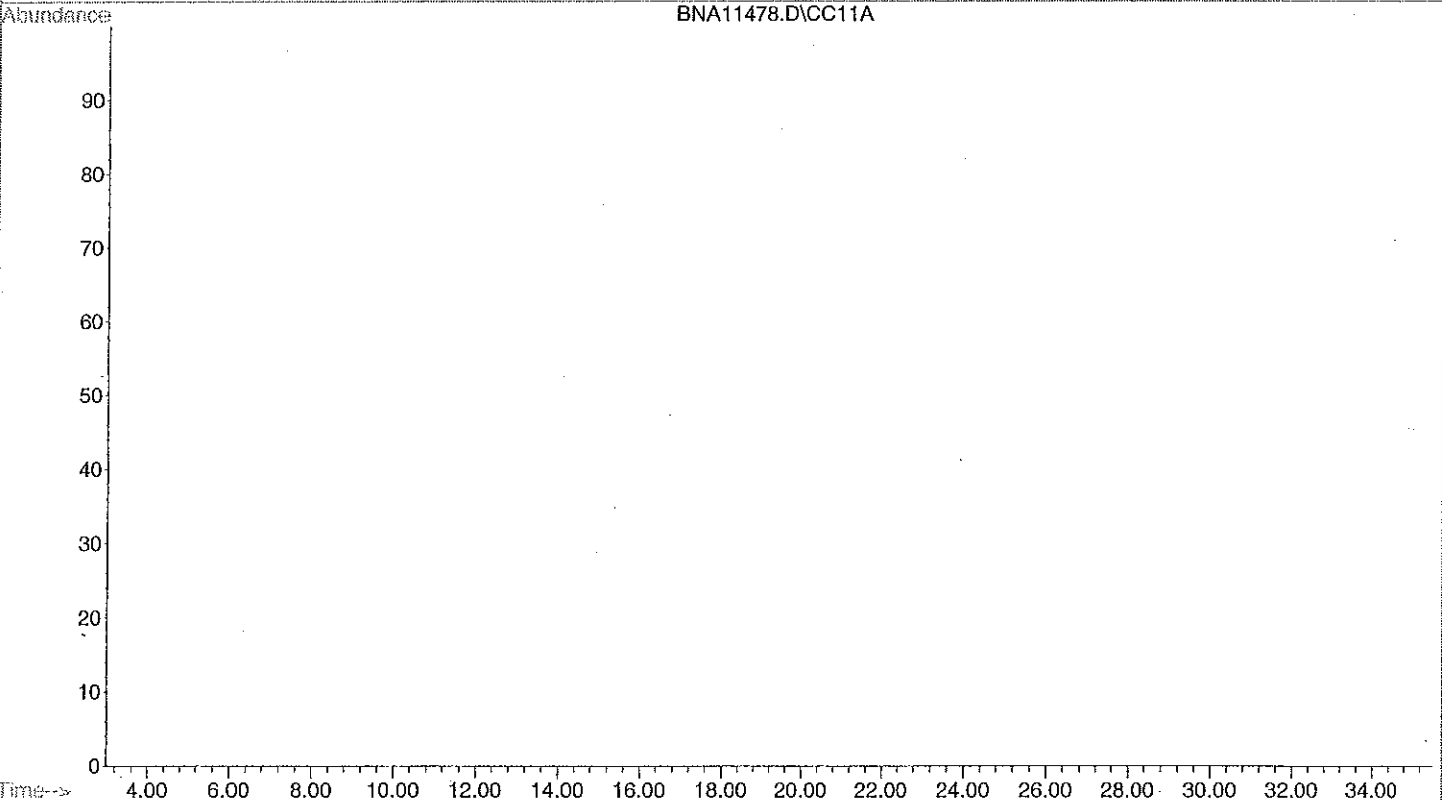
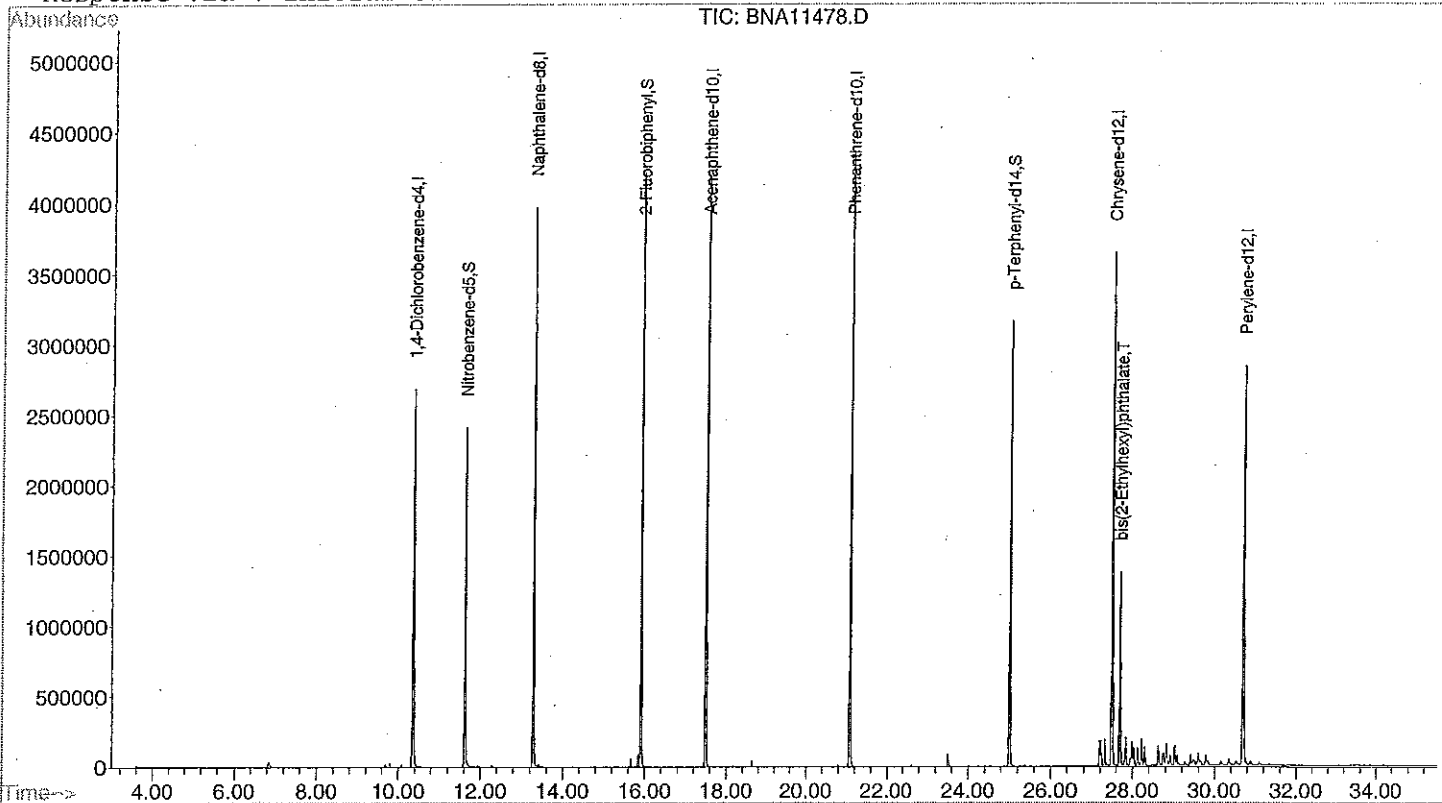
	R.T.	QIon	Response	Conc	Units	Qvalue
74) bis(2-Ethylhexyl)phthalate	27.68	149	624296	13.83	ug/L	99

Quantitation Report

Data File : C:\HPCHEM\1\DATA\060130\BNA11478.D
Acq On : 30 Jan 2006 5:16 pm
Sample : 6004805
Misc : 701C-GW
MS Integration Params: ODD.P
Quant Time: Feb 1 12:58 2006

Vial: 10
Operator: BPatel
Inst : GC/MS Ins
Multiplr: 1.00
GC Integration Params: rteint2.p
Quant Results File: M262593.RES

Method : C:\HPCHEM\1\METHODS\M262593.M (RTE Integrator)
Title : BNA Calibration
Last Update : Thu Nov 03 13:40:19 2005
Response via : Initial Calibration



TPHC

Report of Analysis
U.S.Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client : U.S. Army
 DPW. SELFM-PW-EV
 Bldg. 173
 Ft. Monmouth, NJ 07703

Project # : 60048
 Location : 701
 UST Reg. # : 06-34880

Analysis : OQA-QAM-025
 Matrix : Soil
 Inst. ID. : GC TPHC INST. #1
 Column Type : RTX-5, 0.32mm ID, 30M
 Injection Volume : 1uL

Date Received : 24-Jan-06
 Date Extracted : 26-Jan-06
 Extraction Method : Shake
 Analysis Complete : 30-Jan-06
 Analyst : B.Patel

Lab ID	Field ID	Dilution Factor	Weight (g)	% Solid	MDL (mg/kg)	RL	TPHC Result (mg/kg)
6004801	701W	1.00	15.06	75.70	84	439	ND
6004802	701C	1.00	15.18	78.82	80	418	ND
6004803	Dupe.	1.00	15.02	78.18	82	426	ND
6004804	701E	1.00	15.23	83.96	75	391	ND
METHOD BLANK	MB-012606-01	1.00	15.00	100.00	64	333	ND

ND = Not Detected
 MDL = Method Detection Limit
 RL = Reporting Limits
 Note : The TPHC result between the MDL and RL are considered an estimated value

Response Factor Report GC/MS Ins

Method : C:\HPCHEM\1\METHODS\TPHC003.M (Chemstation Integrator)

Title : GC TPH Method

Last Update : Tue Oct 25 07:55:20 2005

Calibration Files

5 =T018084.D 10 =T018086.D 20 =T018087.D
 50 =T018085.D 100 =T018083.D

Compound	5	10	20	50	100	Avg	%RSD
1) T C8	2.837	2.664	2.724	2.668	2.626	2.704 E4	3.04
2) T C10	2.862	2.806	2.878	2.839	2.794	2.836 E4	1.26
3) T C12	2.861	2.790	2.853	2.839	2.805	2.829 E4	1.09
4) T C14	2.865	2.809	2.889	2.875	2.845	2.857 E4	1.08
5) T C16	2.927	2.880	2.956	2.945	2.915	2.925 E4	1.00
6) T C18	2.795	2.759	2.843	2.847	2.828	2.814 E4	1.31
7) T C20	2.897	2.846	2.928	2.922	2.892	2.897 E4	1.12
8) T C22	2.992	2.936	3.009	3.003	2.970	2.982 E4	1.00
9) T C24	3.026	2.980	3.055	3.044	3.006	3.022 E4	1.00
10) T C26	3.216	3.070	3.115	3.098	3.050	3.110 E4	2.08
11) T C28	3.078	3.037	3.095	3.106	3.066	3.076 E4	0.88
12) T C30	3.118	3.072	3.150	3.175	3.135	3.130 E4	1.23
13) T C32	3.094	3.044	3.113	3.144	3.116	3.102 E4	1.20
14) T C34	3.248	3.097	3.149	3.147	3.107	3.150 E4	1.90
15) T C36	3.976	3.287	3.224	3.183	3.150	3.364 E4	10.28
16) T C38	3.069	3.060	3.095	3.119	3.056	3.080 E4	0.87
17) T C40	2.977	2.957	3.041	3.094	2.970	3.008 E4	1.93
18) T C42	2.826	2.803	2.869	2.901	2.755	2.831 E4	2.01
19) T Pristane	2.969	2.903	2.962	2.931	2.883	2.930 E4	1.26
20) T Phytane	3.126	2.988	3.046	3.008	2.956	3.025 E4	2.16
21) T TPHC (Manual Integrat	4.144	3.652	3.499	3.390	3.275	3.592 E4	9.42
22) H TPHC (Total)	3.259	3.047	3.076	3.045	2.981	3.082 E4	3.42
23) S Chlorobenzene (SURR.)	1.947	2.014	2.104	2.103	2.064	2.046 E4	3.26
24) S O-Terphenyl (SURR.)	3.327	3.260	3.347	3.333	3.289	3.311 E4	1.08

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\060126\T018273.D
 Acq On : 26 Jan 2006 1:24 pm
 Sample : Tstd050s
 Misc : TP012606.01
 IntFile : EVENTSBP.E

Vial: 1
 Operator: Skelton
 Inst : GC/MS Ins
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\TPHC003.M (Chemstation Integrator)
 Title : GC TPH Method
 Last Update : Tue Oct 25 07:55:20 2005
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 T C8	27.037	23.406 E3	13.4	88	0.00
2 T C10	28.359	24.775 E3	12.6	87	0.00
3 T C12	28.295	24.781 E3	12.4	87	0.00
4 T C14	28.566	25.030 E3	12.4	87	0.00
5 T C16	29.246	25.500 E3	12.8	87	0.00
6 T C18	28.143	24.537 E3	12.8	86	0.00
7 T C20	28.970	25.143 E3	13.2	86	0.00
8 T C22	29.821	25.715 E3	13.8	86	0.00
9 T C24	30.220	25.897 E3	14.3	85	0.00
10 T C26	31.097	26.097 E3	16.1	84	0.00
11 T C28	30.765	26.108 E3	15.1	84	0.00
12 T C30	31.300	26.498 E3	15.3	83	0.00
13 T C32	31.022	26.208 E3	15.5	83	0.00
14 T C34	31.496	25.965 E3	17.6	83	0.00
15 T C36	33.639	26.316 E3	21.8	83	0.00
16 T C38	30.799	25.189 E3	18.2	81	-0.01
17 T C40	30.077	24.034 E3	20.1	78	-0.02
18 T C42	28.308	21.092 E3	25.5#	73	-0.04
19 T Pristane	29.297	25.558 E3	12.8	87	0.00
20 T Phytane	30.249	26.059 E3	13.9	87	0.00
21 T TPHC (Manual Integration)	35.921	28.781 E3	19.9	85	0.00
22 H TPHC (Total)	30.816	25.395 E3	17.6	83	0.00
23 S Chlorobenzene (SURR.)	20.465	18.207 E3	11.0	87	0.00
24 S O-Terphenyl (SURR.)	33.111	29.038 E3	12.3	87	0.00

Data File : C:\HPCHEM\1\DATA\060126\T018273.D Vial: 1
 Acq On : 26 Jan 2006 1:24 pm Operator: Skelton
 Sample : Tstd050s Inst : GC/MS Ins
 Misc : TP012606.01 Multiplr: 1.00
 IntFile : EVENTSBP.E
 Quant Time: Jan 26 13:53 2006 Quant Results File: TPHC003.RES

Quant Method : C:\HPCHEM\1\METHODS\TPHC003.M (Chemstation Integrator)
 Title : GC TPH Method
 Last Update : Tue Oct 25 07:55:20 2005
 Response via : Initial Calibration
 DataAcq Meth : TPHC003.M

Volume Inj. :
 Signal Phase :
 Signal Info :

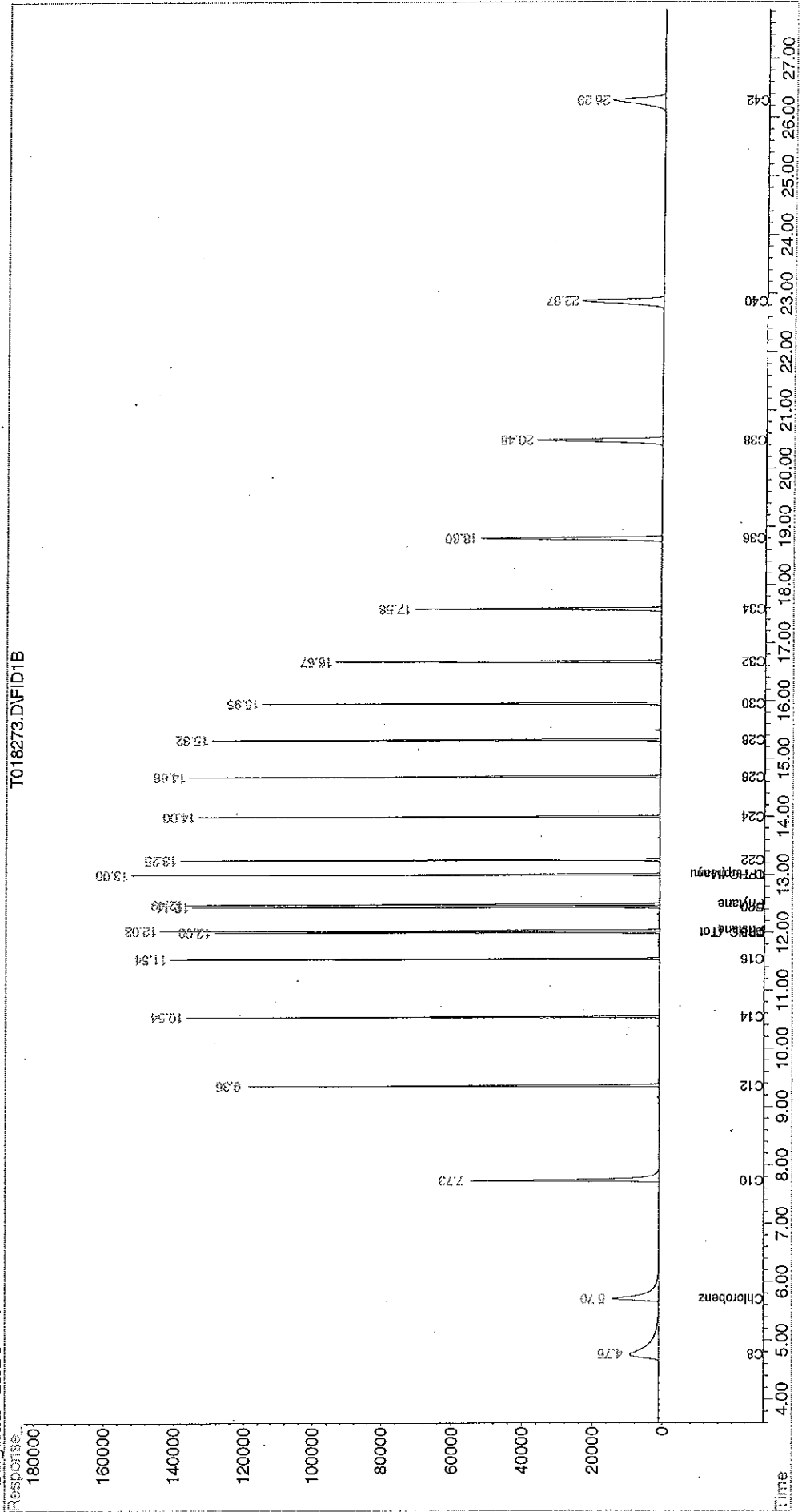
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
23) S Chlorobenzene (SURR.)	5.71	910334	43.920 mg/L
Spiked Amount 10.000		Recovery =	439.20%
24) S O-Terphenyl (SURR.)	13.00	1451897	43.941 mg/L
Spiked Amount 10.000		Recovery =	439.41%
Target Compounds			
1) T C8	4.75	1170296	43.284 mg/L
2) T C10	7.73	1238764	43.682 mg/L
3) T C12	9.36	1239029	43.790 mg/L
4) T C14	10.54	1251519	43.812 mg/L
5) T C16	11.54	1275016	43.596 mg/L
6) T C18	12.00	1226863	43.594 mg/L
7) T C20	12.44	1257126	43.394 mg/L
8) T C22	13.25	1285756	43.115 mg/L
9) T C24	14.00	1294835	42.847 mg/L
10) T C26	14.68	1304855	41.960 mg/L
11) T C28	15.32	1305418	42.432 mg/L
12) T C30	15.95	1324920	42.330 mg/L
13) T C32	16.67	1310377	42.240 mg/L
14) T C34	17.58	1298244	41.219 mg/L
15) T C36	18.80	1315798	39.115 mg/L
16) T C38	20.48	1259466	40.893 mg/L
17) T C40	22.88	1201683	39.954 mg/L
18) T C42	26.29	1054576	37.253 mg/L
19) T Pristane	12.03	1277889	43.618 mg/L
20) T Phytane	12.49	1302945	43.074 mg/L
21) T TPHC (Manual Integration)	13.00	28781008	801.230 mg/L m
22) H TPHC (Total)	12.00	25395093	824.093 mg/L

Data File : C:\HPCHEM\1\DATA\060126\T018273.D
Acq On : 26 Jan 2006 1:24 pm
Sample : Tstd050s
Misc : TP012606.01
IntFile : EVENTSBP.E
Quant Time: Jan 26 13:53 2006 Quant Results File: TPHC003.RES

Vial: 1
Operator: Skelton
Inst : GC/MS Ins
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\METHODS\TPHC003.M (Chemstation Integrator)
Title : GC TPH Method
Last Update : Tue Oct 25 07:55:20 2005
Response via : Multiple Level Calibration
DataAcq Meth : TPHC003.M

Volume Inj. :
Signal Phase :
Signal Info :



000065

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\060126\T018284.D
 Acq On : 26 Jan 2006 8:15 pm
 Sample : Tstd050
 Misc : TP012606.01
 IntFile : EVENTSBP.E

Vial: 12
 Operator: Skelton
 Inst : GC/MS Ins
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\TPHC003.M (Chemstation Integrator)
 Title : GC TPH Method
 Last Update : Tue Oct 25 07:55:20 2005
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	AvgRRF	CCRF	%Dev	Area%	Dev(min)
1 T C8	27.037	25.306 E3	6.4	95	0.00
2 T C10	28.359	26.879 E3	5.2	95	0.00
3 T C12	28.295	27.046 E3	4.4	95	0.00
4 T C14	28.566	27.430 E3	4.0	95	0.00
5 T C16	29.246	27.981 E3	4.3	95	0.00
6 T C18	28.143	26.958 E3	4.2	95	0.00
7 T C20	28.970	27.639 E3	4.6	95	0.00
8 T C22	29.821	28.351 E3	4.9	94	0.00
9 T C24	30.220	28.627 E3	5.3	94	0.00
10 T C26	31.097	28.849 E3	7.2	93	0.00
11 T C28	30.765	28.838 E3	6.3	93	0.00
12 T C30	31.300	29.292 E3	6.4	92	0.00
13 T C32	31.022	28.941 E3	6.7	92	0.00
14 T C34	31.496	28.753 E3	8.7	91	0.00
15 T C36	33.639	29.255 E3	13.0	92	0.00
16 T C38	30.799	28.425 E3	7.7	91	-0.01
17 T C40	30.077	27.849 E3	7.4	90	-0.02
18 T C42	28.308	25.777 E3	8.9	89	-0.04
19 T Pristane	29.297	27.924 E3	4.7	95	0.00
20 T Phytane	30.249	28.519 E3	5.7	95	0.00
21 T TPHC (Manual Integration)	35.921	31.814 E3	11.4	94	0.00
22 H TPHC (Total)	30.816	28.160 E3	8.6	92	0.00
23 S Chlorobenzene (SURR.)	20.465	19.728 E3	3.6	94	0.00
24 S O-Terphenyl (SURR.)	33.111	31.756 E3	4.1	95	0.00

Data File : C:\HPCHEM\1\DATA\060126\T018284.D Vial: 12
 Acq On : 26 Jan 2006 8:15 pm Operator: Skelton
 Sample : Tstd050 Inst : GC/MS Ins
 Misc : TP012606.01 Multiplr: 1.00
 IntFile : EVENTSBP.E
 Quant Time: Jan 30 9:35 2006 Quant Results File: TPHC003.RES

Quant Method : C:\HPCHEM\1\METHODS\TPHC003.M (Chemstation Integrator)
 Title : GC TPH Method
 Last Update : Tue Oct 25 07:55:20 2005
 Response via : Initial Calibration
 DataAcq Meth : TPHC003.M

Volume Inj. :
 Signal Phase :
 Signal Info :

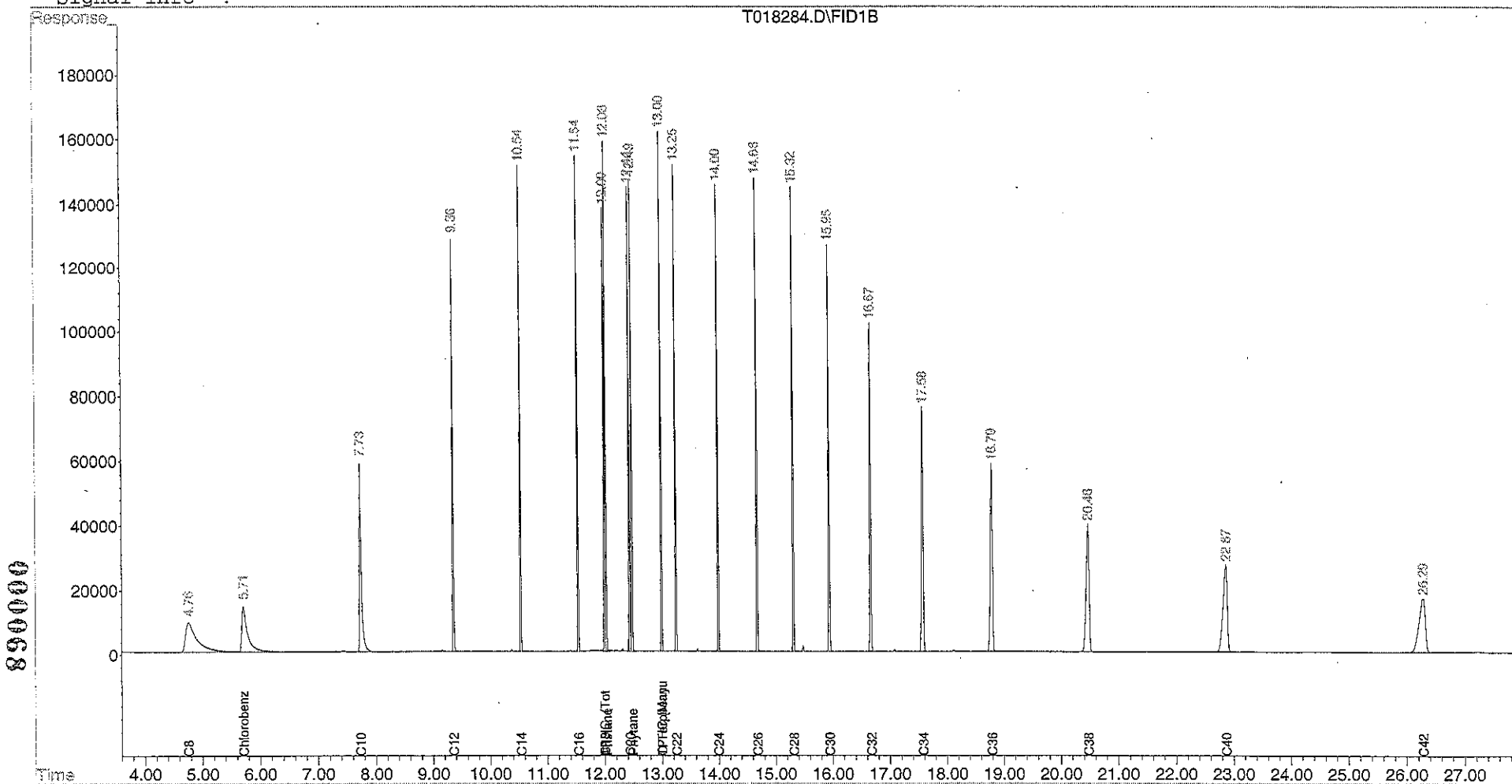
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
23) S Chlorobenzene (SURR.)	5.71	986407	47.593 mg/L
Spiked Amount 10.000		Recovery =	475.93%
24) S O-Terphenyl (SURR.)	13.00	1587793	48.071 mg/L
Spiked Amount 10.000		Recovery =	480.71%
Target Compounds			
1) T C8	4.76	1265312	46.798 mg/L
2) T C10	7.74	1343927	47.390 mg/L
3) T C12	9.36	1352290	47.793 mg/L
4) T C14	10.54	1371496	48.012 mg/L
5) T C16	11.54	1399063	47.838 mg/L
6) T C18	12.00	1347908	47.895 mg/L
7) T C20	12.44	1381953	47.702 mg/L
8) T C22	13.25	1417528	47.534 mg/L
9) T C24	14.00	1431340	47.365 mg/L
10) T C26	14.68	1442452	46.385 mg/L
11) T C28	15.32	1441915	46.869 mg/L
12) T C30	15.95	1464616	46.793 mg/L
13) T C32	16.67	1447057	46.646 mg/L
14) T C34	17.58	1437671	45.646 mg/L
15) T C36	18.80	1462746	43.483 mg/L
16) T C38	20.48	1421253	46.146 mg/L
17) T C40	22.87	1392453	46.297 mg/L
18) T C42	26.29	1288867	45.530 mg/L
19) T Pristane	12.03	1396198	47.657 mg/L
20) T Phytane	12.49	1425957	47.140 mg/L
21) T TPHC (Manual Integration)	13.00	31813671	885.656 mg/L m
22) H TPHC (Total)	12.00	28160200	913.823 mg/L

Data File : C:\HPCHEM\1\DATA\060126\T018284.D
 Acq On : 26 Jan 2006 8:15 pm
 Sample : Tstd050
 Misc : TP012606.01
 IntFile : EVENTSBP.E
 Quant Time: Jan 30 9:35 2006 Quant Results File: TPHC003.RES

Vial: 12
 Operator: Skelton
 Inst : GC/MS Ins
 Multiplr: 1.00

Quant Method : C:\HPCHEM\1\METHODS\TPHC003.M (Chemstation Integrator)
 Title : GC TPH Method
 Last Update : Tue Oct 25 07:55:20 2005
 Response via : Multiple Level Calibration
 DataAcq Meth : TPHC003.M

Volume Inj. :
 Signal Phase :
 Signal Info :



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\060126\T018295.D
 Acq On : 27 Jan 2006 2:58 am
 Sample : Tstd050
 Misc : TP012606.01
 IntFile : EVENTSBP.E

Vial: 23
 Operator: Skelton
 Inst : GC/MS Ins
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\TPHC003.M (Chemstation Integrator)
 Title : GC TPH Method
 Last Update : Tue Oct 25 07:55:20 2005
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev (min)
1 T C8	27.037	25.533 E3	5.6	96	0.00
2 T C10	28.359	27.169 E3	4.2	96	0.00
3 T C12	28.295	27.316 E3	3.5	96	0.00
4 T C14	28.566	27.658 E3	3.2	96	0.00
5 T C16	29.246	28.222 E3	3.5	96	0.00
6 T C18	28.143	27.215 E3	3.3	96	0.00
7 T C20	28.970	27.931 E3	3.6	96	0.00
8 T C22	29.821	28.740 E3	3.6	96	0.00
9 T C24	30.220	29.012 E3	4.0	95	0.00
10 T C26	31.097	29.379 E3	5.5	95	0.00
11 T C28	30.765	29.310 E3	4.7	94	0.00
12 T C30	31.300	29.715 E3	5.1	94	0.00
13 T C32	31.022	29.471 E3	5.0	94	0.00
14 T C34	31.496	29.409 E3	6.6	93	-0.01
15 T C36	33.639	29.822 E3	11.3	94	-0.01
16 T C38	30.799	29.016 E3	5.8	93	-0.02
17 T C40	30.077	28.371 E3	5.7	92	-0.03
18 T C42	28.308	26.194 E3	7.5	90	-0.05
19 T Pristane	29.297	28.213 E3	3.7	96	0.00
20 T Phytane	30.249	28.930 E3	4.4	96	0.00
21 T TPHC (Manual Integration)	35.921	32.224 E3	10.3	95	0.00
22 H TPHC (Total)	30.816	28.634 E3	7.1	94	0.00
23 S Chlorobenzene (SURR.)	20.465	19.877 E3	2.9	95	0.00
24 S O-Terphenyl (SURR.)	33.111	32.112 E3	3.0	96	0.00

Data File : C:\HPCHEM\1\DATA\060126\T018295.D
 Acq On : 27 Jan 2006 2:58 am
 Sample : Tstd050
 Misc : TP012606.01
 IntFile : EVENTSBP.E
 Quant Time: Jan 30 9:39 2006

Vial: 23
 Operator: Skelton
 Inst : GC/MS Ins
 Multiplr: 1.00

Quant Results File: TPHC003.RES

Quant Method : C:\HPCHEM\1\METHODS\TPHC003.M (Chemstation Integrator)
 Title : GC TPH Method
 Last Update : Tue Oct 25 07:55:20 2005
 Response via : Initial Calibration
 DataAcq Meth : TPHC003.M

Volume Inj. :
 Signal Phase :
 Signal Info :

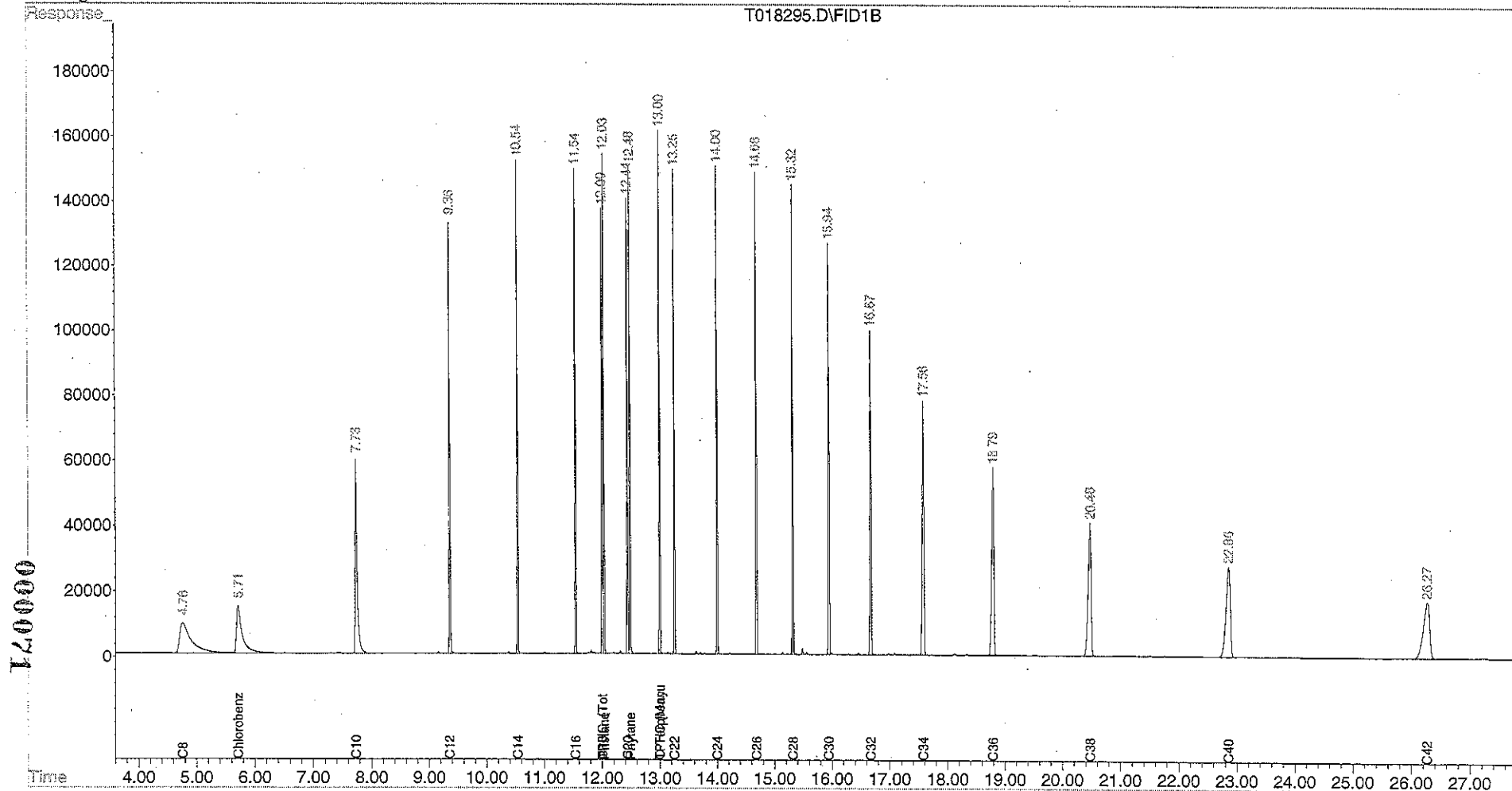
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
23) S Chlorobenzene (SURR.)	5.71	993844	47.952 mg/L
Spiked Amount 10.000		Recovery =	479.52%
24) S O-Terphenyl (SURR.)	13.00	1605593	48.611 mg/L
Spiked Amount 10.000		Recovery =	486.11%
Target Compounds			
1) T C8	4.76	1276675	47.219 mg/L
2) T C10	7.73	1358468	47.903 mg/L
3) T C12	9.36	1365794	48.270 mg/L
4) T C14	10.54	1382896	48.411 mg/L
5) T C16	11.54	1411085	48.249 mg/L
6) T C18	12.00	1360739	48.351 mg/L
7) T C20	12.44	1396527	48.205 mg/L
8) T C22	13.25	1436996	48.187 mg/L
9) T C24	14.00	1450585	48.001 mg/L
10) T C26	14.68	1468959	47.237 mg/L
11) T C28	15.32	1465509	47.636 mg/L
12) T C30	15.95	1485751	47.468 mg/L
13) T C32	16.67	1473574	47.501 mg/L
14) T C34	17.58	1470468	46.688 mg/L
15) T C36	18.79	1491103	44.326 mg/L
16) T C38	20.48	1450801	47.106 mg/L
17) T C40	22.86	1418530	47.164 mg/L
18) T C42	26.27	1309676	46.265 mg/L
19) T Pristane	12.03	1410675	48.151 mg/L
20) T Phytane	12.49	1446498	47.819 mg/L
21) T TPHC (Manual Integration)	13.00	32224261	897.087 mg/L m
22) H TPHC (Total)	12.00	28633837	929.193 mg/L

Data File : C:\HPCHEM\1\DATA\060126\T018295.D
 Acq On : 27 Jan 2006 2:58 am
 Sample : Tstd050
 Misc : TP012606.01
 IntFile : EVENTSBP.E
 Quant Time: Jan 30 9:39 2006 Quant Results File: TPHC003.RES

Vial: 23
 Operator: Skelton
 Inst : GC/MS Ins
 Multiplr: 1.00

Quant Method : C:\HPCHEM\1\METHODS\TPHC003.M (Chemstation Integrator)
 Title : GC TPH Method
 Last Update : Tue Oct 25 07:55:20 2005
 Response via : Multiple Level Calibration
 DataAcq Meth : TPHC003.M

Volume Inj. :
 Signal Phase :
 Signal Info :



Surrogate Recovery Report
U.S.Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	Project # :	60048
	DPW. SELFM-PW-EV	Location :	701
	Bldg. 173	UST Reg. # :	06-34880
	Ft. Monmouth, NJ 07703		
Analysis:	OQA-QAM-025	Date Received :	24-Jan-06
Matrix:	Soil	Date Extracted :	26-Jan-06
Inst. ID.	GC TPHC INST. #1	Extraction Method :	Shake
Column Type :	RTX-5, 0.32mm ID, 30M	Analysis Complete :	30-Jan-06
Injection Volume :	1uL	Analyst :	B.Patel

Lab ID	Surrogate Added (ppm)	Chlorobenzene Recovered (ppm)	Chlorobenzene % Recovery	O-Terphenyl Recovered (ppm)	O-Terphenyl % Recovery
6004801	10	9.42	94.2	9.38	93.8
6004802	10	8.81	88.1	8.72	87.2
6004803	10	8.71	87.1	8.89	88.9
6004804	10	9.64	96.4	9.61	96.1
METHOD BLANK	10	8.37	83.7	8.38	83.8

SURROGATE STANDARDS		Lower Control Limits	Upper Control Limits
Chlorobenzene	QC Limits	60	130
O-Terphenyl	QC Limits	62	133

**Matrix Spike/ Duplicate Recovery Report
U.S.Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461**

Client :	U.S. Army	Project # :	60048
	DPW. SELFM-PW-EV	Location :	701
	Bldg. 173	UST Reg. # :	06-34880
	Ft. Monmouth, NJ 07703		
Analysis:	OQA-QAM-025	Date Received :	24-Jan-06
Matrix:	Soil	Date Extracted :	26-Jan-06
Inst. ID.	GC TPHC INST. #1	Extraction Method :	Shake
Column Type :	RTX-5, 0.32mm ID, 30M	Analysis Complete :	30-Jan-06
Injection Volume :	1uL	Analyst :	B.Patel

Sample	Spike Amount Added (ppm)	Sample Amount (ppm)	Matrix Spike Amount (ppm)	Percent Recovery	QC Limits %
6004201MS	1000	0.21	763.37	76.32	55 - 129
6004201MSD	1000	0.21	820.65	82.04	55 - 129

RPD	7.23	20.00
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NC = Not Calculated due to values are over the calibration range.

Quality Control Check Standard Summary
U.S.Army, Fort Monmouth Environmental Laboratory
NJDEP Certification # 13461

Client :	U.S. Army	Project # :	60048
	DPW. SELFM-PW-EV	Location :	701
	Bldg. 173	UST Reg. # :	06-34880
	Ft. Monmouth, NJ 07703		
Analysis:	OQA-QAM-025	Date Received :	24-Jan-06
Matrix:	Soil	Date Extracted :	26-Jan-06
Inst. ID.	GC TPHC INST. #1	Extraction Method :	Shake
Column Type :	RTX-5, 0.32mm ID, 30M	Analysis Complete :	30-Jan-06
Injection Volume :	1uL	Analyst :	B.Patel

Sample	Date Extracted	Spike Amount Added (ppm)	Matrix Spike Amount (ppm)	Percent Recovery	QC Limits %
LCS-012606-01	26-Jan-06	1000	832.70	83.27	55 - 129

000074

Data File : C:\HPCHEM\1\DATA\060126\T018274.D Vial: 2
 Acq On : 26 Jan 2006 2:02 pm Operator: Skelton
 Sample : MB-012606-01 Inst : GC/MS Ins
 Misc : Soil Multiplr: 1.00
 IntFile : EVENTSBP.E
 Quant Time: Jan 26 14:45 2006 Quant Results File: TPHC003.RES

Quant Method : C:\HPCHEM\1\METHODS\TPHC003.M (Chemstation Integrator)
 Title : GC TPH Method
 Last Update : Tue Oct 25 07:55:20 2005
 Response via : Initial Calibration
 DataAcq Meth : TPHC003.M

Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units

System Monitoring Compounds			
23) S Chlorobenzene (SURR.)	5.71	174015	8.368 mg/L
Spiked Amount 10.000		Recovery =	83.68%
24) S O-Terphenyl (SURR.)	12.99	281419	8.375 mg/L
Spiked Amount 10.000		Recovery =	83.75%
Target Compounds			
1) T C8	0.00	0	N.D. mg/L
2) T C10	0.00	0	N.D. mg/L
3) T C12	0.00	0	N.D. mg/L
4) T C14	0.00	0	N.D. mg/L
5) T C16	0.00	0	N.D. mg/L
6) T C18	0.00	0	N.D. mg/L
7) T C20	0.00	0	N.D. mg/L
8) T C22	12.99f	281419	9.437 mg/L
9) T C24	0.00	0	N.D. mg/L
10) T C26	0.00	0	N.D. mg/L
11) T C28	0.00	0	N.D. mg/L
12) T C30	0.00	0	N.D. mg/L
13) T C32	0.00	0	N.D. mg/L
14) T C34	0.00	0	N.D. mg/L
15) T C36	0.00	0	N.D. mg/L
16) T C38	0.00	0	N.D. mg/L
17) T C40	0.00	0	N.D. mg/L
18) T C42	0.00	0	N.D. mg/L
19) T Pristane	0.00	0	N.D. mg/L
20) T Phytane	0.00	0	N.D. mg/L
21) T TPHC (Manual Integration)	0.00	0	N.D. mg/L d
22) H TPHC (Total)	12.00	1528	0.050 mg/L

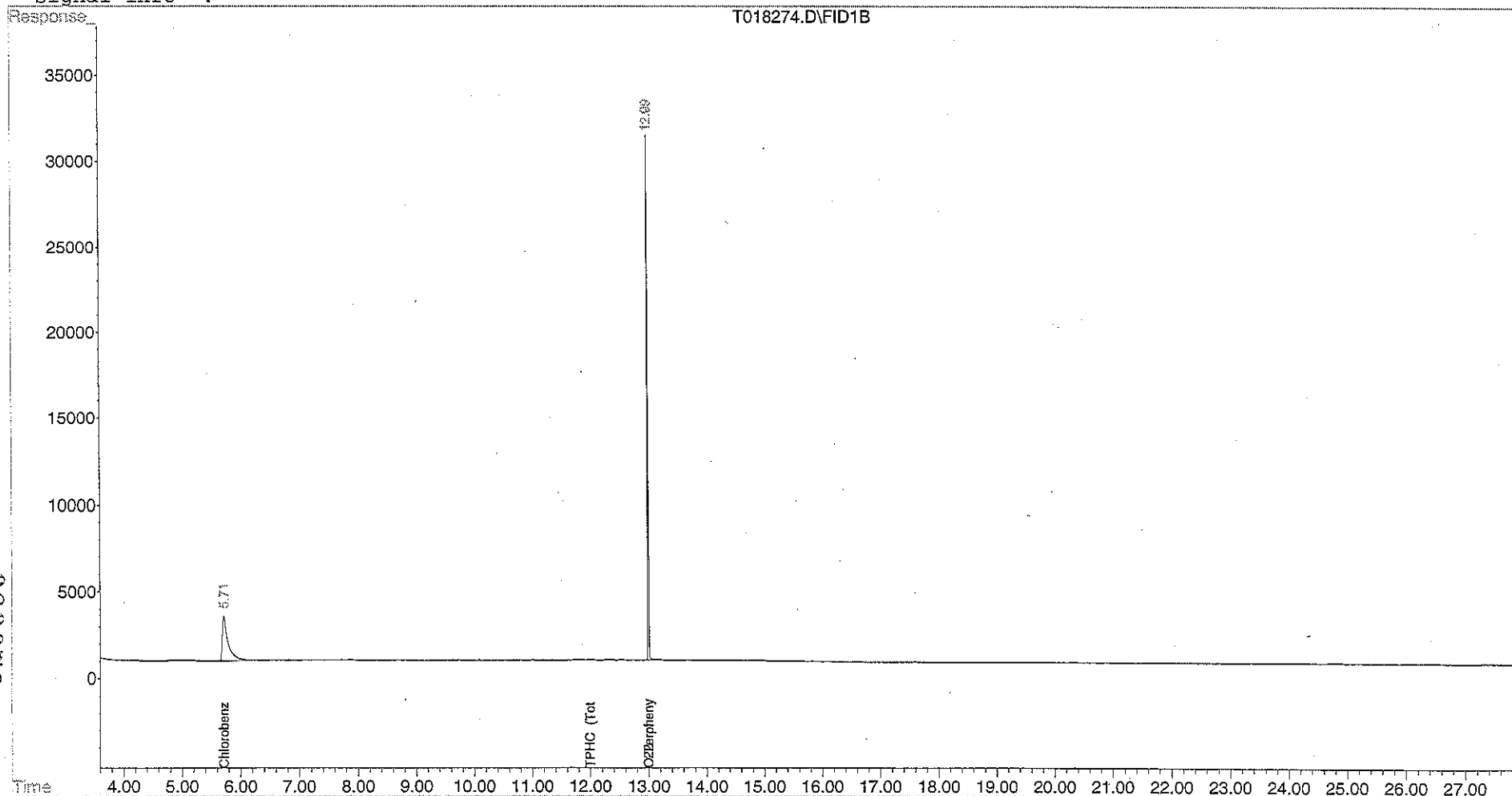
Data File : C:\HPCHEM\1\DATA\060126\T018274.D
Acq On : 26 Jan 2006 2:02 pm
Sample : MB-012606-01
Misc : Soil
IntFile : EVENTSBP.E
Quant Time: Jan 26 14:45 2006

Vial: 2
Operator: Skelton
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: TPHC003.RES

Quant Method : C:\HPCHEM\1\METHODS\TPHC003.M (Chemstation Integrator)
Title : GC TPH Method
Last Update : Tue Oct 25 07:55:20 2005
Response via : Multiple Level Calibration
DataAcq Meth : TPHC003.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\060126\T018286.D Vial: 14
 Acq On : 26 Jan 2006 9:29 pm Operator: Skelton
 Sample : 6004801s Inst : GC/MS Ins
 Misc : Multiplr: 1.00
 IntFile : EVENTSBP.E
 Quant Time: Jan 30 9:36 2006 Quant Results File: TPHC003.RES

Quant Method : C:\HPCHEM\1\METHODS\TPHC003.M (Chemstation Integrator)
 Title : GC TPH Method
 Last Update : Tue Oct 25 07:55:20 2005
 Response via : Initial Calibration
 DataAcq Meth : TPHC003.M

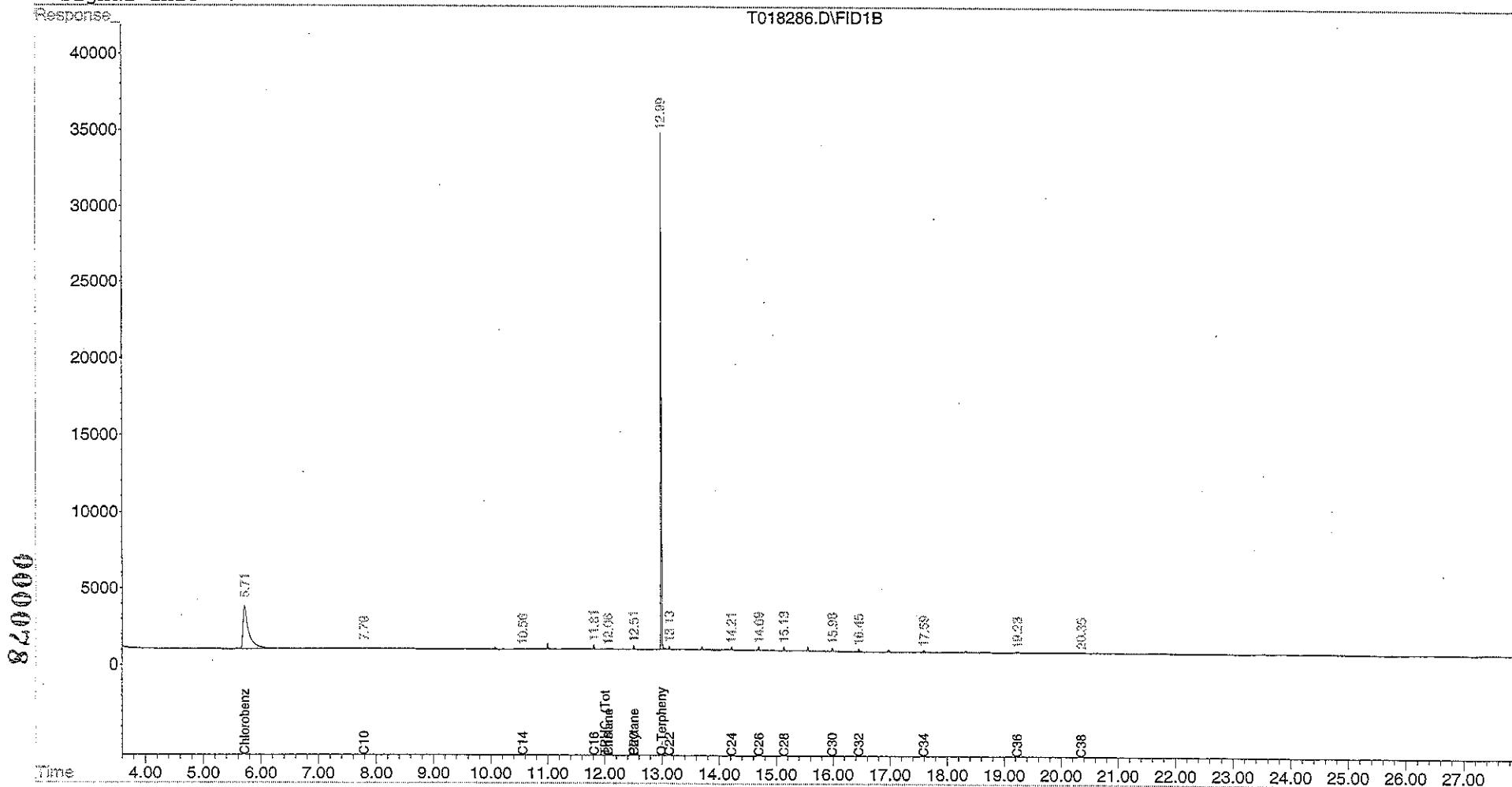
Volume Inj. :
 Signal Phase :
 Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
23) S Chlorobenzene (SURR.)	5.71	195888	9.424 mg/L
Spiked Amount	10.000	Recovery =	94.24%
24) S O-Terphenyl (SURR.)	12.99	314460	9.379 mg/L
Spiked Amount	10.000	Recovery =	93.79%
Target Compounds			
1) T C8	0.00	0	N.D. mg/L
2) T C10	7.80	1077	0.038 mg/L
3) T C12	0.00	0	N.D. mg/L
4) T C14	10.56	1118	0.039 mg/L
5) T C16	11.81f	2673	0.091 mg/L
6) T C18	12.06	255	0.009 mg/L
7) T C20	12.51	2538	0.088 mg/L
8) T C22	13.13	2149	0.072 mg/L
9) T C24	14.22	2430	0.080 mg/L
10) T C26	14.69	2404	0.077 mg/L
11) T C28	15.13	2834	0.092 mg/L
12) T C30	15.99	3101	0.099 mg/L
13) T C32	16.45	2866	0.092 mg/L
14) T C34	17.59	2557	0.081 mg/L
15) T C36	19.23f	1780	0.053 mg/L
16) T C38	20.35	1748	0.057 mg/L
17) T C40	0.00	0	N.D. mg/L
18) T C42	0.00	0	N.D. mg/L
19) T Pristane	12.06	255	0.009 mg/L
20) T Phytane	12.51	2538	0.084 mg/L
21) T TPHC (Manual Integration)	0.00	0	N.D. mg/L d
22) H TPHC (Total)	12.00	45850	1.488 mg/L

Data File : C:\HPCHEM\1\DATA\060126\T018286.D Vial: 14
 Acq On : 26 Jan 2006 9:29 pm Operator: Skelton
 Sample : 6004801s Inst : GC/MS Ins
 Misc : Multiplr: 1.00
 IntFile : EVENTSBP.E
 Quant Time: Jan 30 9:36 2006 Quant Results File: TPHC003.RES

Quant Method : C:\HPCHEM\1\METHODS\TPHC003.M (Chemstation Integrator)
 Title : GC TPH Method
 Last Update : Tue Oct 25 07:55:20 2005
 Response via : Multiple Level Calibration
 DataAcq Meth : TPHC003.M

Volume Inj. :
 Signal Phase :
 Signal Info :



Data File : C:\HPCHEM\1\DATA\060126\T018287.D Vial: 15
 Acq On : 26 Jan 2006 10:06 pm Operator: Skelton
 Sample : 6004802s Inst : GC/MS Ins
 Misc : Multiplr: 1.00
 IntFile : EVENTSBP.E
 Quant Time: Jan 30 9:36 2006 Quant Results File: TPHC003.RES

Quant Method : C:\HPCHEM\1\METHODS\TPHC003.M (Chemstation Integrator)
 Title : GC TPH Method
 Last Update : Tue Oct 25 07:55:20 2005
 Response via : Initial Calibration
 DataAcq Meth : TPHC003.M

Volume Inj. :
 Signal Phase :
 Signal Info :

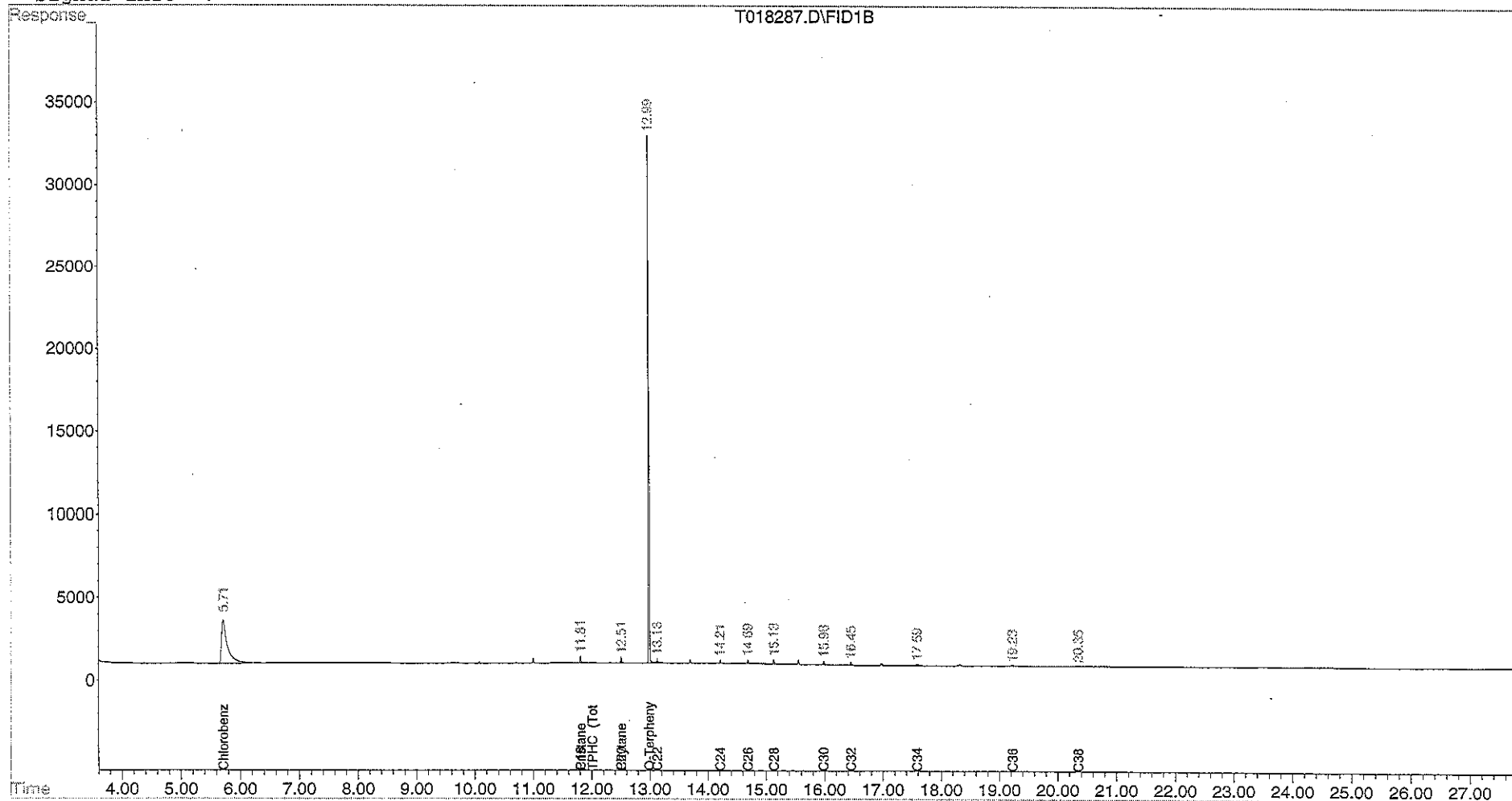
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
23) S Chlorobenzene (SURR.)	5.71	183075	8.806 mg/L
Spiked Amount 10.000		Recovery =	88.06%
24) S O-Terphenyl (SURR.)	12.99	292635	8.716 mg/L
Spiked Amount 10.000		Recovery =	87.16%
Target Compounds			
1) T C8	0.00	0	N.D. mg/L
2) T C10	0.00	0	N.D. mg/L
3) T C12	0.00	0	N.D. mg/L
4) T C14	0.00	0	N.D. mg/L
5) T C16	11.81f	4059	0.139 mg/L
6) T C18	11.81	4059	0.144 mg/L
7) T C20	12.51	3300	0.114 mg/L
8) T C22	13.13	2745	0.092 mg/L
9) T C24	14.22	2115	0.070 mg/L
10) T C26	14.69	2359	0.076 mg/L
11) T C28	15.13	2713	0.088 mg/L
12) T C30	15.99	2907	0.093 mg/L
13) T C32	16.45	2821	0.091 mg/L
14) T C34	17.59	2163	0.069 mg/L
15) T C36	19.23f	1639	0.049 mg/L
16) T C38	20.35	1385	0.045 mg/L
17) T C40	0.00	0	N.D. mg/L
18) T C42	0.00	0	N.D. mg/L
19) T Pristane	11.81	4059	0.139 mg/L
20) T Phytane	12.51	3300	0.109 mg/L
21) T TPHC (Manual Integration)	0.00	0	N.D. mg/L d
22) H TPHC (Total)	12.00	41339	1.342 mg/L

Data File : C:\HPCHEM\1\DATA\060126\T018287.D
Acq On : 26 Jan 2006 10:06 pm
Sample : 6004802s
Misc :
IntFile : EVENTSBP.E
Quant Time: Jan 30 9:36 2006 Quant Results File: TPHC003.RES

Vial: 15
Operator: Skelton
Inst : GC/MS Ins
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\METHODS\TPHC003.M (Chemstation Integrator)
Title : GC TPH Method
Last Update : Tue Oct 25 07:55:20 2005
Response via : Multiple Level Calibration
DataAcq Meth : TPHC003.M

Volume Inj. :
Signal Phase :
Signal Info :



080000

Data File : C:\HPCHEM\1\DATA\060126\T018288.D Vial: 16
 Acq On : 26 Jan 2006 10:42 pm Operator: Skelton
 Sample : 6004803s Inst : GC/MS Ins
 Misc : Multiplr: 1.00
 IntFile : EVENTSBP.E
 Quant Time: Jan 30 9:37 2006 Quant Results File: TPHC003.RES

Quant Method : C:\HPCHEM\1\METHODS\TPHC003.M (Chemstation Integrator)
 Title : GC TPH Method
 Last Update : Tue Oct 25 07:55:20 2005
 Response via : Initial Calibration
 DataAcq Meth : TPHC003.M

Volume Inj. :
 Signal Phase :
 Signal Info :

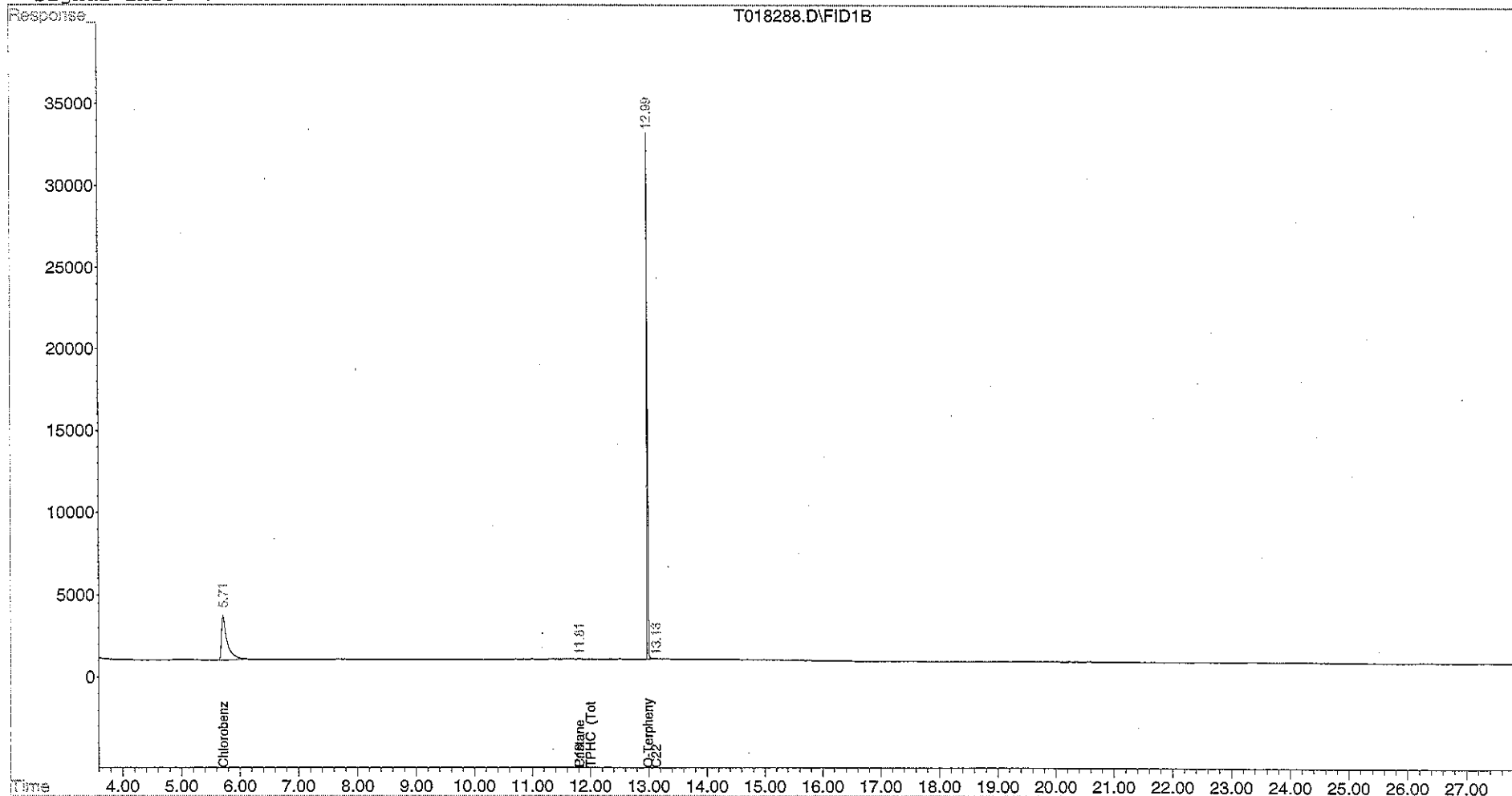
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
23) S Chlorobenzene (SURR.)	5.71	181002	8.706 mg/L
Spiked Amount 10.000		Recovery =	87.06%
24) S O-Terphenyl (SURR.)	12.99	298433	8.892 mg/L
Spiked Amount 10.000		Recovery =	88.92%
Target Compounds			
1) T C8	0.00	0	N.D. mg/L
2) T C10	0.00	0	N.D. mg/L
3) T C12	0.00	0	N.D. mg/L
4) T C14	0.00	0	N.D. mg/L
5) T C16	11.81f	322	0.011 mg/L
6) T C18	11.81	322	0.011 mg/L
7) T C20	0.00	0	N.D. mg/L
8) T C22	13.13	384	0.013 mg/L
9) T C24	0.00	0	N.D. mg/L
10) T C26	0.00	0	N.D. mg/L
11) T C28	0.00	0	N.D. mg/L
12) T C30	0.00	0	N.D. mg/L
13) T C32	0.00	0	N.D. mg/L
14) T C34	0.00	0	N.D. mg/L
15) T C36	0.00	0	N.D. mg/L
16) T C38	0.00	0	N.D. mg/L
17) T C40	0.00	0	N.D. mg/L
18) T C42	0.00	0	N.D. mg/L
19) T Pristane	11.81	322	0.011 mg/L
20) T Phytane	0.00	0	N.D. mg/L
21) T TPHC (Manual Integration)	0.00	0	N.D. mg/L d
22) H TPHC (Total)	12.00	2198	0.071 mg/L

Data File : C:\HPCHEM\1\DATA\060126\T018288.D
Acq On : 26 Jan 2006 10:42 pm
Sample : 6004803s
Misc :
IntFile : EVENTSBP.E
Quant Time: Jan 30 9:37 2006 Quant Results File: TPHC003.RES

Vial: 16
Operator: Skelton
Inst : GC/MS Ins
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\METHODS\TPHC003.M (Chemstation Integrator)
Title : GC TPH Method
Last Update : Tue Oct 25 07:55:20 2005
Response via : Multiple Level Calibration
DataAcq Meth : TPHC003.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\1\DATA\060126\T018289.D Vial: 17
 Acq On : 26 Jan 2006 11:19 pm Operator: Skelton
 Sample : 6004804s Inst : GC/MS Ins
 Misc : Multiplr: 1.00
 IntFile : EVENTSBP.E
 Quant Time: Jan 30 9:37 2006 Quant Results File: TPHC003.RES

Quant Method : C:\HPCHEM\1\METHODS\TPHC003.M (Chemstation Integrator)
 Title : GC TPH Method
 Last Update : Tue Oct 25 07:55:20 2005
 Response via : Initial Calibration
 DataAcq Meth : TPHC003.M

Volume Inj. :
 Signal Phase :
 Signal Info :

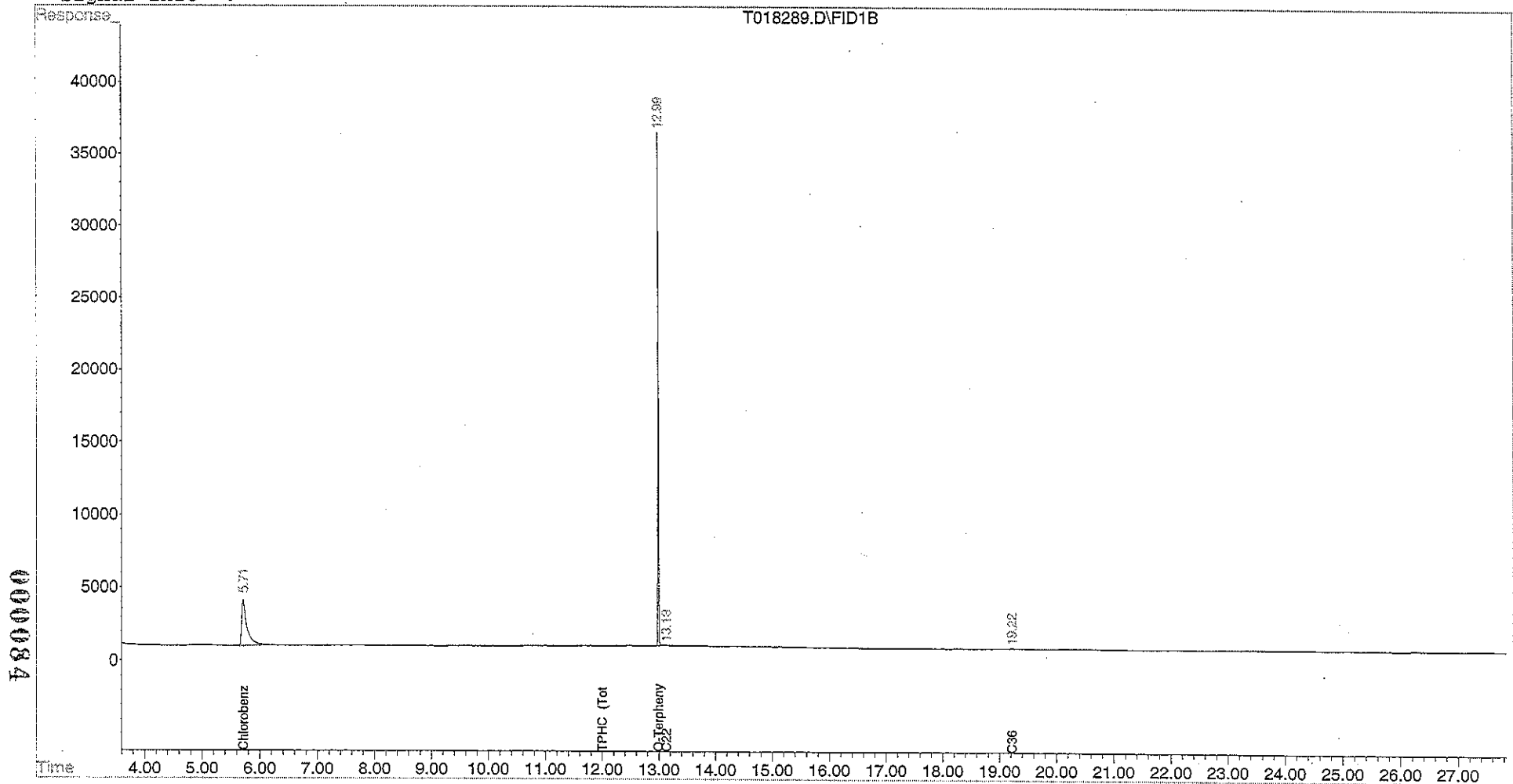
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
23) S Chlorobenzene (SURR.)	5.71	200320	9.638 mg/L
Spiked Amount 10.000		Recovery =	96.38%
24) S O-Terphenyl (SURR.)	12.99	322189	9.614 mg/L
Spiked Amount 10.000		Recovery =	96.14%
Target Compounds			
1) T C8	0.00	0	N.D. mg/L
2) T C10	0.00	0	N.D. mg/L
3) T C12	0.00	0	N.D. mg/L
4) T C14	0.00	0	N.D. mg/L
5) T C16	0.00	0	N.D. mg/L
6) T C18	0.00	0	N.D. mg/L
7) T C20	0.00	0	N.D. mg/L
8) T C22	13.13	293	0.010 mg/L
9) T C24	0.00	0	N.D. mg/L
10) T C26	0.00	0	N.D. mg/L
11) T C28	0.00	0	N.D. mg/L
12) T C30	0.00	0	N.D. mg/L
13) T C32	0.00	0	N.D. mg/L
14) T C34	0.00	0	N.D. mg/L
15) T C36	19.22f	2102	0.062 mg/L
16) T C38	0.00	0	N.D. mg/L
17) T C40	0.00	0	N.D. mg/L
18) T C42	0.00	0	N.D. mg/L
19) T Pristane	0.00	0	N.D. mg/L
20) T Phytane	0.00	0	N.D. mg/L
21) T TPHC (Manual Integration)	0.00	0	N.D. mg/L d
22) H TPHC (Total)	12.00	3395	0.110 mg/L

Data File : C:\HPCHEM\1\DATA\060126\T018289.D
Acq On : 26 Jan 2006 11:19 pm
Sample : 6004804s
Misc :
IntFile : EVENTSBP.E
Quant Time: Jan 30 9:37 2006 Quant Results File: TPHC003.RES

Vial: 17
Operator: Skelton
Inst : GC/MS Ins
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\METHODS\TPHC003.M (Chemstation Integrator)
Title : GC TPH Method
Last Update : Tue Oct 25 07:55:20 2005
Response via : Multiple Level Calibration
DataAcq Meth : TPHC003.M

Volume Inj. :
Signal Phase :
Signal Info :



LABORATORY DELIVERABLES CHECKLIST AND NON-CONFORMANCE SUMMARY

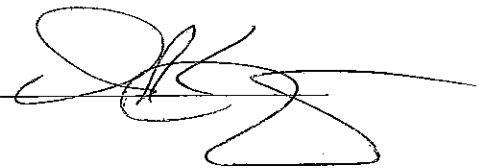
THIS FORM MUST BE COMPLETED BY THE LABORATORY OR ENVIRONMENTAL CONSULTANT AND ACCOMPANY ALL DATA SUBMISSIONS

The following Laboratory Deliverables Checklist and Non-Conformance Summary shall be included in the data submission. All deviations from the accepted methodology and procedures, of performance values outside acceptable ranges shall be summarized in the Non-Conformance Summary. The Technical Requirements for Site Remediation, effective June 7, 1993, provides further details. The document shall be bound and paginated, contain a table of contents, and all pages shall be legible. Incomplete data packages will be returned or held without review until the data package is completed.

It is recommended that the analytical results summary sheets listing all targeted and non-targeted compounds with the method detection limits, practical quantitation limits, and the laboratory and/or sample numbers be included in one section of the data package and in the main body of the report.

- | | | |
|-----|--|---|
| 1. | Cover Page, Title Page listing Lab Certification #, facility name and address, & date of report submitted. | ✓ |
| 2. | Table of Contents submitted. | ✓ |
| 3. | Summary Sheets listing analytical results for all targeted and non-targeted compounds submitted. | ✓ |
| 4. | Document paginated and legible. | ✓ |
| 5. | Chain of Custody submitted. | ✓ |
| 6. | Samples submitted to lab within 48 hours of sample collection. | ✓ |
| 7. | Methodology Summary submitted. | ✓ |
| 8. | Laboratory Chronicle and Holding Time Check submitted. | ✓ |
| 9. | Results submitted on a dry weight basis. | ✓ |
| 10. | Method Detection Limits submitted. | ✓ |
| 11. | Lab certified by NJDEP for parameters of appropriate category of parameters or a member of the USEPA CLP. | ✓ |

Laboratory Manager or Environmental Consultant's Signature
Date: 3/6/06



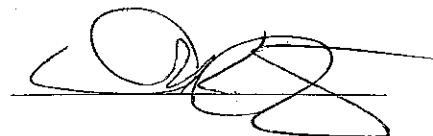
Laboratory Certification # 13461

*Refer to NJAC 7:26E – Appendix A, Section IV – Reduced Data Deliverables – Non-USEPA/CLP Methods for further guidance.

000085

Laboratory Authentication Statement

I certify under penalty of law, where applicable, that this laboratory meets the Laboratory Performance Standards and Quality Control requirements specified in N.J.A.C. 7:18 and 40 CFR Part 136 for Water and Wastewater Analyses and SW-846 for Solid Waste Analysis. I have personally examined the information contained in this report and to the best of my knowledge, I believe that the submitted information is true, accurate, complete and meets the above referenced standards where applicable. I am aware that there are significant penalties for purposefully submitting falsified information, including the possibility of a fine and imprisonment.



Daniel K. Wright
Laboratory Manager