

FINAL
ANNUAL GROUNDWATER MONITORING REPORT 2007
BUILDING BB-190

NCDENR Incident Number: 22793
Marine Corps Base
Camp Lejeune, North Carolina

14 June 2007

Prepared for:



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LIST OF ACRONYMS

2000 Guidelines	Groundwater Section Guidelines for Investigation and Remediation of Soil and Groundwater
2001 Guidelines	Guidelines for Assessment and Corrective Action, North Carolina
2L GWQS	Underground Storage Tank Section (Effective July 1, 2001)
AS	NCAC T15A:02L Groundwater Quality Standards
AST	Air Sparge
BDL	Aboveground Storage Tank
BN	Below Detection Limit
BNA	Base/Neutral (extractables)
BQL	Base/Neutral/Acid (extractables)
BLS	Below Quantitation Limit
BTEX	Below Land Surface
CAP	Benzene, Toluene, Ethylbenzene, Xylenes
CFR	Corrective Action Plan
Cr	Code of Federal Regulations
CSA	Chromium
DIPE	Comprehensive Site Assessment
DO	Di-isopropyl Ether
DOD	Dissolved Oxygen
DPT	Department of Defense
DWQ	Direct Push Technology
DWM	Division of Water Quality
DTW	Division of Waste Management
EDB	Depth to Water
EMD	Ethylene di-bromide
EPA	Environmental Management Division
EPH	Environmental Protection Agency
EQB	Extractable Petroleum Hydrocarbons
Fe	Environmental Quality Branch
FID	Iron
FT	Flame Ionization Detector
GCL	Feet
GIS	Gross Contaminant Level
GPS	Geographic Information System
Guidelines Vol. II	Global Positioning System
	Groundwater Section Guidelines for Investigation and Remediation of Soil and Groundwater, Volume II, Petroleum Underground Storage Tanks (January 2, 1998)
HDPE	High Density Polyethylene
I/C	Industrial/Commercial
ID	Identification
I&E	Installations and Environment Department
IGWQS	Interim Groundwater Quality Standards
IPE	Isopropyl Ether
LSA	Limited Site Assessment
LUST	Leaking Underground Storage Tank
m	Meter
MADEP	Massachusetts Department of Environmental Protection
MCAS	Marine Corps Air Station

MCB	Marine Corps Base
MDL	Method Detection Limit
mg/Kg	Milligrams per Kilogram
mg/L	Milligrams per Liter
MSCC	Maximum Soil Contaminant Concentration
MSL	Mean Sea Level
MTBE	Methyl tertiary butyl ether
µg/Kg	Micrograms per Kilogram
µg/L	Micrograms per Liter
NA	Not Analyzed
N/A	Not Applicable
NAVFAC	Naval Facilities Engineering Command Atlantic
NC	North Carolina
NCAC	North Carolina Administrative Code
NCDENR	North Carolina Department of Environment and Natural Resources
NE	None Established
NM	Not Measured
NMT	No Measurable Thickness
NS	Not Sampled
OVA	Organic Vapor Analyzer
PAH	Polynuclear Aromatic Hydrocarbons
Pb	Lead
PPB	Parts Per Billion
PPM	Parts Per Million
PID	Photo Ionization Detector
PQL	Practical Quantitation Limit
PVC	Polyvinyl chloride
RBCA	Risk-Based Corrective Action
RCRA	Resource Conservation and Recovery Act
Res	Residential
SOW	Scope of Work
STGW	Soil-to-Groundwater
SVE	Soil Vapor Extraction
SVOC	Semi Volatile Organic Compound
TCLP	Toxicity Characteristic Leaching Procedure
TIC	Tentatively Identified Compound
TOC	Top of Casing
TPH	Total Petroleum Hydrocarbons
US	United States
USCS	Unified Soil Classification System
EPA	United States Environmental Protection Agency
USGS	United States Geological Survey
UST	Underground Storage Tank
VOC	Volatile Organic Compounds
VPH	Volatile Petroleum Hydrocarbons
WiRO	NCDENR Wilmington Regional Office

EXECUTIVE SUMMARY

Building BB-190 is located in the Courthouse Bay area of MCB Camp Lejeune off of Marines Road. It is an active water treatment plant. An active potable water supply well, PSWBB47, is located approximately 100 feet north of Building BB-190. The former 500-gallon underground storage tank (UST) located at the subject site was used to store diesel fuel for heat production and was abandoned in place in May 1994.

Soil samples, collected during tank closure activities, showed the presence of total petroleum hydrocarbons (TPH) - gasoline range organics (GRO) and diesel range organics (DRO) above state action levels. As a result, a comprehensive site assessment (CSA) was conducted at the site by Richard Catlin and Associates (now known as Catlin Engineers and Scientists, CATLIN) in 1995. Two areas exhibited soil TPH concentrations above action levels during the CSA - one in the vicinity of monitoring well MW16 and the other in the vicinity of former UST BB-190-1. Of these two areas, only soils in the vicinity of the former UST exhibited soil TPH concentrations above the Final Clean-up Level calculated at 120 ppm as TPH-Gasoline. Free product was not identified during the CSA. Dissolved phase constituents, however, were detected in groundwater at the site.

Due to soil and groundwater contamination, the CSA recommended a corrective action plan (CAP) be prepared to address contamination at the site. The 1996 CATLIN CAP recommended biosparging to address groundwater contamination, using a combination of horizontal and vertical biosparge wells. To address vadose zone soil contamination and to collect vapors from the biosparge wells, the CAP proposed soil vapor extraction using horizontal soil vapor extraction wells. The biosparge/soil vapor extraction system was subsequently installed by J.A. Jones Environmental Services, Inc. (J.A. Jones) in October 1998 and operated until December 1999, when the system was shut down based on low contaminant concentrations.

Following system deactivation in December 1999, post-operation groundwater monitoring was conducted quarterly. No free product was present, and dissolved phase constituents remained below detectable concentrations at most site wells. Wells MW07 and MW16 were the only wells that exhibited contaminants (benzene and/or ethylbenzene) above NCGWQSs. Soil sampling conducted in September 2001 showed soil contaminant levels were below NCDENR established soil-to-groundwater maximum soil contaminant concentrations.

Based on J.A. Jones soil and groundwater data, a May 2002 monitoring report was prepared. It stated that the site qualified for a low risk classification and recommended the site be considered for No Further Action (NFA) status by NCDENR. NCDENR subsequently denied the request for NFA due to the close proximity of potable water supply well PSWBB47. NCDENR recommended that groundwater monitoring be continued at the site and that the monitoring program should include water supply well PSWBB47. Alternatively, they recommended that the potable water supply well be properly abandoned, and a well abandonment record be submitted to NCDENR.

Subsequent gauging and sampling of the site's 17 monitoring wells, as well as the nearby potable water supply well, was conducted by Engineering and Environment, Inc. (EEI) in both June 2004 and 2005. Sampling was not performed in 2003 due to funding issues. Neither monitoring event detected free product at the site. In addition, no contaminants were detected in the water supply well, PSWBB47, or in the site's three deep monitoring wells. Contamination above NCGWQSs were detected only in the two wells closest to the former UST, MW07 and MW16. Contaminant concentrations were below GCLs.

Sovereign Consulting Inc. (Sovereign) conducted annual groundwater monitoring in 2006 and 2007. Measurable free product has not been identified during either monitoring event. Groundwater contaminant levels remained generally the same as compared to historical data showing monitoring wells MW07 and MW16 being the most impacted wells. Contaminant levels continue to show an overall decrease as compared to pre-remediation conditions. Since this site is classified by NCDENR as a high risk site due to the close proximity of active potable water supply well PSWBB47, Sovereign recommends MCB Camp Lejeune continue annual groundwater monitoring and reporting at the site.

1.0 TITLE PAGE

DATE OF REPORT: 14 June 2007

Facility I.D.: N/A

NCDENR Incident Number: 22793

Site Name: Building BB-190

Site Location: Marine Corps Base Camp Lejeune, North Carolina

Nearest City/Town: Camp Lejeune

County: Onslow

Risk Classification: High Risk

Land Use Classification: Industrial/Commercial

Property Owner: Commanding Officer – MCB Camp Lejeune

I&E/EMD/EQB

PSC Box 20004

Address: MCB Camp Lejeune, NC 28542-0004

Phone: (910) 451-5068

Tank Owner: Same as above

Address: Same as above

Phone: Same as above

Property Occupant: Same as above

Address: MCB Camp Lejeune, NC

Phone: None

Consultant/Contractor: Sovereign Consulting Inc.

Address: 405 Oakmeads Crescent, Suite 1

Virginia Beach, VA 23462

Phone: (757) 456-5093

Release Information

Date Discovered: June 14, 1994

Latitude:

34° 54' 84" N

Longitude:

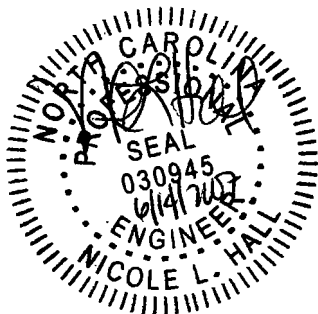
77° 21' 48.96" W

Estimated Quantity of Release: Unknown

Cause of Release: Leaking underground storage tank system

Source of Release (Piping/UST): UST and associated system

Sizes and contents of UST system(s) from which the release occurred: The former UST was a 500-gallon diesel tank.



I, Nicole L. Hall, a Professional Engineer for Sovereign Consulting Inc., do certify that the information contained in this report is correct and accurate to the best of my knowledge.

2.0 INTRODUCTION

The purpose of this report is to summarize data from a recent groundwater gauging and sampling event at the Building BB-190 site aboard MCB Camp Lejeune, North Carolina. This data was collected in February 2007. The project's scope of work entailed gauging of 17 site monitoring wells (each are preceded by the prefix USTBB190) – MW01-MW17, as well as a nearby water supply well, PSWBB47. Groundwater samples from monitoring wells MW02, MW03, MW07, MW08, MW12, MW15, MW16, MW17, and water supply well PSWBB47 were also collected during the February 2007 event. Analyses run included EPA Methods 602 + Xylenes, 625 + 10 largest non-target peaks, and the MADEP methods. Results of Sovereign's 2007 gauging and sampling event are presented in this report.

3.0 SITE HISTORY

Building BB-190 is located in the Courthouse Bay area of MCB Camp Lejeune off of Marines Road. It is an active water treatment plant, and an active potable water supply well, PSWBB47, is located approximately 100 feet north of Building BB-190.

The former 500-gallon diesel UST located at the subject site was used to store diesel fuel for heat production. The tank system was abandoned in May 1994. The tank closure report states the delivery and vent lines servicing the UST were disconnected and capped, and the tank was abandoned in place, after appropriate cleaning, by pumping it full with a concrete slurry. Two soil samples were collected during tank closure activities. Results showed the presence of TPH-GRO and DRO above state action levels in one of the two samples.

As a result, a comprehensive site assessment was conducted at the site by Richard Catlin and Associates (now known as Catlin Engineers and Scientists, CATLIN) in 1995. The report was performed in order to determine the magnitude and extent of soil and ground water contamination associated with the former UST, identify and delineate possible free product accumulation, if present, and assess the potential for exposure to possible subsurface petroleum related contaminants. Two areas exhibited soil TPH concentrations above action levels during the CSA - one in the vicinity of monitoring well MW16 and the other in the vicinity of former UST BB-190-1. Of these two areas, only soils in the vicinity of the former UST exhibited soil TPH concentrations above the Final Clean-up Level calculated at 120 ppm as TPH-Gasoline. Free product was not identified during the CSA. Dissolved phase constituents, however, were detected in groundwater at the site.

Due to soil and groundwater contamination, the CSA recommended a CAP be prepared to address contamination at the site. The 1996 CATLIN CAP recommended biosparging to address groundwater contamination, using a combination of horizontal and vertical biosparge wells. To address vadose zone soil contamination and to collect vapors from the biosparge wells, the CAP proposed soil vapor extraction using horizontal soil vapor extraction wells. The biosparge/soil vapor extraction system was subsequently installed by J.A. Jones in October 1998. The system included one horizontal biosparge well, four vertical biosparge wells, and two horizontal soil vapor extraction wells.

The remediation system operated from October 1998 until December 1999 when the system was shut down based on low contaminant concentrations. A baseline groundwater sampling event was conducted in August 1998. Monthly groundwater sampling events were conducted during the first quarter of system operation (November 1998, December 1998, and January 1999), after which groundwater sampling was conducted quarterly (April, July, and October 1999). Following the October 1999 sampling event, most wells had not exhibited detectable concentrations of any dissolved phase contaminants. In addition, only the two monitoring wells located closest to the former UST (wells MW07 and MW16) exhibited constituent concentrations above NCGWQSs (limited to benzene and/or ethylbenzene).

Following system deactivation in December 1999, post-operation groundwater monitoring was conducted quarterly during the months of January, April, July, and October 2000. Data from the post-operation monitoring indicated no free product was present, and dissolved phase constituents remained below detectable concentrations at most site wells. Wells MW07 and MW16 were the only wells that exhibited contaminants above NCGWQSs (again limited to benzene and/or ethylbenzene).

In September 2001, five soil samples were collected from five borings advanced in areas where previous investigations had identified elevated TPH concentrations in vadose zone soils. Only one of the five soil samples contained detectable contamination concentrations. These concentrations, however, were all were below NCDENR established soil-to-groundwater maximum soil contaminant concentrations. J.A. Jones generated a May 2002 monitoring report documenting the remediation system operation, groundwater monitoring program (during and post system operation), and 2001 soil sampling event. The report indicated the site qualified for a low risk classification and recommended the site be considered for No Further Action status by NCDENR.

In a response letter dated July 10, 2002, NCDENR denied the Request for No Further Action due to the close proximity of the site to potable water supply well PSWBB47. The supply well is located on the northern portion of the site approximately 100 feet from the former UST. NCDENR recommended that groundwater monitoring be continued at the site, and that the monitoring program should include water supply well PSWBB47. Alternatively, NCDENR recommended that the potable water supply well be properly abandoned, and a well abandonment record be submitted to NCDENR.

Follow on gauging and sampling of the site's 17 monitoring wells, as well as the nearby potable water supply well, was conducted by EEI in both June 2004 and 2005. Sampling was not performed in 2003 due to funding issues. There was no measurable free detected during the June 2004 monitoring event. In addition, no contaminants were detected in the water supply well, PDWBB47, or in the site's three deep monitoring wells. Contamination above NCGWQSs were detected only in the two wells closest to the former UST, MW07 and MW16. Contaminant concentrations were below GCLs. EEI also gauged and sampled the site in June 2005. Findings were the same as those in the June 2004 event with contaminant concentrations being slightly lower.

The 2006 monitoring program was conducted by Sovereign in May 2006. Site activities included well gauging of the 17 site monitoring wells, as well as groundwater sampling from the 17 monitoring wells and from potable water supply well PSWBB47. No measurable free product was detected during the May 2006 monitoring event. In addition, laboratory analysis did not detect any target analyte in potable water supply well PSWBB47. Only two shallow monitoring wells at the site, MW07 and MW16, exhibited contaminant concentrations above NCGWQSs in 2006. Each well contained naphthalene, C₅-C₈ aliphatics, and C₉-C₂₂ aromatics at levels above their applicable groundwater quality standards. None, however, were above the GCLs, where established. No target analytes were detected in the three deep monitoring wells at the site.

Sovereign carried out the 2007 monitoring event on February 5, 2007. As in 2006, Sovereign gauged and sampled monitoring wells associated with BB-190, as well as the potable water supply well. This report outlines and describes site activities as performed by Sovereign during the 2007 gauging and sampling event.

4.0 GAUGING AND SAMPLING RESULTS

The 2007 field program for the Building BB-190 site consisted of a one time gauging event of seventeen site wells (MW01 through MW17) and a one time groundwater sampling event of eight monitoring wells. Potable water supply well, PSWBB47, was also sampled. Activities were conducted in accordance with NCDENR guidance.

4.1 WELL GAUGING

Monitoring wells MW02 through MW17 were gauged on February 5, 2007. An attempt was made to gauge MW01; however, field personnel were unable to cut the lock to the well rendering it inaccessible. Gauging data is summarized in Table 2. Wells were gauged using an interface probe to measure the depth to water and depth to product (if present). Depth to water values ranged from 3.65 feet to 13.20 feet below TOC. No measurable free product was detected at any site well designated for gauging during the 2007 monitoring program.

Top of casing elevations and DTW values were used to obtain groundwater elevations at the site. Figure 3 shows shallow groundwater elevations. From the map, groundwater generally flows in a southwesterly direction, which is consistent with the direction observed from previous investigations.

4.2 GROUNDWATER SAMPLING

Groundwater sampling was also conducted at the site. Annual groundwater samples were collected during the February 2007 event from monitoring wells MW02, MW03, MW07, MW08, MW12, MW15, MW16, and MW17, as well as potable water supply well PSWBB47. Sampling was reduced to these nine wells based upon the absence of contaminants in historical data from the remainder of site monitoring wells (MW01, MW04, MW05, MW06, MW09, MW10, MW11, MW13, and MW14).

One duplicate sample was collected from well MW16 and a laboratory supplied trip blank was submitted for analysis. Prior to sampling, wells were purged of one well casing volume of water using a peristaltic pump with connected polyethylene discharge tubing and a low flow purging and sampling procedure. Purging of the wells was completed using the techniques described in the NCDENR UST Section *Guidelines for Sampling, Version 1.2*, dated September 1, 2003. Specifically, Sovereign field personnel follow purging completion criteria detailed in Appendix F of the *Guidelines for Sampling*. One option of these criteria state that adequate purging is achieved when three consecutive measurements in which the three parameters listed below are within the stated limits, dissolved oxygen is no greater than 20 percent of saturation at the field measured temperature, and turbidity is no greater than 20 Nephelometric Turbidity Units (NTUs):

1. Temperature: +/- 0.2° C
2. pH: +/- 0.2 Standard Units
3. Specific Conductance: +/- 5.0% of reading

This method is used, as opposed to purging three well volumes, in order to make the most efficient use of time when sampling. As in any scenario, professional judgment is also relied upon in the field during gauging and sampling events. Water quality indicator parameters (pH, temperature, conductivity, oxidation-reduction potential, dissolved oxygen, and turbidity) were measured and recorded. If a well purged to dryness, the well was allowed to recharge before sampling.

Samples were collected after purging using the laboratory-prepared sample bottles, placed on ice, and shipped under proper chain of custody to SGS/Paradigm Analytical Laboratories Inc. (SGS) in Wilmington, North Carolina (NC Certification Number 481). The lab tested the groundwater samples for volatiles via EPA method 602, semivolatiles using EPA method 625, and volatile and extractable petroleum hydrocarbons with the MADEP methods. Laboratory reports and chain of custody documentation are included in Appendix B.

Two of the 8 site monitoring wells did not exhibit target analytes above the laboratory reporting limits – MW03 and MW15. The wells that contained detectable contaminant concentrations were MW02, MW07, MW08, MW12, MW16, and MW17. Laboratory analysis of the sample from water supply well PSWBB47 showed all target analytes were below laboratory quantitation limits.

Four volatile compounds were detected in two wells at the site. Benzene, diisopropyl ether (DIPE), ethylbenzene and total xylenes were detected in monitoring wells MW07 and MW16. The two wells are both screened in the surficial aquifer and located close to and downgradient of the former UST. Contaminant concentrations in the wells were well below the established groundwater standards for the compounds with the exception of benzene. Benzene was detected in MW16 at a concentration of 10.2 µg/L as compared to the 2L standard of 1 µg/L. Benzene was last detected above standards at the site in MW07 in June 2005 and in MW07 and MW16 in June 2004. DIPE was also detected in monitoring wells MW07 and MW16; however, concentrations in both wells were below the NCGWQS of 70 µg/L. Ethylbenzene was detected at 112 µg/L and 108 µg/L in MW07 and MW16, respectively. Total xylenes were also detected in the same wells at concentrations of 77.11 µg/L and 6.61J µg/L. In 2006, MW17 exhibited VOC concentrations (below 2L standards).

The 2007 groundwater sample from MW17, however, did not exhibit any volatiles. None of the other wells sampled, including MW02, MW03, MW08, MW12, MW15, MW17, and potable water supply well PSWBB47, contained detectable volatile contaminant concentrations. Results for the remaining wells were below quantitation limits for all EPA Method 602 target analytes. Volatile organic compound results are summarized in Table 3 and shown on Figure 4.

Nine semi-volatile compounds, acenaphthene, bis(2-chloroisopropyl)ether, bis(2-ethylhexyl)phthalate, diethylphthalate, dimethylphthalate, di-n-butylphthalate, fluorene, naphthalene, and phenanthrene, were detected at the site. This number increased from four in 2006. Acenaphthene was detected in MW02, MW08, MW12, and MW16 at concentrations well below the NCGWQS of 80 µg/L. Five compounds that have not previously been detected at the site were quantified through laboratory analysis - bis(2-chloroisopropyl)ether, bis(2-ethylhexyl)phthalate, diethylphthalate, dimethylphthalate, and di-n-butylphthalate. Monitoring well MW07 exhibited bis(2-chloroisopropyl)ether at a concentration of 16.9 µg/L. There is no established NCGWQS for this compound. Bis(2-ethylhexyl)phthalate was detected in MW12 at a concentration of 1.60J µg/L, which is below the GWQS of 2.5 µg/L. Diethylphthalate, dimethylphthalate, and di-n-butylphthalate were detected in MW12 at concentrations of 2.00J µg/L, 1.90J µg/L, and 1.70J µg/L, respectively. Only dimethylphthalate is considered noncompliant since there is no GWQS for the compound. Dimethylphthalate was also detected in MW07 at a concentration of 3.80J µg/L. Monitoring wells MW02, MW07, MW08, and MW16 contained fluorene, but at concentrations well below the NCGWQS of 280 µg/L. Naphthalene was detected in MW07, MW08, MW16, and MW17 at concentrations of 67.5 µg/L, 1.30J µg/L, 68.3 µg/L, and 1.10J µg/L, respectively. The naphthalene concentrations in monitoring wells MW07 and MW16 were above the groundwater quality standard of 21 µg/L. Phenanthrene was also detected at the site in monitoring wells MW07 and MW16. None of the concentrations, however, were above the NCGWQS of 210 µg/L. No semi-volatile compounds were detected in the groundwater sample from PSWBB47.

Each well sampled exhibited one or more tentatively identified compounds (TICs). TICs are substances not on the target compound list, and not all TICs are identified and quantitated using individual standards. All TIC quantitations are estimated. Monitoring wells MW02, MW08, MW12, MW15, and MW17 contained unknown TICs. Monitoring well MW03 contained an unknown TIC and Benzenesulfonamide, 4-methyl. A total of ten benzene based compounds, including 1,2,4-trimethylbenzene, were identified in MW07 with a total TIC concentration of 755.30 µg/L. There were also ten compounds identified in MW16 with a total TIC concentration of 356 µg/L. Finally, two unknown TICs were detected in water supply well PSWBB47 in the amount of 24.1 µg/L. Semivolatile compound results are summarized in Table 4 and shown on Figure 5.

MADEP constituents were also detected in two wells at the site – monitoring wells MW07 and MW16. The C₅-C₈ aliphatics and C₉-C₂₂ aromatics concentrations were detected in the wells at concentration above the NCGWQSs. Monitoring wells MW07 and MW16 contained C₅-C₈ aliphatics concentrations of 640 µg/L and 360 µg/L, respectively. Only the MW07 C₅-C₈ concentration exceeded the NCGWQS of 420 µg/L. The two wells also

exhibited concentrations of C₉-C₂₂ aromatics at 1,320 µg/L and <330 µg/L, as well as C₉-C₁₈ aliphatics concentrations of <1,200 µg/L and <680 µg/L. The C₉-C₁₈ aliphatics concentrations were below the applicable groundwater quality standard of 4,200 µg/L, while the two wells were noncompliant with the C₉-C₂₂ aromatic standard of 210 µg/L. There were no detections of C₁₉-C₃₆ aliphatics in any site well, and the supply well, PSWBB47, did not exhibit any MADEP constituents.

The duplicate sample was obtained from MW16. The duplicate results closely mirrored the named groundwater sample results. The laboratory supplied trip blank was also free of target analytes. The method blank for the EPA Method 625 analysis, however, contained bis(2-ethylhexyl)phthalate.

Overall, the site continues to display a downward trend in contaminant concentrations as compared to pre-remediation conditions. The number of volatiles detected at the site, however, increased in 2007 as evidenced by the presence of DIPE in MW07 and MW16. Benzene was also detected in MW16 above the NCGWQS. The well last exhibited benzene in 2004. Semi-volatile contaminants at the site were present in generally the same orders of magnitude as compared to 2006 data. Five new semi-volatile compounds, however, were detected that have not been in the past. Those are bis(2-chloroisopropyl)ether, bis(2-ethylhexyl)phthalate, diethylphthalate, dimethylphthalate, and di-n-butylphthalate. Those compounds from the phthalate family are common additives to make plastics more flexible. It is possible that the compounds originated from the PVC well piping. Bis(2-chloroisopropyl)ether, however, is a solvent constituent. MADEP constituents at the site were only present in the groundwater samples obtained from MW07 and MW16, which has been the case over the last several monitoring events.

Current monitoring data from the 2007 event shows an overall decrease in concentrations as compared to 2006 data, with the exception of the benzene hit in MW16 (10.2 µg/L). An overview similar to that performed in the 2006 and 2005 annual reports shows the following information and compares the most recent data to the last three years. Groundwater contaminant concentrations remain well below pre-remediation conditions and significantly below GCLs.

Maximum Detected Concentrations

Analyte	NCGWQS	GCL	Pre-Remediation 1995	Immediately following Deactivation (Jan 2000)	Ten Months after Deactivation (Oct 2000)	2004 Data	2005 Data	2006 Data	Current Data (2007)
Benzene	1	5000	3210	31	5	4.81	2.86	ND	10.2
Ethylbenzene	550	84,500	895	23	68	267	151	214	112
Total Xylenes	530	87,500	2390	19	11	671	419.5	284.7	77.11
Naphthalene	21	15,500	423	ND	17	113	72.4	151	71.4
Benzo(a)pyrene	0.00479	1.5	37.2	ND	ND	ND	ND	ND	ND

Concentrations are expressed in micrograms per liter

ND indicates the analyte was not detected at the laboratory detection limit.

(1995 data from Catlin, 1995; 2000 data from Jones, 2002; 2004/2005 data from EEI, 2004/2005, 2006 data from Sovereign)

Historical groundwater sampling data from previous annual reports can be found in Appendix A for comparison.

5.0 RECEPTOR SURVEY

Sovereign reassessed site conditions and concluded that the receptor survey previously completed by J.A. Jones in the May 2002 annual monitoring report still applies. Sovereign updated a risk classification and land use form as part of the 2006 monitoring report. Both forms can be found in the 2006 report. There has been no change in receptor impact during the current monitoring period, and there have been no changes to land use of the site or the immediate surrounding areas.

6.0 CONCLUSIONS AND RECOMMENDATIONS

Based on historical data and fieldwork and laboratory analytical data gathered during the 2007 monitoring period, the following conclusions and recommendations are presented:

1. Surficial aquifer groundwater flows to the southwest across the site, consistent with previous investigations. DTW values in site monitoring wells ranged from 3.65 feet to 13.20 feet below TOC.
2. No measurable free product was detected during the February 2007 monitoring event.
3. No target analytes were detected in potable water supply well PSWBB47, indicating there has been no impact to this well.
4. Three shallow monitoring wells at the site, MW07, MW12, and MW16, exhibited contaminant concentrations above NCGWQs. Monitoring well MW07 was the most impacted well with noncompliant concentrations of bis(2-chloroisopropyl)ether, dimethylphthalate, naphthalene, C₅-C₈ Aliphatics, and C₉-C₂₂ Aromatics. MW12 contained dimethylphthalate, and MW16 contained benzene, naphthalene, and C₉-C₂₂ Aromatics above their applicable NCGWQs. None of the concentrations, however, were above the GCLs, where established. Note that bis(2-chloroisopropyl)ether and dimethylphthalate do not have 2L standards.
5. No target analytes were detected in deep monitoring well MW15 (screened in the groundwater of the limestone unit), located adjacent to the near source surficial aquifer well MW07.
6. Previous investigations indicated constituent concentrations in soil are below NCDENR Soil-to-Groundwater Maximum Contaminant Concentrations.

Since this site is classified by NCDENR as high risk due to the close proximity of active potable water supply well PSWBB47 and given the presence of groundwater contamination, Sovereign recommends MCB Camp Lejeune continue annual groundwater monitoring and reporting at the site. The sampling program should include the current wells - eight site monitoring wells (MW02, MW03, MW07, MW08, MW12, MW15, MW16, and MW17), as well as water supply well PSWBB47.

The benzene concentration in MW16 and bis(2-chloroisopropyl)ether concentration in MW07 should be tracked during the next monitoring event to determine if they are originating from a new and/or separate source. Any increase in the compounds should be further evaluated.

In addition, monitoring wells MW07 and MW16 have historically been the two wells at the site that continually display noncompliant contaminant concentrations. In order to address the contamination in these two wells, additional remediation could be implemented to assist in contaminant degradation. For example, the application of iSOC®, which stands for in situ Submerged Oxygen Curtain technology, could be employed. iSOC® is a groundwater bioremediation delivery system for introducing supersaturated oxygen (or other gaseous substrates) into groundwater. It is a low cost technology for supersaturating the ground water to enhance natural attenuation and can be used for polishing.

7.0 REFERENCES

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TABLES

TABLE 1
WELL CONSTRUCTION INFORMATION
 Incident Number and Name: 22793 - Building BB-190

Monitoring Well	Date Installed	Well Depth (feet below TOC)	Top of Casing Elevation (feet)	Well Type
USTBB190-MW01	3/15/1995	15	12.92	II
USTBB190-MW02	3/15/1995	15	11.46	II
USTBB190-MW03	3/15/1995	15	13.65	II
USTBB190-MW04	3/16/1995	15	13.58	II
USTBB190-MW05	3/16/1995	10	11.61	II
USTBB190-MW06	3/16/1995	10	9.86	II
USTBB190-MW07	3/22/1995	15	10.88	II
USTBB190-MW08	3/23/1995	15	13.63	II
USTBB190-MW09	3/23/1995	15	13.48	II
USTBB190-MW10	3/24/1995	15	10.00	II
USTBB190-MW11	3/24/1995	15	12.84	II
USTBB190-MW12	3/24/1995	13.5	12.18	II
USTBB190-MW13	3/20/1995	50	13.40	III
USTBB190-MW14	3/24/1995	48.5	9.88	III
USTBB190-MW15	3/24/1995	50	11.13	III
USTBB190-MW16	3/23/1995	36	10.94	Pumping Well
USTBB190-MW17	Unknown	15	10.83	II

- Source: CATLIN CSA 1995; well depths per well construction records; Top of Casing elevations taken from Sovereign Consulting Well Survey January 2007

TABLE 2
GROUNDWATER ELEVATION AND PRODUCT THICKNESS DATA
FEBRUARY 2007

Incident Number and Name: 22793 - Building BB-190

Monitoring Well	Top of Casing Elevation (feet)	Depth to Water (DTW)	Groundwater Elevation (feet)	Product Thickness (feet)
		02/05/07	02/05/07	02/05/07
USTBB190-MW01	12.92	NM	Not Calculated	NM
USTBB190-MW02	11.46	3.65	7.81	--
USTBB190-MW03	13.65	7.00	6.65	--
USTBB190-MW04	13.58	5.50	8.08	--
USTBB190-MW05	11.61	5.92	5.69	--
USTBB190-MW06	9.86	4.46	5.40	--
USTBB190-MW07	10.88	4.17	6.71	--
USTBB190-MW08	13.63	6.18	7.45	--
USTBB190-MW09	13.48	5.25	8.23	--
USTBB190-MW10	10.00	4.70	5.30	--
USTBB190-MW11	12.84	7.55	5.29	--
USTBB190-MW12	12.18	3.68	8.50	--
USTBB190-MW13	13.40	13.20	0.20	--
USTBB190-MW14	9.88	8.10	1.78	--
USTBB190-MW15	11.13	9.25	1.88	--
USTBB190-MW16	10.94	4.95	5.99	--
USTBB190-MW17	10.83	4.55	6.28	--
PSWBB47	Unknown	NM	Not Calculated	--

- NM = Well not measured; well not accessible during the event.
- Not Calculated due to insufficient data or well not measured.
- Top of Casing elevations taken from Sovereign Consulting Well Survey January 2007
- "--"= free product not present during gauging event.

TABLE 3
SUMMARY OF GROUNDWATER SAMPLING RESULTS
 2006-2007
 Incident Number and Name: 22793 – Building BB-190
Analytical Method: EPA Method 602

Contaminant of Concern			Benzene	Diisopropyl ether (DIPE)	Ethylbenzene	Methyl-tert butyl ether (MTBE)	Toluene	Total Xylenes
Well ID	Sample ID	Date Collected						
USTBB190-MW01	USTBB190-MW01	NS	NS	NS	NS	NS	NS	NS
USTBB190-MW02	USTBB190-MW02	2/5/2007	<1.00	<1.00	<1.00	<2.00	<1.00	<2.00
USTBB190-MW03	USTBB190-MW03	2/5/2007	<1.00	<1.00	<1.00	<2.00	<1.00	<2.00
USTBB190-MW04	USTBB190-MW04	NS	NS	NS	NS	NS	NS	NS
USTBB190-MW05	USTBB190-MW05	NS	NS	NS	NS	NS	NS	NS
USTBB190-MW06	USTBB190-MW06	NS	NS	NS	NS	NS	NS	NS
USTBB190-MW07	USTBB190-MW07	2/5/2007	<5.00	5.31	112	<10.0	<5.00	77.11J
USTBB190-MW08	USTBB190-MW08	2/5/2007	<1.00	<1.00	<1.00	<2.00	<1.00	<2.00
USTBB190-MW09	USTBB190-MW09	NS	NS	NS	NS	NS	NS	NS
USTBB190-MW10	USTBB190-MW10	NS	NS	NS	NS	NS	NS	NS
USTBB190-MW11	USTBB190-MW11	NS	NS	NS	NS	NS	NS	NS
USTBB190-MW12	USTBB190-MW12	2/5/2007	<1.00	<1.00	<1.00	<2.00	<1.00	<2.00
USTBB190-MW13	USTBB190-MW13	NS	NS	NS	NS	NS	NS	NS
USTBB190-MW14	USTBB190-MW14	NS	NS	NS	NS	NS	NS	NS
USTBB190-MW15	USTBB190-MW15	2/5/2007	<1.00	<1.00	<1.00	<2.00	<1.00	<2.00
USTBB190-MW16	USTBB190-MW16	2/5/2007	10.2	3.75J	108	<10.0	<5.00	6.61J
USTBB190-MW17	USTBB190-MW17	2/5/2007	<1.00	<1.00	<1.00	<2.00	<1.00	<2.00
PSWBB47	PSWBB47	2/5/2007	<1.00	<1.00	<1.00	<2.00	<1.00	<2.00
Duplicate	Duplicate	2/5/2007	9.88	4.19J	107	<10.0	<5.00	6.66J
2L Standard (µg/l)			1	70	550	200	1,000	530
GCL (µg/l)			5,000	70,000	84,500	200,000	257,500	87,500

- All results reported in µg/l
- µg/L = micrograms per liter
- GCL = gross contamination level
- BQL = Below Quantitation Limits; see laboratory report for specific limits.
- <# = less than the laboratory reporting limit.
- **BOLD** = detected contaminant concentration.
- Duplicate sample obtained from MW16.
- NS – Not sampled; well taken out of sampling plan as no contaminants historically present.

TABLE 4
SUMMARY OF GROUNDWATER SAMPLING RESULTS 2006-2007

Analytical Method: EPA Method 625

Incident Number and Name: 22793 – Building BB-190

Contaminant of Concern			Acenaphthene	Bis(2-chloroisopropyl)ether	Bis(2-ethylhexyl)phthalate	Diethylphthalate	Dimethylphthalate	Di-n-butylphthalate+	Fluorene	Naphthalene	Phenanthrene	All Other Compounds	Tentatively Identified Compounds (TICs)
Well ID	Sample ID	Date Collected											
USTBB190-MW01	USTBB190-MW01	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
USTBB190-MW02	USTBB190-MW02	2/5/2007	6.20J	<10.0	<10.0	<10.0	<10.0	<10.0	2.80J	<10.0	<10.0	BQL	9.12
USTBB190-MW03	USTBB190-MW03	2/5/2007	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	BQL	18.1
USTBB190-MW04	USTBB190-MW04	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
USTBB190-MW05	USTBB190-MW05	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
USTBB190-MW06	USTBB190-MW06	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
USTBB190-MW07	USTBB190-MW07	2/5/2007	<10.0	16.9	<10.0	<10.0	3.80J	<10.0	1.80J	67.5	1.80J	BQL	755.30
USTBB190-MW08	USTBB190-MW08	2/5/2007	5.00J	<10.0	<10.0	<10.0	<10.0	<10.0	1.40J	1.30J	<10.0	BQL	7.44
USTBB190-MW09	USTBB190-MW09	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
USTBB190-MW10	USTBB190-MW10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
USTBB190-MW11	USTBB190-MW11	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
USTBB190-MW12	USTBB190-MW12	2/5/2007	2.30J	<10.0	1.60J	2.00J	1.90J	1.70J	<10.0	<10.0	<10.0	BQL	10.2
USTBB190-MW13	USTBB190-MW13	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
USTBB190-MW14	USTBB190-MW14	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
USTBB190-MW15	USTBB190-MW15	2/5/2007	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	BQL	10.5
USTBB190-MW16	USTBB190-MW16	2/5/2007	2.40J	<10.0	<10.0	<10.0	<10.0	<10.0	1.80J	68.3	1.40J	BQL	356
USTBB190-MW17	USTBB190-MW17	2/5/2007	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	1.10J	<10.0	BQL	10.3
PSWBB47	PSWBB47	2/5/2007	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	BQL	24.1
Duplicate	Duplicate	2/5/2007	2.50J	<10.0	<10.0	<10.0	<10.0	<10.0	2.00J	71.4	1.40J	BQL	363.6
2L Standard (µg/l)			80	NE	2.5	5,000	NE	700	280	21	210	Varies	NA
GCL (µg/l)			2,120	NE	2,500	NE	NE	NE	950	15,500	410	Varies	NA

- All results reported in µg/l; µg/L =micrograms per liter
- GCL = gross contamination level
- BQL = Below Quantitation Limits; see laboratory report for specific limits.
- J = Detected below the laboratory quantitation limit.
- **BOLD** = detected contaminant concentration.
- **BOLD** and **shaded** = detected contaminant concentration above the NCGWQS.
- Duplicate sample obtained from MW16.

- NS = Not Sampled.
- NE = Not Established.
- <# = less than the laboratory reporting limit.
- NA = Not Applicable.

TABLE 5
SUMMARY OF GROUNDWATER SAMPLING RESULTS
2006-2007

Incident Number and Name: 22793 – Building BB-190

Analytical Method: MADEP Method VPH/EPH

Contaminant of Concern →			C ₅ -C ₈ Aliphatics	C ₉ -C ₁₂ Aliphatics	C ₉ -C ₁₀ Aromatics	C ₉ -C ₁₈ Aliphatics	C ₁₉ -C ₃₆ Aliphatics	C ₁₁ -C ₂₂ Aromatics
Well ID	Sample ID	Date Collected						
USTBB190-MW01	USTBB190-MW01	NS	NS	NS	NS	NS	NS	NS
USTBB190-MW02	USTBB190-MW02	2/5/2007	<100	<100	<100	<100	<100	<100
USTBB190-MW03	USTBB190-MW03	2/5/2007	<100	<100	<100	<100	<100	<100
USTBB190-MW04	USTBB190-MW04	NS	NS	NS	NS	NS	NS	NS
USTBB190-MW05	USTBB190-MW05	NS	NS	NS	NS	NS	NS	NS
USTBB190-MW06	USTBB190-MW06	NS	NS	NS	NS	NS	NS	NS
USTBB190-MW07	USTBB190-MW07	2/5/2007	640	1,100	1,200	<100	<100	120
USTBB190-MW08	USTBB190-MW08	2/5/2007	<100	<100	<100	<100	<100	<100
USTBB190-MW09	USTBB190-MW09	NS	NS	NS	NS	NS	NS	NS
USTBB190-MW10	USTBB190-MW10	NS	NS	NS	NS	NS	NS	NS
USTBB190-MW11	USTBB190-MW11	NS	NS	NS	NS	NS	NS	NS
USTBB190-MW12	USTBB190-MW12	2/5/2007	<100	<100	<100	<100	<100	<100
USTBB190-MW13	USTBB190-MW13	NS	NS	NS	NS	NS	NS	NS
USTBB190-MW14	USTBB190-MW14	NS	NS	NS	NS	NS	NS	NS
USTBB190-MW15	USTBB190-MW15	2/5/2007	<100	<100	<100	<100	<100	<100
USTBB190-MW16	USTBB190-MW16	2/5/2007	360	580	230	<100	<100	<100
USTBB190-MW17	USTBB190-MW17	2/5/2007	<100	<100	<100	<100	<100	<100
PSWBB47	PSWBB47	2/5/2007	<100	<100	<100	<100	<100	<100
Duplicate	Duplicate	2/5/2007	370	600	240	<100	<100	<100

- All results reported in µg/l
- µg/L =micrograms per liter
- GCL = gross contamination level
- **BOLD** = detected contaminant concentration.
- <# = less than the laboratory reporting limit.
- Duplicate sample obtained from MW16.

TABLE 6
SUMMARY OF GROUNDWATER SAMPLING RESULTS
2006-2007

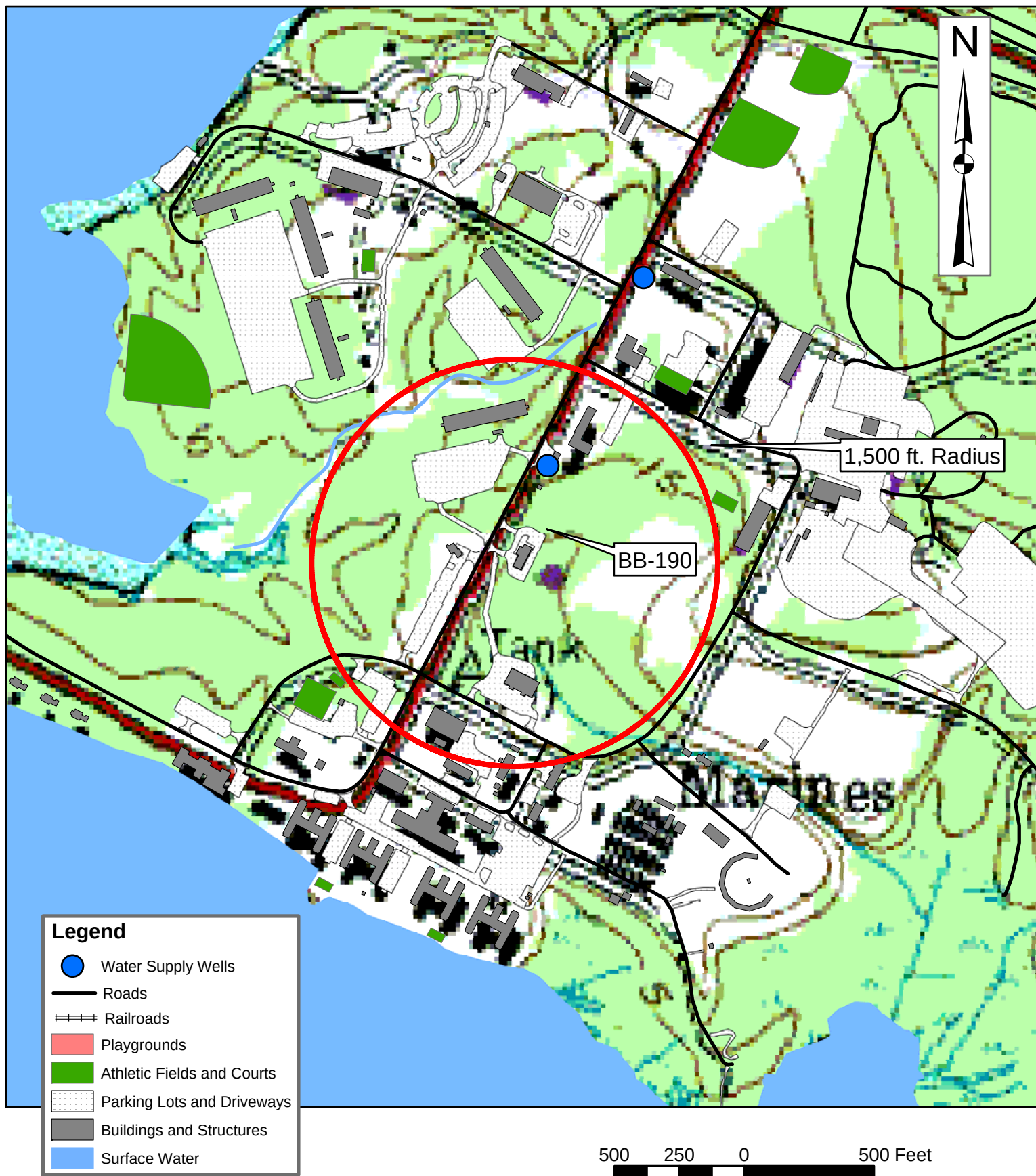
Incident Number and Name: 22793 – Building BB-190

Analytical Method: MADEP Method VPH/EPH as compared to NCDENR 2L GWQS

Contaminant of Concern →			C ₅ -C ₈ Aliphatics	C ₉ -C ₁₈ Aliphatics	C ₁₁ -C ₂₂ Aromatics	C ₁₉ -C ₃₆ Aliphatics
Well ID	Sample ID	Date Collected				
USTBB190-MW01	USTBB190-MW01	NS	NS	NS	NS	NS
USTBB190-MW02	USTBB190-MW02	2/5/2007	<100	<200	<200	<100
USTBB190-MW03	USTBB190-MW03	2/5/2007	<100	<200	<200	<100
USTBB190-MW04	USTBB190-MW04	NS	NS	NS	NS	NS
USTBB190-MW05	USTBB190-MW05	NS	NS	NS	NS	NS
USTBB190-MW06	USTBB190-MW06	NS	NS	NS	NS	NS
USTBB190-MW07	USTBB190-MW07	2/5/2007	640	<1,200	1,320	<100
USTBB190-MW08	USTBB190-MW08	2/5/2007	<100	<200	<200	<100
USTBB190-MW09	USTBB190-MW09	NS	NS	NS	NS	NS
USTBB190-MW10	USTBB190-MW10	NS	NS	NS	NS	NS
USTBB190-MW11	USTBB190-MW11	NS	NS	NS	NS	NS
USTBB190-MW12	USTBB190-MW12	2/5/2007	<100	<200	<200	<100
USTBB190-MW13	USTBB190-MW13	NS	NS	NS	NS	NS
USTBB190-MW14	USTBB190-MW14	NS	NS	NS	NS	NS
USTBB190-MW15	USTBB190-MW15	2/5/2007	<100	<200	<200	<100
USTBB190-MW16	USTBB190-MW16	2/5/2007	360	<680	<330	<100
USTBB190-MW17	USTBB190-MW17	2/5/2007	<100	<200	<200	<100
PSWBB47	PSWBB47	2/5/2007	<100	<200	<200	<100
Duplicate	Duplicate	2/5/2007	370	<700	<340	<100
2L Interim Standard (µg/l)			420	4,200	210	42,000
GCL (µg/l)			NE	NE	NE	NE

- All results reported in µg/l
- µg/L = micrograms per liter
- GCL = Gross Contaminant Level
- NE = Not Established
- <# = less than the laboratory reporting limit.
- **BOLD** = detected contaminant concentration.
- **BOLD** and **shaded** = detected contaminant concentration above the NCGWQS.
- Duplicate sample obtained from MW16.

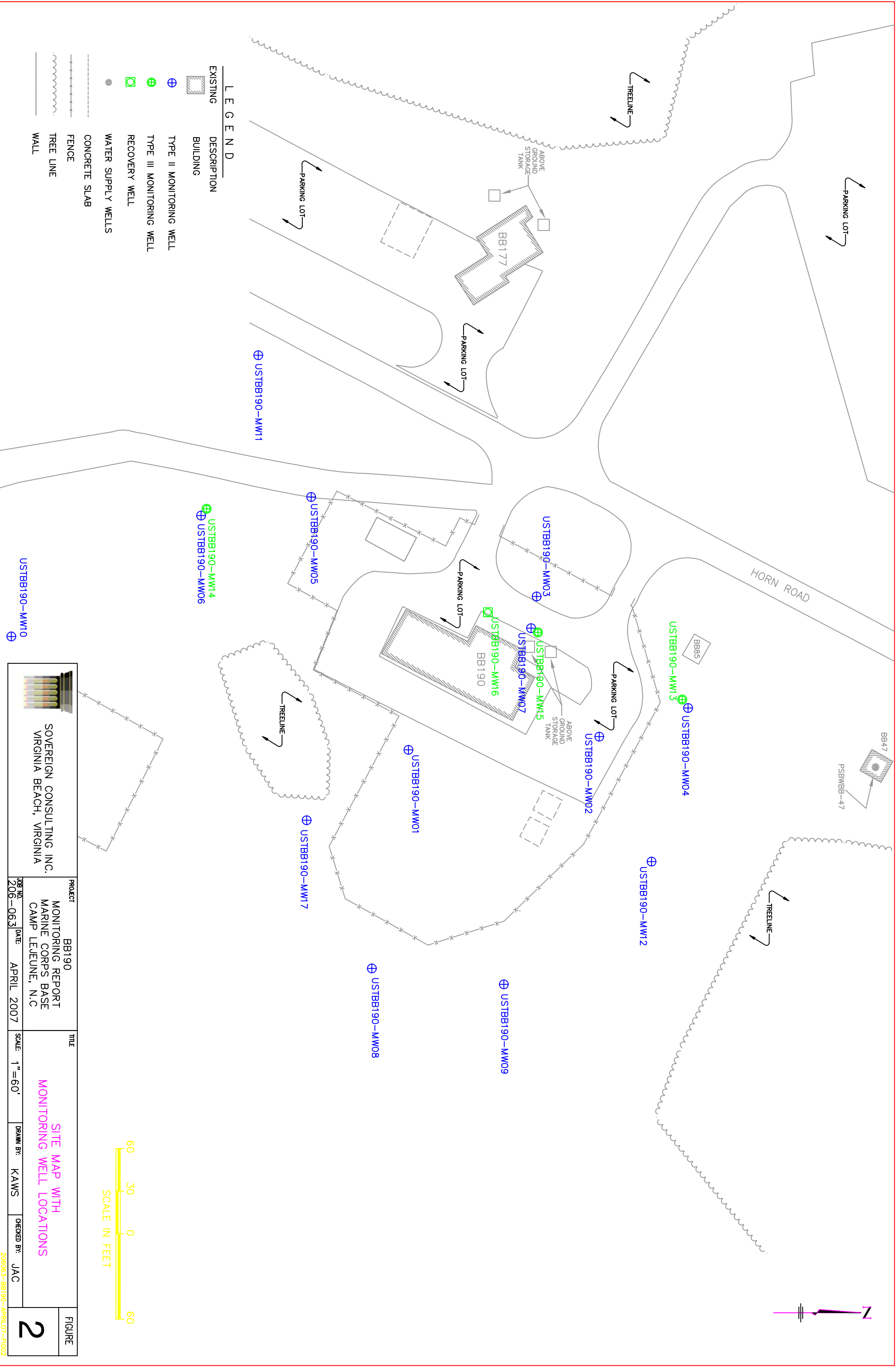
FIGURES

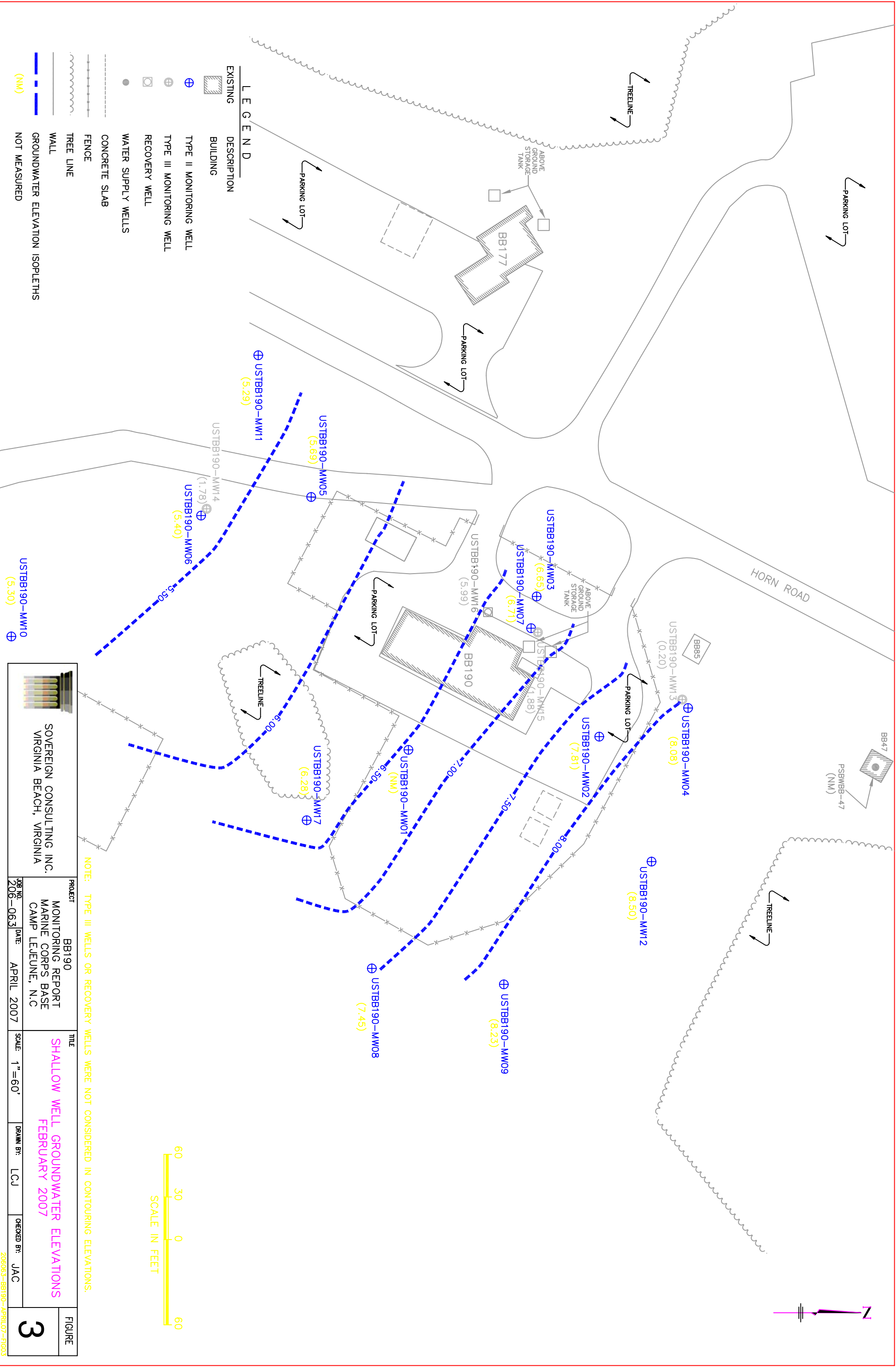


Data Sources: Data Layers provided by MCB Camp Lejeune GIS Office.

SCALE

 SOVEREIGN CONSULTING INC. VIRGINIA BEACH, VIRGINIA	PROJECT BB-190 MARINE CORPS BASE CAMP LEJEUNE, NC		TITLE GENERAL VICINITY TOPOGRAPHIC SITE MAP			FIGURE 1
	JOB NO. 206-063	DATE MAY 2007	SCALE AS SHOWN	DRAWN BY KAWS	CHECKED BY JAC	





APPENDIX A

HISTORICAL DATA

Sample Location Date Sampled	NCGWQS	GCL	MW-1				MW-2				MW-3				MW-4				MW-5				MW-6				MW-7				MW-8				MW-9				MW-10				MW-11			
			6/3/2004	6/7/2005	5/2006	6/3/2004	6/7/2005	5/2006	2/2007	6/3/2004	6/7/2005	5/2006	2/2007	6/2/2004	6/6/2005	5/2006	6/3/2004	6/7/2005	5/2006	6/2/2004	6/6/2005	5/2006	6/3/2004	6/7/2005	5/2006	6/2/2004	6/6/2005	5/2006	6/3/2004	6/7/2005	5/2006	6/2/2004	6/6/2005	5/2006	6/3/2004	6/7/2005	5/2006									
EPA 602 (ug/L)																																														
Benzene	1	5000	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00						
Ethylbenzene	29	29000	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00						
Toluene	1000	257500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00						
Total Xylenes	530	87500	<3.00	<4.00	<3.00	<3.00	<4.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<3.00	<4.00	<3.00	<3.00	<3.00	<4.00	<3.00	<3.00	<3.00	<4.00	<3.00	<4.00	<3.00	<4.00	<3.00	<4.00	<3.00	<4.00	<3.00	<4.00	<3.00	<4.00	<3.00	<4.00	<3.00	<4.00	<3.00	<4.00					
Total BTEX			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND					
EPA 625 (ug/L)																																														
Acenaphthene	80	2120	<10.0	<10.0	<10.0	4.40 J	12.5	4.90 J	6.20 J	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	6.50 J	8.30 J	5.00 J	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0						
Benzo(a)pyrene	0.00479	1.5	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0						
Fluorene	280	950	<10.0	<10.0	<10.0	1.40 J	2.80 J	2.50 J	2.80 J	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	3.60 J	4.40 J	1.40 J	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0						
Naphthalene	21	15500	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	96.5	23.6	99.9	1.80 J	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0						
Phenanthrene	210	410	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	1.60 J	1.80 J	1.80 J	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0						
TICs (total) (2)			NR	9.52 J	NR	NR	5.18 J	NR	9.12	NR	10.69 J	NR	18.1	NR	NR	19.33	NR	55.1 J	13.55	NR	55.1 J	10.61	1372 J (3)	439 J	1725.5	755.3	NR	9.15 J	17.34	7.44	NR	4.63 J	11.79	NR	NR	8.58	NR	4.65 J	7.26							
MADEP VPH (ug/L)																																														
C5-C8 Aliphatics	420	NE	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100							
C19-C12 Aliphatics (4)			<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100						
C9-C10 Aromatics (4)			<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100						
MADEP EPH (ug/L)																																														
C9-C18 Aliphatics (4)	42,000	NE	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100										

(1) DUP is a duplicate sample collected from well MW-13

(2) TIC: Tentatively identified Compound; sum of all TICs is presented; any TIC identified as a specific compound is footnoted seperately

(3) One TIC was identified as 2-Methylnaphthalene, reported at an estimated concentration of 45 ug/L; the NCGWQS for 2-Methylnaphthalene is 14 ug/L; the GCL for 2-Methylnaphthalene is 12,500 ug/L

(4) Laboratory quantiation is performed on each of the indicated hydrocarbon fractions; NCGWQSs are based on the sum of the indicated fractions; the sums for the indicated fractions are presented as MADEP VPH + EPH

Bold type indicates analyte detection

Shaded area in bold indicates analyte detection at a concentration above the NCGWQS

Shaded area in bold *italics* indicates analyte detection at a concentration above the GCL

ug/L: micrograms per liter

<#: not detected at the indicated reporting limit

J: estimated concentration less than the reporting limit

ND: None detetcted; no benzene, toluene, ethylbenzene, or total xylenes were detected

NE: Not Established; a GCL has not been established for the analyte

NR: None Reported; no TICs were identified in the sample

GCL: Gross Contamination Level

NCGWQS: North Carolina Groundwater Quality Standard

Sample Location	NCGWQS	GCL	MW-12				MW-13				MW-14		MW-15				MW-16				MW-17				BB-47						
Date Sampled			6/2/2004	6/6/2005	5/2006	2/2007	6/2/2004	Dup (1) 6/2/2004	6/6/2005	Dup (1) (2) 6/6/2005	5/2006	6/2/2004	6/7/2005	6/3/2004	6/7/2005	5/2006	2/2007	6/3/2004	6/7/2005	5/2006	2/2007	DUP 2/2007	6/3/2004	6/7/2005	5/2006	2/2007	6/8/2004	6/20/2005	Dup (1) 6/20/2004	2/2007	
EPA 602 (ug/L)																															
Benzene	1	5000	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	2.3	<25.0	<25.0	10.2	9.88	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
Ethylbenzene	29	29000	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	267	151	214	108	107	<1.00	<1.00	1.29	<1.00	<1.00	<1.00	<1.00	<1.00	
Toluene	1000	257500	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	3.97	<25.0	<25.0	<25.0	<25.0	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	
Total Xylenes	530	87500	<3.00	<4.00	<4.00	<4.00	<3.00	<4.00	<3.00	<4.00	<4.00	<3.00	<4.00	<3.00	<4.00	<4.00	<4.00	671	419.5	284.7	6.61 J	6.66 J	<3.00	<4.00	6.14	<4.00	<4.00	<4.00	<4.00	<4.00	
Total BTEX			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	944.27	570.5	498.7	124.81	123.54	ND	ND	7.43	ND	ND	ND	ND	ND	ND
EPA 625 (ug/L)																															
Acenaphthene	80	2120	2.10 J	1.70 J	5.10 J	2.30 J	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	2.20 J	<10.0	1.50 J	2.40 J	2.50 J	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	
Benzo(a)pyrene	0.00479	1.5	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	
Fluorene	280	950	<10.0	<10.0	1.30 J	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	2.10 J	2.00 J	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	
Naphthalene	21	15500	<10.0	<10.0	3.80 J	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	113	72.4	151	68.3	71.4	<10.0	<10.0	<10.0	1.10 J	<10.0	<10.0	<10.0	<10.0	
Phenanthrene	210	410	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	1.40 J	1.40 J	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	
TICs (total) (2)			NR	5.16 J	6.57	10.2	8.1 J	NR	5.24 J	9.57 J	5.27	NR	21.6 J	NR	12.8 J	NR	10.5	1572 J	1127.3 J	2342	356	363.6	NR	17.12 J	NR	10.3	19 J	NR	NR	NR	24.1
MADEP VPH (ug/L)																															
C5-C8 Aliphatics	420	NE	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	350	<400	740	360	370	<100	<100	<100	<100	<100	<100	<100	<100	
C19-C12 Aliphatics (4)			<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	3000	910	1500	580	600	<100	<100	<100	<100	<100	<100	<100	<100	
C9-C10 Aromatics (4)			<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	960	730	3100	230	240	<100	<100	<100	<100	<100	<100	<100	<100	
MADEP EPH (ug/L)																															
C9-C18 Aliphatics (4)	42,000	NE	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	190	400	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	
C19-C36 Aliphatics			<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	
C11-C22 Aliphatics (4)			<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	180	200	410	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	
MADEP VPH/EPH (ug/L)																															
C9-C12 + C9-C18 Aliphatics (4)	4200	NE	<200	<200	<200	<200		<200	<200	<200	<200		<200	<200	<200	<200	<200	3190	1310	<1600	<680	<700		<200	<200	<200		<200	<200	<200	
C9-C10 + C11-C22 Aromatics (4)	210	NE	<200	<200	<200	<200		<200	<200	<200	<200		<200	<200	<200	<200	<200	1140	930	3510	<330	<340		<200	<200	<200		<200	<200	<200	

(1) DUP is a duplicate sample collected from well MW-13

(2) TIC: Tentatively Identified Compound; sum of all TICs is presented; any TIC identified as a specific compound is footnoted separately

(3) One TIC was identified as 2-Methylnaphthalene, reported at an estimated concentration of 45 ug/L; the NCGWQS for 2-Methylnaphthalene is 14 ug/L; the GCL for 2-Methylnaphthalene is 12,500 ug/L

(4) Laboratory quantitation is performed on each of the indicated hydrocarbon fractions; NCGWQSs are based on the sum of the indicated fractions; the sums for the indicated fractions are presented as MADEP VPH + EPH

Bold type indicates analyte detection

Shaded area in bold indicates analyte detection at a concentration above the NCGWQS

Shaded area in bold italics indicates analyte detection at a concentration above the GCL

ug/L: micrograms per liter

<#: not detected at the indicated reporting limit

J: estimated concentration less than the reporting limit

ND: None detected; no benzene, toluene, ethylbenzene, or total xylenes were detected

NE: Not Established; a GCL has not been established for the analyte

NR: None Reported; no TICs were identified in the sample

GCL: Gross Contamination Level

NCGWQS: North Carolina Groundwater Quality Standard

APPENDIX B

LABORATORY REPORTS AND CHAIN OF CUSTODY DOCUMENTATION FROM 2007 SAMPLING EVENT



Mr. Chris Murray
Sovereign Consulting
606 Thimble Shoals Rd.
Suite A1
Newport-News VA 23606
Report Number: G650-54
Client Project: NV014

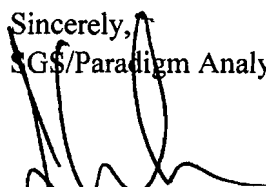
Dear Mr. Murray:

Enclosed are the results of the analytical services performed under the referenced project. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period of five years in the event they are required for future reference. Any samples submitted to our laboratory will be retained for a maximum of thirty (30) days from the date of this report unless other arrangements are requested.

If there are any questions about the report or the services performed during this project, please call SGS/Paradigm at (910) 350-1903. We will be happy to answer any questions or concerns which you may have.

Thank you for using SGS/Paradigm Analytical Labs for your analytical services. We look forward to working with you again on any additional analytical needs which you may have.

Sincerely,
SGS/Paradigm Analytical Laboratories, Inc.


Laboratory Director
J. Patrick Weaver

6/5/2006
Date

**Results for Volatiles**

by GC 602

Client Sample ID: USTBB190-MW01

Client Project ID: NV014

Lab Sample ID: G650-54-1A

Lab Project ID: G650-54

Analyzed By: JTF

Date Collected: 5/10/2006 13:40

Date Received: 5/12/2006

Matrix: Water

Analyte	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
Benzene	BQL	1.00	1	5/22/2006
Diisopropyl ether (DIPE)	BQL	1.00	1	5/22/2006
Ethylbenzene	BQL	1.00	1	5/22/2006
Methyl-tert butyl ether (MTBE)	BQL	2.00	1	5/22/2006
Toluene	BQL	1.00	1	5/22/2006
m/p-Xylene	BQL	2.00	1	5/22/2006
o-Xylene	BQL	2.00	1	5/22/2006

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	39.6	99

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: USTBB190-MW02

Analyzed By: JTF

Client Project ID: NV014

Date Collected: 5/10/2006 12:21

Lab Sample ID: G650-54-2A

Date Received: 5/12/2006

Lab Project ID: G650-54

Matrix: Water

Analyte	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
Benzene	BQL	1.00	1	5/22/2006
Diisopropyl ether (DIPE)	BQL	1.00	1	5/22/2006
Ethylbenzene	BQL	1.00	1	5/22/2006
Methyl-tert butyl ether (MTBE)	BQL	2.00	1	5/22/2006
Toluene	BQL	1.00	1	5/22/2006
m/p-Xylene	BQL	2.00	1	5/22/2006
o-Xylene	BQL	2.00	1	5/22/2006

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	39.5	98.8

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: USTBB190-MW03

Analyzed By: JTF

Client Project ID: NV014

Date Collected: 5/10/2006 10:35

Lab Sample ID: G650-54-3A

Date Received: 5/12/2006

Lab Project ID: G650-54

Matrix: Water

Analyte	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
Benzene	BQL	1.00	1	5/22/2006
Diisopropyl ether (DIPE)	BQL	1.00	1	5/22/2006
Ethylbenzene	BQL	1.00	1	5/22/2006
Methyl-tert butyl ether (MTBE)	BQL	2.00	1	5/22/2006
Toluene	BQL	1.00	1	5/22/2006
m/p-Xylene	BQL	2.00	1	5/22/2006
o-Xylene	BQL	2.00	1	5/22/2006

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	41.7	104

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: USTBB190-MW04

Analyzed By: JTF

Client Project ID: NV014

Date Collected: 5/11/2006 14:05

Lab Sample ID: G650-54-4A

Date Received: 5/12/2006

Lab Project ID: G650-54

Matrix: Water

Analyte	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
Benzene	BQL	1.00	1	5/22/2006
Diisopropyl ether (DIPE)	BQL	1.00	1	5/22/2006
Ethylbenzene	BQL	1.00	1	5/22/2006
Methyl-tert butyl ether (MTBE)	BQL	2.00	1	5/22/2006
Toluene	BQL	1.00	1	5/22/2006
m/p-Xylene	BQL	2.00	1	5/22/2006
o-Xylene	BQL	2.00	1	5/22/2006

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	38.8	97.1

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: USTBB190-MW05

Analyzed By: JTF

Client Project ID: NV014

Date Collected: 5/11/2006 10:10

Lab Sample ID: G650-54-5A

Date Received: 5/12/2006

Lab Project ID: G650-54

Matrix: Water

Analyte	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
Benzene	BQL	1.00	1	5/23/2006
Diisopropyl ether (DIPE)	BQL	1.00	1	5/23/2006
Ethylbenzene	BQL	1.00	1	5/23/2006
Methyl-tert butyl ether (MTBE)	BQL	2.00	1	5/23/2006
Toluene	BQL	1.00	1	5/23/2006
m/p-Xylene	BQL	2.00	1	5/23/2006
o-Xylene	BQL	2.00	1	5/23/2006

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	39.2	98.1

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: USTBB190-MW06

Analyzed By: JTF

Client Project ID: NV014

Date Collected: 5/11/2006 10:29

Lab Sample ID: G650-54-6A

Date Received: 5/12/2006

Lab Project ID: G650-54

Matrix: Water

Analyte	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
Benzene	BQL	1.00	1	5/23/2006
Diisopropyl ether (DIPE)	BQL	1.00	1	5/23/2006
Ethylbenzene	BQL	1.00	1	5/23/2006
Methyl-tert butyl ether (MTBE)	BQL	2.00	1	5/23/2006
Toluene	BQL	1.00	1	5/23/2006
m/p-Xylene	BQL	2.00	1	5/23/2006
o-Xylene	BQL	2.00	1	5/23/2006

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	38.7	96.8

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: USTBB190-MW07

Analyzed By: JTF

Client Project ID: NV014

Date Collected: 5/10/2006 9:59

Lab Sample ID: G650-54-7B

Date Received: 5/12/2006

Lab Project ID: G650-54

Matrix: Water

Analyte	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
Benzene	BQL	5.00	5	5/24/2006
Diisopropyl ether (DIPE)	BQL	5.00	5	5/24/2006
Ethylbenzene	83.4	5.00	5	5/24/2006
Methyl-tert butyl ether (MTBE)	BQL	10.0	5	5/24/2006
Toluene	BQL	5.00	5	5/24/2006
m/p-Xylene	223	10.0	5	5/24/2006
o-Xylene	36.3	10.0	5	5/24/2006

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	45.7	114

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: USTBB190-MW08

Analyzed By: JTF

Client Project ID: NV014

Date Collected: 5/11/2006 10:50

Lab Sample ID: G650-54-8A

Date Received: 5/12/2006

Lab Project ID: G650-54

Matrix: Water

Analyte	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
Benzene	BQL	1.00	1	5/23/2006
Diisopropyl ether (DIPE)	BQL	1.00	1	5/23/2006
Ethylbenzene	BQL	1.00	1	5/23/2006
Methyl-tert butyl ether (MTBE)	BQL	2.00	1	5/23/2006
Toluene	BQL	1.00	1	5/23/2006
m/p-Xylene	BQL	2.00	1	5/23/2006
o-Xylene	BQL	2.00	1	5/23/2006

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	39.8	99.6

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: USTBB190-MW09

Analyzed By: JTF

Client Project ID: NV014

Date Collected: 5/11/2006 13:20

Lab Sample ID: G650-54-9A

Date Received: 5/12/2006

Lab Project ID: G650-54

Matrix: Water

Analyte	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
Benzene	BQL	1.00	1	5/23/2006
Diisopropyl ether (DIPE)	BQL	1.00	1	5/23/2006
Ethylbenzene	BQL	1.00	1	5/23/2006
Methyl-tert butyl ether (MTBE)	BQL	2.00	1	5/23/2006
Toluene	BQL	1.00	1	5/23/2006
m/p-Xylene	BQL	2.00	1	5/23/2006
o-Xylene	BQL	2.00	1	5/23/2006

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	38.7	96.9

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: USTBB190-MW10

Analyzed By: JTF

Client Project ID: NV014

Date Collected: 5/11/2006 11:11

Lab Sample ID: G650-54-10A

Date Received: 5/12/2006

Lab Project ID: G650-54

Matrix: Water

Analyte	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
Benzene	BQL	1.00	1	5/23/2006
Diisopropyl ether (DIPE)	BQL	1.00	1	5/23/2006
Ethylbenzene	BQL	1.00	1	5/23/2006
Methyl-tert butyl ether (MTBE)	BQL	2.00	1	5/23/2006
Toluene	BQL	1.00	1	5/23/2006
m/p-Xylene	BQL	2.00	1	5/23/2006
o-Xylene	BQL	2.00	1	5/23/2006

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	38.9	97.3

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.



Results for Volatiles

by GC 602

Client Sample ID: USTBB190-MW11

Analyzed By: JTF

Client Project ID: NV014

Date Collected: 5/11/2006 9:54

Lab Sample ID: G650-54-11A

Date Received: 5/12/2006

Lab Project ID: G650-54

Matrix: Water

Analyte	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
Benzene	BQL	1.00	1	5/23/2006
Diisopropyl ether (DIPE)	BQL	1.00	1	5/23/2006
Ethylbenzene	BQL	1.00	1	5/23/2006
Methyl-tert butyl ether (MTBE)	BQL	2.00	1	5/23/2006
Toluene	BQL	1.00	1	5/23/2006
m/p-Xylene	BQL	2.00	1	5/23/2006
o-Xylene	BQL	2.00	1	5/23/2006

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	39.2	98

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: USTBB190-MW12

Analyzed By: JTF

Client Project ID: NV014

Date Collected: 5/11/2006 13:21

Lab Sample ID: G650-54-12A

Date Received: 5/12/2006

Lab Project ID: G650-54

Matrix: Water

Analyte	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
Benzene	BQL	1.00	1	5/23/2006
Diisopropyl ether (DIPE)	BQL	1.00	1	5/23/2006
Ethylbenzene	BQL	1.00	1	5/23/2006
Methyl-tert butyl ether (MTBE)	BQL	2.00	1	5/23/2006
Toluene	BQL	1.00	1	5/23/2006
m/p-Xylene	BQL	2.00	1	5/23/2006
o-Xylene	BQL	2.00	1	5/23/2006

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	39.6	99.1

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: USTBB190-MW13

Analyzed By: MJC

Client Project ID: NV014

Date Collected: 5/11/2006 14:40

Lab Sample ID: G650-54-13C

Date Received: 5/12/2006

Lab Project ID: G650-54

Matrix: Water

Analyte	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
Benzene	BQL	1.00	1	5/25/2006
Diisopropyl ether (DIPE)	BQL	1.00	1	5/25/2006
Ethylbenzene	BQL	1.00	1	5/25/2006
Methyl-tert butyl ether (MTBE)	BQL	2.00	1	5/25/2006
Toluene	BQL	1.00	1	5/25/2006
m/p-Xylene	BQL	2.00	1	5/25/2006
o-Xylene	BQL	2.00	1	5/25/2006

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	39.0	97.5

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

Reviewed By: 

GC_LIMS_v2.1

**Results for Volatiles**

by GC 602

Client Sample ID: USTBB190-MW15

Analyzed By: JTF

Client Project ID: NV014

Date Collected: 5/10/2006 11:10

Lab Sample ID: G650-54-14A

Date Received: 5/12/2006

Lab Project ID: G650-54

Matrix: Water

Analyte	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
Benzene	BQL	1.00	1	5/23/2006
Diisopropyl ether (DIPE)	BQL	1.00	1	5/23/2006
Ethylbenzene	BQL	1.00	1	5/23/2006
Methyl-tert butyl ether (MTBE)	BQL	2.00	1	5/23/2006
Toluene	BQL	1.00	1	5/23/2006
m/p-Xylene	BQL	2.00	1	5/23/2006
o-Xylene	BQL	2.00	1	5/23/2006

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	41.5	104

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

Reviewed By: 

GC_LMS_v2.1

**Results for Volatiles**

by GC 602

Client Sample ID: USTBB190-MW16

Analyzed By: JTF

Client Project ID: NV014

Date Collected: 5/10/2006 15:00

Lab Sample ID: G650-54-15B

Date Received: 5/12/2006

Lab Project ID: G650-54

Matrix: Water

Analyte	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
Benzene	BQL	10.0	10	5/24/2006
Diisopropyl ether (DIPE)	BQL	10.0	10	5/24/2006
Ethylbenzene	214	10.0	10	5/24/2006
Methyl-tert butyl ether (MTBE)	BQL	20.0	10	5/24/2006
Toluene	BQL	10.0	10	5/24/2006
m/p-Xylene	260	20.0	10	5/24/2006
o-Xylene	24.7	20.0	10	5/24/2006

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	43.0	107

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

Reviewed By: 

GC_LIMS_v2.1

**Results for Volatiles**

by GC 602

Client Sample ID: USTBB190-MW17

Analyzed By: JTF

Client Project ID: NV014

Date Collected: 5/10/2006 11:23

Lab Sample ID: G650-54-16A

Date Received: 5/12/2006

Lab Project ID: G650-54

Matrix: Water

Analyte	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
Benzene	BQL	1.00	1	5/23/2006
Diisopropyl ether (DIPE)	BQL	1.00	1	5/23/2006
Ethylbenzene	1.29	1.00	1	5/23/2006
Methyl-tert butyl ether (MTBE)	BQL	2.00	1	5/23/2006
Toluene	BQL	1.00	1	5/23/2006
m/p-Xylene	BQL	2.00	1	5/23/2006
o-Xylene	6.14	2.00	1	5/23/2006

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	42.4	106

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: Duplicate

Client Project ID: NV014

Lab Sample ID: G650-54-17A

Lab Project ID: G650-54

Analyzed By: JTF

Date Collected: 5/10/2006 0:00

Date Received: 5/12/2006

Matrix: Water

Analyte	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
Benzene	BQL	1.00	1	5/23/2006
Diisopropyl ether (DIPE)	BQL	1.00	1	5/23/2006
Ethylbenzene	BQL	1.00	1	5/23/2006
Methyl-tert butyl ether (MTBE)	BQL	2.00	1	5/23/2006
Toluene	BQL	1.00	1	5/23/2006
m/p-Xylene	BQL	2.00	1	5/23/2006
o-Xylene	BQL	2.00	1	5/23/2006

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	42.4	106

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: Trip Blank

Client Project ID: NV014

Lab Sample ID: G650-54-18A

Lab Project ID: G650-54

Analyzed By: JTF

Date Collected: 5/10/2006 0:00

Date Received: 5/12/2006

Matrix: Water

Analyte	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
Benzene	BQL	1.00	1	5/23/2006
Diisopropyl ether (DIPE)	BQL	1.00	1	5/23/2006
Ethylbenzene	BQL	1.00	1	5/23/2006
Methyl-tert butyl ether (MTBE)	BQL	2.00	1	5/23/2006
Toluene	BQL	1.00	1	5/23/2006
m/p-Xylene	BQL	2.00	1	5/23/2006
o-Xylene	BQL	2.00	1	5/23/2006

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	38.8	96.9

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: Method Blank

Analyzed By: JTF

Client Project ID:

Date Collected:

Lab Sample ID: VBLK052306B

Date Received:

Lab Project ID:

Matrix: Water

Analyte	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
Benzene	BQL	1.00	1	5/23/2006
Diisopropyl ether (DIPE)	BQL	1.00	1	5/23/2006
Ethylbenzene	BQL	1.00	1	5/23/2006
Methyl-tert butyl ether (MTBE)	BQL	2.00	1	5/23/2006
Toluene	BQL	1.00	1	5/23/2006
m/p-Xylene	BQL	2.00	1	5/23/2006
o-Xylene	BQL	2.00	1	5/23/2006

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	41.2	103

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.



Control Limits for QC Check / Laboratory Control Spike

Method : 601 Spike[ppb] : 10
 Instrument : gc3
 Filename : 052306\003f0101.txt

Compound	ppb	Q(%)	QC Limits		P _s (%)	LCS Limits	
			Lower	Upper		Lower	Upper
Bromodichloromethane	10.9	109.2	76.0	124.0	109	42	172
Bromoform	10.2	102.1	73.5	126.5	102	13	159
Bromomethane	8.9	89.1	58.5	141.5	89	D	144
Carbon tetrachloride	10.4	104.5	68.5	131.5	104	43	143
Chlorobenzene	10.7	106.8	72.0	128.0	107	38	160
Chloroethane	10.7	107.1	77.0	123.0	107	46	137
Chloroform	10.6	106.5	75.0	125.0	106	49	133
Chloromethane	9.2	92.0	59.5	140.5	92	D	193
Dibromochloromethane	10.3	103.3	65.5	134.5	103	24	191
• 1,2-Dibromoethane	10.9	109.1	13.6	186.4	109	D	206
1,2-Dichlorobenzene	10.9	109.4	70.0	130.0	109	D	208
1,3-Dichlorobenzene	10.9	108.8	49.5	150.5	109	7	187
1,4-Dichlorobenzene	11.2	111.7	69.5	130.5	112	42	143
1,1-Dichloroethane	10.4	104.4	84.0	116.0	104	47	132
1,2-Dichloroethane	10.6	105.6	71.5	128.5	106	51	147
1,1-Dichloroethene	9.6	95.6	63.0	137.0	96	28	167
• cis-1,2-Dichloroethene	10.5	104.5	34.4	180.6	105	19	181
trans-1,2-Dichloroethene	10.3	102.8	64.0	136.0	103	38	155
1,2-Dichloropropane	10.8	108.0	74.0	126.0	108	44	156
cis-1,3-Dichloropropene	10.9	109.2	64.0	136.0	109	22	178
trans-1,3-Dichloropropene	10.4	104.5	64.0	136.0	104	22	178
Methylene Chloride	9.9	98.8	77.5	122.5	99	25	162
1,1,2,2-Tetrachloroethane	6.5	64.6	49.0	151.0	65	8	184
Tetrachloroethane	10.6	106.1	70.0	130.0	106	26	162
1,1,1-Trichloroethane	10.5	104.6	71.0	129.0	105	41	138
1,1,2-Trichloroethane	10.9	109.5	78.5	121.5	109	39	136
Trichloroethene	10.6	105.8	77.0	123.0	106	35	146
Trichlorofluoromethane	10.4	104.4	66.5	133.5	104	21	156
Vinyl Chloride	10.6	105.6	68.5	131.5	106	28	163

Method: 602 Spike[ppb]: 10
 Instrument : gc3
 Filename : 052306\003r0101.txt

Compound	ppb	Q(%)	QC Limits		P _s (%)	LCS Limits	
			Lower	Upper		Lower	Upper
Benzene	10.0	100.0	77.0	123.0	100	39	150
Chlorobenzene	10.4	103.5	80.5	119.5	104	55	135
1,2-Dichlorobenzene	10.6	105.7	68.0	132.0	106	37	154
1,3-Dichlorobenzene	10.4	103.8	72.5	127.5	104	50	141
1,4-Dichlorobenzene	10.3	103.0	69.5	130.5	103	42	143
• Diisopropyl ether	9.8	98.0	43.1	156.9	98	30	170
Ethylbenzene	10.7	107.1	63.0	137.0	107	32	160
• MTBE	9.6	95.8	46.8	153.2	96	35	165
Toluene	10.2	102.0	77.5	127.0	102	46	148
• m,p-Xylene	21.1	105.6	11.2	188.8	106	D	239
• o-Xylene	10.6	105.6	47.6	152.4	106	36	164

Flags :

- + = out of QC limits.
- = lab generated limits.
- D = Detected

Reviewed by:

SGS**Control Limits for MS-MSD**

Method : 601 Spike[ppb] : 10
 Instrument : gc3
 Sample : 052306\015f0101.txt
 MS : 052306\017f0101.txt
 MSD : 052306\018f0101.txt

5

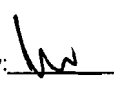
Compound	µg/L			P(%)		P Limits	
	Sam.	MS	MSD	MS	MSD	Lower	Upper
Bromodichloromethane	ND	10.2	12.0	102	120	42	172
Bromoform	ND	9.4	11.0	94	110	13	159
Bromomethane	ND	8.3	8.2	83	82	D	144
Carbon tetrachloride	ND	9.6	11.6	96	116	43	143
Chlorobenzene	ND	9.9	11.8	93	112	38	160
Chloroethane	ND	10.5	10.3	105	103	46	137
Chloroform	ND	9.8	11.8	98	118	49	133
Chloromethane	ND	9.1	9.5	91	95	D	193
Dibromochloromethane	ND	9.6	11.3	96	113	24	191
1,2-Dibromoethane	ND	11.0	12.6	110	126	D	206
1,2-Dichlorobenzene	ND	9.7	11.7	97	117	D	208
1,3-Dichlorobenzene	ND	9.5	11.5	95	115	7	187
1,4-Dichlorobenzene	ND	10.0	11.8	100	118	42	143
1,1-Dichloroethane	ND	9.9	11.8	99	118	47	132
1,2-Dichloroethane	ND	9.9	11.6	99	116	51	147
1,1-Dichloroethene	ND	10.0	12.2	100	122	28	167
cis-1,2-Dichloroethene	ND	10.6	12.5	100	118	19	181
trans-1,2-Dichloroethene	ND	9.9	11.8	99	118	38	155
1,2-Dichloropropane	ND	9.7	11.6	97	116	44	156
cis-1,3-Dichloropropene	ND	10.0	11.7	100	117	22	178
trans-1,3-Dichloropropene	ND	9.6	11.3	96	113	22	178
Methylene Chloride	ND	9.6	11.7	96	117	25	162
1,1,2,2-Tetrachloroethane	ND	9.9	7.1	99	71	8	184
Tetrachloroethane	13.85	19.7	21.0	58	72	26	162
1,1,1-Trichloroethane	ND	9.8	11.7	98	117	41	138
1,1,2-Trichloroethane	ND	10.0	11.7	100	117	39	136
Trichloroethene	ND	10.8	12.7	100	118	35	146
Trichlorofluoromethane	ND	10.4	11.2	104	112	21	156
Vinyl Chloride	ND	10.2	11.1	102	111	28	163

Method: 602 Spike[ppb] : 10
 Instrument : gc3
 Sample : 052306\015r0101.txt
 MS : 052306\017r0101.txt
 MSD : 052306\018r0101.txt

Compound	µg/L			P(%)		P Limits	
	Sam.	MS	MSD	MS	MSD	Lower	Upper
Benzene	ND	9.8	11.8	98	118	39	160
Chlorobenzene	ND	9.8	11.7	98	117	55	135
1,2-Dichlorobenzene	ND	9.7	11.7	96	116	37	164
1,3-Dichlorobenzene	ND	9.4	11.3	94	113	50	141
1,4-Dichlorobenzene	ND	9.4	11.2	83	112	42	143
Diisopropyl ether	ND	9.6	11.5	96	115	30	170
Ethylbenzene	ND	10.2	12.4	102	124	32	160
MTBE	ND	9.8	11.7	98	117	35	165
Toluene	ND	9.8	11.8	98	118	46	148
m,p-Xylene	ND	20.0	24.3	100	122	D	239
o-Xylene	ND	9.8	11.7	98	117	36	164

Flags :

+ = out of QC limits.
 • = lab generated limits.
 D = Detected
 ND = None Detected

Reviewed by: 

**Results for Volatiles**

by GC 602

Client Sample ID: Method Blank

Analyzed By: MJC

Client Project ID:

Date Collected:

Lab Sample ID: VBLK3052506A

Date Received:

Lab Project ID:

Matrix: Water

Analyte	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
Benzene	BQL	1.00	1	5/25/2006
Diisopropyl ether (DIPE)	BQL	1.00	1	5/25/2006
Ethylbenzene	BQL	1.00	1	5/25/2006
Methyl-tert butyl ether (MTBE)	BQL	2.00	1	5/25/2006
Toluene	BQL	1.00	1	5/25/2006
m/p-Xylene	BQL	2.00	1	5/25/2006
o-Xylene	BQL	2.00	1	5/25/2006

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	39.1	97.8

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.



Control Limits for QC Check / Laboratory Control Spike

Method: 602 Spike[ppb]: 10
 Instrument : gc3
 Filename : 052506\002r0101.txt

Compound	ppb	Q(%)	QC Limits		P _s (%)	LCS Limits	
			Lower	Upper		Lower	Upper
Benzene	9.7	96.8	77.0	123.0	97	39	150
Chlorobenzene	9.6	95.5	80.5	119.5	95	55	135
1,2-Dichlorobenzene	9.8	97.6	68.0	132.0	98	37	154
1,3-Dichlorobenzene	9.3	93.4	72.5	127.5	93	50	141
1,4-Dichlorobenzene	9.1	91.3	69.5	130.5	91	42	143
• Diisopropyl ether	9.2	91.7	43.1	156.9	92	30	170
Ethylbenzene	10.0	100.4	63.0	137.0	100	32	160
• MTBE	9.5	94.9	46.8	153.2	95	35	165
Toluene	9.7	96.7	77.5	127.0	97	46	148
• m,p-Xylene	19.9	99.4	11.2	188.8	99	D	239
• o-Xylene	8.9	89.4	47.6	152.4	89	36	164

Flags :

- + = out of QC limits.
- = lab generated limits.
- D = Detected

Reviewed by: 



Control Limits for MS-MSD

Method: 602 Spike[ppb]: 10
 Instrument : gc3
 Sample : 052506\015r0101.txt
 MS : 052506\017r0101.txt
 MSD : 052506\018r0101.txt

Compound	µg/L			P(%)		P Limits	
	Sam.	MS	MSD	MS	MSD	Lower	Upper
Benzene	32.2	41.8	41.6	96	94	39	150
Chlorobenzene	ND	9.9	9.9	99	99	55	135
1,2-Dichlorobenzene	ND	10.2	10.4	100	102	37	154
1,3-Dichlorobenzene	ND	9.9	10.0	98	99	50	141
1,4-Dichlorobenzene	ND	9.6	9.7	95	97	42	143
• Diisopropyl ether	ND	10.1	10.1	99	99	30	170
Ethylbenzene	3.7	14.5	14.4	108	107	32	160
• MTBE	3.0	12.8	12.7	99	98	35	165
Toluene	6.2	16.1	16.0	99	98	46	148
• m,p-Xylene	8.5	29.1	28.9	103	102	D	239
• o-Xylene	1.2	10.7	10.7	95	95	36	164

Flags :

+ = out of QC limits.
 ♦ = lab generated limits.
 D = Detected
 ND = None Detected

Reviewed by: 



VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Sovereign Consulting

Project Name: NV014

Sample Information and Analytical Results	
Sample Identification	USTBB190-MW01
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	05/10/06
Date Received	05/12/06
Date Extracted	05/24/06
Date Analyzed	05/24/06
Dry Weight	
Dilution Factor	1
C ₅ -C ₈ Aliphatics**	< 100 (µg/L)
C ₉ -C ₁₂ Aliphatics**	< 100 (µg/L)
C ₉ -C ₁₀ Aromatics**	< 100 (µg/L)
Surrogate % Recovery - PID	94
Surrogate % Recovery - FID	99

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards.

Lab Info: G650-54-1C

Reviewed By: 



VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Sovereign Consulting

Project Name: NV014

Sample Information and Analytical Results	
Sample Identification	USTBB190-MW02
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	05/10/06
Date Received	05/12/06
Date Extracted	05/24/06
Date Analyzed	05/24/06
Dry Weight	
Dilution Factor	1
C ₅ -C ₈ Aliphatics**	< 100 (µg/L)
C ₉ -C ₁₂ Aliphatics**	< 100 (µg/L)
C ₉ -C ₁₀ Aromatics**	< 100 (µg/L)
Surrogate % Recovery - PID	92
Surrogate % Recovery - FID	97

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards.

Lab Info: G650-54-2D

Reviewed By: 



VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Sovereign Consulting

Project Name: NV014

Sample Information and Analytical Results	
Sample Identification	USTBB190-MW03
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	05/10/06
Date Received	05/12/06
Date Extracted	05/24/06
Date Analyzed	05/24/06
Dry Weight	
Dilution Factor	1
C ₅ -C ₈ Aliphatics**	< 100 (µg/L)
C ₉ -C ₁₂ Aliphatics**	< 100 (µg/L)
C ₉ -C ₁₀ Aromatics**	< 100 (µg/L)
Surrogate % Recovery - PID	98
Surrogate % Recovery - FID	100

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards.

Lab Info: G650-54-3D

Reviewed By: lw



VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Sovereign Consulting

Project Name: NV014

Sample Information and Analytical Results	
Sample Identification	USTBB190-MW04
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	05/11/06
Date Received	05/12/06
Date Extracted	05/25/06
Date Analyzed	05/25/06
Dry Weight	
Dilution Factor	1
C ₅ -C ₈ Aliphatics**	< 100 (µg/L)
C ₉ -C ₁₂ Aliphatics**	< 100 (µg/L)
C ₉ -C ₁₀ Aromatics**	< 100 (µg/L)
Surrogate % Recovery - PID	96
Surrogate % Recovery - FID	100

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards.

Lab Info: G650-54-4B

Reviewed By:



VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Sovereign Consulting

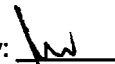
Project Name: NV014

Sample Information and Analytical Results	
Sample Identification	USTBB190-MW05
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	05/11/06
Date Received	05/12/06
Date Extracted	05/25/06
Date Analyzed	05/25/06
Dry Weight	
Dilution Factor	1
C ₅ -C ₈ Aliphatics**	< 100 (µg/L)
C ₉ -C ₁₂ Aliphatics**	< 100 (µg/L)
C ₉ -C ₁₀ Aromatics**	< 100 (µg/L)
Surrogate % Recovery - PID	94
Surrogate % Recovery - FID	100

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards.

Lab Info: G650-54-5D

Reviewed By: 



VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Sovereign Consulting

Project Name: NV014

Sample Information and Analytical Results	
Sample Identification	USTBB190-MW06
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	05/11/06
Date Received	05/12/06
Date Extracted	05/25/06
Date Analyzed	05/25/06
Dry Weight	
Dilution Factor	1
C ₅ -C ₈ Aliphatics**	< 100 (µg/L)
C ₉ -C ₁₂ Aliphatics**	< 100 (µg/L)
C ₉ -C ₁₀ Aromatics**	< 100 (µg/L)
Surrogate % Recovery - PID	96
Surrogate % Recovery - FID	100

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards.

Lab Info: G650-54-6C

Reviewed By: 



VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Sovereign Consulting

Project Name: NV014

Sample Information and Analytical Results	
Sample Identification	USTBB190-MW07
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	05/10/06
Date Received	05/12/06
Date Extracted	05/24/06
Date Analyzed	05/24/06
Dry Weight	
Dilution Factor	1
C ₅ -C ₈ Aliphatics**	430 (µg/L)
C ₉ -C ₁₂ Aliphatics**	1000 (µg/L)
C ₉ -C ₁₀ Aromatics**	1300 (µg/L)
Surrogate % Recovery - PID	100
Surrogate % Recovery - FID	98

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards.

Lab Info: G650-54-7B

Reviewed By: 



VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Sovereign Consulting

Project Name: NV014

Sample Information and Analytical Results	
Sample Identification	USTBB190-MW08
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	05/11/06
Date Received	05/12/06
Date Extracted	05/25/06
Date Analyzed	05/25/06
Dry Weight	
Dilution Factor	1
C ₅ -C ₈ Aliphatics**	< 100 (µg/L)
C ₉ -C ₁₂ Aliphatics**	< 100 (µg/L)
C ₉ -C ₁₀ Aromatics**	< 100 (µg/L)
Surrogate % Recovery - PID	97
Surrogate % Recovery - FID	100

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards.

Lab Info: G650-54-8C

Reviewed By: 



VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Sovereign Consulting

Project Name: NV014

Sample Information and Analytical Results	
Sample Identification	USTBB190-MW09
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	05/11/06
Date Received	05/12/06
Date Extracted	05/25/06
Date Analyzed	05/25/06
Dry Weight	
Dilution Factor	1
C ₅ -C ₈ Aliphatics**	< 100 (µg/L)
C ₉ -C ₁₂ Aliphatics**	< 100 (µg/L)
C ₉ -C ₁₀ Aromatics**	< 100 (µg/L)
Surrogate % Recovery - PID	91
Surrogate % Recovery - FID	97

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards.

Lab Info: G650-54-9C

Reviewed By: [Signature]



VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Sovereign Consulting

Project Name: NV014

Sample Information and Analytical Results	
Sample Identification	USTBB190-MW10
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	05/11/06
Date Received	05/12/06
Date Extracted	05/25/06
Date Analyzed	05/25/06
Dry Weight	
Dilution Factor	1
C ₅ -C ₈ Aliphatics**	< 100 (µg/L)
C ₉ -C ₁₂ Aliphatics**	< 100 (µg/L)
C ₉ -C ₁₀ Aromatics**	< 100 (µg/L)
Surrogate % Recovery - PID	95
Surrogate % Recovery - FID	100

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards.

Lab Info: G650-54-10B

Reviewed By: [Signature]



VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Sovereign Consulting

Project Name: NV014

Sample Information and Analytical Results	
Sample Identification	USTBB190-MW11
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	05/11/06
Date Received	05/12/06
Date Extracted	05/25/06
Date Analyzed	05/25/06
Dry Weight	
Dilution Factor	1
C ₅ -C ₈ Aliphatics**	< 100 (µg/L)
C ₉ -C ₁₂ Aliphatics**	< 100 (µg/L)
C ₉ -C ₁₀ Aromatics**	< 100 (µg/L)
Surrogate % Recovery - PID	97
Surrogate % Recovery - FID	100

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards.

Lab Info: G650-54-11C

Reviewed By:



VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Sovereign Consulting

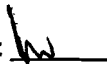
Project Name: NV014

Sample Information and Analytical Results	
Sample Identification	USTBB190-MW12
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	05/11/06
Date Received	05/12/06
Date Extracted	05/25/06
Date Analyzed	05/25/06
Dry Weight	
Dilution Factor	1
C ₅ -C ₈ Aliphatics**	< 100 (µg/L)
C ₉ -C ₁₂ Aliphatics**	< 100 (µg/L)
C ₉ -C ₁₀ Aromatics**	< 100 (µg/L)
Surrogate % Recovery - PID	95
Surrogate % Recovery - FID	100

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards.

Lab Info: G650-54-12B

Reviewed By: 



VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Sovereign Consulting

Project Name: NV014

Sample Information and Analytical Results	
Sample Identification	USTBB190-MW13
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	05/11/06
Date Received	05/12/06
Date Extracted	05/25/06
Date Analyzed	05/25/06
Dry Weight	
Dilution Factor	1
C ₅ -C ₈ Aliphatics**	< 100 (µg/L)
C ₉ -C ₁₂ Aliphatics**	< 100 (µg/L)
C ₉ -C ₁₀ Aromatics**	< 100 (µg/L)
Surrogate % Recovery - PID	94
Surrogate % Recovery - FID	100

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards.

Lab Info: G650-54-13A

Reviewed By: lw



VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Sovereign Consulting

Project Name: NV014

Sample Information and Analytical Results	
Sample Identification	USTBB190-MW15
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	05/10/06
Date Received	05/12/06
Date Extracted	05/24/06
Date Analyzed	05/24/06
Dry Weight	
Dilution Factor	1
C ₅ -C ₈ Aliphatics**	< 100 (µg/L)
C ₉ -C ₁₂ Aliphatics**	< 100 (µg/L)
C ₉ -C ₁₀ Aromatics**	< 100 (µg/L)
Surrogate % Recovery - PID	91
Surrogate % Recovery - FID	97

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards.

Lab Info: G650-54-14C

Reviewed By: 



VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Sovereign Consulting

Project Name: NV014

Sample Information and Analytical Results	
Sample Identification	USTBB190-MW16
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	05/10/06
Date Received	05/12/06
Date Extracted	05/24/06
Date Analyzed	05/24/06
Dry Weight	
Dilution Factor	1
C ₅ -C ₈ Aliphatics**	740 (µg/L)
C ₉ -C ₁₂ Aliphatics**	1500 (µg/L)
C ₉ -C ₁₀ Aromatics**	3100 (µg/L)
Surrogate % Recovery - PID	120
Surrogate % Recovery - FID	100

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards.

Lab Info: G650-54-15B

Reviewed By: 



VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Sovereign Consulting

Project Name: NV014

Sample Information and Analytical Results	
Sample Identification	USTBB190-MW17
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	05/10/06
Date Received	05/12/06
Date Extracted	05/24/06
Date Analyzed	05/24/06
Dry Weight	
Dilution Factor	1
C ₅ -C ₈ Aliphatics**	< 100 (µg/L)
C ₉ -C ₁₂ Aliphatics**	< 100 (µg/L)
C ₉ -C ₁₀ Aromatics**	< 100 (µg/L)
Surrogate % Recovery - PID	93
Surrogate % Recovery - FID	100

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards.

Lab Info: G650-54-16B

Reviewed By: [Signature]



VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Sovereign Consulting

Project Name: NV014

Sample Information and Analytical Results	
Sample Identification	Duplicate
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	05/10/06
Date Received	05/12/06
Date Extracted	05/24/06
Date Analyzed	05/24/06
Dry Weight	
Dilution Factor	1
C ₅ -C ₈ Aliphatics**	< 100 (µg/L)
C ₉ -C ₁₂ Aliphatics**	< 100 (µg/L)
C ₉ -C ₁₀ Aromatics**	< 100 (µg/L)
Surrogate % Recovery - PID	96
Surrogate % Recovery - FID	100

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards.

Lab Info: G650-54-17D

Reviewed By: [Signature]



Attachment 2

VPH Laboratory Reporting Form

Calibration and QA/QC Information

FID Initial Calibration Date: 05/04/06PID Initial Calibration Date: 05/04/06

Calibration Ranges and Limits

Range	MDL (07/15/2004) (µg/L)	ML (µg/L)	RL (µg/L) (mg/Kg)	
C ₅ -C ₈ Aliphatics	4.4	14	100	10
C ₉ -C ₁₂ Aliphatics	3.4	11	100	10
C ₉ -C ₁₀ Aromatics	0.13	0.41	100	10

Calibration Concentration Levels

Range	Levels (µg/L)	%RSD or CCC	Method of Quantitation
C ₅ -C ₈ Aliphatics	40	18.2	Calibration Factor
	1000		
	2000		
	3000		
	4000		
C ₉ -C ₁₂ Aliphatics	10	0.99	Linear Regression
	250		
	500		
	750		
	1000		
C ₉ -C ₁₀ Aromatics	10	18.50	Calibration Factor
	250		
	500		
	750		
	1000		

Calibration Check Date: 05/24/06

Calibration Check

Range	Levels (µg/L) (mg/Kg)		RPD
C ₅ -C ₈ Aliphatics	2000	200	17.3
C ₉ -C ₁₂ Aliphatics	500	50	-6.4
C ₉ -C ₁₀ Aromatics	500	50	5.2

MDL = Method Detection Limit

ML = Minimum Limit

RL = Reportable Limit

RPD = Relative Percent Difference

%RSD = Percent Relative Standard Deviation

CCC = Correlation Coefficient of Curve



Attachment 2

VPH Laboratory Reporting Form

Calibration and QA/QC Information

FID Initial Calibration Date: 05/04/06PID Initial Calibration Date: 05/04/06

Calibration Ranges and Limits

Range	MDL (07/15/2004) (µg/L)	ML (µg/L)	RL (µg/L) (mg/Kg)	
C ₅ -C ₈ Aliphatics	4.4	14	100	10
C ₉ -C ₁₂ Aliphatics	3.4	11	100	10
C ₉ -C ₁₀ Aromatics	0.13	0.41	100	10

Calibration Concentration Levels

Range	Levels (µg/L)	%RSD or CCC	Method of Quantitation
C ₅ -C ₈ Aliphatics	40	18.2	Calibration Factor
	1000		
	2000		
	3000		
	4000		
C ₉ -C ₁₂ Aliphatics	10	0.99	Linear Regression
	250		
	500		
	750		
	1000		
C ₉ -C ₁₀ Aromatics	10	18.50	Calibration Factor
	250		
	500		
	750		
	1000		

Calibration Check Date: 05/25/06

Calibration Check

Range	Levels (µg/L) (mg/Kg)		RPD
C ₅ -C ₈ Aliphatics	2000	200	23.7
C ₉ -C ₁₂ Aliphatics	500	50	-3.3
C ₉ -C ₁₀ Aromatics	500	50	5.2

MDL = Method Detection Limit

ML = Minimum Limit

RL = Reportable Limit

RPD = Relative Percent Difference

%RSD = Percent Relative Standard Deviation

CCC = Correlation Coefficient of Curve



EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: Sovereign Consulting

Project Name: NV014

Sample Information and Analytical Results	
Sample Identification	USTBB190-MW01
Sample Matrix	Water
Date Collected	05/10/06
Date Received	05/12/06
Date Extracted	05/16/06
Date Analyzed	05/22/06
Dry Weight	
Dilution Factor	1:1
C ₉ -C ₁₈ Aliphatics*	< 100 (ug/L)
C ₁₉ -C ₃₆ Aliphatics*	< 100 (ug/L)
C ₁₁ -C ₂₂ Aromatics*	< 100 (ug/L)
Aliphatic Surrogate % Recovery	46
Aromatic Surrogate % Recovery	56
Fractionation Surrogate 1 % Recovery	64

Comments:

* = Excludes any surrogates or internal standards.

Lab info: G650-54-1H

Reviewed By: 



EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: Sovereign Consulting

Project Name: NV014

Sample Information and Analytical Results	
Sample Identification	USTBB190-MW02
Sample Matrix	Water
Date Collected	05/10/06
Date Received	05/12/06
Date Extracted	05/16/06
Date Analyzed	05/22/06
Dry Weight	
Dilution Factor	1:1
C ₉ -C ₁₈ Aliphatics*	< 100 (ug/L)
C ₁₈ -C ₃₆ Aliphatics*	< 100 (ug/L)
C ₁₁ -C ₂₂ Aromatics*	< 100 (ug/L)
Aliphatic Surrogate % Recovery	47
Aromatic Surrogate % Recovery	51
Fractionation Surrogate 1 % Recovery	62

Comments:

* = Excludes any surrogates or internal standards.

Lab info: G650-54-2H

Reviewed By: [Signature]



EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: Sovereign Consulting

Project Name: NV014

Sample Information and Analytical Results	
Sample Identification	USTBB190-MW03
Sample Matrix	Water
Date Collected	05/10/06
Date Received	05/12/06
Date Extracted	05/16/06
Date Analyzed	05/22/06
Dry Weight	
Dilution Factor	1:1
C ₉ -C ₁₈ Aliphatics*	< 100 (ug/L)
C ₁₉ -C ₃₆ Aliphatics*	< 100 (ug/L)
C ₁₁ -C ₂₂ Aromatics*	< 100 (ug/L)
Aliphatic Surrogate % Recovery	71
Aromatic Surrogate % Recovery	58
Fractionation Surrogate 1 % Recovery	63

Comments:

* = Excludes any surrogates or internal standards.

Lab info: G650-54-3H

Reviewed By: 



EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: Sovereign Consulting

Project Name: NV014

Sample Information and Analytical Results	
Sample Identification	USTBB190-MW04
Sample Matrix	Water
Date Collected	05/11/06
Date Received	05/12/06
Date Extracted	05/16/06
Date Analyzed	05/22/06
Dry Weight	
Dilution Factor	1:1
C ₉ -C ₁₈ Aliphatics*	< 100 (ug/L)
C ₁₉ -C ₃₆ Aliphatics*	< 100 (ug/L)
C ₁₁ -C ₂₂ Aromatics*	< 100 (ug/L)
Aliphatic Surrogate % Recovery	65
Aromatic Surrogate % Recovery	57
Fractionation Surrogate 1 % Recovery	59

Comments:

* = Excludes any surrogates or internal standards.

Lab info: G650-54-4H

Reviewed By: [Signature]



EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: Sovereign Consulting

Project Name: NV014

Sample Information and Analytical Results	
Sample Identification	USTBB190-MW05
Sample Matrix	Water
Date Collected	05/11/06
Date Received	05/12/06
Date Extracted	05/16/06
Date Analyzed	05/22/06
Dry Weight	
Dilution Factor	1:1
C ₉ -C ₁₈ Aliphatics*	< 100 (ug/L)
C ₁₉ -C ₃₆ Aliphatics*	< 100 (ug/L)
C ₁₁ -C ₂₂ Aromatics*	< 100 (ug/L)
Aliphatic Surrogate % Recovery	65
Aromatic Surrogate % Recovery	62
Fractionation Surrogate 1 % Recovery	56

Comments:

* = Excludes any surrogates or internal standards.

Lab info: G650-54-5H

Reviewed By: 



EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: Sovereign Consulting

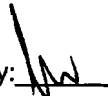
Project Name: NV014

Sample Information and Analytical Results	
Sample Identification	USTBB190-MW06
Sample Matrix	Water
Date Collected	05/11/06
Date Received	05/12/06
Date Extracted	05/24/06
Date Analyzed	05/25/06
Dry Weight	
Dilution Factor	1
C ₉ -C ₁₈ Aliphatics*	< 100 (ug/L)
C ₁₉ -C ₃₆ Aliphatics*	< 100 (ug/L)
C ₁₁ -C ₂₂ Aromatics*	< 100 (ug/L)
Aliphatic Surrogate % Recovery	76
Aromatic Surrogate % Recovery	67

Comments:

* = Excludes any surrogates or internal standards.
Sample did not require fractionation.

Lab info: G650-54-6J

Reviewed By: 



EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: Sovereign Consulting

Project Name: NV014

Sample Information and Analytical Results	
Sample Identification	USTBB190-MW07
Sample Matrix	Water
Date Collected	05/10/06
Date Received	05/12/06
Date Extracted	05/16/06
Date Analyzed	05/22/06
Dry Weight	
Dilution Factor	1:1
C ₈ -C ₁₈ Aliphatics*	< 100 (ug/L)
C ₁₉ -C ₃₆ Aliphatics*	< 100 (ug/L)
C ₁₁ -C ₂₂ Aromatics*	340 (ug/L)
Aliphatic Surrogate % Recovery	71
Aromatic Surrogate % Recovery	61
Fractionation Surrogate 1 % Recovery	53

Comments:

* = Excludes any surrogates or internal standards.

Lab info: G650-54-7H

Reviewed By: lw



EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: Sovereign Consulting

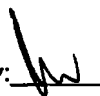
Project Name: NV014

Sample Information and Analytical Results	
Sample Identification	USTBB190-MW08
Sample Matrix	Water
Date Collected	05/11/06
Date Received	05/12/06
Date Extracted	05/16/06
Date Analyzed	05/21/06
Dry Weight	
Dilution Factor	1:1
C ₉ -C ₁₈ Aliphatics*	< 100 (ug/L)
C ₁₉ -C ₃₆ Aliphatics*	< 100 (ug/L)
C ₁₁ -C ₂₂ Aromatics*	< 100 (ug/L)
Aliphatic Surrogate % Recovery	77
Aromatic Surrogate % Recovery	54
Fractionation Surrogate 1 % Recovery	55

Comments:

* = Excludes any surrogates or internal standards.

Lab info: G650-54-8H

Reviewed By: 



EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: Sovereign Consulting

Project Name: NV014

Sample Information and Analytical Results	
Sample Identification	USTBB190-MW09
Sample Matrix	Water
Date Collected	05/11/06
Date Received	05/12/06
Date Extracted	05/16/06
Date Analyzed	05/21/06
Dry Weight	
Dilution Factor	1:1
C ₉ -C ₁₈ Aliphatics*	< 100 (ug/L)
C ₁₉ -C ₃₆ Aliphatics*	< 100 (ug/L)
C ₁₁ -C ₂₂ Aromatics*	< 100 (ug/L)
Aliphatic Surrogate % Recovery	70
Aromatic Surrogate % Recovery	48
Fractionation Surrogate 1 % Recovery	48

Comments:

* = Excludes any surrogates or internal standards.

Lab info: G650-54-9H

Reviewed By: 



EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: Sovereign Consulting

Project Name: NV014

Sample Information and Analytical Results	
Sample Identification	USTBB190-MW10
Sample Matrix	Water
Date Collected	05/11/06
Date Received	05/12/06
Date Extracted	05/16/06
Date Analyzed	05/21/06
Dry Weight	
Dilution Factor	1:1
C ₉ -C ₁₈ Aliphatics*	< 100 (ug/L)
C ₁₉ -C ₃₆ Aliphatics*	< 100 (ug/L)
C ₁₁ -C ₂₂ Aromatics*	< 100 (ug/L)
Aliphatic Surrogate % Recovery	78
Aromatic Surrogate % Recovery	62
Fractionation Surrogate 1 % Recovery	64

Comments:

* = Excludes any surrogates or internal standards.

Lab info: G650-54-10H

Reviewed By: 



EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: Sovereign Consulting

Project Name: NV014

Sample Information and Analytical Results	
Sample Identification	USTBB190-MW11
Sample Matrix	Water
Date Collected	05/11/06
Date Received	05/12/06
Date Extracted	05/16/06
Date Analyzed	05/21/06
Dry Weight	
Dilution Factor	1:1
C ₈ -C ₁₈ Aliphatics*	< 100 (ug/L)
C ₁₉ -C ₃₆ Aliphatics*	< 100 (ug/L)
C ₁₁ -C ₂₂ Aromatics*	< 100 (ug/L)
Aliphatic Surrogate % Recovery	81
Aromatic Surrogate % Recovery	62
Fractionation Surrogate 1 % Recovery	61

Comments:

* = Excludes any surrogates or internal standards.

Lab info: G650-54-11H

Reviewed By: 



EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: Sovereign Consulting

Project Name: NV014

Sample Information and Analytical Results	
Sample Identification	USTBB190-MW12
Sample Matrix	Water
Date Collected	05/11/06
Date Received	05/12/06
Date Extracted	05/16/06
Date Analyzed	05/22/06
Dry Weight	
Dilution Factor	1:1
C ₉ -C ₁₈ Aliphatics*	< 100 (ug/L)
C ₁₉ -C ₃₆ Aliphatics*	< 100 (ug/L)
C ₁₁ -C ₂₂ Aromatics*	< 100 (ug/L)
Aliphatic Surrogate % Recovery	82
Aromatic Surrogate % Recovery	65
Fractionation Surrogate 1 % Recovery	65

Comments:

* = Excludes any surrogates or internal standards.

Lab info: G650-54-12H

Reviewed By: 



EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: Sovereign Consulting

Project Name: NV014

Sample Information and Analytical Results	
Sample Identification	USTBB190-MW13
Sample Matrix	Water
Date Collected	05/11/06
Date Received	05/12/06
Date Extracted	05/16/06
Date Analyzed	05/22/06
Dry Weight	
Dilution Factor	1:1
C ₉ -C ₁₈ Aliphatics*	< 100 (ug/L)
C ₁₉ -C ₃₈ Aliphatics*	< 100 (ug/L)
C ₁₁ -C ₂₂ Aromatics*	< 100 (ug/L)
Aliphatic Surrogate % Recovery	88
Aromatic Surrogate % Recovery	64
Fractionation Surrogate 1 % Recovery	60

Comments:

* = Excludes any surrogates or internal standards.

Lab info: G650-54-13H

Reviewed By: 



EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: Sovereign Consulting

Project Name: NV014

Sample Information and Analytical Results	
Sample Identification	USTBB190-MW15
Sample Matrix	Water
Date Collected	05/10/06
Date Received	05/12/06
Date Extracted	05/16/06
Date Analyzed	05/22/06
Dry Weight	
Dilution Factor	1:1
C ₈ -C ₁₈ Aliphatics*	< 100 (ug/L)
C ₁₉ -C ₃₆ Aliphatics*	< 100 (ug/L)
C ₁₁ -C ₂₂ Aromatics*	< 100 (ug/L)
Aliphatic Surrogate % Recovery	84
Aromatic Surrogate % Recovery	59
Fractionation Surrogate 1 % Recovery	62

Comments:

* = Excludes any surrogates or internal standards.

Lab info: G650-54-14H

Reviewed By: 



EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: Sovereign Consulting

Project Name: NV014

Sample Information and Analytical Results	
Sample Identification	USTBB190-MW16
Sample Matrix	Water
Date Collected	05/10/06
Date Received	05/12/06
Date Extracted	05/24/06
Date Analyzed	05/26/06
Dry Weight	
Dilution Factor	1:1
C ₉ -C ₁₈ Aliphatics*	< 100 (ug/L)
C ₁₉ -C ₃₈ Aliphatics*	< 100 (ug/L)
C ₁₁ -C ₂₂ Aromatics*	410 (ug/L)
Aliphatic Surrogate % Recovery	78
Aromatic Surrogate % Recovery	59
Fractionation Surrogate 1 % Recovery	100

Comments:

* = Excludes any surrogates or internal standards.

Lab info: G650-54-15I

Reviewed By: 



EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: Sovereign Consulting

Project Name: NV014

Sample Information and Analytical Results	
Sample Identification	USTBB190-MW17
Sample Matrix	Water
Date Collected	05/10/06
Date Received	05/12/06
Date Extracted	05/24/06
Date Analyzed	05/25/06
Dry Weight	
Dilution Factor	1
C ₉ -C ₁₈ Aliphatics*	< 100 (ug/L)
C ₁₉ -C ₃₆ Aliphatics*	< 100 (ug/L)
C ₁₁ -C ₂₂ Aromatics*	< 100 (ug/L)
Aliphatic Surrogate % Recovery	87
Aromatic Surrogate % Recovery	67

Comments:

- * = Excludes any surrogates or internal standards.
Sample did not require fractionation.

Lab info: g650-54-16I

Reviewed By: 



EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: Sovereign Consulting

Project Name: NV014

Sample Information and Analytical Results	
Sample Identification	Duplicate
Sample Matrix	Water
Date Collected	05/10/06
Date Received	05/12/06
Date Extracted	05/24/06
Date Analyzed	05/26/06
Dry Weight	
Dilution Factor	1
C ₉ -C ₁₈ Aliphatics*	< 100 (ug/L)
C ₁₉ -C ₃₆ Aliphatics*	< 100 (ug/L)
C ₁₁ -C ₂₂ Aromatics*	< 100 (ug/L)
Aliphatic Surrogate % Recovery	48
Aromatic Surrogate % Recovery	40

Comments:

* = Excludes any surrogates or internal standards.
Sample did not require fractionation.

Lab info: g650-54-171

Reviewed By: 



Attachment 3

EPH Laboratory Reporting Form

Calibration and QA/QC Information

Initial Calibration Date: 04/19/06

Calibration Ranges and Limits

Range	MDL (2/2004) (µg/L)	ML (µg/L)	RL (µg/L)	RL (mg/Kg)
C ₉ -C ₁₈ Aliphatics	3.84	12.2	100	10
C ₁₉ -C ₃₆ Aliphatics	0.57	1.8	100	10
C ₁₁ -C ₂₂ Aromatics	4.54	14.4	100	10

Calibration Concentration Levels

Range	Levels (µg/mL)	%RSD or CCC	Method of Quantitation
C ₉ -C ₁₈ Aliphatics	6	13.30	Calibration Factor
	30		
	60		
	120		
	240		
C ₁₉ -C ₃₆ Aliphatics	8	10.1	Calibration Factor
	40		
	80		
	160		
	320		
C ₁₁ -C ₂₂ Aromatics	17	4.5	Calibration Factor
	85		
	170		
	340		
	680		

Calibration Check Date: 05/21/06

Calibration Check

Range	Levels (µg/mL)	RPD
C ₉ -C ₁₈ Aliphatics	120	4.9
C ₁₉ -C ₃₆ Aliphatics	160	-1.2
C ₁₁ -C ₂₂ Aromatics	340	-8.3

MDL = Method Detection Limit

ML = Minimum Limit

RL = Reportable Limit

RPD = Relative Percent Difference

%RSD = Percent Relative Standard Deviation

CCC = Correlation Coefficient of Curve



Attachment 3

EPH Laboratory Reporting Form

Calibration and QA/QC Information

Initial Calibration Date: 04/19/06

Calibration Ranges and Limits

Range	MDL (2/2004) (µg/L)	ML (µg/L)	RL (µg/L) (mg/Kg)
C ₉ -C ₁₈ Aliphatics	3.84	12.2	100 10
C ₁₉ -C ₃₆ Aliphatics	0.57	1.8	100 10
C ₁₁ -C ₂₂ Aromatics	4.54	14.4	100 10

Calibration Concentration Levels

Range	Levels (µg/mL)	%RSD or CCC	Method of Quantitation
C ₉ -C ₁₈ Aliphatics	6	13.30	Calibration Factor
	30		
	60		
	120		
	240		
C ₁₉ -C ₃₆ Aliphatics	8	10.1	Calibration Factor
	40		
	80		
	160		
	320		
C ₁₁ -C ₂₂ Aromatics	17	4.5	Calibration Factor
	85		
	170		
	340		
	680		

Calibration Check Date: 05/21/06

Calibration Check

Range	Levels (µg/mL)	RPD
C ₉ -C ₁₈ Aliphatics	120	10.4
C ₁₉ -C ₃₆ Aliphatics	160	3.4
C ₁₁ -C ₂₂ Aromatics	340	-5.2

MDL = Method Detection Limit

ML = Minimum Limit

RL = Reportable Limit

RPD = Relative Percent Difference

%RSD = Percent Relative Standard Deviation

CCC = Correlation Coefficient of Curve



Attachment 3

EPH Laboratory Reporting Form

Calibration and QA/QC Information

Initial Calibration Date: 04/19/06

Calibration Ranges and Limits

Range	MDL (2/2004) (µg/L)	ML (µg/L)	RL (µg/L) (mg/Kg)	
C ₉ -C ₁₈ Aliphatics	3.84	12.2	100	10
C ₁₉ -C ₃₆ Aliphatics	0.57	1.8	100	10
C ₁₁ -C ₂₂ Aromatics	4.54	14.4	100	10

Calibration Concentration Levels

Range	Levels (µg/mL)	%RSD or CCC	Method of Quantitation
C ₉ -C ₁₈ Aliphatics	6	13.30	Calibration Factor
	30		
	60		
	120		
	240		
C ₁₉ -C ₃₆ Aliphatics	8	10.1	Calibration Factor
	40		
	80		
	160		
	320		
C ₁₁ -C ₂₂ Aromatics	17	4.5	Calibration Factor
	85		
	170		
	340		
	680		

Calibration Check Date: 05/22/06

Calibration Check

Range	Levels (µg/mL)	RPD
C ₉ -C ₁₈ Aliphatics	120	-2.5
C ₁₉ -C ₃₆ Aliphatics	160	-11.4
C ₁₁ -C ₂₂ Aromatics	340	-10.8

MDL = Method Detection Limit

ML = Minimum Limit

RL = Reportable Limit

RPD = Relative Percent Difference

%RSD = Percent Relative Standard Deviation

CCC = Correlation Coefficient of Curve



Attachment 3

EPH Laboratory Reporting Form

Calibration and QA/QC Information

Initial Calibration Date: 04/19/06

Calibration Ranges and Limits

Range	MDL (2/2004) (µg/L)	ML (µg/L)	RL (µg/L) (mg/Kg)
C ₉ -C ₁₈ Aliphatics	3.84	12.2	100 10
C ₁₉ -C ₃₆ Aliphatics	0.57	1.8	100 10
C ₁₁ -C ₂₂ Aromatics	4.54	14.4	100 10

Calibration Concentration Levels

Range	Levels (µg/mL)	%RSD or CCC	Method of Quantitation
C ₉ -C ₁₈ Aliphatics	6	13.30	Calibration Factor
	30		
	60		
	120		
	240		
C ₁₉ -C ₃₆ Aliphatics	8	10.1	Calibration Factor
	40		
	80		
	160		
	320		
C ₁₁ -C ₂₂ Aromatics	17	4.5	Calibration Factor
	85		
	170		
	340		
	680		

Calibration Check Date: 05/25/06

Calibration Check

Range	Levels (µg/mL)	RPD
C ₉ -C ₁₈ Aliphatics	120	-2.5
C ₁₉ -C ₃₆ Aliphatics	160	-11.3
C ₁₁ -C ₂₂ Aromatics	340	-24.3

MDL = Method Detection Limit

ML = Minimum Limit

RL = Reportable Limit

RPD = Relative Percent Difference

%RSD = Percent Relative Standard Deviation

CCC = Correlation Coefficient of Curve



Attachment 3

EPH Laboratory Reporting Form

Calibration and QA/QC Information

Initial Calibration Date: 04/19/06

Calibration Ranges and Limits

Range	MDL (2/2004) (µg/L)	ML (µg/L)	RL (µg/L)	RL (mg/Kg)
C ₉ -C ₁₈ Aliphatics	3.84	12.2	100	10
C ₁₉ -C ₃₆ Aliphatics	0.57	1.8	100	10
C ₁₁ -C ₂₂ Aromatics	4.54	14.4	100	10

Calibration Concentration Levels

Range	Levels (µg/mL)	%RSD or CCC	Method of Quantitation
C ₉ -C ₁₈ Aliphatics	6	13.30	Calibration Factor
	30		
	60		
	120		
	240		
C ₁₉ -C ₃₆ Aliphatics	8	10.1	Calibration Factor
	40		
	80		
	160		
	320		
C ₁₁ -C ₂₂ Aromatics	17	4.5	Calibration Factor
	85		
	170		
	340		
	680		

Calibration Check Date: 05/26/06

Calibration Check

Range	Levels (µg/mL)	RPD
C ₉ -C ₁₈ Aliphatics	120	-1.8
C ₁₉ -C ₃₆ Aliphatics	160	-12.9
C ₁₁ -C ₂₂ Aromatics	340	-13.6

MDL = Method Detection Limit

ML = Minimum Limit

RL = Reportable Limit

RPD = Relative Percent Difference

%RSD = Percent Relative Standard Deviation

CCC = Correlation Coefficient of Curve



Results for Semivolatiles by GCMS 625

Client Sample ID: USTBB190-MW01
 Client Project ID: NV014
 Lab Sample ID: G650-54-1J
 Lab Project ID: G650-54

Analyzed By: MRC
 Date Collected: 5/10/2006 13:40
 Date Received: 5/12/2006
 Date Extracted: 5/17/2006
 Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	5/20/2006	
Acenaphthylene	BQL	10.0	1.12	1	5/20/2006	
Anthracene	BQL	10.0	1.75	1	5/20/2006	
Benzo[a]anthracene	BQL	10.0	1.36	1	5/20/2006	
Benzo[a]pyrene	BQL	10.0	1.27	1	5/20/2006	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	5/20/2006	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	5/20/2006	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	5/20/2006	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	5/20/2006	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	5/20/2006	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	5/20/2006	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	5/20/2006	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	5/20/2006	
Butylbenzylphthalate	BQL	10.0	1.53	1	5/20/2006	
2-Chloronaphthalene	BQL	10.0	1.25	1	5/20/2006	
2-Chlorophenol	BQL	10.0	4.22	1	5/20/2006	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	5/20/2006	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	5/20/2006	
Chrysene	BQL	10.0	1.11	1	5/20/2006	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	5/20/2006	
Di-n-Butylphthalate	BQL	10.0	1.65	1	5/20/2006	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	5/20/2006	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	5/20/2006	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	5/20/2006	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	5/20/2006	
2,4-Dichlorophenol	BQL	10.0	3.75	1	5/20/2006	
Diethylphthalate	BQL	10.0	1.48	1	5/20/2006	
Dimethylphthalate	BQL	10.0	1.04	1	5/20/2006	
2,4-Dimethylphenol	BQL	10.0	9.25	1	5/20/2006	
Di-n-octylphthalate	BQL	10.0	1.16	1	5/20/2006	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	5/20/2006	
2,4-Dinitrophenol	BQL	50.0	4.20	1	5/20/2006	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	5/20/2006	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	5/20/2006	
Diphenylamine *	BQL	10.0	1.53	1	5/20/2006	
Fluoranthene	BQL	10.0	1.41	1	5/20/2006	
Fluorene	BQL	10.0	1.22	1	5/20/2006	
Hexachlorobenzene	BQL	10.0	1.22	1	5/20/2006	
Hexachlorobutadiene	BQL	10.0	1.58	1	5/20/2006	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	5/20/2006	
Hexachloroethane	BQL	10.0	1.58	1	5/20/2006	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	5/20/2006	
Isophorone	BQL	10.0	1.27	1	5/20/2006	
Naphthalene	BQL	10.0	1.08	1	5/20/2006	



Results for Semivolatiles by GCMS 625

Client Sample ID: USTBB190-MW01
 Client Project ID: NV014
 Lab Sample ID: G650-54-1J
 Lab Project ID: G650-54

Analyzed By: MRC
 Date Collected: 5/10/2006 13:40
 Date Received: 5/12/2006
 Date Extracted: 5/17/2006
 Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Nitrobenzene	BQL	10.0	1.32	1	5/20/2006	
2-Nitrophenol	BQL	10.0	3.52	1	5/20/2006	
4-Nitrophenol	BQL	50.0	3.17	1	5/20/2006	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	5/20/2006	
Pentachlorophenol	BQL	50.0	2.83	1	5/20/2006	
Phenanthrene	BQL	10.0	1.38	1	5/20/2006	
Phenol	BQL	10.0	3.38	1	5/20/2006	
Pyrene	BQL	10.0	2.08	1	5/20/2006	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	5/20/2006	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	5/20/2006	

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	6.6	66
2-Fluorophenol	10	5.7	57
Nitrobenzene-d5	10	6.6	66
Phenol-d6	10	6.2	62
2,4,6-Tribromophenol	10	7.3	73
4-Terphenyl-d14	10	6.4	64

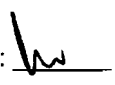
Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By: 

**Results of Library Search for Semivolatile Compounds**
by GCMS

Client Sample ID: USTBB190-MW01

Client Project ID: NV014

Lab Sample ID: G650-54-1J

Lab Project ID: G650-54

Sample Wt/Vol: 500 ML

Dilution: 1

Analyzed By: MRC

Date Collected: 5/10/2006 13:40

Date Received: 5/12/2006

Date Extracted: 5/17/2006

Date Analyzed: 5/20/2006

Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	No library search compounds detected.				
2					
3					
4					
5					
6					
7					
8					
9					
10					

Comment:

Tentatively Identified Compound (TIC) refers to substances which are not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist.

Quantitation is accomplished by relative peak area of the compound compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is equal to or greater than 10% of that of the nearest internal standard. Quantitation provided is an estimate.

Reviewed by: 



**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTBB190-MW02
 Client Project ID: NV014
 Lab Sample ID: G650-54-2J
 Lab Project ID: G650-54

Analyzed By: MRC
 Date Collected: 5/10/2006 12:21
 Date Received: 5/12/2006
 Date Extracted: 5/17/2006
 Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	4.90	10.0	1.22	1	5/20/2006	J
Acenaphthylene	BQL	10.0	1.12	1	5/20/2006	
Anthracene	BQL	10.0	1.75	1	5/20/2006	
Benzo[a]anthracene	BQL	10.0	1.36	1	5/20/2006	
Benzo[a]pyrene	BQL	10.0	1.27	1	5/20/2006	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	5/20/2006	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	5/20/2006	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	5/20/2006	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	5/20/2006	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	5/20/2006	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	5/20/2006	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	5/20/2006	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	5/20/2006	
Butylbenzylphthalate	BQL	10.0	1.53	1	5/20/2006	
2-Chloronaphthalene	BQL	10.0	1.25	1	5/20/2006	
2-Chlorophenol	BQL	10.0	4.22	1	5/20/2006	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	5/20/2006	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	5/20/2006	
Chrysene	BQL	10.0	1.11	1	5/20/2006	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	5/20/2006	
Di-n-Butylphthalate	BQL	10.0	1.65	1	5/20/2006	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	5/20/2006	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	5/20/2006	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	5/20/2006	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	5/20/2006	
2,4-Dichlorophenol	BQL	10.0	3.75	1	5/20/2006	
Diethylphthalate	BQL	10.0	1.48	1	5/20/2006	
Dimethylphthalate	BQL	10.0	1.04	1	5/20/2006	
2,4-Dimethylphenol	BQL	10.0	9.25	1	5/20/2006	
Di-n-octylphthalate	BQL	10.0	1.16	1	5/20/2006	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	5/20/2006	
2,4-Dinitrophenol	BQL	50.0	4.20	1	5/20/2006	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	5/20/2006	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	5/20/2006	
Diphenylamine *	BQL	10.0	1.53	1	5/20/2006	
Fluoranthene	BQL	10.0	1.41	1	5/20/2006	
Fluorene	2.50	10.0	1.22	1	5/20/2006	J
Hexachlorobenzene	BQL	10.0	1.22	1	5/20/2006	
Hexachlorobutadiene	BQL	10.0	1.58	1	5/20/2006	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	5/20/2006	
Hexachloroethane	BQL	10.0	1.58	1	5/20/2006	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	5/20/2006	
Isophorone	BQL	10.0	1.27	1	5/20/2006	
Naphthalene	BQL	10.0	1.08	1	5/20/2006	



**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTBB190-MW02
 Client Project ID: NV014
 Lab Sample ID: G650-54-2J
 Lab Project ID: G650-54

Analyzed By: MRC
 Date Collected: 5/10/2006 12:21
 Date Received: 5/12/2006
 Date Extracted: 5/17/2006
 Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Nitrobenzene	BQL	10.0	1.32	1	5/20/2006	
2-Nitrophenol	BQL	10.0	3.52	1	5/20/2006	
4-Nitrophenol	BQL	50.0	3.17	1	5/20/2006	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	5/20/2006	
Pentachlorophenol	BQL	50.0	2.83	1	5/20/2006	
Phenanthrene	BQL	10.0	1.38	1	5/20/2006	
Phenol	BQL	10.0	3.38	1	5/20/2006	
Pyrene	BQL	10.0	2.08	1	5/20/2006	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	5/20/2006	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	5/20/2006	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	6.8	68		
2-Fluorophenol		10	5.5	55		
Nitrobenzene-d5		10	6.6	66		
Phenol-d6		10	5.7	57		
2,4,6-Tribromophenol		10	7.4	74		
4-Terphenyl-d14		10	8.6	86		

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By: 

**Results of Library Search for Semivolatile Compounds**
by GCMS

Client Sample ID: USTBB190-MW02
Client Project ID: NV014
Lab Sample ID: G650-54-2J
Lab Project ID: G650-54
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: MRC
Date Collected: 5/10/2006 12:21
Date Received: 5/12/2006
Date Extracted: 5/17/2006
Date Analyzed: 5/20/2006
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	No library search compounds detected.				
2					
3					
4					
5					
6					
7					
8					
9					
10					

Comment:

Tentatively Identified Compound (TIC) refers to substances which are not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist.

Quantitation is accomplished by relative peak area of the compound compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is equal to or greater than 10% of that of the nearest internal standard. Quantitation provided is an estimate.

Reviewed by: 



**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTBB190-MW03
 Client Project ID: NV014
 Lab Sample ID: G650-54-3I
 Lab Project ID: G650-54

Analyzed By: MRC
 Date Collected: 5/10/2006 10:35
 Date Received: 5/12/2006
 Date Extracted: 5/17/2006
 Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	5/20/2006	
Acenaphthylene	BQL	10.0	1.12	1	5/20/2006	
Anthracene	BQL	10.0	1.75	1	5/20/2006	
Benzo[a]anthracene	BQL	10.0	1.36	1	5/20/2006	
Benzo[a]pyrene	BQL	10.0	1.27	1	5/20/2006	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	5/20/2006	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	5/20/2006	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	5/20/2006	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	5/20/2006	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	5/20/2006	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	5/20/2006	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	5/20/2006	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	5/20/2006	
Butylbenzylphthalate	BQL	10.0	1.53	1	5/20/2006	
2-Chloronaphthalene	BQL	10.0	1.25	1	5/20/2006	
2-Chlorophenol	BQL	10.0	4.22	1	5/20/2006	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	5/20/2006	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	5/20/2006	
Chrysene	BQL	10.0	1.11	1	5/20/2006	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	5/20/2006	
Di-n-Butylphthalate	BQL	10.0	1.65	1	5/20/2006	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	5/20/2006	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	5/20/2006	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	5/20/2006	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	5/20/2006	
2,4-Dichlorophenol	BQL	10.0	3.75	1	5/20/2006	
Diethylphthalate	BQL	10.0	1.48	1	5/20/2006	
Dimethylphthalate	BQL	10.0	1.04	1	5/20/2006	
2,4-Dimethylphenol	BQL	10.0	9.25	1	5/20/2006	
Di-n-octylphthalate	BQL	10.0	1.16	1	5/20/2006	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	5/20/2006	
2,4-Dinitrophenol	BQL	50.0	4.20	1	5/20/2006	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	5/20/2006	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	5/20/2006	
Diphenylamine *	BQL	10.0	1.53	1	5/20/2006	
Fluoranthene	BQL	10.0	1.41	1	5/20/2006	
Fluorene	BQL	10.0	1.22	1	5/20/2006	
Hexachlorobenzene	BQL	10.0	1.22	1	5/20/2006	
Hexachlorobutadiene	BQL	10.0	1.58	1	5/20/2006	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	5/20/2006	
Hexachloroethane	BQL	10.0	1.58	1	5/20/2006	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	5/20/2006	
Isophorone	BQL	10.0	1.27	1	5/20/2006	
Naphthalene	BQL	10.0	1.08	1	5/20/2006	



**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTBB190-MW03
 Client Project ID: NV014
 Lab Sample ID: G650-54-3I
 Lab Project ID: G650-54

Analyzed By: MRC
 Date Collected: 5/10/2006 10:35
 Date Received: 5/12/2006
 Date Extracted: 5/17/2006
 Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Nitrobenzene	BQL	10.0	1.32	1	5/20/2006	
2-Nitrophenol	BQL	10.0	3.52	1	5/20/2006	
4-Nitrophenol	BQL	50.0	3.17	1	5/20/2006	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	5/20/2006	
Pentachlorophenol	BQL	50.0	2.83	1	5/20/2006	
Phenanthrene	BQL	10.0	1.38	1	5/20/2006	
Phenol	BQL	10.0	3.38	1	5/20/2006	
Pyrene	BQL	10.0	2.08	1	5/20/2006	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	5/20/2006	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	5/20/2006	

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	5.9	59
2-Fluorophenol	10	5.7	57
Nitrobenzene-d5	10	6.3	63
Phenol-d6	10	5.7	57
2,4,6-Tribromophenol	10	6.3	63
4-Terphenyl-d14	10	9	90

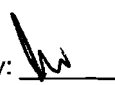
Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By: 



Results of Library Search for Semivolatile Compounds
by GCMS

Client Sample ID: USTBB190-MW03
Client Project ID: NV014
Lab Sample ID: G650-54-3I
Lab Project ID: G650-54
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: MRC
Date Collected: 5/10/2006 10:35
Date Received: 5/12/2006
Date Extracted: 5/17/2006
Date Analyzed: 5/20/2006
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	No library search compounds detected.				
2					
3					
4					
5					
6					
7					
8					
9					
10					

Comment:

Tentatively Identified Compound (TIC) refers to substances which are not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist.

Quantitation is accomplished by relative peak area of the compound compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is equal to or greater than 10% of that of the nearest internal standard. Quantitation provided is an estimate.

Reviewed by: 



**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTBB190-MW04
 Client Project ID: NV014
 Lab Sample ID: G650-54-4I
 Lab Project ID: G650-54

Analyzed By: MRC
 Date Collected: 5/11/2006 14:05
 Date Received: 5/12/2006
 Date Extracted: 5/18/2006
 Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	5/27/2006	
Acenaphthylene	BQL	10.0	1.12	1	5/27/2006	
Anthracene	BQL	10.0	1.75	1	5/27/2006	
Benzo[a]anthracene	BQL	10.0	1.36	1	5/27/2006	
Benzo[a]pyrene	BQL	10.0	1.27	1	5/27/2006	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	5/27/2006	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	5/27/2006	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	5/27/2006	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	5/27/2006	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	5/27/2006	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	5/27/2006	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	5/27/2006	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	5/27/2006	
Butylbenzylphthalate	BQL	10.0	1.53	1	5/27/2006	
2-Chloronaphthalene	BQL	10.0	1.25	1	5/27/2006	
2-Chlorophenol	BQL	10.0	4.22	1	5/27/2006	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	5/27/2006	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	5/27/2006	
Chrysene	BQL	10.0	1.11	1	5/27/2006	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	5/27/2006	
Di-n-Butylphthalate	BQL	10.0	1.65	1	5/27/2006	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	5/27/2006	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	5/27/2006	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	5/27/2006	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	5/27/2006	
2,4-Dichlorophenol	BQL	10.0	3.75	1	5/27/2006	
Diethylphthalate	BQL	10.0	1.48	1	5/27/2006	
Dimethylphthalate	BQL	10.0	1.04	1	5/27/2006	
2,4-Dimethylphenol	BQL	10.0	9.25	1	5/27/2006	
Di-n-octylphthalate	BQL	10.0	1.16	1	5/27/2006	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	5/27/2006	
2,4-Dinitrophenol	BQL	50.0	4.20	1	5/27/2006	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	5/27/2006	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	5/27/2006	
Diphenylamine *	BQL	10.0	1.53	1	5/27/2006	
Fluoranthene	BQL	10.0	1.41	1	5/27/2006	
Fluorene	BQL	10.0	1.22	1	5/27/2006	
Hexachlorobenzene	BQL	10.0	1.22	1	5/27/2006	
Hexachlorobutadiene	BQL	10.0	1.58	1	5/27/2006	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	5/27/2006	
Hexachloroethane	BQL	10.0	1.58	1	5/27/2006	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	5/27/2006	
Isophorone	BQL	10.0	1.27	1	5/27/2006	
Naphthalene	BQL	10.0	1.08	1	5/27/2006	



Results for Semivolatiles by GCMS 625

Client Sample ID: USTBB190-MW04
 Client Project ID: NV014
 Lab Sample ID: G650-54-41
 Lab Project ID: G650-54

Analyzed By: MRC
 Date Collected: 5/11/2006 14:05
 Date Received: 5/12/2006
 Date Extracted: 5/18/2006
 Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Nitrobenzene	BQL	10.0	1.32	1	5/27/2006	
2-Nitrophenol	BQL	10.0	3.52	1	5/27/2006	
4-Nitrophenol	BQL	50.0	3.17	1	5/27/2006	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	5/27/2006	
Pentachlorophenol	BQL	50.0	2.83	1	5/27/2006	
Phenanthrene	BQL	10.0	1.38	1	5/27/2006	
Phenol	BQL	10.0	3.38	1	5/27/2006	
Pyrene	BQL	10.0	2.08	1	5/27/2006	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	5/27/2006	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	5/27/2006	

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	7.1	71
2-Fluorophenol	10	6.1	61
Nitrobenzene-d5	10	6.6	66
Phenol-d6	10	6.1	61
2,4,6-Tribromophenol	10	6.5	65
4-Terphenyl-d14	10	7.8	78

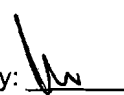
Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By: 



Results of Library Search for Semivolatile Compounds
by GCMS

Client Sample ID: USTBB190-MW04
Client Project ID: NV014
Lab Sample ID: G650-54-41
Lab Project ID: G650-54
Sample Wt/Vol: 500 ML
Dilution: 1

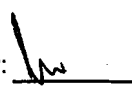
Analyzed By: MRC
Date Collected: 5/11/2006 14:05
Date Received: 5/12/2006
Date Extracted: 5/18/2006
Date Analyzed: 5/27/2006
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Unknown	14.18			13.2
2	Unknown	11.17			6.13
3					
4					
5					
6					
7					
8					
9					
10					

Comment:

Tentatively Identified Compound (TIC) refers to substances which are not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist.

Quantitation is accomplished by relative peak area of the compound compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is equal to or greater than 10% of that of the nearest internal standard. Quantitation provided is an estimate.

Reviewed by: 



**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTBB190-MW05
 Client Project ID: NV014
 Lab Sample ID: G650-54-5I
 Lab Project ID: G650-54

Analyzed By: MRC
 Date Collected: 5/11/2006 10:10
 Date Received: 5/12/2006
 Date Extracted: 5/18/2006
 Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	5/27/2006	
Acenaphthylene	BQL	10.0	1.12	1	5/27/2006	
Anthracene	BQL	10.0	1.75	1	5/27/2006	
Benzo[a]anthracene	BQL	10.0	1.36	1	5/27/2006	
Benzo[a]pyrene	BQL	10.0	1.27	1	5/27/2006	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	5/27/2006	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	5/27/2006	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	5/27/2006	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	5/27/2006	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	5/27/2006	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	5/27/2006	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	5/27/2006	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	5/27/2006	
Butylbenzylphthalate	BQL	10.0	1.53	1	5/27/2006	
2-Chloronaphthalene	BQL	10.0	1.25	1	5/27/2006	
2-Chlorophenol	BQL	10.0	4.22	1	5/27/2006	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	5/27/2006	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	5/27/2006	
Chrysene	BQL	10.0	1.11	1	5/27/2006	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	5/27/2006	
Di-n-Butylphthalate	BQL	10.0	1.65	1	5/27/2006	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	5/27/2006	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	5/27/2006	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	5/27/2006	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	5/27/2006	
2,4-Dichlorophenol	BQL	10.0	3.75	1	5/27/2006	
Diethylphthalate	BQL	10.0	1.48	1	5/27/2006	
Dimethylphthalate	BQL	10.0	1.04	1	5/27/2006	
2,4-Dimethylphenol	BQL	10.0	9.25	1	5/27/2006	
Di-n-octylphthalate	BQL	10.0	1.16	1	5/27/2006	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	5/27/2006	
2,4-Dinitrophenol	BQL	50.0	4.20	1	5/27/2006	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	5/27/2006	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	5/27/2006	
Diphenylamine *	BQL	10.0	1.53	1	5/27/2006	
Fluoranthene	BQL	10.0	1.41	1	5/27/2006	
Fluorene	BQL	10.0	1.22	1	5/27/2006	
Hexachlorobenzene	BQL	10.0	1.22	1	5/27/2006	
Hexachlorobutadiene	BQL	10.0	1.58	1	5/27/2006	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	5/27/2006	
Hexachloroethane	BQL	10.0	1.58	1	5/27/2006	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	5/27/2006	
Isophorone	BQL	10.0	1.27	1	5/27/2006	
Naphthalene	BQL	10.0	1.08	1	5/27/2006	



Results for Semivolatiles by GCMS 625

Client Sample ID: USTBB190-MW05
 Client Project ID: NV014
 Lab Sample ID: G650-54-5I
 Lab Project ID: G650-54

Analyzed By: MRC
 Date Collected: 5/11/2006 10:10
 Date Received: 5/12/2006
 Date Extracted: 5/18/2006
 Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Nitrobenzene	BQL	10.0	1.32	1	5/27/2006	
2-Nitrophenol	BQL	10.0	3.52	1	5/27/2006	
4-Nitrophenol	BQL	50.0	3.17	1	5/27/2006	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	5/27/2006	
Pentachlorophenol	BQL	50.0	2.83	1	5/27/2006	
Phenanthrene	BQL	10.0	1.38	1	5/27/2006	
Phenol	BQL	10.0	3.38	1	5/27/2006	
Pyrene	BQL	10.0	2.08	1	5/27/2006	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	5/27/2006	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	5/27/2006	

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	6.9	69
2-Fluorophenol	10	6.3	64
Nitrobenzene-d5	10	6.7	67
Phenol-d6	10	6.1	61
2,4,6-Tribromophenol	10	6.2	62
4-Terphenyl-d14	10	7.9	79

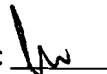
Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By: 

**Results of Library Search for Semivolatile Compounds**
by GCMS

Client Sample ID: USTBB190-MW05
Client Project ID: NV014
Lab Sample ID: G650-54-5I
Lab Project ID: G650-54
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: MRC
Date Collected: 5/11/2006 10:10
Date Received: 5/12/2006
Date Extracted: 5/18/2006
Date Analyzed: 5/27/2006
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Unknown	14.19			8.02
2	Unknown	11.17			5.53
3					
4					
5					
6					
7					
8					
9					
10					

Comment:

Tentatively Identified Compound (TIC) refers to substances which are not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist.

Quantitation is accomplished by relative peak area of the compound compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is equal to or greater than 10% of that of the nearest internal standard. Quantitation provided is an estimate.

Reviewed by: hw



**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTBB190-MW06
 Client Project ID: NV014
 Lab Sample ID: G650-54-6I
 Lab Project ID: G650-54

Analyzed By: MRC
 Date Collected: 5/11/2006 10:29
 Date Received: 5/12/2006
 Date Extracted: 5/18/2006
 Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	5/27/2006	
Acenaphthylene	BQL	10.0	1.12	1	5/27/2006	
Anthracene	BQL	10.0	1.75	1	5/27/2006	
Benzo[a]anthracene	BQL	10.0	1.36	1	5/27/2006	
Benzo[a]pyrene	BQL	10.0	1.27	1	5/27/2006	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	5/27/2006	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	5/27/2006	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	5/27/2006	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	5/27/2006	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	5/27/2006	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	5/27/2006	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	5/27/2006	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	5/27/2006	
Butylbenzylphthalate	BQL	10.0	1.53	1	5/27/2006	
2-Chloronaphthalene	BQL	10.0	1.25	1	5/27/2006	
2-Chlorophenol	BQL	10.0	4.22	1	5/27/2006	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	5/27/2006	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	5/27/2006	
Chrysene	BQL	10.0	1.11	1	5/27/2006	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	5/27/2006	
Di-n-Butylphthalate	BQL	10.0	1.65	1	5/27/2006	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	5/27/2006	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	5/27/2006	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	5/27/2006	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	5/27/2006	
2,4-Dichlorophenol	BQL	10.0	3.75	1	5/27/2006	
Diethylphthalate	BQL	10.0	1.48	1	5/27/2006	
Dimethylphthalate	BQL	10.0	1.04	1	5/27/2006	
2,4-Dimethylphenol	BQL	10.0	9.25	1	5/27/2006	
Di-n-octylphthalate	BQL	10.0	1.16	1	5/27/2006	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	5/27/2006	
2,4-Dinitrophenol	BQL	50.0	4.20	1	5/27/2006	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	5/27/2006	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	5/27/2006	
Diphenylamine *	BQL	10.0	1.53	1	5/27/2006	
Fluoranthene	BQL	10.0	1.41	1	5/27/2006	
Fluorene	BQL	10.0	1.22	1	5/27/2006	
Hexachlorobenzene	BQL	10.0	1.22	1	5/27/2006	
Hexachlorobutadiene	BQL	10.0	1.58	1	5/27/2006	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	5/27/2006	
Hexachloroethane	BQL	10.0	1.58	1	5/27/2006	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	5/27/2006	
Isophorone	BQL	10.0	1.27	1	5/27/2006	
Naphthalene	BQL	10.0	1.08	1	5/27/2006	



**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTBB190-MW06
 Client Project ID: NV014
 Lab Sample ID: G650-54-61
 Lab Project ID: G650-54

Analyzed By: MRC
 Date Collected: 5/11/2006 10:29
 Date Received: 5/12/2006
 Date Extracted: 5/18/2006
 Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Nitrobenzene	BQL	10.0	1.32	1	5/27/2006	
2-Nitrophenol	BQL	10.0	3.52	1	5/27/2006	
4-Nitrophenol	BQL	50.0	3.17	1	5/27/2006	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	5/27/2006	
Pentachlorophenol	BQL	50.0	2.83	1	5/27/2006	
Phenanthrene	BQL	10.0	1.38	1	5/27/2006	
Phenol	BQL	10.0	3.38	1	5/27/2006	
Pyrene	BQL	10.0	2.08	1	5/27/2006	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	5/27/2006	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	5/27/2006	

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	7.1	71
2-Fluorophenol	10	5.9	59
Nitrobenzene-d5	10	6.3	63
Phenol-d6	10	5.7	57
2,4,6-Tribromophenol	10	6.1	61
4-Terphenyl-d14	10	7.8	78

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By: lw

**Results of Library Search for Semivolatile Compounds**
by GCMS

Client Sample ID: USTBB190-MW06
Client Project ID: NV014
Lab Sample ID: G650-54-6I
Lab Project ID: G650-54
Sample Wt/Vol: 500 ML
Dilution: 1

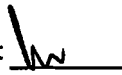
Analyzed By: MRC
Date Collected: 5/11/2006 10:29
Date Received: 5/12/2006
Date Extracted: 5/18/2006
Date Analyzed: 5/27/2006
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Unknown	14.19			5.35
2	Unknown	11.17			5.26
3					
4					
5					
6					
7					
8					
9					
10					

Comment:

Tentatively Identified Compound (TIC) refers to substances which are not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist.

Quantitation is accomplished by relative peak area of the compound compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is equal to or greater than 10% of that of the nearest internal standard. Quantitation provided is an estimate.

Reviewed by: 



Results for Semivolatiles by GCMS 625

Client Sample ID: USTBB190-MW07
 Client Project ID: NV014
 Lab Sample ID: G650-54-7K
 Lab Project ID: G650-54

Analyzed By: MRC
 Date Collected: 5/10/2006 9:59
 Date Received: 5/12/2006
 Date Extracted: 5/17/2006
 Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	1.40	10.0	1.22	1	5/20/2006	J
Acenaphthylene	BQL	10.0	1.12	1	5/20/2006	
Anthracene	BQL	10.0	1.75	1	5/20/2006	
Benzo[a]anthracene	BQL	10.0	1.36	1	5/20/2006	
Benzo[a]pyrene	BQL	10.0	1.27	1	5/20/2006	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	5/20/2006	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	5/20/2006	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	5/20/2006	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	5/20/2006	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	5/20/2006	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	5/20/2006	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	5/20/2006	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	5/20/2006	
Butylbenzylphthalate	BQL	10.0	1.53	1	5/20/2006	
2-Chloronaphthalene	BQL	10.0	1.25	1	5/20/2006	
2-Chlorophenol	BQL	10.0	4.22	1	5/20/2006	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	5/20/2006	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	5/20/2006	
Chrysene	BQL	10.0	1.11	1	5/20/2006	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	5/20/2006	
Di-n-Butylphthalate	BQL	10.0	1.65	1	5/20/2006	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	5/20/2006	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	5/20/2006	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	5/20/2006	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	5/20/2006	
2,4-Dichlorophenol	BQL	10.0	3.75	1	5/20/2006	
Diethylphthalate	BQL	10.0	1.48	1	5/20/2006	
Dimethylphthalate	BQL	10.0	1.04	1	5/20/2006	
2,4-Dimethylphenol	BQL	10.0	9.25	1	5/20/2006	
Di-n-octylphthalate	BQL	10.0	1.16	1	5/20/2006	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	5/20/2006	
2,4-Dinitrophenol	BQL	50.0	4.20	1	5/20/2006	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	5/20/2006	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	5/20/2006	
Diphenylamine *	BQL	10.0	1.53	1	5/20/2006	
Fluoranthene	BQL	10.0	1.41	1	5/20/2006	
Fluorene	2.50	10.0	1.22	1	5/20/2006	J
Hexachlorobenzene	BQL	10.0	1.22	1	5/20/2006	
Hexachlorobutadiene	BQL	10.0	1.58	1	5/20/2006	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	5/20/2006	
Hexachloroethane	BQL	10.0	1.58	1	5/20/2006	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	5/20/2006	
Isophorone	BQL	10.0	1.27	1	5/20/2006	
Naphthalene	99.9	10.0	1.08	1	5/20/2006	



**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTBB190-MW07
 Client Project ID: NV014
 Lab Sample ID: G650-54-7K
 Lab Project ID: G650-54

Analyzed By: MRC
 Date Collected: 5/10/2006 9:59
 Date Received: 5/12/2006
 Date Extracted: 5/17/2006
 Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Nitrobenzene	BQL	10.0	1.32	1	5/20/2006	
2-Nitrophenol	BQL	10.0	3.52	1	5/20/2006	
4-Nitrophenol	BQL	50.0	3.17	1	5/20/2006	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	5/20/2006	
Pentachlorophenol	BQL	50.0	2.83	1	5/20/2006	
Phenanthrene	1.60	10.0	1.38	1	5/20/2006	J
Phenol	BQL	10.0	3.38	1	5/20/2006	
Pyrene	BQL	10.0	2.08	1	5/20/2006	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	5/20/2006	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	5/20/2006	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	6.2	62		
2-Fluorophenol		10	5.4	54		
Nitrobenzene-d5		10	7	70		
Phenol-d6		10	5.9	59		
2,4,6-Tribromophenol		10	7.4	74		
4-Terphenyl-d14		10	8.2	82		

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By: hw



Results of Library Search for Semivolatile Compounds by GCMS

Client Sample ID: USTBB190-MW07

Client Project ID: NV014

Lab Sample ID: G650-54-7K

Lab Project ID: G650-54

Sample Wt/Vol: 500 ML

Dilution: 1

Analyzed By: MRC

Date Collected: 5/10/2006 9:59

Date Received: 5/12/2006

Date Extracted: 5/17/2006

Date Analyzed: 5/20/2006

Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Trimethylbenzene, Isomer of	6.56			514
2	Trimethylbenzene, Isomer of	6.88			190
3	Ethylmethylbenzene, Isomer of	6.14			188
4	Ethylmethylbenzene, Isomer of	6.18			176
5	Trimethylbenzene, Isomer of	6.25			172
6	Aromatic, Unknown	7.04			157
7	Dimethylbenzene, Isomer of	4.87			97.2
8	Diethylbenzene, Isomer of	7.27			87
9	Aromatic, Unknown	8.31			74
10	Trimethylbenzene, Isomer of	6.05			70.3

Comment:

Tentatively Identified Compound (TIC) refers to substances which are not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist.

Quantitation is accomplished by relative peak area of the compound compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is equal to or greater than 10% of that of the nearest internal standard. Quantitation provided is an estimate.

Reviewed by: 



**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTBB190-MW08
 Client Project ID: NV014
 Lab Sample ID: G650-54-81
 Lab Project ID: G650-54

Analyzed By: MRC
 Date Collected: 5/11/2006 10:50
 Date Received: 5/12/2006
 Date Extracted: 5/18/2006
 Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	8.30	10.0	1.22	1	5/27/2006	J
Acenaphthylene	BQL	10.0	1.12	1	5/27/2006	
Anthracene	BQL	10.0	1.75	1	5/27/2006	
Benzo[a]anthracene	BQL	10.0	1.36	1	5/27/2006	
Benzo[a]pyrene	BQL	10.0	1.27	1	5/27/2006	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	5/27/2006	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	5/27/2006	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	5/27/2006	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	5/27/2006	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	5/27/2006	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	5/27/2006	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	5/27/2006	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	5/27/2006	
Butylbenzylphthalate	BQL	10.0	1.53	1	5/27/2006	
2-Chloronaphthalene	BQL	10.0	1.25	1	5/27/2006	
2-Chlorophenol	BQL	10.0	4.22	1	5/27/2006	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	5/27/2006	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	5/27/2006	
Chrysene	BQL	10.0	1.11	1	5/27/2006	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	5/27/2006	
Di-n-Butylphthalate	BQL	10.0	1.65	1	5/27/2006	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	5/27/2006	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	5/27/2006	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	5/27/2006	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	5/27/2006	
2,4-Dichlorophenol	BQL	10.0	3.75	1	5/27/2006	
Diethylphthalate	BQL	10.0	1.48	1	5/27/2006	
Dimethylphthalate	BQL	10.0	1.04	1	5/27/2006	
2,4-Dimethylphenol	BQL	10.0	9.25	1	5/27/2006	
Di-n-octylphthalate	BQL	10.0	1.16	1	5/27/2006	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	5/27/2006	
2,4-Dinitrophenol	BQL	50.0	4.20	1	5/27/2006	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	5/27/2006	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	5/27/2006	
Diphenylamine *	BQL	10.0	1.53	1	5/27/2006	
Fluoranthene	BQL	10.0	1.41	1	5/27/2006	
Fluorene	4.40	10.0	1.22	1	5/27/2006	J
Hexachlorobenzene	BQL	10.0	1.22	1	5/27/2006	
Hexachlorobutadiene	BQL	10.0	1.58	1	5/27/2006	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	5/27/2006	
Hexachloroethane	BQL	10.0	1.58	1	5/27/2006	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	5/27/2006	
Isophorone	BQL	10.0	1.27	1	5/27/2006	
Naphthalene	BQL	10.0	1.08	1	5/27/2006	



Results for Semivolatiles by GCMS 625

Client Sample ID: USTBB190-MW08
 Client Project ID: NV014
 Lab Sample ID: G650-54-8I
 Lab Project ID: G650-54

Analyzed By: MRC
 Date Collected: 5/11/2006 10:50
 Date Received: 5/12/2006
 Date Extracted: 5/18/2006
 Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Nitrobenzene	BQL	10.0	1.32	1	5/27/2006	
2-Nitrophenol	BQL	10.0	3.52	1	5/27/2006	
4-Nitrophenol	BQL	50.0	3.17	1	5/27/2006	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	5/27/2006	
Pentachlorophenol	BQL	50.0	2.83	1	5/27/2006	
Phenanthrene	1.90	10.0	1.38	1	5/27/2006	J
Phenol	BQL	10.0	3.38	1	5/27/2006	
Pyrene	BQL	10.0	2.08	1	5/27/2006	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	5/27/2006	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	5/27/2006	

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	6.8	68
2-Fluorophenol	10	6.2	62
Nitrobenzene-d5	10	6.6	66
Phenol-d6	10	6.2	62
2,4,6-Tribromophenol	10	5.8	58
4-Terphenyl-d14	10	7.5	75

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By: 

**Results of Library Search for Semivolatile Compounds**
by GCMS

Client Sample ID: USTBB190-MW08
Client Project ID: NV014
Lab Sample ID: G650-54-8I
Lab Project ID: G650-54
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: MRC
Date Collected: 5/11/2006 10:50
Date Received: 5/12/2006
Date Extracted: 5/18/2006
Date Analyzed: 5/27/2006
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Unknown	14.20			6.67
2	Unknown	4.96			5.5
3	Unknown	11.17			5.17
4					
5					
6					
7					
8					
9					
10					

Comment:

Tentatively Identified Compound (TIC) refers to substances which are not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist.

Quantitation is accomplished by relative peak area of the compound compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is equal to or greater than 10% of that of the nearest internal standard. Quantitation provided is an estimate.

Reviewed by: 



Results for Semivolatiles by GCMS 625

Client Sample ID: USTBB190-MW09
 Client Project ID: NV014
 Lab Sample ID: G650-54-9I
 Lab Project ID: G650-54

Analyzed By: MRC
 Date Collected: 5/11/2006 13:20
 Date Received: 5/12/2006
 Date Extracted: 5/18/2006
 Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	5/27/2006	
Acenaphthylene	BQL	10.0	1.12	1	5/27/2006	
Anthracene	BQL	10.0	1.75	1	5/27/2006	
Benzo[a]anthracene	BQL	10.0	1.36	1	5/27/2006	
Benzo[a]pyrene	BQL	10.0	1.27	1	5/27/2006	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	5/27/2006	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	5/27/2006	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	5/27/2006	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	5/27/2006	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	5/27/2006	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	5/27/2006	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	5/27/2006	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	5/27/2006	
Butylbenzylphthalate	BQL	10.0	1.53	1	5/27/2006	
2-Chloronaphthalene	BQL	10.0	1.25	1	5/27/2006	
2-Chlorophenol	BQL	10.0	4.22	1	5/27/2006	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	5/27/2006	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	5/27/2006	
Chrysene	BQL	10.0	1.11	1	5/27/2006	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	5/27/2006	
Di-n-Butylphthalate	BQL	10.0	1.65	1	5/27/2006	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	5/27/2006	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	5/27/2006	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	5/27/2006	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	5/27/2006	
2,4-Dichlorophenol	BQL	10.0	3.75	1	5/27/2006	
Diethylphthalate	BQL	10.0	1.48	1	5/27/2006	
Dimethylphthalate	BQL	10.0	1.04	1	5/27/2006	
2,4-Dimethylphenol	BQL	10.0	9.25	1	5/27/2006	
Di-n-octylphthalate	BQL	10.0	1.16	1	5/27/2006	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	5/27/2006	
2,4-Dinitrophenol	BQL	50.0	4.20	1	5/27/2006	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	5/27/2006	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	5/27/2006	
Diphenylamine *	BQL	10.0	1.53	1	5/27/2006	
Fluoranthene	BQL	10.0	1.41	1	5/27/2006	
Fluorene	BQL	10.0	1.22	1	5/27/2006	
Hexachlorobenzene	BQL	10.0	1.22	1	5/27/2006	
Hexachlorobutadiene	BQL	10.0	1.58	1	5/27/2006	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	5/27/2006	
Hexachloroethane	BQL	10.0	1.58	1	5/27/2006	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	5/27/2006	
Isophorone	BQL	10.0	1.27	1	5/27/2006	
Naphthalene	BQL	10.0	1.08	1	5/27/2006	



**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTBB190-MW09
 Client Project ID: NV014
 Lab Sample ID: G650-54-9I
 Lab Project ID: G650-54

Analyzed By: MRC
 Date Collected: 5/11/2006 13:20
 Date Received: 5/12/2006
 Date Extracted: 5/18/2006
 Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Nitrobenzene	BQL	10.0	1.32	1	5/27/2006	
2-Nitrophenol	BQL	10.0	3.52	1	5/27/2006	
4-Nitrophenol	BQL	50.0	3.17	1	5/27/2006	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	5/27/2006	
Pentachlorophenol	BQL	50.0	2.83	1	5/27/2006	
Phenanthrene	BQL	10.0	1.38	1	5/27/2006	
Phenol	BQL	10.0	3.38	1	5/27/2006	
Pyrene	BQL	10.0	2.08	1	5/27/2006	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	5/27/2006	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	5/27/2006	

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	7.7	77
2-Fluorophenol	10	6.4	64
Nitrobenzene-d5	10	7	70
Phenol-d6	10	6.6	66
2,4,6-Tribromophenol	10	6.3	63
4-Terphenyl-d14	10	8.7	87

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By: 

**Results of Library Search for Semivolatile Compounds**
by GCMS

Client Sample ID: USTBB190-MW09
Client Project ID: NV014
Lab Sample ID: G650-54-9I
Lab Project ID: G650-54
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: MRC
Date Collected: 5/11/2006 13:20
Date Received: 5/12/2006
Date Extracted: 5/18/2006
Date Analyzed: 5/27/2006
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Unknown	14.19			6.3
2	Unknown	11.17			5.49
3					
4					
5					
6					
7					
8					
9					
10					

Comment:

Tentatively Identified Compound (TIC) refers to substances which are not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist.

Quantitation is accomplished by relative peak area of the compound compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is equal to or greater than 10% of that of the nearest internal standard. Quantitation provided is an estimate.

Reviewed by: 



**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTBB190-MW10
 Client Project ID: NV014
 Lab Sample ID: G650-54-101
 Lab Project ID: G650-54

Analized By: MRC
 Date Collected: 5/11/2006 11:11
 Date Received: 5/12/2006
 Date Extracted: 5/18/2006
 Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	5/27/2006	
Acenaphthylene	BQL	10.0	1.12	1	5/27/2006	
Anthracene	BQL	10.0	1.75	1	5/27/2006	
Benzo[a]anthracene	BQL	10.0	1.36	1	5/27/2006	
Benzo[a]pyrene	BQL	10.0	1.27	1	5/27/2006	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	5/27/2006	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	5/27/2006	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	5/27/2006	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	5/27/2006	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	5/27/2006	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	5/27/2006	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	5/27/2006	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	5/27/2006	
Butylbenzylphthalate	BQL	10.0	1.53	1	5/27/2006	
2-Chloronaphthalene	BQL	10.0	1.25	1	5/27/2006	
2-Chlorophenol	BQL	10.0	4.22	1	5/27/2006	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	5/27/2006	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	5/27/2006	
Chrysene	BQL	10.0	1.11	1	5/27/2006	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	5/27/2006	
Di-n-Butylphthalate	BQL	10.0	1.65	1	5/27/2006	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	5/27/2006	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	5/27/2006	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	5/27/2006	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	5/27/2006	
2,4-Dichlorophenol	BQL	10.0	3.75	1	5/27/2006	
Diethylphthalate	BQL	10.0	1.48	1	5/27/2006	
Dimethylphthalate	BQL	10.0	1.04	1	5/27/2006	
2,4-Dimethylphenol	BQL	10.0	9.25	1	5/27/2006	
Di-n-octylphthalate	BQL	10.0	1.16	1	5/27/2006	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	5/27/2006	
2,4-Dinitrophenol	BQL	50.0	4.20	1	5/27/2006	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	5/27/2006	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	5/27/2006	
Diphenylamine *	BQL	10.0	1.53	1	5/27/2006	
Fluoranthene	BQL	10.0	1.41	1	5/27/2006	
Fluorene	BQL	10.0	1.22	1	5/27/2006	
Hexachlorobenzene	BQL	10.0	1.22	1	5/27/2006	
Hexachlorobutadiene	BQL	10.0	1.58	1	5/27/2006	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	5/27/2006	
Hexachloroethane	BQL	10.0	1.58	1	5/27/2006	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	5/27/2006	
Isophorone	BQL	10.0	1.27	1	5/27/2006	
Naphthalene	BQL	10.0	1.08	1	5/27/2006	



**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTBB190-MW10
 Client Project ID: NV014
 Lab Sample ID: G650-54-10I
 Lab Project ID: G650-54

Analyzed By: MRC
 Date Collected: 5/11/2006 11:11
 Date Received: 5/12/2006
 Date Extracted: 5/18/2006
 Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Nitrobenzene	BQL	10.0	1.32	1	5/27/2006	
2-Nitrophenol	BQL	10.0	3.52	1	5/27/2006	
4-Nitrophenol	BQL	50.0	3.17	1	5/27/2006	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	5/27/2006	
Pentachlorophenol	BQL	50.0	2.83	1	5/27/2006	
Phenanthrene	BQL	10.0	1.38	1	5/27/2006	
Phenol	BQL	10.0	3.38	1	5/27/2006	
Pyrene	BQL	10.0	2.08	1	5/27/2006	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	5/27/2006	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	5/27/2006	

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	5.8	58
2-Fluorophenol	10	4.7	47
Nitrobenzene-d5	10	5	50
Phenol-d6	10	4.5	45
2,4,6-Tribromophenol	10	4.8	48
4-Terphenyl-d14	10	6.7	67

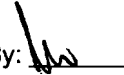
Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By: 

**Results of Library Search for Semivolatile Compounds**
by GCMS

Client Sample ID: USTBB190-MW10
Client Project ID: NV014
Lab Sample ID: G650-54-101
Lab Project ID: G650-54
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: MRC
Date Collected: 5/11/2006 11:11
Date Received: 5/12/2006
Date Extracted: 5/18/2006
Date Analyzed: 5/27/2006
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Unknown	4.36			4.32
2	Unknown	11.17			4.26
3					
4					
5					
6					
7					
8					
9					
10					

Comment:

Tentatively Identified Compound (TIC) refers to substances which are not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist.

Quantitation is accomplished by relative peak area of the compound compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is equal to or greater than 10% of that of the nearest internal standard. Quantitation provided is an estimate.

Reviewed by: 



**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTBB190-MW11
 Client Project ID: NV014
 Lab Sample ID: G650-54-11K
 Lab Project ID: G650-54

Analyzed By: MRC
 Date Collected: 5/11/2006 9:54
 Date Received: 5/12/2006
 Date Extracted: 5/18/2006
 Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	5/27/2006	
Acenaphthylene	BQL	10.0	1.12	1	5/27/2006	
Anthracene	BQL	10.0	1.75	1	5/27/2006	
Benzo[a]anthracene	BQL	10.0	1.36	1	5/27/2006	
Benzo[a]pyrene	BQL	10.0	1.27	1	5/27/2006	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	5/27/2006	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	5/27/2006	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	5/27/2006	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	5/27/2006	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	5/27/2006	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	5/27/2006	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	5/27/2006	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	5/27/2006	
Butylbenzylphthalate	BQL	10.0	1.53	1	5/27/2006	
2-Chloronaphthalene	BQL	10.0	1.25	1	5/27/2006	
2-Chlorophenol	BQL	10.0	4.22	1	5/27/2006	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	5/27/2006	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	5/27/2006	
Chrysene	BQL	10.0	1.11	1	5/27/2006	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	5/27/2006	
Di-n-Butylphthalate	BQL	10.0	1.65	1	5/27/2006	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	5/27/2006	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	5/27/2006	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	5/27/2006	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	5/27/2006	
2,4-Dichlorophenol	BQL	10.0	3.75	1	5/27/2006	
Diethylphthalate	BQL	10.0	1.48	1	5/27/2006	
Dimethylphthalate	BQL	10.0	1.04	1	5/27/2006	
2,4-Dimethylphenol	BQL	10.0	9.25	1	5/27/2006	
Di-n-octylphthalate	BQL	10.0	1.16	1	5/27/2006	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	5/27/2006	
2,4-Dinitrophenol	BQL	50.0	4.20	1	5/27/2006	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	5/27/2006	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	5/27/2006	
Diphenylamine *	BQL	10.0	1.53	1	5/27/2006	
Fluoranthene	BQL	10.0	1.41	1	5/27/2006	
Fluorene	BQL	10.0	1.22	1	5/27/2006	
Hexachlorobenzene	BQL	10.0	1.22	1	5/27/2006	
Hexachlorobutadiene	BQL	10.0	1.58	1	5/27/2006	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	5/27/2006	
Hexachloroethane	BQL	10.0	1.58	1	5/27/2006	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	5/27/2006	
Isophorone	BQL	10.0	1.27	1	5/27/2006	
Naphthalene	BQL	10.0	1.08	1	5/27/2006	



**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTBB190-MW11
 Client Project ID: NV014
 Lab Sample ID: G650-54-11K
 Lab Project ID: G650-54

Analyzed By: MRC
 Date Collected: 5/11/2006 9:54
 Date Received: 5/12/2006
 Date Extracted: 5/18/2006
 Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Nitrobenzene	BQL	10.0	1.32	1	5/27/2006	
2-Nitrophenol	BQL	10.0	3.52	1	5/27/2006	
4-Nitrophenol	BQL	50.0	3.17	1	5/27/2006	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	5/27/2006	
Pentachlorophenol	BQL	50.0	2.83	1	5/27/2006	
Phenanthrene	BQL	10.0	1.38	1	5/27/2006	
Phenol	BQL	10.0	3.38	1	5/27/2006	
Pyrene	BQL	10.0	2.08	1	5/27/2006	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	5/27/2006	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	5/27/2006	

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	7	70
2-Fluorophenol	10	6.1	61
Nitrobenzene-d5	10	6.6	66
Phenol-d6	10	6.1	61
2,4,6-Tribromophenol	10	5.9	59
4-Terphenyl-d14	10	8.3	83

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By: 

**Results of Library Search for Semivolatile Compounds**
by GCMS

Client Sample ID: USTBB190-MW11
Client Project ID: NV014
Lab Sample ID: G650-54-11K
Lab Project ID: G650-54
Sample Wt/Vol: 500 ML
Dilution: 1

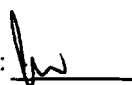
Analyzed By: MRC
Date Collected: 5/11/2006 9:54
Date Received: 5/12/2006
Date Extracted: 5/18/2006
Date Analyzed: 5/27/2006
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Unknown	4.96			7.26
2					
3					
4					
5					
6					
7					
8					
9					
10					

Comment:

Tentatively Identified Compound (TIC) refers to substances which are not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist.

Quantitation is accomplished by relative peak area of the compound compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is equal to or greater than 10% of that of the nearest internal standard. Quantitation provided is an estimate.

Reviewed by: 



**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTBB190-MW12
 Client Project ID: NV014
 Lab Sample ID: G650-54-12I
 Lab Project ID: G650-54

Analyzed By: MRC
 Date Collected: 5/11/2006 13:21
 Date Received: 5/12/2006
 Date Extracted: 5/18/2006
 Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	5.10	10.0	1.22	1	5/27/2006	J
Acenaphthylene	BQL	10.0	1.12	1	5/27/2006	
Anthracene	BQL	10.0	1.75	1	5/27/2006	
Benzo[a]anthracene	BQL	10.0	1.36	1	5/27/2006	
Benzo[a]pyrene	BQL	10.0	1.27	1	5/27/2006	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	5/27/2006	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	5/27/2006	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	5/27/2006	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	5/27/2006	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	5/27/2006	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	5/27/2006	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	5/27/2006	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	5/27/2006	
Butylbenzylphthalate	BQL	10.0	1.53	1	5/27/2006	
2-Chloronaphthalene	BQL	10.0	1.25	1	5/27/2006	
2-Chlorophenol	BQL	10.0	4.22	1	5/27/2006	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	5/27/2006	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	5/27/2006	
Chrysene	BQL	10.0	1.11	1	5/27/2006	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	5/27/2006	
Di-n-Butylphthalate	BQL	10.0	1.65	1	5/27/2006	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	5/27/2006	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	5/27/2006	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	5/27/2006	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	5/27/2006	
2,4-Dichlorophenol	BQL	10.0	3.75	1	5/27/2006	
Diethylphthalate	BQL	10.0	1.48	1	5/27/2006	
Dimethylphthalate	BQL	10.0	1.04	1	5/27/2006	
2,4-Dimethylphenol	BQL	10.0	9.25	1	5/27/2006	
Di-n-octylphthalate	BQL	10.0	1.16	1	5/27/2006	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	5/27/2006	
2,4-Dinitrophenol	BQL	50.0	4.20	1	5/27/2006	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	5/27/2006	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	5/27/2006	
Diphenylamine *	BQL	10.0	1.53	1	5/27/2006	
Fluoranthene	BQL	10.0	1.41	1	5/27/2006	
Fluorene	1.30	10.0	1.22	1	5/27/2006	J
Hexachlorobenzene	BQL	10.0	1.22	1	5/27/2006	
Hexachlorobutadiene	BQL	10.0	1.58	1	5/27/2006	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	5/27/2006	
Hexachloroethane	BQL	10.0	1.58	1	5/27/2006	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	5/27/2006	
Isophorone	BQL	10.0	1.27	1	5/27/2006	
Naphthalene	3.80	10.0	1.08	1	5/27/2006	J



**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTBB190-MW12
 Client Project ID: NV014
 Lab Sample ID: G650-54-12I
 Lab Project ID: G650-54

Analyzed By: MRC
 Date Collected: 5/11/2006 13:21
 Date Received: 5/12/2006
 Date Extracted: 5/18/2006
 Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Nitrobenzene	BQL	10.0	1.32	1	5/27/2006	
2-Nitrophenol	BQL	10.0	3.52	1	5/27/2006	
4-Nitrophenol	BQL	50.0	3.17	1	5/27/2006	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	5/27/2006	
Pentachlorophenol	BQL	50.0	2.83	1	5/27/2006	
Phenanthrene	BQL	10.0	1.38	1	5/27/2006	
Phenol	BQL	10.0	3.38	1	5/27/2006	
Pyrene	BQL	10.0	2.08	1	5/27/2006	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	5/27/2006	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	5/27/2006	

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	7.4	74
2-Fluorophenol	10	6.3	64
Nitrobenzene-d5	10	6.8	68
Phenol-d6	10	6.3	63
2,4,6-Tribromophenol	10	6.2	62
4-Terphenyl-d14	10	8.4	84

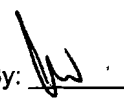
Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By: 

**Results of Library Search for Semivolatile Compounds**
by GCMS

Client Sample ID: USTBB190-MW12
Client Project ID: NV014
Lab Sample ID: G650-54-12I
Lab Project ID: G650-54
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: MRC
Date Collected: 5/11/2006 13:21
Date Received: 5/12/2006
Date Extracted: 5/18/2006
Date Analyzed: 5/27/2006
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Unknown	4.96			6.57
2					
3					
4					
5					
6					
7					
8					
9					
10					

Comment:

Tentatively Identified Compound (TIC) refers to substances which are not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist.

Quantitation is accomplished by relative peak area of the compound compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is equal to or greater than 10% of that of the nearest internal standard. Quantitation provided is an estimate.

Reviewed by: 



**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTBB190-MW13
 Client Project ID: NV014
 Lab Sample ID: G650-54-13I
 Lab Project ID: G650-54

Analyzed By: MRC
 Date Collected: 5/11/2006 14:40
 Date Received: 5/12/2006
 Date Extracted: 5/18/2006
 Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	5/27/2006	
Acenaphthylene	BQL	10.0	1.12	1	5/27/2006	
Anthracene	BQL	10.0	1.75	1	5/27/2006	
Benzo[a]anthracene	BQL	10.0	1.36	1	5/27/2006	
Benzo[a]pyrene	BQL	10.0	1.27	1	5/27/2006	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	5/27/2006	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	5/27/2006	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	5/27/2006	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	5/27/2006	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	5/27/2006	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	5/27/2006	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	5/27/2006	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	5/27/2006	
Butylbenzylphthalate	BQL	10.0	1.53	1	5/27/2006	
2-Chloronaphthalene	BQL	10.0	1.25	1	5/27/2006	
2-Chlorophenol	BQL	10.0	4.22	1	5/27/2006	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	5/27/2006	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	5/27/2006	
Chrysene	BQL	10.0	1.11	1	5/27/2006	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	5/27/2006	
Di-n-Butylphthalate	BQL	10.0	1.65	1	5/27/2006	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	5/27/2006	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	5/27/2006	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	5/27/2006	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	5/27/2006	
2,4-Dichlorophenol	BQL	10.0	3.75	1	5/27/2006	
Diethylphthalate	BQL	10.0	1.48	1	5/27/2006	
Dimethylphthalate	BQL	10.0	1.04	1	5/27/2006	
2,4-Dimethylphenol	BQL	10.0	9.25	1	5/27/2006	
Di-n-octylphthalate	BQL	10.0	1.16	1	5/27/2006	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	5/27/2006	
2,4-Dinitrophenol	BQL	50.0	4.20	1	5/27/2006	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	5/27/2006	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	5/27/2006	
Diphenylamine *	BQL	10.0	1.53	1	5/27/2006	
Fluoranthene	BQL	10.0	1.41	1	5/27/2006	
Fluorene	BQL	10.0	1.22	1	5/27/2006	
Hexachlorobenzene	BQL	10.0	1.22	1	5/27/2006	
Hexachlorobutadiene	BQL	10.0	1.58	1	5/27/2006	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	5/27/2006	
Hexachloroethane	BQL	10.0	1.58	1	5/27/2006	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	5/27/2006	
Isophorone	BQL	10.0	1.27	1	5/27/2006	
Naphthalene	BQL	10.0	1.08	1	5/27/2006	



**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTBB190-MW13
 Client Project ID: NV014
 Lab Sample ID: G650-54-13I
 Lab Project ID: G650-54

Analyzed By: MRC
 Date Collected: 5/11/2006 14:40
 Date Received: 5/12/2006
 Date Extracted: 5/18/2006
 Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Nitrobenzene	BQL	10.0	1.32	1	5/27/2006	
2-Nitrophenol	BQL	10.0	3.52	1	5/27/2006	
4-Nitrophenol	BQL	50.0	3.17	1	5/27/2006	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	5/27/2006	
Pentachlorophenol	BQL	50.0	2.83	1	5/27/2006	
Phenanthrene	BQL	10.0	1.38	1	5/27/2006	
Phenol	BQL	10.0	3.38	1	5/27/2006	
Pyrene	BQL	10.0	2.08	1	5/27/2006	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	5/27/2006	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	5/27/2006	

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	6.7	67
2-Fluorophenol	10	6.2	62
Nitrobenzene-d5	10	6.6	66
Phenol-d6	10	6	60
2,4,6-Tribromophenol	10	5.5	55
4-Terphenyl-d14	10	8.1	81

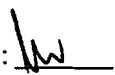
Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By: 



Results of Library Search for Semivolatile Compounds
by GCMS

Client Sample ID: USTBB190-MW13
Client Project ID: NV014
Lab Sample ID: G650-54-131
Lab Project ID: G650-54
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: MRC
Date Collected: 5/11/2006 14:40
Date Received: 5/12/2006
Date Extracted: 5/18/2006
Date Analyzed: 5/27/2006
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Unknown	7.58			5.27
2					
3					
4					
5					
6					
7					
8					
9					
10					

Comment:

Tentatively Identified Compound (TIC) refers to substances which are not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist.

Quantitation is accomplished by relative peak area of the compound compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is equal to or greater than 10% of that of the nearest internal standard. Quantitation provided is an estimate.

Reviewed by: 



**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTBB190-MW15
 Client Project ID: NV014
 Lab Sample ID: G650-54-14I
 Lab Project ID: G650-54

Analyzed By: MRC
 Date Collected: 5/10/2006 11:10
 Date Received: 5/12/2006
 Date Extracted: 5/17/2006
 Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	5/20/2006	
Acenaphthylene	BQL	10.0	1.12	1	5/20/2006	
Anthracene	BQL	10.0	1.75	1	5/20/2006	
Benzo[a]anthracene	BQL	10.0	1.36	1	5/20/2006	
Benzo[a]pyrene	BQL	10.0	1.27	1	5/20/2006	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	5/20/2006	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	5/20/2006	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	5/20/2006	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	5/20/2006	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	5/20/2006	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	5/20/2006	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	5/20/2006	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	5/20/2006	
Butylbenzylphthalate	BQL	10.0	1.53	1	5/20/2006	
2-Chloronaphthalene	BQL	10.0	1.25	1	5/20/2006	
2-Chlorophenol	BQL	10.0	4.22	1	5/20/2006	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	5/20/2006	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	5/20/2006	
Chrysene	BQL	10.0	1.11	1	5/20/2006	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	5/20/2006	
Di-n-Butylphthalate	BQL	10.0	1.65	1	5/20/2006	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	5/20/2006	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	5/20/2006	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	5/20/2006	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	5/20/2006	
2,4-Dichlorophenol	BQL	10.0	3.75	1	5/20/2006	
Diethylphthalate	BQL	10.0	1.48	1	5/20/2006	
Dimethylphthalate	BQL	10.0	1.04	1	5/20/2006	
2,4-Dimethylphenol	BQL	10.0	9.25	1	5/20/2006	
Di-n-octylphthalate	BQL	10.0	1.16	1	5/20/2006	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	5/20/2006	
2,4-Dinitrophenol	BQL	50.0	4.20	1	5/20/2006	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	5/20/2006	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	5/20/2006	
Diphenylamine *	BQL	10.0	1.53	1	5/20/2006	
Fluoranthene	BQL	10.0	1.41	1	5/20/2006	
Fluorene	BQL	10.0	1.22	1	5/20/2006	
Hexachlorobenzene	BQL	10.0	1.22	1	5/20/2006	
Hexachlorobutadiene	BQL	10.0	1.58	1	5/20/2006	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	5/20/2006	
Hexachloroethane	BQL	10.0	1.58	1	5/20/2006	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	5/20/2006	
Isophorone	BQL	10.0	1.27	1	5/20/2006	
Naphthalene	BQL	10.0	1.08	1	5/20/2006	



**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTBB190-MW15
 Client Project ID: NV014
 Lab Sample ID: G650-54-141
 Lab Project ID: G650-54

Analyzed By: MRC
 Date Collected: 5/10/2006 11:10
 Date Received: 5/12/2006
 Date Extracted: 5/17/2006
 Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Nitrobenzene	BQL	10.0	1.32	1	5/20/2006	
2-Nitrophenol	BQL	10.0	3.52	1	5/20/2006	
4-Nitrophenol	BQL	50.0	3.17	1	5/20/2006	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	5/20/2006	
Pentachlorophenol	BQL	50.0	2.83	1	5/20/2006	
Phenanthrene	BQL	10.0	1.38	1	5/20/2006	
Phenol	BQL	10.0	3.38	1	5/20/2006	
Pyrene	BQL	10.0	2.08	1	5/20/2006	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	5/20/2006	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	5/20/2006	

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	7.6	76
2-Fluorophenol	10	6.3	63
Nitrobenzene-d5	10	7.3	73
Phenol-d6	10	6.1	61
2,4,6-Tribromophenol	10	7.5	75
4-Terphenyl-d14	10	9.3	93

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By: 



Results of Library Search for Semivolatile Compounds
by GCMS

Client Sample ID: USTBB190-MW15
Client Project ID: NV014
Lab Sample ID: G650-54-141
Lab Project ID: G650-54
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: MRC
Date Collected: 5/10/2006 11:10
Date Received: 5/12/2006
Date Extracted: 5/17/2006
Date Analyzed: 5/20/2006
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	No library search compounds detected.				
2					
3					
4					
5					
6					
7					
8					
9					
10					

Comment:

Tentatively Identified Compound (TIC) refers to substances which are not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist.

Quantitation is accomplished by relative peak area of the compound compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is equal to or greater than 10% of that of the nearest internal standard. Quantitation provided is an estimate.

Reviewed by: 



Results for Semivolatiles by GCMS 625

Client Sample ID: USTBB190-MW16
Client Project ID: NV014
Lab Sample ID: G650-54-15H
Lab Project ID: G650-54

Analyzed By: MRC
Date Collected: 5/10/2006 15:00
Date Received: 5/12/2006
Date Extracted: 5/17/2006
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	1.50	10.0	1.22	1	5/26/2006	J
Acenaphthylene	BQL	10.0	1.12	1	5/26/2006	
Anthracene	BQL	10.0	1.75	1	5/26/2006	
Benzo[a]anthracene	BQL	10.0	1.36	1	5/26/2006	
Benzo[a]pyrene	BQL	10.0	1.27	1	5/26/2006	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	5/26/2006	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	5/26/2006	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	5/26/2006	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	5/26/2006	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	5/26/2006	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	5/26/2006	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	5/26/2006	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	5/26/2006	
Butylbenzylphthalate	BQL	10.0	1.53	1	5/26/2006	
2-Chloronaphthalene	BQL	10.0	1.25	1	5/26/2006	
2-Chlorophenol	BQL	10.0	4.22	1	5/26/2006	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	5/26/2006	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	5/26/2006	
Chrysene	BQL	10.0	1.11	1	5/26/2006	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	5/26/2006	
Di-n-Butylphthalate	BQL	10.0	1.65	1	5/26/2006	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	5/26/2006	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	5/26/2006	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	5/26/2006	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	5/26/2006	
2,4-Dichlorophenol	BQL	10.0	3.75	1	5/26/2006	
Diethylphthalate	BQL	10.0	1.48	1	5/26/2006	
Dimethylphthalate	BQL	10.0	1.04	1	5/26/2006	
2,4-Dimethylphenol	BQL	10.0	9.25	1	5/26/2006	
Di-n-octylphthalate	BQL	10.0	1.16	1	5/26/2006	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	5/26/2006	
2,4-Dinitrophenol	BQL	50.0	4.20	1	5/26/2006	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	5/26/2006	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	5/26/2006	
Diphenylamine *	BQL	10.0	1.53	1	5/26/2006	
Fluoranthene	BQL	10.0	1.41	1	5/26/2006	
Fluorene	2.10	10.0	1.22	1	5/26/2006	J
Hexachlorobenzene	BQL	10.0	1.22	1	5/26/2006	
Hexachlorobutadiene	BQL	10.0	1.58	1	5/26/2006	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	5/26/2006	
Hexachloroethane	BQL	10.0	1.58	1	5/26/2006	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	5/26/2006	
Isophorone	BQL	10.0	1.27	1	5/26/2006	
Naphthalene	151	10.0	1.08	1	5/26/2006	



**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTBB190-MW16
 Client Project ID: NV014
 Lab Sample ID: G650-54-15H
 Lab Project ID: G650-54

Analyzed By: MRC
 Date Collected: 5/10/2006 15:00
 Date Received: 5/12/2006
 Date Extracted: 5/17/2006
 Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Nitrobenzene	BQL	10.0	1.32	1	5/26/2006	
2-Nitrophenol	BQL	10.0	3.52	1	5/26/2006	
4-Nitrophenol	BQL	50.0	3.17	1	5/26/2006	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	5/26/2006	
Pentachlorophenol	BQL	50.0	2.83	1	5/26/2006	
Phenanthrene	BQL	10.0	1.38	1	5/26/2006	
Phenol	BQL	10.0	3.38	1	5/26/2006	
Pyrene	BQL	10.0	2.08	1	5/26/2006	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	5/26/2006	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	5/26/2006	

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	6.4	64
2-Fluorophenol	10	5.2	51
Nitrobenzene-d5	10	7.1	71
Phenol-d6	10	5.8	58
2,4,6-Tribromophenol	10	7.9	79
4-Terphenyl-d14	10	7.7	77

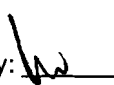
Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By: 



Results of Library Search for Semivolatile Compounds by GCMS

Client Sample ID: USTBB190-MW16
 Client Project ID: NV014
 Lab Sample ID: G650-54-15H
 Lab Project ID: G650-54
 Sample Wt/Vol: 500 ML
 Dilution: 1

Analyzed By: MRC
 Date Collected: 5/10/2006 15:00
 Date Received: 5/12/2006
 Date Extracted: 5/17/2006
 Date Analyzed: 5/26/2006
 Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Trimethylbenzene, Isomer of	6.40			665
2	Trimethylbenzene, Isomer of	6.72			269
3	Ethylmethylbenzene, Isomer of	6.02			229
4	Aromatic, Unknown	6.88			223
5	Trimethylbenzene, Isomer of	6.09			214
6	Dimethylbenzene, Isomer of	4.83			205
7	Dimethylbenzene, Isomer of	4.70			151
8	Ethylmethylbenzene, Isomer of	5.98			148
9	Ethylmethylbenzene, Isomer of	7.11			131
10	Propylbenzene	5.89	000103-65-1	91	107

Comment:

Tentatively Identified Compound (TIC) refers to substances which are not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist.

Quantitation is accomplished by relative peak area of the compound compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is equal to or greater than 10% of that of the nearest internal standard. Quantitation provided is an estimate.

Reviewed by: lw



**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTBB190-MW17
 Client Project ID: NV014
 Lab Sample ID: G650-54-16H
 Lab Project ID: G650-54

Analyzed By: MRC
 Date Collected: 5/10/2006 11:23
 Date Received: 5/12/2006
 Date Extracted: 5/17/2006
 Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	5/26/2006	
Acenaphthylene	BQL	10.0	1.12	1	5/26/2006	
Anthracene	BQL	10.0	1.75	1	5/26/2006	
Benzo[a]anthracene	BQL	10.0	1.36	1	5/26/2006	
Benzo[a]pyrene	BQL	10.0	1.27	1	5/26/2006	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	5/26/2006	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	5/26/2006	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	5/26/2006	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	5/26/2006	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	5/26/2006	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	5/26/2006	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	5/26/2006	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	5/26/2006	
Butylbenzylphthalate	BQL	10.0	1.53	1	5/26/2006	
2-Chloronaphthalene	BQL	10.0	1.25	1	5/26/2006	
2-Chlorophenol	BQL	10.0	4.22	1	5/26/2006	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	5/26/2006	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	5/26/2006	
Chrysene	BQL	10.0	1.11	1	5/26/2006	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	5/26/2006	
Di-n-Butylphthalate	BQL	10.0	1.65	1	5/26/2006	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	5/26/2006	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	5/26/2006	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	5/26/2006	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	5/26/2006	
2,4-Dichlorophenol	BQL	10.0	3.75	1	5/26/2006	
Diethylphthalate	BQL	10.0	1.48	1	5/26/2006	
Dimethylphthalate	BQL	10.0	1.04	1	5/26/2006	
2,4-Dimethylphenol	BQL	10.0	9.25	1	5/26/2006	
Di-n-octylphthalate	BQL	10.0	1.16	1	5/26/2006	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	5/26/2006	
2,4-Dinitrophenol	BQL	50.0	4.20	1	5/26/2006	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	5/26/2006	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	5/26/2006	
Diphenylamine *	BQL	10.0	1.53	1	5/26/2006	
Fluoranthene	BQL	10.0	1.41	1	5/26/2006	
Fluorene	BQL	10.0	1.22	1	5/26/2006	
Hexachlorobenzene	BQL	10.0	1.22	1	5/26/2006	
Hexachlorobutadiene	BQL	10.0	1.58	1	5/26/2006	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	5/26/2006	
Hexachloroethane	BQL	10.0	1.58	1	5/26/2006	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	5/26/2006	
Isophorone	BQL	10.0	1.27	1	5/26/2006	
Naphthalene	BQL	10.0	1.08	1	5/26/2006	



**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTBB190-MW17
 Client Project ID: NV014
 Lab Sample ID: G650-54-16H
 Lab Project ID: G650-54

Analyzed By: MRC
 Date Collected: 5/10/2006 11:23
 Date Received: 5/12/2006
 Date Extracted: 5/17/2006
 Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Nitrobenzene	BQL	10.0	1.32	1	5/26/2006	
2-Nitrophenol	BQL	10.0	3.52	1	5/26/2006	
4-Nitrophenol	BQL	50.0	3.17	1	5/26/2006	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	5/26/2006	
Pentachlorophenol	BQL	50.0	2.83	1	5/26/2006	
Phenanthrene	BQL	10.0	1.38	1	5/26/2006	
Phenol	BQL	10.0	3.38	1	5/26/2006	
Pyrene	BQL	10.0	2.08	1	5/26/2006	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	5/26/2006	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	5/26/2006	

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	6.9	69
2-Fluorophenol	10	6.1	61
Nitrobenzene-d5	10	6.8	68
Phenol-d6	10	6.7	67
2,4,6-Tribromophenol	10	7.5	75
4-Terphenyl-d14	10	8.1	81

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By: 



Results of Library Search for Semivolatile Compounds
by GCMS

Client Sample ID: USTBB190-MW17
Client Project ID: NV014
Lab Sample ID: G650-54-16H
Lab Project ID: G650-54
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: MRC
Date Collected: 5/10/2006 11:23
Date Received: 5/12/2006
Date Extracted: 5/17/2006
Date Analyzed: 5/26/2006
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	No library search compounds detected.				
2					
3					
4					
5					
6					
7					
8					
9					
10					

Comment:

Tentatively Identified Compound (TIC) refers to substances which are not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist.

Quantitation is accomplished by relative peak area of the compound compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is equal to or greater than 10% of that of the nearest internal standard. Quantitation provided is an estimate.

Reviewed by: 



Results for Semivolatiles by GCMS 625

Client Sample ID: Duplicate
Client Project ID: NV014
Lab Sample ID: G650-54-17H
Lab Project ID: G650-54

Analyzed By: MRC
Date Collected: 5/10/2006 0:00
Date Received: 5/12/2006
Date Extracted: 5/17/2006
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	5/26/2006	
Acenaphthylene	BQL	10.0	1.12	1	5/26/2006	
Anthracene	BQL	10.0	1.75	1	5/26/2006	
Benzo[a]anthracene	BQL	10.0	1.36	1	5/26/2006	
Benzo[a]pyrene	BQL	10.0	1.27	1	5/26/2006	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	5/26/2006	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	5/26/2006	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	5/26/2006	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	5/26/2006	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	5/26/2006	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	5/26/2006	
Bis(2-ethylhexyl)phthalate	1.40	10.0	1.33	1	5/26/2006	J
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	5/26/2006	
Butylbenzylphthalate	BQL	10.0	1.53	1	5/26/2006	
2-Chloronaphthalene	BQL	10.0	1.25	1	5/26/2006	
2-Chlorophenol	BQL	10.0	4.22	1	5/26/2006	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	5/26/2006	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	5/26/2006	
Chrysene	BQL	10.0	1.11	1	5/26/2006	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	5/26/2006	
Di-n-Butylphthalate	BQL	10.0	1.65	1	5/26/2006	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	5/26/2006	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	5/26/2006	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	5/26/2006	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	5/26/2006	
2,4-Dichlorophenol	BQL	10.0	3.75	1	5/26/2006	
Diethylphthalate	BQL	10.0	1.48	1	5/26/2006	
Dimethylphthalate	BQL	10.0	1.04	1	5/26/2006	
2,4-Dimethylphenol	BQL	10.0	9.25	1	5/26/2006	
Di-n-octylphthalate	BQL	10.0	1.16	1	5/26/2006	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	5/26/2006	
2,4-Dinitrophenol	BQL	50.0	4.20	1	5/26/2006	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	5/26/2006	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	5/26/2006	
Diphenylamine *	BQL	10.0	1.53	1	5/26/2006	
Fluoranthene	BQL	10.0	1.41	1	5/26/2006	
Fluorene	BQL	10.0	1.22	1	5/26/2006	
Hexachlorobenzene	BQL	10.0	1.22	1	5/26/2006	
Hexachlorobutadiene	BQL	10.0	1.58	1	5/26/2006	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	5/26/2006	
Hexachloroethane	BQL	10.0	1.58	1	5/26/2006	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	5/26/2006	
Isophorone	BQL	10.0	1.27	1	5/26/2006	
Naphthalene	BQL	10.0	1.08	1	5/26/2006	



**Results for Semivolatiles
by GCMS 625**

Client Sample ID: Duplicate
 Client Project ID: NV014
 Lab Sample ID: G650-54-17H
 Lab Project ID: G650-54

Analyzed By: MRC
 Date Collected: 5/10/2006 0:00
 Date Received: 5/12/2006
 Date Extracted: 5/17/2006
 Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Nitrobenzene	BQL	10.0	1.32	1	5/26/2006	
2-Nitrophenol	BQL	10.0	3.52	1	5/26/2006	
4-Nitrophenol	BQL	50.0	3.17	1	5/26/2006	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	5/26/2006	
Pentachlorophenol	BQL	50.0	2.83	1	5/26/2006	
Phenanthrene	BQL	10.0	1.38	1	5/26/2006	
Phenol	BQL	10.0	3.38	1	5/26/2006	
Pyrene	BQL	10.0	2.08	1	5/26/2006	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	5/26/2006	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	5/26/2006	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	6.9	69		
2-Fluorophenol		10	6.1	61		
Nitrobenzene-d5		10	6.9	69		
Phenol-d6		10	6.7	67		
2,4,6-Tribromophenol		10	7.5	75		
4-Terphenyl-d14		10	8.2	82		

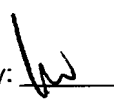
Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By: 

**Results of Library Search for Semivolatile Compounds**
by GCMS

Client Sample ID: Duplicate
Client Project ID: NV014
Lab Sample ID: G650-54-17H
Lab Project ID: G650-54
Sample Wt/Vol: 500 ML
Dilution: 1

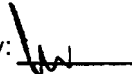
Analyzed By: MRC
Date Collected: 5/10/2006 0:00
Date Received: 5/12/2006
Date Extracted: 5/17/2006
Date Analyzed: 5/26/2006
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	No library search compounds detected.				
2					
3					
4					
5					
6					
7					
8					
9					
10					

Comment:

Tentatively Identified Compound (TIC) refers to substances which are not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist.

Quantitation is accomplished by relative peak area of the compound compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is equal to or greater than 10% of that of the nearest internal standard. Quantitation provided is an estimate.

Reviewed by: 



**Results for Semivolatiles
by GCMS 625**

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID: PB5185
Lab Project ID:

Analyzed By: MRC
Date Collected:
Date Received:
Date Extracted: 5/17/2006
Matrix: WATER

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	5/22/2006	
Acenaphthylene	BQL	10.0	1.12	1	5/22/2006	
Anthracene	BQL	10.0	1.75	1	5/22/2006	
Benzo[a]anthracene	BQL	10.0	1.36	1	5/22/2006	
Benzo[a]pyrene	BQL	10.0	1.27	1	5/22/2006	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	5/22/2006	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	5/22/2006	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	5/22/2006	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	5/22/2006	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	5/22/2006	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	5/22/2006	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	5/22/2006	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	5/22/2006	
Butylbenzylphthalate	BQL	10.0	1.53	1	5/22/2006	
2-Chloronaphthalene	BQL	10.0	1.25	1	5/22/2006	
2-Chlorophenol	BQL	10.0	4.22	1	5/22/2006	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	5/22/2006	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	5/22/2006	
Chrysene	BQL	10.0	1.11	1	5/22/2006	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	5/22/2006	
Di-n-Butylphthalate	BQL	10.0	1.65	1	5/22/2006	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	5/22/2006	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	5/22/2006	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	5/22/2006	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	5/22/2006	
2,4-Dichlorophenol	BQL	10.0	3.75	1	5/22/2006	
Diethylphthalate	BQL	10.0	1.48	1	5/22/2006	
Dimethylphthalate	BQL	10.0	1.04	1	5/22/2006	
2,4-Dimethylphenol	BQL	10.0	9.25	1	5/22/2006	
Di-n-octylphthalate	BQL	10.0	1.16	1	5/22/2006	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	5/22/2006	
2,4-Dinitrophenol	BQL	50.0	4.20	1	5/22/2006	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	5/22/2006	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	5/22/2006	
Diphenylamine *	BQL	10.0	1.53	1	5/22/2006	
Fluoranthene	BQL	10.0	1.41	1	5/22/2006	
Fluorene	BQL	10.0	1.22	1	5/22/2006	
Hexachlorobenzene	BQL	10.0	1.22	1	5/22/2006	
Hexachlorobutadiene	BQL	10.0	1.58	1	5/22/2006	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	5/22/2006	
Hexachloroethane	BQL	10.0	1.58	1	5/22/2006	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	5/22/2006	
Isophorone	BQL	10.0	1.27	1	5/22/2006	
Naphthalene	BQL	10.0	1.08	1	5/22/2006	



**Results for Semivolatiles
by GCMS 625**

Client Sample ID: Method Blank
 Client Project ID:
 Lab Sample ID: PB5185
 Lab Project ID:

Analyzed By: MRC
 Date Collected:
 Date Received:
 Date Extracted: 5/17/2006
 Matrix: WATER

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Nitrobenzene	BQL	10.0	1.32	1	5/22/2006	
2-Nitrophenol	BQL	10.0	3.52	1	5/22/2006	
4-Nitrophenol	BQL	50.0	3.17	1	5/22/2006	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	5/22/2006	
Pentachlorophenol	BQL	50.0	2.83	1	5/22/2006	
Phenanthrene	BQL	10.0	1.38	1	5/22/2006	
Phenol	BQL	10.0	3.38	1	5/22/2006	
Pyrene	BQL	10.0	2.08	1	5/22/2006	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	5/22/2006	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	5/22/2006	

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	5.9	59
2-Fluorophenol	10	5.2	52
Nitrobenzene-d5	10	5.8	58
Phenol-d6	10	5.6	56
2,4,6-Tribromophenol	10	3.9	39
4-Terphenyl-d14	10	6.9	69

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By: 



Results For Matrix Spike / Matrix Spike Duplicate and Laboratory Control Standard (MS/MSD/LCS)
by GCMS

Client Sample ID: Batch QC

Date Collected:

Client Project ID:

Date Received:

Lab Sample ID: Batch-5185-MS/MSD/LCS

Date Extracted: 05/17/06

Lab Project ID:

Date Analyzed: 05/23/06

Matrix: WATER

Analyzed By: MRC

Prep Method: 3520

Dilution: 1

	Sample Amount (µg/L)	MS Spike (µg/L)	MS Conc. (µg/L)	MS Spike % Rec.	MSD Spike (µg/L)	MSD Conc. (µg/L)	MSD Conc. % Rec.	RPD	QC Limits	
									RPD	% Rec.
Acenaphthylene	BQL	200	153	76.3	200	145	72.7	4.83	30	62.0-119
4-Chloro-3-methylphenol	BQL	200	157	78.7	200	156	77.9	1.02	30	67.0-109
2-Chlorophenol	BQL	200	126	62.9	200	121	60.7	3.56	30	59.0-95.0
1,4-Dichlorobenzene	BQL	200	103	51.6	200	88.2	44.1	15.7	30	29.0-86.0
2,4-Dinitrotoluene	BQL	200	163	81.4	200	155	77.7	4.65	30	63.0-103
N-Nitrosodi-n-propylamine	BQL	200	159	79.5	200	155	77.4	2.68	30	67.0-107
4-Nitrophenol	BQL	200	140	70.1	200	129	64.5	8.32	30	49.0-146
Pentachlorophenol	BQL	200	81.8	40.9*	200	70.4	35.2*	15.0	30	43.0-106
Phenol	BQL	200	135	67.3	200	129	64.3	4.56	30	61.0-100
Pyrene	BQL	200	168	84.2	200	162	80.9	4.00	30	41.0-123
1,2,4-Trichlorobenzene	BQL	200	144	72.1	200	129	64.7	10.8	30	41.0-96.0

	Spiked Amount (µg/L)	LCS Conc. (µg/L)	LCS Spike %	QC Limits
				% Rec.
Acenaphthylene	100	75.1	75.1	72.9-127
4-Chloro-3-methylphenol	100	78.1	78.1	61.6-113
2-Chlorophenol	100	59.4	59.4	52.3-104
1,4-Dichlorobenzene	100	60.3	60.3	27.3-85.0
2,4-Dinitrotoluene	100	79.7	79.7	66.5-117
N-Nitrosodi-n-propylamine	100	74.7	74.7	54.4-119
4-Nitrophenol	100	62.4	62.4	32.4-150
Pentachlorophenol	100	36.0	36.0	23.9-115
Phenol	100	64.2	64.2	54.5-106
Pyrene	100	86.9	86.9	63.5-126
1,2,4-Trichlorobenzene	100	73.6	73.6	49.1-98.5

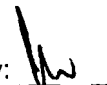
Comments:

Concentrations reflect the spiked sample amounts.

Flags:

* = Out of limits.

NA = Not applicable.

Reviewed By: 



Results for Semivolatiles by GCMS 625

Client Sample ID: Method Blank
 Client Project ID:
 Lab Sample ID: PB5186
 Lab Project ID:

Analyzed By: MRC
 Date Collected:
 Date Received:
 Date Extracted: 5/17/2006
 Matrix: WATER

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	5/26/2006	
Acenaphthylene	BQL	10.0	1.12	1	5/26/2006	
Anthracene	BQL	10.0	1.75	1	5/26/2006	
Benzo[a]anthracene	BQL	10.0	1.36	1	5/26/2006	
Benzo[a]pyrene	BQL	10.0	1.27	1	5/26/2006	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	5/26/2006	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	5/26/2006	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	5/26/2006	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	5/26/2006	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	5/26/2006	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	5/26/2006	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	5/26/2006	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	5/26/2006	
Butylbenzylphthalate	BQL	10.0	1.53	1	5/26/2006	
2-Chloronaphthalene	BQL	10.0	1.25	1	5/26/2006	
2-Chlorophenol	BQL	10.0	4.22	1	5/26/2006	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	5/26/2006	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	5/26/2006	
Chrysene	BQL	10.0	1.11	1	5/26/2006	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	5/26/2006	
Di-n-Butylphthalate	BQL	10.0	1.65	1	5/26/2006	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	5/26/2006	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	5/26/2006	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	5/26/2006	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	5/26/2006	
2,4-Dichlorophenol	BQL	10.0	3.75	1	5/26/2006	
Diethylphthalate	BQL	10.0	1.48	1	5/26/2006	
Dimethylphthalate	BQL	10.0	1.04	1	5/26/2006	
2,4-Dimethylphenol	BQL	10.0	9.25	1	5/26/2006	
Di-n-octylphthalate	BQL	10.0	1.16	1	5/26/2006	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	5/26/2006	
2,4-Dinitrophenol	BQL	50.0	4.20	1	5/26/2006	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	5/26/2006	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	5/26/2006	
Diphenylamine *	BQL	10.0	1.53	1	5/26/2006	
Fluoranthene	BQL	10.0	1.41	1	5/26/2006	
Fluorene	BQL	10.0	1.22	1	5/26/2006	
Hexachlorobenzene	BQL	10.0	1.22	1	5/26/2006	
Hexachlorobutadiene	BQL	10.0	1.58	1	5/26/2006	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	5/26/2006	
Hexachloroethane	BQL	10.0	1.58	1	5/26/2006	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	5/26/2006	
Isophorone	BQL	10.0	1.27	1	5/26/2006	
Naphthalene	BQL	10.0	1.08	1	5/26/2006	



**Results for Semivolatiles
by GCMS 625**

Client Sample ID: Method Blank
 Client Project ID:
 Lab Sample ID: PB5186
 Lab Project ID:

Analyzed By: MRC
 Date Collected:
 Date Received:
 Date Extracted: 5/17/2006
 Matrix: WATER

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Nitrobenzene	BQL	10.0	1.32	1	5/26/2006	
2-Nitrophenol	BQL	10.0	3.52	1	5/26/2006	
4-Nitrophenol	BQL	50.0	3.17	1	5/26/2006	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	5/26/2006	
Pentachlorophenol	BQL	50.0	2.83	1	5/26/2006	
Phenanthrene	BQL	10.0	1.38	1	5/26/2006	
Phenol	BQL	10.0	3.38	1	5/26/2006	
Pyrene	BQL	10.0	2.08	1	5/26/2006	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	5/26/2006	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	5/26/2006	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	6.8	68		
2-Fluorophenol		10	5.6	56		
Nitrobenzene-d5		10	6.3	63		
Phenol-d6		10	6	60		
2,4,6-Tribromophenol		10	5.2	52		
4-Terphenyl-d14		10	7.4	74		

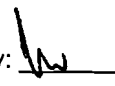
Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By: 



Results For Matrix Spike / Matrix Spike Duplicate and Laboratory Control Standard (MS/MSD/LCS)
by GCMS

Client Sample ID: Batch QC

Date Collected:

Client Project ID:

Date Received:

Lab Sample ID: Batch-5186-MS/MSD/LCS

Date Extracted: 05/17/06

Lab Project ID:

Date Analyzed: 05/25/06

Matrix: WATER

Analyzed By: MRC

Prep Method: 3520

Dilution: 1

	Sample Amount (µg/L)	MS Spike (µg/L)	MS Conc. (µg/L)	MS Spike % Rec.	MSD Spike (µg/L)	MSD Conc. (µg/L)	MSD Conc. % Rec.	RPD	QC Limits	
									RPD	% Rec.
Acenaphthylene	BQL	222	176	79.2	222	178	80.3	1.38	30	62.0-119
4-Chloro-3-methylphenol	BQL	222	178	80.0	222	189	85.1	6.18	30	67.0-109
2-Chlorophenol	BQL	222	147	66.3	222	158	71.3	7.27	30	59.0-95.0
1,4-Dichlorobenzene	BQL	222	131	58.8	222	134	60.4	2.68	30	29.0-86.0
2,4-Dinitrotoluene	BQL	222	173	77.8	222	175	78.6	1.02	30	63.0-103
N-Nitrosodi-n-propylamine	BQL	222	170	76.7	222	176	79.2	3.21	30	67.0-107
4-Nitrophenol	BQL	222	116	52.1	222	122	55.0	5.42	30	49.0-146
Pentachlorophenol	BQL	222	87.8	39.5	222	84.2	37.9	4.13	30	23.0-106
Phenol	BQL	222	159	71.5	222	169	76.1	6.23	30	61.0-100
Pyrene	BQL	222	210	94.5	222	208	93.8	0.743	30	41.0-123
1,2,4-Trichlorobenzene	BQL	222	161	72.5	222	161	72.3	0.276	30	41.0-96.0

	Spiked Amount (µg/L)	LCS Conc. (µg/L)	LCS Spike %	QC Limits % Rec.
Acenaphthylene	100	77.0	77.0	72.9-127
4-Chloro-3-methylphenol	100	77.0	77.0	61.6-113
2-Chlorophenol	100	63.9	63.9	52.3-104
1,4-Dichlorobenzene	100	55.5	55.5	27.3-85.0
2,4-Dinitrotoluene	100	74.3	74.3	66.5-117
N-Nitrosodi-n-propylamine	100	73.5	73.5	54.4-119
4-Nitrophenol	100	45.7	45.7	32.4-150
Pentachlorophenol	100	35.3	35.3	23.9-115
Phenol	100	69.4	69.4	54.5-106
Pyrene	100	94.2	94.2	63.5-126
1,2,4-Trichlorobenzene	100	69.7	69.7	49.1-98.5

Comments:

Concentrations reflect the spiked sample amounts.

Flags:

* = Out of limits.

NA = Not applicable.

Reviewed By: 



**Results for Semivolatiles
by GCMS 625**

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID: PB5195
Lab Project ID:

Analyzed By: MRC
Date Collected:
Date Received:
Date Extracted: 5/18/2006
Matrix: WATER

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	5/26/2006	
Acenaphthylene	BQL	10.0	1.12	1	5/26/2006	
Anthracene	BQL	10.0	1.75	1	5/26/2006	
Benzo[a]anthracene	BQL	10.0	1.36	1	5/26/2006	
Benzo[a]pyrene	BQL	10.0	1.27	1	5/26/2006	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	5/26/2006	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	5/26/2006	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	5/26/2006	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	5/26/2006	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	5/26/2006	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	5/26/2006	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	5/26/2006	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	5/26/2006	
Butylbenzylphthalate	BQL	10.0	1.53	1	5/26/2006	
2-Chloronaphthalene	BQL	10.0	1.25	1	5/26/2006	
2-Chlorophenol	BQL	10.0	4.22	1	5/26/2006	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	5/26/2006	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	5/26/2006	
Chrysene	BQL	10.0	1.11	1	5/26/2006	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	5/26/2006	
Di-n-Butylphthalate	BQL	10.0	1.65	1	5/26/2006	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	5/26/2006	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	5/26/2006	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	5/26/2006	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	5/26/2006	
2,4-Dichlorophenol	BQL	10.0	3.75	1	5/26/2006	
Diethylphthalate	BQL	10.0	1.48	1	5/26/2006	
Dimethylphthalate	BQL	10.0	1.04	1	5/26/2006	
2,4-Dimethylphenol	BQL	10.0	9.25	1	5/26/2006	
Di-n-octylphthalate	BQL	10.0	1.16	1	5/26/2006	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	5/26/2006	
2,4-Dinitrophenol	BQL	50.0	4.20	1	5/26/2006	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	5/26/2006	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	5/26/2006	
Diphenylamine *	BQL	10.0	1.53	1	5/26/2006	
Fluoranthene	BQL	10.0	1.41	1	5/26/2006	
Fluorene	BQL	10.0	1.22	1	5/26/2006	
Hexachlorobenzene	BQL	10.0	1.22	1	5/26/2006	
Hexachlorobutadiene	BQL	10.0	1.58	1	5/26/2006	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	5/26/2006	
Hexachloroethane	BQL	10.0	1.58	1	5/26/2006	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	5/26/2006	
Isophorone	BQL	10.0	1.27	1	5/26/2006	
Naphthalene	BQL	10.0	1.08	1	5/26/2006	



**Results for Semivolatiles
by GCMS 625**

Client Sample ID: Method Blank
 Client Project ID:
 Lab Sample ID: PB5195
 Lab Project ID:

Analyzed By: MRC
 Date Collected:
 Date Received:
 Date Extracted: 5/18/2006
 Matrix: WATER

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Nitrobenzene	BQL	10.0	1.32	1	5/26/2006	
2-Nitrophenol	BQL	10.0	3.52	1	5/26/2006	
4-Nitrophenol	BQL	50.0	3.17	1	5/26/2006	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	5/26/2006	
Pentachlorophenol	BQL	50.0	2.83	1	5/26/2006	
Phenanthrene	BQL	10.0	1.38	1	5/26/2006	
Phenol	BQL	10.0	3.38	1	5/26/2006	
Pyrene	BQL	10.0	2.08	1	5/26/2006	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	5/26/2006	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	5/26/2006	

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	5.2	52
2-Fluorophenol	10	4.8	48
Nitrobenzene-d5	10	5.2	52
Phenol-d6	10	5	50
2,4,6-Tribromophenol	10	4.1	41
4-Terphenyl-d14	10	6.8	68

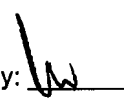
Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By: 



Results For Matrix Spike / Matrix Spike Duplicate and Laboratory Control Standard (MS/MSD/LCS)
by GCMS

Client Sample ID: Batch QC

Date Collected:

Client Project ID:

Date Received:

Lab Sample ID: Batch-5195-MS/MSD/LCS

Date Extracted: 05/18/06

Lab Project ID:

Date Analyzed: 05/27/06

Matrix: WATER

Analyzed By: MRC

Prep Method: 3520

Dilution: 1

	Sample Amount (µg/L)	MS Spike (µg/L)	MS Conc. (µg/L)	MS Spike % Rec.	MSD Spike (µg/L)	MSD Conc. (µg/L)	MSD Conc. % Rec.	RPD	QC Limits	
									RPD	% Rec.
Acenaphthylene	BQL	222	148	66.5	217	181	83.3	22.4	30	62.0-119
4-Chloro-3-methylphenol	BQL	222	149	67.0	217	184	84.8	23.5	30	67.0-109
2-Chlorophenol	BQL	222	128	57.6*	217	155	71.3	21.3	30	59.0-95.0
1,4-Dichlorobenzene	BQL	222	94.7	42.6	217	121	55.6	26.5	30	29.0-86.0
2,4-Dinitrotoluene	BQL	222	150	67.5	217	180	82.6	20.1	30	63.0-103
N-Nitrosodi-n-propylamine	BQL	222	147	66.0*	217	182	83.7	23.6	30	67.0-107
4-Nitrophenol	BQL	222	101	45.4*	217	123	56.8	22.3	30	49.0-146
Pentachlorophenol	BQL	222	72.9	32.8*	217	95.4	43.9	28.9	30	43.0-106
Phenol	BQL	222	142	63.9	217	170	78.3	20.3	30	61.0-100
Pyrene	BQL	222	188	84.5	217	215	99.0	15.8	30	41.0-123
1,2,4-Trichlorobenzene	BQL	222	131	59.0	217	162	74.5	23.2	30	41.0-96.0

	Spiked Amount (µg/L)	LCS Conc. (µg/L)	LCS Spike %	QC Limits % Rec.
Acenaphthylene	100	81.0	81.0	72.9-127
4-Chloro-3-methylphenol	100	84.4	84.4	61.6-113
2-Chlorophenol	100	70.9	70.9	52.3-104
1,4-Dichlorobenzene	100	52.8	52.8	27.3-85.0
2,4-Dinitrotoluene	100	79.1	79.1	66.5-117
N-Nitrosodi-n-propylamine	100	84.0	84.0	54.4-119
4-Nitrophenol	100	51.9	51.9	32.4-150
Pentachlorophenol	100	38.7	38.7	23.9-115
Phenol	100	76.9	76.9	54.5-106
Pyrene	100	93.1	93.1	63.5-126
1,2,4-Trichlorobenzene	100	71.3	71.3	49.1-98.5

Comments:

Concentrations reflect the spiked sample amounts.

Flags:

* = Out of limits.

NA = Not applicable.

Reviewed By: 



List of Reporting Abbreviations and Data Qualifiers

B = Compound also detected in batch blank

BQL = Below Quantitation Limit (RL or MDL)

DF = Dilution Factor

Dup = Duplicate

D = Detected, but RPD is > 40% between results in dual column method.

E = Estimated concentration, exceeds calibration range.

J = Estimated concentration, below calibration range and above MDL

LCS(D) = Laboratory Control Spike (Duplicate)

MDL = Method Detection Limit

MS(D) = Matrix Spike (Duplicate)

PQL = Practical Quantitation Limit

RL = Reporting Limit

RPD = Relative Percent Difference

mg/kg = milligram per kilogram, ppm, parts per million

ug/kg = micrograms per kilogram, ppb, parts per billion

mg/L = milligram per liter, ppm, parts per million

ug/L = micrograms per liter, ppb, parts per billion

% Rec = Percent Recovery

% solids = Percent Solids

Special Notes:

1) Metals and mercury samples are digested with a hot block, see the standard operating procedure document for details.

2) Uncertainty for all reported data is less than or equal to 30 percent.



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1 CLIENT: <u>Sovereign Consulting Inc.</u>						SGS Reference: <u>G650-54</u>						PAGE <u>1</u> OF <u>2</u>						
CONTACT: <u>Chris Murray</u>		PHONE NO: <u>157-777-8982</u>																
PROJECT: <u>NV014</u>		SITE/PWSID#: <u>BB190</u>																
REPORTS TO: <u>Chris Murray</u>																		
FAX NO: <u>157-594-9227</u>																		
INVOICE TO: <u>600 Thimble Shoals Blvd Ste 1A</u>																		
NEWPORT NEWS, VA 23606																		
QUOTE # <u>1A</u>																		
P.O. NUMBER																		
2																		
LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX	No CONTAINERS	SAMPLE TYPE	Preservatives Used	HCl	HCl	HCl	None							REMARKS
	USTBB190-MW01	05/10/06	1340	W	7													
	USTBB190-MW02	05/10/06	1221	W	7													
	USTBB190-MW03	05/10/06	1035	W	7													
	USTBB190-MW04	05/11/06	1405	W	7													
	USTBB190-MW05	05/11/06	1010	W	7													
	USTBB190-MW06	05/11/06	1029	W	7													
	USTBB190-MW07	05/10/06	0959	W	7													
	USTBB190-MW08	05/11/06	1050	W	7													
	USTBB190-MW09	05/11/06	1320	W	7													
	USTBB190-MW10	05/11/06	1111	W	7													
5						4												
Collected/Relinquished By: (1)		Date	Time	Received By:		Shipping Carrier:		Samples Received Cold? (Circle) YES NO										
		5/11/06						Temperature [C] <u>3.7</u> <u>2.4</u>										
Relinquished By: (2)		Date	Time	Received By:		Shipping Ticket No:		Special Deliverable Requirements:										
		5/12/06	1130					Chain of Custody Seal: (Circle)										
								INTACT BROKEN ABSENT										
Relinquished By: (3)		Date	Time	Received By:		Requested Turnaround Time and Special Instructions:												
						10-day Turnaround												
Relinquished By: (4)		Date	Time	Received By:		Email results to: <u>Cmurray@sovcon.com</u>												
						EDD format <u>nhall@sovcon.com</u>												



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1 CLIENT: <u>Sovereign Consulting Inc.</u>					SGS Reference: <u>G650-54</u>					PAGE <u>2</u> OF <u>2</u>		
CONTACT: <u>Chris Murray</u> PHONE NO.: <u>571.777.8982</u>												
PROJECT: <u>NV014</u> SITE/PWSID#: <u>BB190</u>												
REPORTS TO: <u>Chris Murray</u> FAX NO.: <u>571.594.9227</u>												
INVOICE TO: <u>606 Thimble Shoals Blvd Ste 1-A</u> QUOTE # <u>NEWPORT NEWS, VA 23606</u> P.O. NUMBER												
LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX	No CONTAINERS	SAMPLE TYPE	Preservatives Used	HCI	HCI	HCI	None	REMARKS
	USTBB190-MW11	05/11/06	0954	W	7			X	X	X	X	
	USTBB190-MW12	05/11/06	1321	↑	↑			↑	↑	↑	↑	
3665	USTBB190-MW13	05/11/06	1440	↑	↑			↑	↑	↑	↑	
	~~USTBB190-MW14~~											
	USTBB190-MW15	05/10/06	1110	↑	↑							
	USTBB190-MW16	05/10/06	1500	↑	↑							
	USTBB190-MW19	05/10/06	1123	↓	↓			↓	↓	↓	↓	
	Duplicate	05/10/06	—	↓	7			X	X	X	X	
	Trip Blank	05/11/06	—	W	2			X				
												4.60
Collected/Relinquished By: (1) <u>[Signature]</u>		Date <u>5/11/06</u>	Time	Received By:		Shipping Carrier:		Samples Received Cold? (Circle) YES NO		Temperature (C): <u>3.7</u> <u>24</u>		
Relinquished By: (2)		Date <u>5/11/06</u>	Time <u>1120</u>	Received By: <u>[Signature]</u>		Shipping Ticket No:		Special Deliverable Requirements:		Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT		
Relinquished By: (3)		Date	Time	Received By:		Requested Turnaround Time and Special Instructions: <u>10 Day Turnaround</u> <u>Email results to: cmurray@soucon.com</u> <u>EDD format nhall@soucon.com</u>						
Relinquished By: (4)		Date	Time	Received By:								



Mr. Chris Murray
Sovereign Consulting
606 Thimble Shoals Rd.
Suite A1
Newport-News VA 23606
Report Number: G650-57
Client Project: NV014

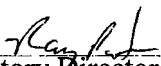
Dear Mr. Murray:

Enclosed are the results of the analytical services performed under the referenced project. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period of five years in the event they are required for future reference. Any samples submitted to our laboratory will be retained for a maximum of thirty (30) days from the date of this report unless other arrangements are requested.

If there are any questions about the report or the services performed during this project, please call SGS/Paradigm at (910) 350-1903. We will be happy to answer any questions or concerns which you may have.

Thank you for using SGS/Paradigm Analytical Labs for your analytical services. We look forward to working with you again on any additional analytical needs which you may have.

Sincerely,
SGS/Paradigm Analytical Laboratories, Inc.


Laboratory Director
J. Patrick Weaver

6/16/2016
Date

**Results for Volatiles**

by GC 602

Client Sample ID: USTBB190-MW14

Analyzed By: MJC

Client Project ID: NV014

Date Collected: 5/17/2006 10:05

Lab Sample ID: G650-57-1A

Date Received: 5/18/2006

Lab Project ID: G650-57

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.0414	1	5/25/2006	
Diisopropyl ether (DIPE)	BQL	1.00	0.0297	1	5/25/2006	
Ethylbenzene	BQL	1.00	0.0665	1	5/25/2006	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.0773	1	5/25/2006	
Toluene	BQL	1.00	0.0527	1	5/25/2006	
m/p-Xylene	BQL	2.00	0.139	1	5/25/2006	
o-Xylene	BQL	2.00	0.0847	1	5/25/2006	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	39.1	97.8

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

Reviewed By: RJ

GC_LIMS_v2.1

**Results for Volatiles**

by GC 602

Client Sample ID: PSWBB47

Client Project ID: NV014

Lab Sample ID: G650-57-2A

Lab Project ID: G650-57

Analyzed By: MJC

Date Collected: 5/17/2006 10:20

Date Received: 5/18/2006

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.0414	1	5/25/2006	
Diisopropyl ether (DIPE)	BQL	1.00	0.0297	1	5/25/2006	
Ethylbenzene	BQL	1.00	0.0665	1	5/25/2006	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.0773	1	5/25/2006	
Toluene	BQL	1.00	0.0527	1	5/25/2006	
m/p-Xylene	BQL	2.00	0.139	1	5/25/2006	
o-Xylene	BQL	2.00	0.0847	1	5/25/2006	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	39.1	97.6

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

Reviewed By: *2-1*
GC_LIMS_v2.1

**Results for Volatiles**

by GC 602

Client Sample ID: Method Blank

Analyzed By: MJC

Client Project ID:

Date Collected:

Lab Sample ID: VBLK3052506A

Date Received:

Lab Project ID:

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.0414	1	5/25/2006	
Diisopropyl ether (DIPE)	BQL	1.00	0.0297	1	5/25/2006	
Ethylbenzene	BQL	1.00	0.0665	1	5/25/2006	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.0773	1	5/25/2006	
Toluene	BQL	1.00	0.0527	1	5/25/2006	
m/p-Xylene	BQL	2.00	0.139	1	5/25/2006	
o-Xylene	BQL	2.00	0.0847	1	5/25/2006	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	39.1	97.8

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.



Control Limits for MS-MSD

Method: 602 Spike[ppb]: 10
 Instrument : gc3
 Sample : 052506\015r0101.txt
 MS : 052506\017r0101.txt
 MSD : 052506\018r0101.txt

Compound	µg/L			P(%)		P Limits	
	Sam.	MS	MSD	MS	MSD	Lower	Upper
Benzene	32.2	41.8	41.6	96	94	39	160
Chlorobenzene	ND	9.9	9.9	99	99	55	135
1,2-Dichlorobenzene	ND	10.2	10.4	100	102	37	154
1,3-Dichlorobenzene	ND	9.9	10.0	98	99	50	141
1,4-Dichlorobenzene	ND	9.6	9.7	95	97	42	143
• Diisopropyl ether	ND	10.1	10.1	99	99	30	170
Ethylbenzene	3.7	14.5	14.4	108	107	32	160
• MTBE	3.0	12.8	12.7	99	98	35	165
Toluene	6.2	16.1	16.0	99	98	46	148
• m,p-Xylene	8.5	29.1	28.9	103	102	D	239
• o-Xylene	1.2	10.7	10.7	95	95	36	164

Flags :

- + = out of QC limits.
- = lab generated limits.
- D = Detected
- ND = None Detected

Reviewed by: 



Control Limits for QC Check / Laboratory Control Spike

Method: 602 Spike[ppb]: 10
 Instrument : gc3
 Filename : 052506\002r0101.txt

Compound	ppb	Q(%)	QC Limits		P _s (%)	LCS Limits	
			Lower	Upper		Lower	Upper
Benzene	9.7	96.8	77.0	123.0	97	39	150
Chlorobenzene	9.5	95.5	80.5	119.5	95	55	135
1,2-Dichlorobenzene	9.8	97.6	68.0	132.0	98	37	164
1,3-Dichlorobenzene	9.3	93.4	72.5	127.5	93	50	141
1,4-Dichlorobenzene	9.1	91.3	69.5	130.5	91	42	143
• Diisopropyl ether	9.2	91.7	43.1	156.9	92	30	170
Ethylbenzene	10.0	100.4	63.0	137.0	100	32	160
• MTBE	9.5	94.9	46.8	153.2	95	35	165
Toluene	9.7	96.7	77.5	127.0	97	46	148
• m,p-Xylene	19.9	99.4	11.2	188.8	99	D	239
• o-Xylene	8.9	89.4	47.6	152.4	89	36	164

Flags :

- + = out of QC limits.
- = lab generated limits.
- D = Detected

Reviewed by: *W*



Results for Semivolatiles by GCMS 625

Client Sample ID: USTBB190-MW14
Client Project ID: NV014
Lab Sample ID: G650-57-1H
Lab Project ID: G650-57

Analyzed By: MRC
Date Collected: 5/17/2006 10:05
Date Received: 5/18/2006
Date Extracted: 5/24/2006
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	6/1/2006	
Acenaphthylene	BQL	10.0	1.12	1	6/1/2006	
Anthracene	BQL	10.0	1.75	1	6/1/2006	
Benzo[a]anthracene	BQL	10.0	1.36	1	6/1/2006	
Benzo[a]pyrene	BQL	10.0	1.27	1	6/1/2006	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	6/1/2006	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	6/1/2006	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	6/1/2006	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	6/1/2006	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	6/1/2006	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	6/1/2006	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	6/1/2006	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	6/1/2006	
Butylbenzylphthalate	BQL	10.0	1.53	1	6/1/2006	
2-Chloronaphthalene	BQL	10.0	1.25	1	6/1/2006	
2-Chlorophenol	BQL	10.0	4.22	1	6/1/2006	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	6/1/2006	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	6/1/2006	
Chrysene	BQL	10.0	1.11	1	6/1/2006	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	6/1/2006	
Di-n-Butylphthalate	BQL	10.0	1.65	1	6/1/2006	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	6/1/2006	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	6/1/2006	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	6/1/2006	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	6/1/2006	
2,4-Dichlorophenol	BQL	10.0	3.75	1	6/1/2006	
Diethylphthalate	BQL	10.0	1.48	1	6/1/2006	
Dimethylphthalate	BQL	10.0	1.04	1	6/1/2006	
2,4-Dimethylphenol	BQL	10.0	9.25	1	6/1/2006	
Di-n-octylphthalate	BQL	10.0	1.16	1	6/1/2006	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	6/1/2006	
2,4-Dinitrophenol	BQL	50.0	4.20	1	6/1/2006	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	6/1/2006	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	6/1/2006	
Diphenylamine *	BQL	10.0	1.53	1	6/1/2006	
Fluoranthene	BQL	10.0	1.41	1	6/1/2006	
Fluorene	BQL	10.0	1.22	1	6/1/2006	
Hexachlorobenzene	BQL	10.0	1.22	1	6/1/2006	
Hexachlorobutadiene	BQL	10.0	1.58	1	6/1/2006	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	6/1/2006	
Hexachloroethane	BQL	10.0	1.58	1	6/1/2006	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	6/1/2006	
Isophorone	BQL	10.0	1.27	1	6/1/2006	
Naphthalene	BQL	10.0	1.08	1	6/1/2006	



**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTBB190-MW14
 Client Project ID: NV014
 Lab Sample ID: G650-57-1H
 Lab Project ID: G650-57

Analyzed By: MRC
 Date Collected: 5/17/2006 10:05
 Date Received: 5/18/2006
 Date Extracted: 5/24/2006
 Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Nitrobenzene	BQL	10.0	1.32	1	6/1/2006	
2-Nitrophenol	BQL	10.0	3.52	1	6/1/2006	
4-Nitrophenol	BQL	50.0	3.17	1	6/1/2006	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	6/1/2006	
Pentachlorophenol	BQL	50.0	2.83	1	6/1/2006	
Phenanthrene	BQL	10.0	1.38	1	6/1/2006	
Phenol	BQL	10.0	3.38	1	6/1/2006	
Pyrene	BQL	10.0	2.08	1	6/1/2006	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	6/1/2006	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	6/1/2006	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	7.2	72		
2-Fluorophenol		10	6.2	62		
Nitrobenzene-d5		10	6.5	65		
Phenol-d6		10	6.2	62		
2,4,6-Tribromophenol		10	6.9	69		
4-Terphenyl-d14		10	7.4	74		

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By:

**Results of Library Search for Semivolatile Compounds**
by GCMS

Client Sample ID: USTBB190-MW14
Client Project ID: NV014
Lab Sample ID: G650-57-1H
Lab Project ID: G650-57
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: MRC
Date Collected: 5/17/2006 10:05
Date Received: 5/18/2006
Date Extracted: 5/24/2006
Date Analyzed: 6/1/2006
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	No library search compounds detected.				
2					
3					
4					
5					
6					
7					
8					
9					
10					

Comment:

Tentatively Identified Compound (TIC) refers to substances which are not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist.

Quantitation is accomplished by relative peak area of the compound compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is equal to or greater than 10% of that of the nearest internal standard. Quantitation provided is an estimate.

Reviewed by: *RH*



**Results for Semivolatiles
by GCMS 625**

Client Sample ID: PSWBB47
 Client Project ID: NV014
 Lab Sample ID: G650-57-2H
 Lab Project ID: G650-57

Analyzed By: MRC
 Date Collected: 5/17/2006 10:20
 Date Received: 5/18/2006
 Date Extracted: 5/24/2006
 Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	6/1/2006	
Acenaphthylene	BQL	10.0	1.12	1	6/1/2006	
Anthracene	BQL	10.0	1.75	1	6/1/2006	
Benzo[a]anthracene	BQL	10.0	1.36	1	6/1/2006	
Benzo[a]pyrene	BQL	10.0	1.27	1	6/1/2006	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	6/1/2006	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	6/1/2006	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	6/1/2006	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	6/1/2006	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	6/1/2006	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	6/1/2006	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	6/1/2006	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	6/1/2006	
Butylbenzylphthalate	BQL	10.0	1.53	1	6/1/2006	
2-Chloronaphthalene	BQL	10.0	1.25	1	6/1/2006	
2-Chlorophenol	BQL	10.0	4.22	1	6/1/2006	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	6/1/2006	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	6/1/2006	
Chrysene	BQL	10.0	1.11	1	6/1/2006	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	6/1/2006	
Di-n-Butylphthalate	BQL	10.0	1.65	1	6/1/2006	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	6/1/2006	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	6/1/2006	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	6/1/2006	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	6/1/2006	
2,4-Dichlorophenol	BQL	10.0	3.75	1	6/1/2006	
Diethylphthalate	BQL	10.0	1.48	1	6/1/2006	
Dimethylphthalate	BQL	10.0	1.04	1	6/1/2006	
2,4-Dimethylphenol	BQL	10.0	9.25	1	6/1/2006	
Di-n-octylphthalate	BQL	10.0	1.16	1	6/1/2006	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	6/1/2006	
2,4-Dinitrophenol	BQL	50.0	4.20	1	6/1/2006	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	6/1/2006	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	6/1/2006	
Diphenylamine *	BQL	10.0	1.53	1	6/1/2006	
Fluoranthene	BQL	10.0	1.41	1	6/1/2006	
Fluorene	BQL	10.0	1.22	1	6/1/2006	
Hexachlorobenzene	BQL	10.0	1.22	1	6/1/2006	
Hexachlorobutadiene	BQL	10.0	1.58	1	6/1/2006	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	6/1/2006	
Hexachloroethane	BQL	10.0	1.58	1	6/1/2006	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	6/1/2006	
Isophorone	BQL	10.0	1.27	1	6/1/2006	
Naphthalene	BQL	10.0	1.08	1	6/1/2006	



**Results for Semivolatiles
by GCMS 625**

Client Sample ID: PSWBB47
 Client Project ID: NV014
 Lab Sample ID: G650-57-2H
 Lab Project ID: G650-57

Analyzed By: MRC
 Date Collected: 5/17/2006 10:20
 Date Received: 5/18/2006
 Date Extracted: 5/24/2006
 Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Nitrobenzene	BQL	10.0	1.32	1	6/1/2006	
2-Nitrophenol	BQL	10.0	3.52	1	6/1/2006	
4-Nitrophenol	BQL	50.0	3.17	1	6/1/2006	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	6/1/2006	
Pentachlorophenol	BQL	50.0	2.83	1	6/1/2006	
Phenanthrene	BQL	10.0	1.38	1	6/1/2006	
Phenol	BQL	10.0	3.38	1	6/1/2006	
Pyrene	BQL	10.0	2.08	1	6/1/2006	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	6/1/2006	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	6/1/2006	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	7.4	74		
2-Fluorophenol		10	6.5	65		
Nitrobenzene-d5		10	6.9	69		
Phenol-d6		10	6.2	62		
2,4,6-Tribromophenol		10	6.8	68		
4-Terphenyl-d14		10	8	80		

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By: *gnd*



Results of Library Search for Semivolatile Compounds
by GCMS

Client Sample ID: PSWBB47
Client Project ID: NV014
Lab Sample ID: G650-57-2H
Lab Project ID: G650-57
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: MRC
Date Collected: 5/17/2006 10:20
Date Received: 5/18/2006
Date Extracted: 5/24/2006
Date Analyzed: 6/1/2006
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	No library search compounds detected.				
2					
3					
4					
5					
6					
7					
8					
9					
10					

Comment:

Tentatively Identified Compound (TIC) refers to substances which are not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist.

Quantitation is accomplished by relative peak area of the compound compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is equal to or greater than 10% of that of the nearest internal standard. Quantitation provided is an estimate.

Reviewed by: *RM*



**Results for Semivolatiles
by GCMS 625**

Client Sample ID: Method Blank
 Client Project ID:
 Lab Sample ID: PB5245
 Lab Project ID:

Analyzed By: MRC
 Date Collected:
 Date Received:
 Date Extracted: 5/24/2006
 Matrix: WATER

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	5/31/2006	
Acenaphthylene	BQL	10.0	1.12	1	5/31/2006	
Anthracene	BQL	10.0	1.75	1	5/31/2006	
Benzo[a]anthracene	BQL	10.0	1.36	1	5/31/2006	
Benzo[a]pyrene	BQL	10.0	1.27	1	5/31/2006	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	5/31/2006	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	5/31/2006	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	5/31/2006	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	5/31/2006	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	5/31/2006	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	5/31/2006	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	5/31/2006	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	5/31/2006	
Butylbenzylphthalate	BQL	10.0	1.53	1	5/31/2006	
2-Chloronaphthalene	BQL	10.0	1.25	1	5/31/2006	
2-Chlorophenol	BQL	10.0	4.22	1	5/31/2006	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	5/31/2006	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	5/31/2006	
Chrysene	BQL	10.0	1.11	1	5/31/2006	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	5/31/2006	
Di-n-Butylphthalate	BQL	10.0	1.65	1	5/31/2006	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	5/31/2006	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	5/31/2006	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	5/31/2006	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	5/31/2006	
2,4-Dichlorophenol	BQL	10.0	3.75	1	5/31/2006	
Diethylphthalate	BQL	10.0	1.48	1	5/31/2006	
Dimethylphthalate	BQL	10.0	1.04	1	5/31/2006	
2,4-Dimethylphenol	BQL	10.0	9.25	1	5/31/2006	
Di-n-octylphthalate	BQL	10.0	1.16	1	5/31/2006	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	5/31/2006	
2,4-Dinitrophenol	BQL	50.0	4.20	1	5/31/2006	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	5/31/2006	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	5/31/2006	
Diphenylamine *	BQL	10.0	1.53	1	5/31/2006	
Fluoranthene	BQL	10.0	1.41	1	5/31/2006	
Fluorene	BQL	10.0	1.22	1	5/31/2006	
Hexachlorobenzene	BQL	10.0	1.22	1	5/31/2006	
Hexachlorobutadiene	BQL	10.0	1.58	1	5/31/2006	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	5/31/2006	
Hexachloroethane	BQL	10.0	1.58	1	5/31/2006	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	5/31/2006	
Isophorone	BQL	10.0	1.27	1	5/31/2006	
Naphthalene	BQL	10.0	1.08	1	5/31/2006	



**Results for Semivolatiles
by GCMS 625**

Client Sample ID: Method Blank
 Client Project ID:
 Lab Sample ID: PB5245
 Lab Project ID:

Analyzed By: MRC
 Date Collected:
 Date Received:
 Date Extracted: 5/24/2006
 Matrix: WATER

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Nitrobenzene	BQL	10.0	1.32	1	5/31/2006	
2-Nitrophenol	BQL	10.0	3.52	1	5/31/2006	
4-Nitrophenol	BQL	50.0	3.17	1	5/31/2006	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	5/31/2006	
Pentachlorophenol	BQL	50.0	2.83	1	5/31/2006	
Phenanthrene	BQL	10.0	1.38	1	5/31/2006	
Phenol	BQL	10.0	3.38	1	5/31/2006	
Pyrene	BQL	10.0	2.08	1	5/31/2006	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	5/31/2006	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	5/31/2006	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	6.7	67		
2-Fluorophenol		10	5.7	57		
Nitrobenzene-d5		10	6.2	62		
Phenol-d6		10	5.6	56		
2,4,6-Tribromophenol		10	6.8	68		
4-Terphenyl-d14		10	7.4	74		

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By:



Results For Matrix Spike / Matrix Spike Duplicate and Laboratory Control Standard (MS/MSD/LCS)
by GCMS

Client Sample ID: Batch QC

Date Collected:

Client Project ID:

Date Received:

Lab Sample ID: Batch-5245-MS/MSD/LCS

Date Extracted: 05/24/06

Lab Project ID:

Date Analyzed: 06/01/06

Matrix: WATER

Analyzed By: MRC

Prep Method: 3520

Dilution: 1

	Sample Amount (µg/L)	MS Spike (µg/L)	MS Conc. (µg/L)	MS Spike % Rec.	MSD Spike (µg/L)	MSD Conc. (µg/L)	MSD Conc. % Rec.	RPD	QC Limits	
									RPD	% Rec.
Acenaphthylene	BQL	200	175	87.4	200	172	86.1	1.50	30	62.0-119
4-Chloro-3-methylphenol	BQL	200	164	81.8	200	158	78.8	3.74	30	67.0-109
2-Chlorophenol	BQL	200	142	70.9	200	145	72.6	2.37	30	59.0-95.0
1,4-Dichlorobenzene	BQL	200	105	52.4	200	96.4	48.2	8.35	30	29.0-86.0
2,4-Dinitrotoluene	BQL	200	185	92.4	200	177	88.4	4.42	30	63.0-103
N-Nitrosodi-n-propylamine	BQL	200	172	85.9	200	168	84.2	2.00	30	67.0-107
4-Nitrophenol	BQL	200	183	91.3	200	169	84.7	7.50	30	49.0-146
Pentachlorophenol	BQL	200	140	69.8	200	132	65.8	5.90	30	43.0-106
Phenol	BQL	200	141	70.4	200	140	69.8	0.856	30	61.0-100
Pyrene	BQL	200	176	88.0	200	166	83.0	5.85	30	41.0-123
1,2,4-Trichlorobenzene	BQL	200	147	73.7	200	137	68.4	7.46	30	41.0-96.0

	Spiked Amount (µg/L)	LCS Conc. (µg/L)	LCS Spike %	QC Limits % Rec.
Acenaphthylene	100	86.9	86.9	72.9-127
4-Chloro-3-methylphenol	100	77.0	77.0	61.6-113
2-Chlorophenol	100	69.5	69.5	52.3-104
1,4-Dichlorobenzene	100	46.2	46.2	27.3-85.0
2,4-Dinitrotoluene	100	90.3	90.3	66.5-117
N-Nitrosodi-n-propylamine	100	83.3	83.3	54.4-119
4-Nitrophenol	100	80.3	80.3	32.4-150
Pentachlorophenol	100	60.8	60.8	23.9-115
Phenol	100	67.5	67.5	54.5-106
Pyrene	100	88.1	88.1	63.5-126
1,2,4-Trichlorobenzene	100	68.6	68.6	49.1-98.5

Comments:

Concentrations reflect the spiked sample amounts.

Flags:

* = Out of limits.

NA = Not applicable.

Reviewed By:



VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Sovereign Consulting

Project Name: NV014

Sample Information and Analytical Results	
Sample Identification	USTBB190-MW14
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	05/17/06
Date Received	05/18/06
Date Extracted	05/31/06
Date Analyzed	05/31/06
Dry Weight	
Dilution Factor	1
C ₅ -C ₈ Aliphatics**	< 100 (µg/L)
C ₉ -C ₁₂ Aliphatics**	< 100 (µg/L)
C ₉ -C ₁₀ Aromatics**	< 100 (µg/L)
Surrogate % Recovery - PID	89
Surrogate % Recovery - FID	97

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards.

Lab Info: G650-57-1D

Reviewed By: ew



VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Sovereign Consulting

Project Name: NV014

Sample Information and Analytical Results	
Sample Identification	PSWBB47
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	05/17/06
Date Received	05/18/06
Date Extracted	05/31/06
Date Analyzed	05/31/06
Dry Weight	
Dilution Factor	1
C ₅ -C ₈ Aliphatics**	< 100 (µg/L)
C ₉ -C ₁₂ Aliphatics**	< 100 (µg/L)
C ₉ -C ₁₀ Aromatics**	< 100 (µg/L)
Surrogate % Recovery - PID	95
Surrogate % Recovery - FID	100

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards.

Lab Info: G650-57-2E

Reviewed By: 



Attachment 2

VPH Laboratory Reporting Form

Calibration and QA/QC Information

FID Initial Calibration Date: 05/04/06PID Initial Calibration Date: 05/04/06

Calibration Ranges and Limits

Range	MDL (07/15/2004) (µg/L)	ML (µg/L)	RL (µg/L) (mg/Kg)	
C ₅ -C ₈ Aliphatics	4.4	14	100	10
C ₉ -C ₁₂ Aliphatics	3.4	11	100	10
C ₉ -C ₁₀ Aromatics	0.13	0.41	100	10

Calibration Concentration Levels

Range	Levels (µg/L)	%RSD or CCC	Method of Quantitation
C ₅ -C ₈ Aliphatics	40	18.2	Calibration Factor
	1000		
	2000		
	3000		
	4000		
C ₉ -C ₁₂ Aliphatics	10	0.99	Linear Regression
	250		
	500		
	750		
	1000		
C ₉ -C ₁₀ Aromatics	10	18.50	Calibration Factor
	250		
	500		
	750		
	1000		

Calibration Check Date: 05/31/06

Calibration Check

Range	Levels (mg/Kg) (µg/L)		RPD
C ₅ -C ₈ Aliphatics	2000	200	0.3
C ₉ -C ₁₂ Aliphatics	500	50	2.6
C ₉ -C ₁₀ Aromatics	500	50	17.2

MDL = Method Detection Limit

ML = Minimum Limit

RL = Reportable Limit

RPD = Relative Percent Difference

%RSD = Percent Relative Standard Deviation

CCC = Correlation Coefficient of Curve



EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: Sovereign Consulting

Project Name: NV014

Sample Information and Analytical Results	
Sample Identification	USTBB190-MW14
Sample Matrix	Water
Date Collected	05/17/06
Date Received	05/18/06
Date Extracted	05/30/06
Date Analyzed	06/05/06
Dry Weight	
Dilution Factor	1:1
C ₉ -C ₁₈ Aliphatics*	< 100 (ug/L)
C ₁₉ -C ₃₈ Aliphatics*	< 100 (ug/L)
C ₁₁ -C ₂₂ Aromatics*	< 100 (ug/L)
Aliphatic Surrogate % Recovery	80
Aromatic Surrogate % Recovery	74
Fractionation Surrogate 1 % Recovery	83

Comments:

* = Excludes any surrogates or internal standards.

Lab info: G650-57-11

Reviewed By: ESJ



EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: Sovereign Consulting

Project Name: NV014

Sample Information and Analytical Results	
Sample Identification	PSWBB47
Sample Matrix	Water
Date Collected	05/17/06
Date Received	05/18/06
Date Extracted	05/30/06
Date Analyzed	06/05/06
Dry Weight	
Dilution Factor	1:1
C ₉ -C ₁₈ Aliphatics*	< 100 (ug/L)
C ₁₉ -C ₃₆ Aliphatics*	< 100 (ug/L)
C ₁₁ -C ₂₂ Aromatics*	< 100 (ug/L)
Aliphatic Surrogate % Recovery	81
Aromatic Surrogate % Recovery	72
Fractionation Surrogate 1 % Recovery	81

Comments:

* = Excludes any surrogates or internal standards.

Lab info: G650-57-21

Reviewed By: EW



Attachment 3

EPH Laboratory Reporting Form

Calibration and QA/QC Information

Initial Calibration Date: 05/31/06

Calibration Ranges and Limits

Range	MDL (2/2004) (µg/L)	ML (µg/L)	RL (µg/L)	RL (mg/Kg)
C ₉ -C ₁₈ Aliphatics	3.84	12.2	100	10
C ₁₉ -C ₃₆ Aliphatics	0.57	1.8	100	10
C ₁₁ -C ₂₂ Aromatics	4.54	14.4	100	10

Calibration Concentration Levels

Range	Levels (µg/mL)	%RSD or CCC	Method of Quantitation
C ₉ -C ₁₈ Aliphatics	6	5.30	Calibration Factor
	30		
	60		
	120		
	240		
C ₁₉ -C ₃₆ Aliphatics	8	6.4	Calibration Factor
	40		
	80		
	160		
	320		
C ₁₁ -C ₂₂ Aromatics	17	10.4	Calibration Factor
	85		
	170		
	340		
	680		

Calibration Check Date: 06/04/06

Calibration Check

Range	Levels (µg/mL)	RPD
C ₉ -C ₁₈ Aliphatics	120	11.8
C ₁₉ -C ₃₆ Aliphatics	160	-6.5
C ₁₁ -C ₂₂ Aromatics	340	14.9

MDL = Method Detection Limit

ML = Minimum Limit

RL = Reportable Limit

RPD = Relative Percent Difference

%RSD = Percent Relative Standard Deviation

CCC = Correlation Coefficient of Curve



List of Reporting Abbreviations and Data Qualifiers

B = Compound also detected in batch blank

BQL = Below Quantitation Limit (RL or MDL)

DF = Dilution Factor

Dup = Duplicate

D = Detected, but RPD is > 40% between results in dual column method.

E = Estimated concentration, exceeds calibration range.

J = Estimated concentration, below calibration range and above MDL

LCS(D) = Laboratory Control Spike (Duplicate)

MDL = Method Detection Limit

MS(D) = Matrix Spike (Duplicate)

PQL = Practical Quantitation Limit

RL = Reporting Limit

RPD = Relative Percent Difference

mg/kg = milligram per kilogram, ppm, parts per million

ug/kg = micrograms per kilogram, ppb, parts per billion

mg/L = milligram per liter, ppm, parts per million

ug/L = micrograms per liter, ppb, parts per billion

% Rec = Percent Recovery

% solids = Percent Solids

Special Notes:

- 1) Metals and mercury samples are digested with a hot block, see the standard operating procedure document for details.
- 2) Uncertainty for all reported data is less than or equal to 30 percent.

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Charleston, WV 25311 Tel: (304) 346-0725 Fax: (304) 346-0761

White - Retained by Lab
Yellow - Returned with Report
Pink - Retained by Sampler



Mr. Chris Murray
Sovereign Consulting
405 Oakmeads Crescent
Suite 1
Virginia Beach VA 23462
Report Number: G650-106
Client Project: NV016

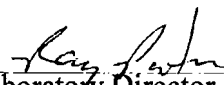
Dear Mr. Murray:

Enclosed are the results of the analytical services performed under the referenced project. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period of five years in the event they are required for future reference. Any samples submitted to our laboratory will be retained for a maximum of thirty (30) days from the date of this report unless other arrangements are requested.

If there are any questions about the report or the services performed during this project, please call SGS/Paradigm at (910) 350-1903. We will be happy to answer any questions or concerns which you may have.

Thank you for using SGS/Paradigm Analytical Labs for your analytical services. We look forward to working with you again on any additional analytical needs which you may have.

Sincerely,
SGS/Paradigm Analytical Laboratories, Inc.


Laboratory Director
J. Patrick Weaver

2/12/2017
Date

**Results for Volatiles**

by GC 602

Client Sample ID: USTBB190-MW02

Analyzed By: RSB

Client Project ID: NV016

Date Collected: 2/5/2007 13:10

Lab Sample ID: G650-106-1A

Date Received: 2/6/2007

Lab Project ID: G650-106

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.183	1	2/9/2007	
Diisopropyl ether (DIPE)	BQL	1.00	0.229	1	2/9/2007	
Ethylbenzene	BQL	1.00	0.181	1	2/9/2007	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.359	1	2/9/2007	
Toluene	BQL	1.00	0.157	1	2/9/2007	
m/p-Xylene	BQL	2.00	0.481	1	2/9/2007	
o-Xylene	BQL	2.00	0.584	1	2/9/2007	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	38.2	95.4

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: USTBB190-MW03

Analyzed By: RSB

Client Project ID: NV016

Date Collected: 2/5/2007 11:30

Lab Sample ID: G650-106-2A

Date Received: 2/6/2007

Lab Project ID: G650-106

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.183	1	2/9/2007	
Diisopropyl ether (DIPE)	BQL	1.00	0.229	1	2/9/2007	
Ethylbenzene	BQL	1.00	0.181	1	2/9/2007	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.359	1	2/9/2007	
Toluene	BQL	1.00	0.157	1	2/9/2007	
m/p-Xylene	BQL	2.00	0.481	1	2/9/2007	
o-Xylene	BQL	2.00	0.584	1	2/9/2007	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	37.9	94.7

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: USTBB190-MW07

Analyzed By: RSB

Client Project ID: NV016

Date Collected: 2/5/2007 12:05

Lab Sample ID: G650-106-3D

Date Received: 2/6/2007

Lab Project ID: G650-106

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	5.00	0.915	5	2/9/2007	
Diisopropyl ether (DIPE)	5.31	5.00	1.15	5	2/9/2007	
Ethylbenzene	112	5.00	0.905	5	2/9/2007	
Methyl-tert butyl ether (MTBE)	BQL	10.0	1.8	5	2/9/2007	
Toluene	BQL	5.00	0.785	5	2/9/2007	
m/p-Xylene	68.8	10.0	2.41	5	2/9/2007	
o-Xylene	8.31	10.0	2.92	5	2/9/2007	J

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	39.7	99.3

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: USTBB190-MW08

Analyzed By: RSB

Client Project ID: NV016

Date Collected: 2/5/2007 16:05

Lab Sample ID: G650-106-4A

Date Received: 2/6/2007

Lab Project ID: G650-106

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.183	1	2/9/2007	
Diisopropyl ether (DIPE)	BQL	1.00	0.229	1	2/9/2007	
Ethylbenzene	BQL	1.00	0.181	1	2/9/2007	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.359	1	2/9/2007	
Toluene	BQL	1.00	0.157	1	2/9/2007	
m/p-Xylene	BQL	2.00	0.481	1	2/9/2007	
o-Xylene	BQL	2.00	0.584	1	2/9/2007	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	37.8	94.6

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: USTBB190-MW12

Analyzed By: RSB

Client Project ID: NV016

Date Collected: 2/5/2007 14:17

Lab Sample ID: G650-106-5A

Date Received: 2/6/2007

Lab Project ID: G650-106

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.183	1	2/9/2007	
Diisopropyl ether (DIPE)	BQL	1.00	0.229	1	2/9/2007	
Ethylbenzene	BQL	1.00	0.181	1	2/9/2007	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.359	1	2/9/2007	
Toluene	BQL	1.00	0.157	1	2/9/2007	
m/p-Xylene	BQL	2.00	0.481	1	2/9/2007	
o-Xylene	BQL	2.00	0.584	1	2/9/2007	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	37.8	94.4

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: USTBB190-MW15

Analyzed By: RSB

Client Project ID: NV016

Date Collected: 2/5/2007 10:43

Lab Sample ID: G650-106-6A

Date Received: 2/6/2007

Lab Project ID: G650-106

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.183	1	2/9/2007	
Diisopropyl ether (DIPE)	BQL	1.00	0.229	1	2/9/2007	
Ethylbenzene	BQL	1.00	0.181	1	2/9/2007	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.359	1	2/9/2007	
Toluene	BQL	1.00	0.157	1	2/9/2007	
m/p-Xylene	BQL	2.00	0.481	1	2/9/2007	
o-Xylene	BQL	2.00	0.584	1	2/9/2007	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	37.4	93.4

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: USTBB190-MW16

Analyzed By: RSB

Client Project ID: NV016

Date Collected: 2/5/2007 15:20

Lab Sample ID: G650-106-7B

Date Received: 2/6/2007

Lab Project ID: G650-106

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	10.2	5.00	0.915	5	2/9/2007	
Diisopropyl ether (DIPE)	3.75	5.00	1.15	5	2/9/2007	J
Ethylbenzene	108	5.00	0.905	5	2/9/2007	
Methyl-tert butyl ether (MTBE)	BQL	10.0	1.8	5	2/9/2007	
Toluene	BQL	5.00	0.785	5	2/9/2007	
m/p-Xylene	6.61	10.0	2.41	5	2/9/2007	J
o-Xylene	BQL	10.0	2.92	5	2/9/2007	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	37.5	93.9

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: USTBB190-MW17

Analyzed By: RSB

Client Project ID: NV016

Date Collected: 2/5/2007 10:00

Lab Sample ID: G650-106-8A

Date Received: 2/6/2007

Lab Project ID: G650-106

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.183	1	2/9/2007	
Diisopropyl ether (DIPE)	BQL	1.00	0.229	1	2/9/2007	
Ethylbenzene	BQL	1.00	0.181	1	2/9/2007	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.359	1	2/9/2007	
Toluene	BQL	1.00	0.157	1	2/9/2007	
m/p-Xylene	BQL	2.00	0.481	1	2/9/2007	
o-Xylene	BQL	2.00	0.584	1	2/9/2007	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	37.8	94.4

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: USTBB190-Duplicate

Analyzed By: RSB

Client Project ID: NV016

Date Collected: 2/5/2007 0:00

Lab Sample ID: G650-106-9B

Date Received: 2/6/2007

Lab Project ID: G650-106

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	9.88	5.00	0.915	5	2/9/2007	
Diisopropyl ether (DIPE)	4.19	5.00	1.15	5	2/9/2007	J
Ethylbenzene	107	5.00	0.905	5	2/9/2007	
Methyl-tert butyl ether (MTBE)	BQL	10.0	1.8	5	2/9/2007	
Toluene	BQL	5.00	0.785	5	2/9/2007	
m/p-Xylene	6.66	10.0	2.41	5	2/9/2007	J
o-Xylene	BQL	10.0	2.92	5	2/9/2007	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	37.4	93.5

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: PSWBB47

Client Project ID: NV016

Lab Sample ID: G650-106-10A

Lab Project ID: G650-106

Analyzed By: RSB

Date Collected: 2/5/2007 16:40

Date Received: 2/6/2007

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.183	1	2/9/2007	
Diisopropyl ether (DIPE)	BQL	1.00	0.229	1	2/9/2007	
Ethylbenzene	BQL	1.00	0.181	1	2/9/2007	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.359	1	2/9/2007	
Toluene	BQL	1.00	0.157	1	2/9/2007	
m/p-Xylene	BQL	2.00	0.481	1	2/9/2007	
o-Xylene	BQL	2.00	0.584	1	2/9/2007	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	37.8	94.5

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: Trip Blanks

Client Project ID: NV016

Lab Sample ID: G650-106-11A

Lab Project ID: G650-106

Analyzed By: RSB

Date Collected: 2/5/2007 0:00

Date Received: 2/6/2007

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.183	1	2/8/2007	
Diisopropyl ether (DIPE)	BQL	1.00	0.229	1	2/8/2007	
Ethylbenzene	BQL	1.00	0.181	1	2/8/2007	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.359	1	2/8/2007	
Toluene	BQL	1.00	0.157	1	2/8/2007	
m/p-Xylene	BQL	2.00	0.481	1	2/8/2007	
o-Xylene	BQL	2.00	0.584	1	2/8/2007	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	38.6	96.4

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: Method Blank

Analyzed By: RSB

Client Project ID:

Date Collected:

Lab Sample ID: VBLK5020907A

Date Received:

Lab Project ID:

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.183	1	2/8/2007	
Diisopropyl ether (DIPE)	BQL	1.00	0.229	1	2/8/2007	
Ethylbenzene	BQL	1.00	0.181	1	2/8/2007	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.359	1	2/8/2007	
Toluene	BQL	1.00	0.157	1	2/8/2007	
m/p-Xylene	BQL	2.00	0.481	1	2/8/2007	
o-Xylene	BQL	2.00	0.584	1	2/8/2007	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	37.6	94.1

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.



Summary Results for MS-MSD

Sample : 020907/116b::020907/016f

MS : 020907/118b::020907/018f

MSD : 020907/119b::020907/019f

Compound	SA	µg/L			REC(%)		REC Limits	
		Sam.	MS	MSD	MS	MSD	Lower	Upper
Benzene	10.0	2.0	10.5	10.1	105	105	39	150
Chlorobenzene	10.0	ND	10.6	10.4	106	106	55	135
1,2-Dichlorobenzene	10.0	ND	14.1	13.6	141	141	37	154
1,3-Dichlorobenzene	10.0	ND	5.6	5.4	56	56	50	141
1,4-Dichlorobenzene	10.0	2.5	11.8	14.9	118	118	42	143
Diisopropyl ether	10.0	ND	10.8	10.3	108	108	30	170
Ethylbenzene	10.0	21.4	10.5	10.2	105	105	32	160
MTBE	20.0	ND	20.3	19.7	102	102	35	165
Toluene	10.0	ND	10.1	10.4	101	101	46	148
m,p-Xylene	20.0	ND	21.7	21.1	108	108	D	239
o-Xylene	20.0	ND	20.0	19.3	100	100	36	164

Flags :

- + = out of QC limits.
- = lab generated limits.
- D = Detected
- ND = None Detected
- SA= Spike Added



Summary Results for Laboratory Control Spike

Method: 602

Filename : 020907/005f

Compound	SA	Result	Rec	LCS Limits	
	ug/L	ug/L	(%)	Lower	Upper
Benzene	10.0	9.8	98.0	39	150
Chlorobenzene	10.0	11.0	109.6	55	135
1,2-Dichlorobenzene	20.0	14.8	73.8	37	164
1,3-Dichlorobenzene	10.0	5.8	58.4	50	141
1,4-Dichlorobenzene	20.0	20.3	101.7	42	143
• Diisopropyl ether	10.0	9.1	91.5	30	170
Ethylbenzene	10.0	9.9	99.1	32	160
• MTBE	20.0	19.5	97.6	35	165
Toluene	10.0	9.8	98.4	46	148
• m,p-Xylene	20.0	22.5	112.3	0	239
• o-Xylene	20.0	19.5	97.6	36	164

Flags :

- + = out of QC limits.
- = lab generated limits.
- D = Detected
- SA = Spiked Amount



Summary Results for Laboratory Control Spike

Method: 602

Filename : 020907/004f

Compound	SA	Result	Rec	LCS Limits	
	ug/L	ug/L	(%)	Lower	Upper
Benzene	10.0	10.1	100.8	39	150
Chlorobenzene	10.0	11.0	109.6	55	135
1,2-Dichlorobenzene	20.0	14.8	73.8	37	154
1,3-Dichlorobenzene	10.0	5.8	58.4	50	141
1,4-Dichlorobenzene	20.0	20.3	101.7	42	143
• Diisopropyl ether	10.0	9.4	94.2	30	170
Ethylbenzene	10.0	10.2	101.8	32	160
• MTBE	20.0	20.1	100.6	35	165
Toluene	10.0	10.1	100.9	46	148
• m,p-Xylene	20.0	22.5	112.3	0	239
• o-Xylene	20.0	20.0	99.8	36	164

Flags :

- + = out of QC limits.
- = lab generated limits.
- D = Detected
- SA = Spiked Amount

**Results for Volatiles**

by GC 602

Client Sample ID: Method Blank

Analyzed By: RSB

Client Project ID:

Date Collected:

Lab Sample ID: VBLK5020907A

Date Received:

Lab Project ID:

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.183	1	2/8/2007	
Diisopropyl ether (DIPE)	BQL	1.00	0.229	1	2/8/2007	
Ethylbenzene	BQL	1.00	0.181	1	2/8/2007	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.359	1	2/8/2007	
Toluene	BQL	1.00	0.157	1	2/8/2007	
m/p-Xylene	BQL	2.00	0.481	1	2/8/2007	
o-Xylene	BQL	2.00	0.584	1	2/8/2007	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	38.6	96.4

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

Summary Results for MS-MSD

Sample : 020807/015F::020807/015R

MS : 020807/017F::020807/017R

MSD : 020807/018F::020807/018R

Compound	SA	µg/L			REC(%)		REC Limits	
		Sam.	MS	MSD	MS	MSD	Lower	Upper
Bromodichloromethane	10.0	ND	11.7	11.4	117	114	42	172
Bromoform	10.0	ND	10.1	9.5	101	95	13	159
Bromomethane	10.0	ND	8.5	8.4	79	78	D	144
Carbon tetrachloride	20.0	ND	25.4	25.2	127	126	43	143
Chlorobenzene	10.0	ND	11.8	11.3	118	113	38	150
Chloroethane	10.0	ND	9.9	10.4	104	109	46	137
Chloroform	10.0	ND	12.3	12.2	131	130	49	133
Chloromethane	10.0	ND	19.6	19.3	202 +	199 +	D	193
Dibromochloromethane	10.0	ND	11.0	10.4	110	104	24	191
1,2-Dibromoethane	10.0	ND	11.5	10.8	115	108	D	206
1,2-Dichlorobenzene	10.0	ND	11.9	11.7	119	117	D	208
1,3-Dichlorobenzene	10.0	ND	11.8	11.7	118	117	7	187
1,4-Dichlorobenzene	10.0	ND	12.1	11.8	121	118	42	143
1,1-Dichloroethane	10.0	ND	12.1	12.1	121	121	47	132
1,2-Dichloroethane	20.0	ND	12.8	12.5	64	63	51	147
1,1-Dichloroethene	10.0	ND	12.2	12.3	126	127	28	167
cis-1,2-Dichloroethene	20.0	1.62	30.0	29.2	142	138	19	181
trans-1,2-Dichloroethene	10.0	ND	12.5	12.5	132	132	38	155
1,2-Dichloropropane	10.0	ND	12.4	12.6	129	131	44	156
cis-1,3-Dichloropropene	10.0	ND	11.6	11.0	116	110	22	178
trans-1,3-Dichloropropene	10.0	ND	11.4	10.9	116	111	22	178
Methylene Chloride	10.0	ND	12.5	12.4	132	131	26	162
1,1,2,2-Tetrachloroethane	20.0	ND	24.1	23.2	120	116	8	184
Tetrachloroethane	20.0	9.38	33.1	32.5	119	115	26	162
1,1,1-Trichloroethane	10.0	ND	12.4	12.2	131	129	41	138
1,1,2-Trichloroethane	10.0	ND	12.8	12.2	128	122	39	136
Trichloroethene	10.0	ND	12.4	12.5	126	127	35	146
Trichlorofluoromethane	10.0	ND	9.7	10.2	102	107	21	156
Vinyl Chloride	10.0	ND	10.8	11.3	117	122	28	163

Method: 602

Compound	SA	µg/L			P(%)		P Limits	
		Sam.	MS	MSD	MS	MSD	Lower	Upper
Benzene	10.0	ND	10.9	10.4	109	104	39	150
Chlorobenzene	10.0	1.2	10.9	10.2	96	90	55	135
1,2-Dichlorobenzene	10.0	17.8	22.6	21.1	48	33 +	37	154
1,3-Dichlorobenzene	10.0	ND	10.9	10.3	109	103	50	141
1,4-Dichlorobenzene	20.0	2.7	21.8	20.3	95	88	42	143
Diisopropyl ether	10.0	ND	10.4	9.8	104	98	30	170
Ethylbenzene	10.0	2.3	11.2	10.5	89	82	32	160
MTBE	20.0	ND	21.4	20.3	107	101	35	165
Toluene	10.0	ND	10.8	10.3	109	104	46	148
m,p-Xylene	20.0	2.2	22.2	20.9	100	94	D	239
o-Xylene	20.0	1.2	22.0	20.7	104	97	36	164

Flags :

- + = out of QC limits.
- = lab generated limits.
- D = Detected
- ND = None Detected
- SA = Spike Added



Summary Results for Laboratory Control Spike

Method : 601

Filename : 020807/004F

Compound	SA	Result	Rec	F	LCS Limits	
	ug/L	ug/L	(%)		Lower	Upper
Bromodichloromethane	10.0	11.2	111.6		42	172
Bromoform	10.0	11.2	111.8		13	159
Bromomethane	10.0	8.5	84.8		0	144
Carbon tetrachloride	20.0	24.3	121.5		43	143
Chlorobenzene	10.0	11.1	110.8		38	150
Chloroethane	10.0	10.7	106.7		46	137
Chloroform	10.0	11.6	116.3		49	133
Chloromethane	10.0	20.4	204.2 +		0	193
Dibromochloromethane	10.0	10.8	108.1		24	191
• 1,2-Dibromoethane	10.0	10.2	102.4		0	206
1,2-Dichlorobenzene	10.0	11.4	113.9		0	208
1,3-Dichlorobenzene	10.0	11.4	114.0		7	187
1,4-Dichlorobenzene	10.0	11.6	116.3		42	143
1,1-Dichloroethane	10.0	11.6	116.2		47	132
1,2-Dichloroethane	10.0	12.0	119.8		51	147
1,1-Dichloroethene	10.0	11.9	118.5		28	167
• cis-1,2-Dichloroethene	20.0	26.2	130.8		19	181
trans-1,2-Dichloroethene	10.0	12.2	122.1		38	155
1,2-Dichloropropane	10.0	12.0	119.8		44	156
cis-1,3-Dichloropropene	10.0	10.9	109.3		22	178
trans-1,3-Dichloropropene	10.0	10.8	107.8		22	178
Methylene Chloride	10.0	12.1	120.8		25	162
1,1,2,2-Tetrachloroethane	20.0	22.5	112.7		8	184
Tetrachloroethane	10.0	11.9	118.9		26	162
1,1,1-Trichloroethane	10.0	11.6	116.3		41	138
1,1,2-Trichloroethane	10.0	11.6	115.9		39	136
Trichloroethene	10.0	11.6	116.4		35	146
Trichlorofluoromethane	10.0	10.1	100.7		21	156
Vinyl Chloride	10.0	11.2	112.3		28	163

Method: 602

Filename : 020807/004R

Compound	SA	Result	Rec	LCS Limits	
	ug/L	ug/L	(%)	Lower	Upper
Benzene	10.0	10.2	101.9	39	150
Chlorobenzene	10.0	10.0	99.6	55	135
1,2-Dichlorobenzene	20.0	20.4	101.8	37	154
1,3-Dichlorobenzene	10.0	9.9	99.2	50	141
1,4-Dichlorobenzene	20.0	19.9	99.7	42	143
• Diisopropyl ether	10.0	9.6	95.9	30	170
Ethylbenzene	10.0	10.2	102.2	32	160
• MTBE	20.0	19.8	99.1	35	165
Toluene	10.0	10.1	101.5	46	148
• m,p-Xylene	20.0	20.4	102.2	0	239
• o-Xylene	20.0	20.3	101.4	36	164

Flags :

- + = out of QC limits.
- = lab generated limits.
- D = Detected
- SA = Spiked Amount



Summary Results for Laboratory Control Spike

Method : 601

Filename : 020807/005F

Compound	SA	Result	Rec	F	LCS Limits	
	ug/L	ug/L	(%)		Lower	Upper
Bromodichloromethane	10.0	11.4	114.2		42	172
Bromoform	10.0	11.3	113.3		13	159
Bromomethane	10.0	9.5	94.5		0	144
Carbon tetrachloride	20.0	24.4	122.0		43	143
Chlorobenzene	10.0	11.0	110.4		38	150
Chloroethane	10.0	10.9	108.8		46	137
Chloroform	10.0	11.5	115.0		49	133
Chloromethane	10.0	21.4	213.6 +		0	193
Dibromochloromethane	10.0	11.0	110.5		24	191
• 1,2-Dibromoethane	10.0	10.6	106.0		0	206
1,2-Dichlorobenzene	10.0	11.3	113.0		0	208
1,3-Dichlorobenzene	10.0	11.3	112.9		7	187
1,4-Dichlorobenzene	10.0	11.7	116.6		42	143
1,1-Dichloroethane	10.0	11.5	114.7		47	132
1,2-Dichloroethane	10.0	12.1	121.5		51	147
1,1-Dichloroethene	10.0	11.9	118.7		28	167
• cis-1,2-Dichloroethene	20.0	26.3	131.3		19	181
trans-1,2-Dichloroethene	10.0	12.1	120.9		38	155
1,2-Dichloropropane	10.0	12.2	121.8		44	156
cis-1,3-Dichloropropene	10.0	11.1	110.7		22	178
trans-1,3-Dichloropropene	10.0	10.9	108.8		22	178
Methylene Chloride	10.0	12.0	119.9		25	162
1,1,2,2-Tetrachloroethane	20.0	22.3	111.6		8	184
Tetrachloroethane	10.0	11.9	119.5		26	162
1,1,1-Trichloroethane	10.0	11.6	116.3		41	138
1,1,2-Trichloroethane	10.0	11.9	119.2		39	136
Trichloroethene	10.0	11.5	115.0		35	146
Trichlorofluoromethane	10.0	10.3	103.3		21	156
Vinyl Chloride	10.0	11.5	114.6		28	163

Method: 602

Filename : 020807/005R

Compound	SA	Result	Rec	LCS Limits	
	ug/L	ug/L	(%)	Lower	Upper
Benzene	10.0	10.1	100.9	39	150
Chlorobenzene	10.0	9.8	98.0	55	135
1,2-Dichlorobenzene	20.0	19.7	98.6	37	154
1,3-Dichlorobenzene	10.0	9.7	96.7	50	141
1,4-Dichlorobenzene	20.0	19.4	96.9	42	143
• Diisopropyl ether	10.0	9.6	95.5	30	170
Ethylbenzene	10.0	10.1	100.6	32	160
• MTBE	20.0	19.7	98.7	35	165
Toluene	10.0	10.0	100.0	46	148
• m,p-Xylene	20.0	20.1	100.3	0	239
• o-Xylene	20.0	19.9	99.6	36	164

Flags :

- + = out of QC limits.
- = lab generated limits.
- D = Detected
- SA = Spiked Amount

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTBB190-MW02
Client Project ID: NV016
Lab Sample ID: G650-106-1H
Lab Project ID: G650-106

Analyzed By: EAW
Date Collected: 2/5/2007 13:10
Date Received: 2/6/2007
Date Extracted: 2/7/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	6.20	10.0	1.22	1	2/9/2007	J
Acenaphthylene	BQL	10.0	1.12	1	2/9/2007	
Anthracene	BQL	10.0	1.75	1	2/9/2007	
Benzo[a]anthracene	BQL	10.0	1.36	1	2/9/2007	
Benzo[a]pyrene	BQL	10.0	1.27	1	2/9/2007	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	2/9/2007	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	2/9/2007	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	2/9/2007	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	2/9/2007	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	2/9/2007	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	2/9/2007	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	2/9/2007	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	2/9/2007	
Butylbenzylphthalate	BQL	10.0	1.53	1	2/9/2007	
2-Chloronaphthalene	BQL	10.0	1.25	1	2/9/2007	
2-Chlorophenol	BQL	10.0	4.22	1	2/9/2007	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	2/9/2007	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	2/9/2007	
Chrysene	BQL	10.0	1.11	1	2/9/2007	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	2/9/2007	
Di-n-Butylphthalate	BQL	10.0	1.65	1	2/9/2007	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	2/9/2007	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	2/9/2007	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	2/9/2007	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	2/9/2007	
2,4-Dichlorophenol	BQL	10.0	3.75	1	2/9/2007	
Diethylphthalate	BQL	10.0	1.48	1	2/9/2007	
Dimethylphthalate	BQL	10.0	1.04	1	2/9/2007	
2,4-Dimethylphenol	BQL	10.0	9.25	1	2/9/2007	
Di-n-octylphthalate	BQL	10.0	1.16	1	2/9/2007	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	2/9/2007	
2,4-Dinitrophenol	BQL	50.0	4.20	1	2/9/2007	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	2/9/2007	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	2/9/2007	
Diphenylamine *	BQL	10.0	1.53	1	2/9/2007	
Fluoranthene	BQL	10.0	1.41	1	2/9/2007	
Fluorene	2.80	10.0	1.22	1	2/9/2007	J
Hexachlorobenzene	BQL	10.0	1.22	1	2/9/2007	
Hexachlorobutadiene	BQL	10.0	1.58	1	2/9/2007	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	2/9/2007	
Hexachloroethane	BQL	10.0	1.58	1	2/9/2007	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	2/9/2007	
Isophorone	BQL	10.0	1.27	1	2/9/2007	
Naphthalene	BQL	10.0	1.08	1	2/9/2007	
Nitrobenzene	BQL	10.0	1.32	1	2/9/2007	
2-Nitrophenol	BQL	10.0	3.52	1	2/9/2007	

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTBB190-MW02
Client Project ID: NV016
Lab Sample ID: G650-106-1H
Lab Project ID: G650-106

Analyzed By: EAW
Date Collected: 2/5/2007 13:10
Date Received: 2/6/2007
Date Extracted: 2/7/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
4-Nitrophenol	BQL	50.0	3.17	1	2/9/2007	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	2/9/2007	
Pentachlorophenol	BQL	50.0	2.83	1	2/9/2007	
Phenanthrene	BQL	10.0	1.38	1	2/9/2007	
Phenol	BQL	10.0	3.38	1	2/9/2007	
Pyrene	BQL	10.0	2.08	1	2/9/2007	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	2/9/2007	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	2/9/2007	

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	8.7	87
2-Fluorophenol	10	8.8	88
Nitrobenzene-d5	10	8.7	87
Phenol-d6	10	2.4	24 #
2,4,6-Tribromophenol	10	9.8	98
4-Terphenyl-d14	10	11.7	117

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By: EAW

**Results of Library Search for Semivolatile Compounds**
by GCMS

Client Sample ID: USTBB190-MW02
Client Project ID: NV016
Lab Sample ID: G650-106-1H
Lab Project ID: G650-106
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: EAW
Date Collected: 2/5/2007 13:10
Date Received: 2/6/2007
Date Extracted: 2/7/2007
Date Analyzed: 2/9/2007
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Unknown	12.25			9.12
2					
3					
4					
5					
6					
7					
8					
9					
10					

Comment:

Tentatively Identified Compound (TIC) refers to substances which are not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist.

Quantitation is accomplished by relative peak area of the compound compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is equal to or greater than 10% of that of the nearest internal standard. Quantitation provided is an estimate.

Reviewed by: EAW

Results for Semivolatiles
by GCMS 625Client Sample ID: USTBB190-MW03
Client Project ID: NV016
Lab Sample ID: G650-106-2H
Lab Project ID: G650-106Analyzed By: EAW
Date Collected: 2/5/2007 11:30
Date Received: 2/6/2007
Date Extracted: 2/7/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	2/9/2007	
Acenaphthylene	BQL	10.0	1.12	1	2/9/2007	
Anthracene	BQL	10.0	1.75	1	2/9/2007	
Benzo[a]anthracene	BQL	10.0	1.36	1	2/9/2007	
Benzo[a]pyrene	BQL	10.0	1.27	1	2/9/2007	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	2/9/2007	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	2/9/2007	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	2/9/2007	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	2/9/2007	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	2/9/2007	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	2/9/2007	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	2/9/2007	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	2/9/2007	
Butylbenzylphthalate	BQL	10.0	1.53	1	2/9/2007	
2-Chloronaphthalene	BQL	10.0	1.25	1	2/9/2007	
2-Chlorophenol	BQL	10.0	4.22	1	2/9/2007	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	2/9/2007	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	2/9/2007	
Chrysene	BQL	10.0	1.11	1	2/9/2007	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	2/9/2007	
Di-n-Butylphthalate	BQL	10.0	1.65	1	2/9/2007	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	2/9/2007	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	2/9/2007	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	2/9/2007	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	2/9/2007	
2,4-Dichlorophenol	BQL	10.0	3.75	1	2/9/2007	
Diethylphthalate	BQL	10.0	1.48	1	2/9/2007	
Dimethylphthalate	BQL	10.0	1.04	1	2/9/2007	
2,4-Dimethylphenol	BQL	10.0	9.25	1	2/9/2007	
Di-n-octylphthalate	BQL	10.0	1.16	1	2/9/2007	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	2/9/2007	
2,4-Dinitrophenol	BQL	50.0	4.20	1	2/9/2007	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	2/9/2007	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	2/9/2007	
Diphenylamine *	BQL	10.0	1.53	1	2/9/2007	
Fluoranthene	BQL	10.0	1.41	1	2/9/2007	
Fluorene	BQL	10.0	1.22	1	2/9/2007	
Hexachlorobenzene	BQL	10.0	1.22	1	2/9/2007	
Hexachlorobutadiene	BQL	10.0	1.58	1	2/9/2007	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	2/9/2007	
Hexachloroethane	BQL	10.0	1.58	1	2/9/2007	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	2/9/2007	
Isophorone	BQL	10.0	1.27	1	2/9/2007	
Naphthalene	BQL	10.0	1.08	1	2/9/2007	
Nitrobenzene	BQL	10.0	1.32	1	2/9/2007	
2-Nitrophenol	BQL	10.0	3.52	1	2/9/2007	

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTBB190-MW03
Client Project ID: NV016
Lab Sample ID: G650-106-2H
Lab Project ID: G650-106

Analyzed By: EAW
Date Collected: 2/5/2007 11:30
Date Received: 2/6/2007
Date Extracted: 2/7/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
4-Nitrophenol	BQL	50.0	3.17	1	2/9/2007	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	2/9/2007	
Pentachlorophenol	BQL	50.0	2.83	1	2/9/2007	
Phenanthrene	BQL	10.0	1.38	1	2/9/2007	
Phenol	BQL	10.0	3.38	1	2/9/2007	
Pyrene	BQL	10.0	2.08	1	2/9/2007	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	2/9/2007	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	2/9/2007	

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	7.8	78
2-Fluorophenol	10	7.9	79
Nitrobenzene-d5	10	8.1	81
Phenol-d6	10	8.2	82
2,4,6-Tribromophenol	10	9.1	91
4-Terphenyl-d14	10	12.1	121

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By: EL

**Results of Library Search for Semivolatile Compounds**
by GCMS

Client Sample ID: USTBB190-MW03

Client Project ID: NV016

Lab Sample ID: G650-106-2H

Lab Project ID: G650-106

Sample Wt/Vol: 500 ML

Dilution: 1

Analyzed By: EAW

Date Collected: 2/5/2007 11:30

Date Received: 2/6/2007

Date Extracted: 2/7/2007

Date Analyzed: 2/9/2007

Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Unknown	12.25			10.3
2	Benzenesulfonamide, 4-methyl-	13.12	000070-55-3	90	7.8
3					
4					
5					
6					
7					
8					
9					
10					

Comment:

Tentatively Identified Compound (TIC) refers to substances which are not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist.

Quantitation is accomplished by relative peak area of the compound compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is equal to or greater than 10% of that of the nearest internal standard. Quantitation provided is an estimate.

Reviewed by: SW

Results for Semivolatiles
by GCMS 625Client Sample ID: USTBB190-MW07
Client Project ID: NV016
Lab Sample ID: G650-106-3H
Lab Project ID: G650-106Analyzed By: EAW
Date Collected: 2/5/2007 12:05
Date Received: 2/6/2007
Date Extracted: 2/7/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	2/9/2007	
Acenaphthylene	BQL	10.0	1.12	1	2/9/2007	
Anthracene	BQL	10.0	1.75	1	2/9/2007	
Benzo[a]anthracene	BQL	10.0	1.36	1	2/9/2007	
Benzo[a]pyrene	BQL	10.0	1.27	1	2/9/2007	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	2/9/2007	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	2/9/2007	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	2/9/2007	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	2/9/2007	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	2/9/2007	
Bis(2-chloroisopropyl)ether	16.9	10.0	1.57	1	2/9/2007	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	2/9/2007	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	2/9/2007	
Butylbenzylphthalate	BQL	10.0	1.53	1	2/9/2007	
2-Chloronaphthalene	BQL	10.0	1.25	1	2/9/2007	
2-Chlorophenol	BQL	10.0	4.22	1	2/9/2007	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	2/9/2007	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	2/9/2007	
Chrysene	BQL	10.0	1.11	1	2/9/2007	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	2/9/2007	
Di-n-Butylphthalate	BQL	10.0	1.65	1	2/9/2007	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	2/9/2007	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	2/9/2007	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	2/9/2007	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	2/9/2007	
2,4-Dichlorophenol	BQL	10.0	3.75	1	2/9/2007	
Diethylphthalate	BQL	10.0	1.48	1	2/9/2007	
Dimethylphthalate	3.80	10.0	1.04	1	2/9/2007	J
2,4-Dimethylphenol	BQL	10.0	9.25	1	2/9/2007	
Di-n-octylphthalate	BQL	10.0	1.16	1	2/9/2007	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	2/9/2007	
2,4-Dinitrophenol	BQL	50.0	4.20	1	2/9/2007	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	2/9/2007	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	2/9/2007	
Diphenylamine *	BQL	10.0	1.53	1	2/9/2007	
Fluoranthene	BQL	10.0	1.41	1	2/9/2007	
Fluorene	1.80	10.0	1.22	1	2/9/2007	J
Hexachlorobenzene	BQL	10.0	1.22	1	2/9/2007	
Hexachlorobutadiene	BQL	10.0	1.58	1	2/9/2007	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	2/9/2007	
Hexachloroethane	BQL	10.0	1.58	1	2/9/2007	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	2/9/2007	
Isophorone	BQL	10.0	1.27	1	2/9/2007	
Naphthalene	67.5	10.0	1.08	1	2/9/2007	
Nitrobenzene	BQL	10.0	1.32	1	2/9/2007	
2-Nitrophenol	BQL	10.0	3.52	1	2/9/2007	

Results for Semivolatiles
by GCMS 625

Client Sample ID: USTBB190-MW07
Client Project ID: NV016
Lab Sample ID: G650-106-3H
Lab Project ID: G650-106

Analyzed By: EAW
Date Collected: 2/5/2007 12:05
Date Received: 2/6/2007
Date Extracted: 2/7/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
4-Nitrophenol	BQL	50.0	3.17	1	2/9/2007	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	2/9/2007	
Pentachlorophenol	BQL	50.0	2.83	1	2/9/2007	
Phenanthrene	1.80	10.0	1.38	1	2/9/2007	J
Phenol	BQL	10.0	3.38	1	2/9/2007	
Pyrene	BQL	10.0	2.08	1	2/9/2007	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	2/9/2007	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	2/9/2007	

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	7.2	73
2-Fluorophenol	10	5.4	54
Nitrobenzene-d5	10	6.8	68
Phenol-d6	10	8.3	83
2,4,6-Tribromophenol	10	9.8	98
4-Terphenyl-d14	10	11.5	115

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By:

**Results of Library Search for Semivolatile Compounds**
by GCMS

Client Sample ID: USTBB190-MW07
Client Project ID: NV016
Lab Sample ID: G650-106-3H
Lab Project ID: G650-106
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: EAW
Date Collected: 2/5/2007 12:05
Date Received: 2/6/2007
Date Extracted: 2/7/2007
Date Analyzed: 2/9/2007
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	1,2,4-Trimethylbenzene	6.77	000095-36-3	97	234
2	Benzene, 1-ethyl-3-methyl-	7.10	000620-14-4	94	92.4
3	Aromatic, Unknown	7.26			88.9
4	Benzene, 1-ethyl-2-methyl-	6.57	000611-14-3	95	70.5
5	Benzene, 2-ethenyl-1,4-dimethyl-	8.53	002039-89-6	91	54.5
6	Benzenesulfonamide, 4-methyl-	13.13	000070-55-3	91	48.4
7	Benzene, 1,2,4-trimethyl-	6.46	000095-63-6	95	46.5
8	Benzene, 1-ethyl-2-methyl-	6.39	000611-14-3	95	44
9	Benzene, propyl-	6.27	000103-65-1	91	42.4
10	Benzene, 2-ethyl-1,4-dimethyl-	7.70	001758-88-9	95	33.7

Comment:

Tentatively Identified Compound (TIC) refers to substances which are not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist.

Quantitation is accomplished by relative peak area of the compound compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is equal to or greater than 10% of that of the nearest internal standard. Quantitation provided is an estimate.

Reviewed by: Red

Results for Semivolatiles
by GCMS 625Client Sample ID: USTBB190-MW08
Client Project ID: NV016
Lab Sample ID: G650-106-4H
Lab Project ID: G650-106Analyzed By: EAW
Date Collected: 2/5/2007 16:05
Date Received: 2/6/2007
Date Extracted: 2/7/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	5.00	10.0	1.22	1	2/9/2007	J
Acenaphthylene	BQL	10.0	1.12	1	2/9/2007	
Anthracene	BQL	10.0	1.75	1	2/9/2007	
Benzo[a]anthracene	BQL	10.0	1.36	1	2/9/2007	
Benzo[a]pyrene	BQL	10.0	1.27	1	2/9/2007	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	2/9/2007	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	2/9/2007	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	2/9/2007	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	2/9/2007	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	2/9/2007	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	2/9/2007	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	2/9/2007	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	2/9/2007	
Butylbenzylphthalate	BQL	10.0	1.53	1	2/9/2007	
2-Chloronaphthalene	BQL	10.0	1.25	1	2/9/2007	
2-Chlorophenol	BQL	10.0	4.22	1	2/9/2007	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	2/9/2007	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	2/9/2007	
Chrysene	BQL	10.0	1.11	1	2/9/2007	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	2/9/2007	
Di-n-Butylphthalate	BQL	10.0	1.65	1	2/9/2007	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	2/9/2007	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	2/9/2007	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	2/9/2007	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	2/9/2007	
2,4-Dichlorophenol	BQL	10.0	3.75	1	2/9/2007	
Diethylphthalate	BQL	10.0	1.48	1	2/9/2007	
Dimethylphthalate	BQL	10.0	1.04	1	2/9/2007	
2,4-Dimethylphenol	BQL	10.0	9.25	1	2/9/2007	
Di-n-octylphthalate	BQL	10.0	1.16	1	2/9/2007	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	2/9/2007	
2,4-Dinitrophenol	BQL	50.0	4.20	1	2/9/2007	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	2/9/2007	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	2/9/2007	
Diphenylamine *	BQL	10.0	1.53	1	2/9/2007	
Fluoranthene	BQL	10.0	1.41	1	2/9/2007	
Fluorene	1.40	10.0	1.22	1	2/9/2007	J
Hexachlorobenzene	BQL	10.0	1.22	1	2/9/2007	
Hexachlorobutadiene	BQL	10.0	1.58	1	2/9/2007	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	2/9/2007	
Hexachloroethane	BQL	10.0	1.58	1	2/9/2007	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	2/9/2007	
Isophorone	BQL	10.0	1.27	1	2/9/2007	
Naphthalene	1.30	10.0	1.08	1	2/9/2007	J
Nitrobenzene	BQL	10.0	1.32	1	2/9/2007	
2-Nitrophenol	BQL	10.0	3.52	1	2/9/2007	

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTBB190-MW08
Client Project ID: NV016
Lab Sample ID: G650-106-4H
Lab Project ID: G650-106

Analyzed By: EAW
Date Collected: 2/5/2007 16:05
Date Received: 2/6/2007
Date Extracted: 2/7/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
4-Nitrophenol	BQL	50.0	3.17	1	2/9/2007	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	2/9/2007	
Pentachlorophenol	BQL	50.0	2.83	1	2/9/2007	
Phenanthrene	BQL	10.0	1.38	1	2/9/2007	
Phenol	BQL	10.0	3.38	1	2/9/2007	
Pyrene	BQL	10.0	2.08	1	2/9/2007	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	2/9/2007	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	2/9/2007	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	7.2	72		
2-Fluorophenol		10	7.2	72		
Nitrobenzene-d5		10	7.1	71		
Phenol-d6		10	7.9	79		
2,4,6-Tribromophenol		10	8.5	85		
4-Terphenyl-d14		10	13	130		

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By:

**Results of Library Search for Semivolatile Compounds**
by GCMS

Client Sample ID: USTBB190-MW08
Client Project ID: NV016
Lab Sample ID: G650-106-4H
Lab Project ID: G650-106
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: EAW
Date Collected: 2/5/2007 16:05
Date Received: 2/6/2007
Date Extracted: 2/7/2007
Date Analyzed: 2/9/2007
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Unknown	12.25			7.44
2					
3					
4					
5					
6					
7					
8					
9					
10					

Comment:

Tentatively Identified Compound (TIC) refers to substances which are not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist.

Quantitation is accomplished by relative peak area of the compound compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is equal to or greater than 10% of that of the nearest internal standard. Quantitation provided is an estimate.

Reviewed by: SW

Results for Semivolatiles
by GCMS 625Client Sample ID: USTBB190-MW12
Client Project ID: NV016
Lab Sample ID: G650-106-5H
Lab Project ID: G650-106Analyzed By: EAW
Date Collected: 2/5/2007 14:17
Date Received: 2/6/2007
Date Extracted: 2/7/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	2.30	10.0	1.22	1	2/9/2007	J
Acenaphthylene	BQL	10.0	1.12	1	2/9/2007	
Anthracene	BQL	10.0	1.75	1	2/9/2007	
Benzo[a]anthracene	BQL	10.0	1.36	1	2/9/2007	
Benzo[a]pyrene	BQL	10.0	1.27	1	2/9/2007	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	2/9/2007	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	2/9/2007	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	2/9/2007	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	2/9/2007	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	2/9/2007	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	2/9/2007	
Bis(2-ethylhexyl)phthalate	1.60	10.0	1.33	1	2/9/2007	J
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	2/9/2007	
Butylbenzylphthalate	BQL	10.0	1.53	1	2/9/2007	
2-Chloronaphthalene	BQL	10.0	1.25	1	2/9/2007	
2-Chlorophenol	BQL	10.0	4.22	1	2/9/2007	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	2/9/2007	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	2/9/2007	
Chrysene	BQL	10.0	1.11	1	2/9/2007	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	2/9/2007	
Di-n-Butylphthalate	1.70	10.0	1.65	1	2/9/2007	J
1,2-Dichlorobenzene	BQL	10.0	1.25	1	2/9/2007	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	2/9/2007	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	2/9/2007	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	2/9/2007	
2,4-Dichlorophenol	BQL	10.0	3.75	1	2/9/2007	
Diethylphthalate	2.00	10.0	1.48	1	2/9/2007	J
Dimethylphthalate	1.90	10.0	1.04	1	2/9/2007	J
2,4-Dimethylphenol	BQL	10.0	9.25	1	2/9/2007	
Di-n-octylphthalate	BQL	10.0	1.16	1	2/9/2007	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	2/9/2007	
2,4-Dinitrophenol	BQL	50.0	4.20	1	2/9/2007	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	2/9/2007	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	2/9/2007	
Diphenylamine *	BQL	10.0	1.53	1	2/9/2007	
Fluoranthene	BQL	10.0	1.41	1	2/9/2007	
Fluorene	BQL	10.0	1.22	1	2/9/2007	
Hexachlorobenzene	BQL	10.0	1.22	1	2/9/2007	
Hexachlorobutadiene	BQL	10.0	1.58	1	2/9/2007	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	2/9/2007	
Hexachloroethane	BQL	10.0	1.58	1	2/9/2007	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	2/9/2007	
Isophorone	BQL	10.0	1.27	1	2/9/2007	
Naphthalene	BQL	10.0	1.08	1	2/9/2007	
Nitrobenzene	BQL	10.0	1.32	1	2/9/2007	
2-Nitrophenol	BQL	10.0	3.52	1	2/9/2007	

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTBB190-MW12
Client Project ID: NV016
Lab Sample ID: G650-106-5H
Lab Project ID: G650-106

Analyzed By: EAW
Date Collected: 2/5/2007 14:17
Date Received: 2/6/2007
Date Extracted: 2/7/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
4-Nitrophenol	BQL	50.0	3.17	1	2/9/2007	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	2/9/2007	
Pentachlorophenol	BQL	50.0	2.83	1	2/9/2007	
Phenanthrene	BQL	10.0	1.38	1	2/9/2007	
Phenol	BQL	10.0	3.38	1	2/9/2007	
Pyrene	BQL	10.0	2.08	1	2/9/2007	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	2/9/2007	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	2/9/2007	

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	7	70
2-Fluorophenol	10	5.7	57
Nitrobenzene-d5	10	6.6	66
Phenol-d6	10	6.5	65
2,4,6-Tribromophenol	10	8.2	82
4-Terphenyl-d14	10	12.6	126

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By: EAW

**Results of Library Search for Semivolatile Compounds**
by GCMS

Client Sample ID: USTBB190-MW12
Client Project ID: NV016
Lab Sample ID: G650-106-5H
Lab Project ID: G650-106
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: EAW
Date Collected: 2/5/2007 14:17
Date Received: 2/6/2007
Date Extracted: 2/7/2007
Date Analyzed: 2/9/2007
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Unknown	12.25			10.2
2					
3					
4					
5					
6					
7					
8					
9					
10					

Comment:

Tentatively Identified Compound (TIC) refers to substances which are not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist.

Quantitation is accomplished by relative peak area of the compound compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is equal to or greater than 10% of that of the nearest internal standard. Quantitation provided is an estimate.

Reviewed by: EAW

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTBB190-MW15
Client Project ID: NV016
Lab Sample ID: G650-106-6H
Lab Project ID: G650-106

Analyzed By: EAW
Date Collected: 2/5/2007 10:43
Date Received: 2/6/2007
Date Extracted: 2/7/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	2/9/2007	
Acenaphthylene	BQL	10.0	1.12	1	2/9/2007	
Anthracene	BQL	10.0	1.75	1	2/9/2007	
Benzo[a]anthracene	BQL	10.0	1.36	1	2/9/2007	
Benzo[a]pyrene	BQL	10.0	1.27	1	2/9/2007	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	2/9/2007	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	2/9/2007	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	2/9/2007	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	2/9/2007	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	2/9/2007	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	2/9/2007	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	2/9/2007	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	2/9/2007	
Butylbenzylphthalate	BQL	10.0	1.53	1	2/9/2007	
2-Chloronaphthalene	BQL	10.0	1.25	1	2/9/2007	
2-Chlorophenol	BQL	10.0	4.22	1	2/9/2007	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	2/9/2007	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	2/9/2007	
Chrysene	BQL	10.0	1.11	1	2/9/2007	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	2/9/2007	
Di-n-Butylphthalate	BQL	10.0	1.65	1	2/9/2007	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	2/9/2007	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	2/9/2007	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	2/9/2007	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	2/9/2007	
2,4-Dichlorophenol	BQL	10.0	3.75	1	2/9/2007	
Diethylphthalate	BQL	10.0	1.48	1	2/9/2007	
Dimethylphthalate	BQL	10.0	1.04	1	2/9/2007	
2,4-Dimethylphenol	BQL	10.0	9.25	1	2/9/2007	
Di-n-octylphthalate	BQL	10.0	1.16	1	2/9/2007	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	2/9/2007	
2,4-Dinitrophenol	BQL	50.0	4.20	1	2/9/2007	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	2/9/2007	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	2/9/2007	
Diphenylamine *	BQL	10.0	1.53	1	2/9/2007	
Fluoranthene	BQL	10.0	1.41	1	2/9/2007	
Fluorene	BQL	10.0	1.22	1	2/9/2007	
Hexachlorobenzene	BQL	10.0	1.22	1	2/9/2007	
Hexachlorobutadiene	BQL	10.0	1.58	1	2/9/2007	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	2/9/2007	
Hexachloroethane	BQL	10.0	1.58	1	2/9/2007	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	2/9/2007	
Isophorone	BQL	10.0	1.27	1	2/9/2007	
Naphthalene	BQL	10.0	1.08	1	2/9/2007	
Nitrobenzene	BQL	10.0	1.32	1	2/9/2007	
2-Nitrophenol	BQL	10.0	3.52	1	2/9/2007	

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTBB190-MW15
Client Project ID: NV016
Lab Sample ID: G650-106-6H
Lab Project ID: G650-106

Analyzed By: EAW
Date Collected: 2/5/2007 10:43
Date Received: 2/6/2007
Date Extracted: 2/7/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
4-Nitrophenol	BQL	50.0	3.17	1	2/9/2007	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	2/9/2007	
Pentachlorophenol	BQL	50.0	2.83	1	2/9/2007	
Phenanthrene	BQL	10.0	1.38	1	2/9/2007	
Phenol	BQL	10.0	3.38	1	2/9/2007	
Pyrene	BQL	10.0	2.08	1	2/9/2007	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	2/9/2007	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	2/9/2007	

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	8.2	82
2-Fluorophenol	10	8.2	82
Nitrobenzene-d5	10	8.5	85
Phenol-d6	10	8.4	84
2,4,6-Tribromophenol	10	9.1	91
4-Terphenyl-d14	10	12.5	125

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By: ESW

**Results of Library Search for Semivolatile Compounds**
by GCMS

Client Sample ID: USTBB190-MW15
Client Project ID: NV016
Lab Sample ID: G650-106-6H
Lab Project ID: G650-106
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: EAW
Date Collected: 2/5/2007 10:43
Date Received: 2/6/2007
Date Extracted: 2/7/2007
Date Analyzed: 2/9/2007
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Unknown	12.25			10.5
2					
3					
4					
5					
6					
7					
8					
9					
10					

Comment:

Tentatively Identified Compound (TIC) refers to substances which are not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist.

Quantitation is accomplished by relative peak area of the compound compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is equal to or greater than 10% of that of the nearest internal standard. Quantitation provided is an estimate.

Reviewed by: EAW

Results for Semivolatiles
by GCMS 625Client Sample ID: USTBB190-MW16
Client Project ID: NV016
Lab Sample ID: G650-106-7H
Lab Project ID: G650-106Analyzed By: EAW
Date Collected: 2/5/2007 15:20
Date Received: 2/6/2007
Date Extracted: 2/7/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	2.40	10.0	1.22	1	2/9/2007	J
Acenaphthylene	BQL	10.0	1.12	1	2/9/2007	
Anthracene	BQL	10.0	1.75	1	2/9/2007	
Benzo[a]anthracene	BQL	10.0	1.36	1	2/9/2007	
Benzo[a]pyrene	BQL	10.0	1.27	1	2/9/2007	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	2/9/2007	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	2/9/2007	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	2/9/2007	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	2/9/2007	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	2/9/2007	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	2/9/2007	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	2/9/2007	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	2/9/2007	
Butylbenzylphthalate	BQL	10.0	1.53	1	2/9/2007	
2-Chloronaphthalene	BQL	10.0	1.25	1	2/9/2007	
2-Chlorophenol	BQL	10.0	4.22	1	2/9/2007	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	2/9/2007	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	2/9/2007	
Chrysene	BQL	10.0	1.11	1	2/9/2007	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	2/9/2007	
Di-n-Butylphthalate	BQL	10.0	1.65	1	2/9/2007	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	2/9/2007	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	2/9/2007	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	2/9/2007	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	2/9/2007	
2,4-Dichlorophenol	BQL	10.0	3.75	1	2/9/2007	
Diethylphthalate	BQL	10.0	1.48	1	2/9/2007	
Dimethylphthalate	BQL	10.0	1.04	1	2/9/2007	
2,4-Dimethylphenol	BQL	10.0	9.25	1	2/9/2007	
Di-n-octylphthalate	BQL	10.0	1.16	1	2/9/2007	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	2/9/2007	
2,4-Dinitrophenol	BQL	50.0	4.20	1	2/9/2007	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	2/9/2007	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	2/9/2007	
Diphenylamine *	BQL	10.0	1.53	1	2/9/2007	
Fluoranthene	BQL	10.0	1.41	1	2/9/2007	
Fluorene	1.80	10.0	1.22	1	2/9/2007	J
Hexachlorobenzene	BQL	10.0	1.22	1	2/9/2007	
Hexachlorobutadiene	BQL	10.0	1.58	1	2/9/2007	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	2/9/2007	
Hexachloroethane	BQL	10.0	1.58	1	2/9/2007	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	2/9/2007	
Isophorone	BQL	10.0	1.27	1	2/9/2007	
Naphthalene	68.3	10.0	1.08	1	2/9/2007	
Nitrobenzene	BQL	10.0	1.32	1	2/9/2007	
2-Nitrophenol	BQL	10.0	3.52	1	2/9/2007	

Results for Semivolatiles
by GCMS 625

Client Sample ID: USTBB190-MW16
Client Project ID: NV016
Lab Sample ID: G650-106-7H
Lab Project ID: G650-106

Analyzed By: EAW
Date Collected: 2/5/2007 15:20
Date Received: 2/6/2007
Date Extracted: 2/7/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
4-Nitrophenol	BQL	50.0	3.17	1	2/9/2007	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	2/9/2007	
Pentachlorophenol	BQL	50.0	2.83	1	2/9/2007	
Phenanthrene	1.40	10.0	1.38	1	2/9/2007	J
Phenol	BQL	10.0	3.38	1	2/9/2007	
Pyrene	BQL	10.0	2.08	1	2/9/2007	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	2/9/2007	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	2/9/2007	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	8	80		
2-Fluorophenol		10	7.7	77		
Nitrobenzene-d5		10	8.1	81		
Phenol-d6		10	8	80		
2,4,6-Tribromophenol		10	9.8	98		
4-Terphenyl-d14		10	12.1	121		

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By: EL

**Results of Library Search for Semivolatile Compounds**
by GCMS

Client Sample ID: USTBB190-MW16
Client Project ID: NV016
Lab Sample ID: G650-106-7H
Lab Project ID: G650-106
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: EAW
Date Collected: 2/5/2007 15:20
Date Received: 2/6/2007
Date Extracted: 2/7/2007
Date Analyzed: 2/9/2007
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Ethylbenzene	5.07	000100-41-4	94	85.5
2	Indane	7.26	000496-11-7	90	76.3
3	1,2,4-Trimethylbenzene	7.09	000095-36-3	97	64.2
4	Benzene, 2-ethenyl-1,4-dimethyl-	8.53	002039-89-6	96	31.3
5	Benzene, propyl-	6.26	000103-65-1	91	29.8
6	Benzene, 1,2-diethyl-	7.38	000135-01-3	92	16
7	Benzene, 1-ethyl-3-methyl-	6.57	000620-14-4	91	14
8	Unknown	12.25			13.6
9	1H-Indene, 2,3-dihydro-5-methyl-	8.43	000874-35-1	94	13.6
10	Benzene, (1-methylethyl)-	5.89	000098-82-8	94	11.4

Comment:

Tentatively Identified Compound (TIC) refers to substances which are not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist.

Quantitation is accomplished by relative peak area of the compound compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is equal to or greater than 10% of that of the nearest internal standard. Quantitation provided is an estimate.

Reviewed by: *ES*

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTBB190-MW17
Client Project ID: NV016
Lab Sample ID: G650-106-8H
Lab Project ID: G650-106

Analyzed By: EAW
Date Collected: 2/5/2007 10:00
Date Received: 2/6/2007
Date Extracted: 2/7/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	2/9/2007	
Acenaphthylene	BQL	10.0	1.12	1	2/9/2007	
Anthracene	BQL	10.0	1.75	1	2/9/2007	
Benzo[a]anthracene	BQL	10.0	1.36	1	2/9/2007	
Benzo[a]pyrene	BQL	10.0	1.27	1	2/9/2007	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	2/9/2007	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	2/9/2007	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	2/9/2007	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	2/9/2007	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	2/9/2007	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	2/9/2007	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	2/9/2007	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	2/9/2007	
Butylbenzylphthalate	BQL	10.0	1.53	1	2/9/2007	
2-Chloronaphthalene	BQL	10.0	1.25	1	2/9/2007	
2-Chlorophenol	BQL	10.0	4.22	1	2/9/2007	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	2/9/2007	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	2/9/2007	
Chrysene	BQL	10.0	1.11	1	2/9/2007	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	2/9/2007	
Di-n-Butylphthalate	BQL	10.0	1.65	1	2/9/2007	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	2/9/2007	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	2/9/2007	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	2/9/2007	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	2/9/2007	
2,4-Dichlorophenol	BQL	10.0	3.75	1	2/9/2007	
Diethylphthalate	BQL	10.0	1.48	1	2/9/2007	
Dimethylphthalate	BQL	10.0	1.04	1	2/9/2007	
2,4-Dimethylphenol	BQL	10.0	9.25	1	2/9/2007	
Di-n-octylphthalate	BQL	10.0	1.16	1	2/9/2007	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	2/9/2007	
2,4-Dinitrophenol	BQL	50.0	4.20	1	2/9/2007	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	2/9/2007	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	2/9/2007	
Diphenylamine *	BQL	10.0	1.53	1	2/9/2007	
Fluoranthene	BQL	10.0	1.41	1	2/9/2007	
Fluorene	BQL	10.0	1.22	1	2/9/2007	
Hexachlorobenzene	BQL	10.0	1.22	1	2/9/2007	
Hexachlorobutadiene	BQL	10.0	1.58	1	2/9/2007	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	2/9/2007	
Hexachloroethane	BQL	10.0	1.58	1	2/9/2007	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	2/9/2007	
Isophorone	BQL	10.0	1.27	1	2/9/2007	
Naphthalene	1.10	10.0	1.08	1	2/9/2007	J
Nitrobenzene	BQL	10.0	1.32	1	2/9/2007	
2-Nitrophenol	BQL	10.0	3.52	1	2/9/2007	

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTBB190-MW17
Client Project ID: NV016
Lab Sample ID: G650-106-8H
Lab Project ID: G650-106

Analyzed By: EAW
Date Collected: 2/5/2007 10:00
Date Received: 2/6/2007
Date Extracted: 2/7/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
4-Nitrophenol	BQL	50.0	3.17	1	2/9/2007	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	2/9/2007	
Pentachlorophenol	BQL	50.0	2.83	1	2/9/2007	
Phenanthrene	BQL	10.0	1.38	1	2/9/2007	
Phenol	BQL	10.0	3.38	1	2/9/2007	
Pyrene	BQL	10.0	2.08	1	2/9/2007	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	2/9/2007	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	2/9/2007	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	8.1	81		
2-Fluorophenol		10	7.3	73		
Nitrobenzene-d5		10	8.2	82		
Phenol-d6		10	7.9	79		
2,4,6-Tribromophenol		10	8.4	84		
4-Terphenyl-d14		10	12.3	123		

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By:

**Results of Library Search for Semivolatile Compounds**
by GCMS

Client Sample ID: USTBB190-MW17

Client Project ID: NV016

Lab Sample ID: G650-106-8H

Lab Project ID: G650-106

Sample Wt/Vol: 500 ML

Dilution: 1

Analyzed By: EAW

Date Collected: 2/5/2007 10:00

Date Received: 2/6/2007

Date Extracted: 2/7/2007

Date Analyzed: 2/9/2007

Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Unknown	12.25			10.3
2					
3					
4					
5					
6					
7					
8					
9					
10					

Comment:

Tentatively Identified Compound (TIC) refers to substances which are not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist.

Quantitation is accomplished by relative peak area of the compound compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is equal to or greater than 10% of that of the nearest internal standard. Quantitation provided is an estimate.

Reviewed by:

Results for Semivolatiles
by GCMS 625Client Sample ID: USTBB190-Duplicate
Client Project ID: NV016
Lab Sample ID: G650-106-9H
Lab Project ID: G650-106Analyzed By: EAW
Date Collected: 2/5/2007 0:00
Date Received: 2/6/2007
Date Extracted: 2/7/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	2.50	10.0	1.22	1	2/9/2007	J
Acenaphthylene	BQL	10.0	1.12	1	2/9/2007	
Anthracene	BQL	10.0	1.75	1	2/9/2007	
Benzo[a]anthracene	BQL	10.0	1.36	1	2/9/2007	
Benzo[a]pyrene	BQL	10.0	1.27	1	2/9/2007	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	2/9/2007	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	2/9/2007	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	2/9/2007	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	2/9/2007	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	2/9/2007	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	2/9/2007	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	2/9/2007	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	2/9/2007	
Butylbenzylphthalate	BQL	10.0	1.53	1	2/9/2007	
2-Chloronaphthalene	BQL	10.0	1.25	1	2/9/2007	
2-Chlorophenol	BQL	10.0	4.22	1	2/9/2007	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	2/9/2007	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	2/9/2007	
Chrysene	BQL	10.0	1.11	1	2/9/2007	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	2/9/2007	
Di-n-Butylphthalate	BQL	10.0	1.65	1	2/9/2007	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	2/9/2007	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	2/9/2007	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	2/9/2007	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	2/9/2007	
2,4-Dichlorophenol	BQL	10.0	3.75	1	2/9/2007	
Diethylphthalate	BQL	10.0	1.48	1	2/9/2007	
Dimethylphthalate	BQL	10.0	1.04	1	2/9/2007	
2,4-Dimethylphenol	BQL	10.0	9.25	1	2/9/2007	
Di-n-octylphthalate	BQL	10.0	1.16	1	2/9/2007	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	2/9/2007	
2,4-Dinitrophenol	BQL	50.0	4.20	1	2/9/2007	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	2/9/2007	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	2/9/2007	
Diphenylamine *	BQL	10.0	1.53	1	2/9/2007	
Fluoranthene	BQL	10.0	1.41	1	2/9/2007	
Fluorene	2.00	10.0	1.22	1	2/9/2007	J
Hexachlorobenzene	BQL	10.0	1.22	1	2/9/2007	
Hexachlorobutadiene	BQL	10.0	1.58	1	2/9/2007	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	2/9/2007	
Hexachloroethane	BQL	10.0	1.58	1	2/9/2007	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	2/9/2007	
Isophorone	BQL	10.0	1.27	1	2/9/2007	
Naphthalene	71.4	10.0	1.08	1	2/9/2007	
Nitrobenzene	BQL	10.0	1.32	1	2/9/2007	
2-Nitrophenol	BQL	10.0	3.52	1	2/9/2007	

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTBB190-Duplicate
Client Project ID: NV016
Lab Sample ID: G650-106-9H
Lab Project ID: G650-106

Analyzed By: EAW
Date Collected: 2/5/2007 0:00
Date Received: 2/6/2007
Date Extracted: 2/7/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
4-Nitrophenol	BQL	50.0	3.17	1	2/9/2007	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	2/9/2007	
Pentachlorophenol	BQL	50.0	2.83	1	2/9/2007	
Phenanthrene	1.40	10.0	1.38	1	2/9/2007	J
Phenol	BQL	10.0	3.38	1	2/9/2007	
Pyrene	BQL	10.0	2.08	1	2/9/2007	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	2/9/2007	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	2/9/2007	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	8.2	82		
2-Fluorophenol		10	7.9	79		
Nitrobenzene-d5		10	8.4	84		
Phenol-d6		10	8.2	82		
2,4,6-Tribromophenol		10	9.4	94		
4-Terphenyl-d14		10	12.4	124		

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By: EW

**Results of Library Search for Semivolatile Compounds**
by GCMS

Client Sample ID: USTBB190-Duplicate
Client Project ID: NV016
Lab Sample ID: G650-106-9H
Lab Project ID: G650-106
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: EAW
Date Collected: 2/5/2007 0:00
Date Received: 2/6/2007
Date Extracted: 2/7/2007
Date Analyzed: 2/9/2007
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Ethylbenzene	5.08	000100-41-4	94	82.5
2	Indane	7.26	000496-11-7	93	78.7
3	1,2,4-Trimethylbenzene	7.09	000095-36-3	97	65.9
4	2,3-Dihydro-1-methylindene	8.53	027133-93-3	97	33.8
5	Benzene, propyl-	6.26	000103-65-1	91	30
6	Benzene, 1,2-diethyl-	7.38	000135-01-3	92	16.5
7	Unknown	12.25			15.4
8	Benzene, 2-ethenyl-1,4-dimethyl-	8.43	002039-89-6	96	14.6
9	Benzene, 1-ethyl-2-methyl-	6.57	000611-14-3	94	14.4
10	Benzene, (1-methylethyl)-	5.89	000098-82-8	94	11.8

Comment:

Tentatively Identified Compound (TIC) refers to substances which are not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist.

Quantitation is accomplished by relative peak area of the compound compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is equal to or greater than 10% of that of the nearest internal standard. Quantitation provided is an estimate.

Reviewed by: REL

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: PSWBB47
Client Project ID: NV016
Lab Sample ID: G650-106-10H
Lab Project ID: G650-106

Analyzed By: EAW
Date Collected: 2/5/2007 16:40
Date Received: 2/6/2007
Date Extracted: 2/7/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	2/9/2007	
Acenaphthylene	BQL	10.0	1.12	1	2/9/2007	
Anthracene	BQL	10.0	1.75	1	2/9/2007	
Benzo[a]anthracene	BQL	10.0	1.36	1	2/9/2007	
Benzo[a]pyrene	BQL	10.0	1.27	1	2/9/2007	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	2/9/2007	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	2/9/2007	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	2/9/2007	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	2/9/2007	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	2/9/2007	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	2/9/2007	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	2/9/2007	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	2/9/2007	
Butylbenzylphthalate	BQL	10.0	1.53	1	2/9/2007	
2-Chloronaphthalene	BQL	10.0	1.25	1	2/9/2007	
2-Chlorophenol	BQL	10.0	4.22	1	2/9/2007	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	2/9/2007	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	2/9/2007	
Chrysene	BQL	10.0	1.11	1	2/9/2007	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	2/9/2007	
Di-n-Butylphthalate	BQL	10.0	1.65	1	2/9/2007	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	2/9/2007	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	2/9/2007	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	2/9/2007	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	2/9/2007	
2,4-Dichlorophenol	BQL	10.0	3.75	1	2/9/2007	
Diethylphthalate	BQL	10.0	1.48	1	2/9/2007	
Dimethylphthalate	BQL	10.0	1.04	1	2/9/2007	
2,4-Dimethylphenol	BQL	10.0	9.25	1	2/9/2007	
Di-n-octylphthalate	BQL	10.0	1.16	1	2/9/2007	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	2/9/2007	
2,4-Dinitrophenol	BQL	50.0	4.20	1	2/9/2007	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	2/9/2007	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	2/9/2007	
Diphenylamine *	BQL	10.0	1.53	1	2/9/2007	
Fluoranthene	BQL	10.0	1.41	1	2/9/2007	
Fluorene	BQL	10.0	1.22	1	2/9/2007	
Hexachlorobenzene	BQL	10.0	1.22	1	2/9/2007	
Hexachlorobutadiene	BQL	10.0	1.58	1	2/9/2007	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	2/9/2007	
Hexachloroethane	BQL	10.0	1.58	1	2/9/2007	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	2/9/2007	
Isophorone	BQL	10.0	1.27	1	2/9/2007	
Naphthalene	BQL	10.0	1.08	1	2/9/2007	
Nitrobenzene	BQL	10.0	1.32	1	2/9/2007	
2-Nitrophenol	BQL	10.0	3.52	1	2/9/2007	

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: PSWBB47
Client Project ID: NV016
Lab Sample ID: G650-106-10H
Lab Project ID: G650-106

Analyzed By: EAW
Date Collected: 2/5/2007 16:40
Date Received: 2/6/2007
Date Extracted: 2/7/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
4-Nitrophenol	BQL	50.0	3.17	1	2/9/2007	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	2/9/2007	
Pentachlorophenol	BQL	50.0	2.83	1	2/9/2007	
Phenanthrene	BQL	10.0	1.38	1	2/9/2007	
Phenol	BQL	10.0	3.38	1	2/9/2007	
Pyrene	BQL	10.0	2.08	1	2/9/2007	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	2/9/2007	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	2/9/2007	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	8.4	84		
2-Fluorophenol		10	8.3	83		
Nitrobenzene-d5		10	8.8	88		
Phenol-d6		10	8.4	84		
2,4,6-Tribromophenol		10	9.4	94		
4-Terphenyl-d14		10	12.4	124		

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By:

**Results of Library Search for Semivolatile Compounds**
by GCMS

Client Sample ID: PSWBB47
Client Project ID: NV016
Lab Sample ID: G650-106-10H
Lab Project ID: G650-106
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: EAW
Date Collected: 2/5/2007 16:40
Date Received: 2/6/2007
Date Extracted: 2/7/2007
Date Analyzed: 2/9/2007
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Unknown	6.17			13
2	Unknown	12.25			11.1
3					
4					
5					
6					
7					
8					
9					
10					

Comment:

Tentatively Identified Compound (TIC) refers to substances which are not present in the list of target compounds. Therefore, not all TICs are identified and quantitated using individual standards. TIC listings are prepared utilizing a computerized library search of electron impact mass spectral data and evaluation of the relevant data by a mass spectral data specialist.

Quantitation is accomplished by relative peak area of the compound compared to that of the nearest internal standard from the total ion chromatogram. TICs are identified and quantitated only if the peak area is equal to or greater than 10% of that of the nearest internal standard. Quantitation provided is an estimate.

Reviewed by: Red

Results for Semivolatiles
by GCMS 625Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID: PB7284
Lab Project ID:Analyzed By: EAW
Date Collected:
Date Received:
Date Extracted: 2/7/2007
Matrix: WATER

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	2/9/2007	
Acenaphthylene	BQL	10.0	1.12	1	2/9/2007	
Anthracene	BQL	10.0	1.75	1	2/9/2007	
Benzo[a]anthracene	BQL	10.0	1.36	1	2/9/2007	
Benzo[a]pyrene	BQL	10.0	1.27	1	2/9/2007	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	2/9/2007	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	2/9/2007	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	2/9/2007	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	2/9/2007	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	2/9/2007	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	2/9/2007	
Bis(2-ethylhexyl)phthalate	1.50	10.0	1.33	1	2/9/2007	J
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	2/9/2007	
Butylbenzylphthalate	BQL	10.0	1.53	1	2/9/2007	
2-Chloronaphthalene	BQL	10.0	1.25	1	2/9/2007	
2-Chlorophenol	BQL	10.0	4.22	1	2/9/2007	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	2/9/2007	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	2/9/2007	
Chrysene	BQL	10.0	1.11	1	2/9/2007	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	2/9/2007	
Di-n-Butylphthalate	BQL	10.0	1.65	1	2/9/2007	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	2/9/2007	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	2/9/2007	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	2/9/2007	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	2/9/2007	
2,4-Dichlorophenol	BQL	10.0	3.75	1	2/9/2007	
Diethylphthalate	BQL	10.0	1.48	1	2/9/2007	
Dimethylphthalate	BQL	10.0	1.04	1	2/9/2007	
2,4-Dimethylphenol	BQL	10.0	9.25	1	2/9/2007	
Di-n-octylphthalate	BQL	10.0	1.16	1	2/9/2007	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	2/9/2007	
2,4-Dinitrophenol	BQL	50.0	4.20	1	2/9/2007	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	2/9/2007	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	2/9/2007	
Diphenylamine *	BQL	10.0	1.53	1	2/9/2007	
Fluoranthene	BQL	10.0	1.41	1	2/9/2007	
Fluorene	BQL	10.0	1.22	1	2/9/2007	
Hexachlorobenzene	BQL	10.0	1.22	1	2/9/2007	
Hexachlorobutadiene	BQL	10.0	1.58	1	2/9/2007	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	2/9/2007	
Hexachloroethane	BQL	10.0	1.58	1	2/9/2007	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	2/9/2007	
Isophorone	BQL	10.0	1.27	1	2/9/2007	
Naphthalene	BQL	10.0	1.08	1	2/9/2007	
Nitrobenzene	BQL	10.0	1.32	1	2/9/2007	
2-Nitrophenol	BQL	10.0	3.52	1	2/9/2007	

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID: PB7284
Lab Project ID:

Analyzed By: EAW
Date Collected:
Date Received:
Date Extracted: 2/7/2007
Matrix: WATER

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
4-Nitrophenol	BQL	50.0	3.17	1	2/9/2007	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	2/9/2007	
Pentachlorophenol	BQL	50.0	2.83	1	2/9/2007	
Phenanthrene	BQL	10.0	1.38	1	2/9/2007	
Phenol	BQL	10.0	3.38	1	2/9/2007	
Pyrene	BQL	10.0	2.08	1	2/9/2007	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	2/9/2007	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	2/9/2007	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	8.6	86		
2-Fluorophenol		10	8	80		
Nitrobenzene-d5		10	8.8	88		
Phenol-d6		10	8.7	87		
2,4,6-Tribromophenol		10	10	100		
4-Terphenyl-d14		10	12.3	123		

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.

Flags:

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By: EW

**Results For Matrix Spike / Matrix Spike Duplicate and Laboratory Control Standard (MS/MSD/LCS)**
by GCMS

Client Sample ID: Batch QC

Client Project ID:

Lab Sample ID: Batch-7284-MS/MSD/LCS

Lab Project ID: G122-2907-5

Matrix: WATER

Prep Method: 3520

Date Collected:

Date Received:

Date Extracted: 02/07/07

Date Analyzed: 02/09/07

Analyzed By: EAW

Dilution: 1

	Sample Amount (µg/L)	MS Spike (µg/L)	MS Conc. (µg/L)	MS Spike % Rec.	MSD Spike (µg/L)	MSD Conc. (µg/L)	MSD Conc. % Rec.	RPD	QC Limits	
									RPD	% Rec.
Acenaphthylene	BQL	333	331	99.2	333	339	102.0	2.59	30	62.0-119
4-Chloro-3-methylphenol	BQL	333	295	88.6	333	314	94.3	6.23	30	67.0-109
2-Chlorophenol	BQL	333	279	83.7	333	287	86.0	2.71	30	59.0-95.0
1,4-Dichlorobenzene	BQL	333	231	69.4	333	233	70.0	0.861	30	29.0-86.0
2,4-Dinitrotoluene	BQL	333	342	103	333	354	106*	3.35	30	63.0-103
N-Nitrosodi-n-propylamine	BQL	333	331	99.4	333	350	105.0	5.48	30	67.0-107
4-Nitrophenol	BQL	333	325	97.4	333	355	106.0	8.93	30	49.0-146
Pentachlorophenol	BQL	333	282	84.5	333	311	93.2	9.79	30	43.0-106
Phenol	BQL	333	253	76.0	333	260	77.9	2.47	30	61.0-100
Pyrene	BQL	333	355	107	333	397	119.0	11.2	30	41.0-123
1,2,4-Trichlorobenzene	BQL	333	285	85.4	333	284	85.2	0.234	30	41.0-96.0

	Spiked Amount (µg/L)	LCS Conc. (µg/L)	LCS Spike %	QC Limits % Rec.
Acenaphthylene	100	106	106	72.9-127
4-Chloro-3-methylphenol	100	92.3	92.3	61.6-113
2-Chlorophenol	100	83.8	83.8	52.3-104
1,4-Dichlorobenzene	100	73.4	73.4	27.3-85.0
2,4-Dinitrotoluene	100	110	110	66.5-117
N-Nitrosodi-n-propylamine	100	102	102	54.4-119
4-Nitrophenol	100	104	104	32.4-150
Pentachlorophenol	100	87.3	87.3	23.9-115
Phenol	100	76.6	76.6	54.5-106
Pyrene	100	122	122	63.5-126
1,2,4-Trichlorobenzene	100	89.4	89.4	49.1-98.5

Comments:

Concentrations reflect the spiked sample amounts.

Flags:

* = Out of limits.

NA = Not applicable.

Reviewed By: EAW

**VPH (Aliphatics/Aromatics) Laboratory Reporting Form**Client Name: Sovereign ConsultingProject Name: NV016

Sample Information and Analytical Results	
Sample Identification	USTBB190-MW02
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	02/05/07
Date Received	02/06/07
Date Extracted	02/08/07
Date Analyzed	02/08/07
Dry Weight	
Dilution Factor	1
C ₅ -C ₈ Aliphatics**	< 100 (µg/L)
C ₉ -C ₁₂ Aliphatics**	< 100 (µg/L)
C ₉ -C ₁₀ Aromatics**	< 100 (µg/L)
Surrogate % Recovery - PID	120
Surrogate % Recovery - FID	110

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards.

Lab Info: g650-106-1f

Reviewed By: Paul

**VPH (Aliphatics/Aromatics) Laboratory Reporting Form**Client Name: Sovereign ConsultingProject Name: NV016

Sample Information and Analytical Results	
Sample Identification	USTBB190-MW03
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	02/05/07
Date Received	02/06/07
Date Extracted	02/07/07
Date Analyzed	02/07/07
Dry Weight	
Dilution Factor	1
C ₅ -C ₈ Aliphatics**	< 100 (µg/L)
C ₉ -C ₁₂ Aliphatics**	< 100 (µg/L)
C ₉ -C ₁₀ Aromatics**	< 100 (µg/L)
Surrogate % Recovery - PID	120
Surrogate % Recovery - FID	110

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards.

Lab Info: g650-106-2g

Reviewed By:

**VPH (Aliphatics/Aromatics) Laboratory Reporting Form**Client Name: Sovereign ConsultingProject Name: NV016

Sample Information and Analytical Results	
Sample Identification	USTBB190-MW07
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	02/05/07
Date Received	02/06/07
Date Extracted	02/07/07
Date Analyzed	02/07/07
Dry Weight	
Dilution Factor	1
C ₅ -C ₈ Aliphatics**	640 (µg/L)
C ₉ -C ₁₂ Aliphatics**	1100 (µg/L)
C ₉ -C ₁₀ Aromatics**	1200 (µg/L)
Surrogate % Recovery - PID	120
Surrogate % Recovery - FID	1100***

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards.

***= High surrogate recovery due to matrix interference

Lab Info: g650-106-3g

Reviewed By:

**VPH (Aliphatics/Aromatics) Laboratory Reporting Form**Client Name: Sovereign ConsultingProject Name: NV016

Sample Information and Analytical Results	
Sample Identification	USTBB190-MW08
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	02/05/07
Date Received	02/06/07
Date Extracted	02/07/07
Date Analyzed	02/07/07
Dry Weight	
Dilution Factor	1
C ₅ -C ₈ Aliphatics**	< 100 (µg/L)
C ₉ -C ₁₂ Aliphatics**	< 100 (µg/L)
C ₉ -C ₁₀ Aromatics**	< 100 (µg/L)
Surrogate % Recovery - PID	120
Surrogate % Recovery - FID	110

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards.

Lab Info: g650-106-4g

Reviewed By: esl

**VPH (Aliphatics/Aromatics) Laboratory Reporting Form**Client Name: Sovereign ConsultingProject Name: NV016

Sample Information and Analytical Results	
Sample Identification	USTBB190-MW12
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	02/05/07
Date Received	02/06/07
Date Extracted	02/07/07
Date Analyzed	02/07/07
Dry Weight	
Dilution Factor	1
C ₅ -C ₈ Aliphatics**	< 100 (µg/L)
C ₉ -C ₁₂ Aliphatics**	< 100 (µg/L)
C ₉ -C ₁₀ Aromatics**	< 100 (µg/L)
Surrogate % Recovery - PID	120
Surrogate % Recovery - FID	110

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards.

Lab Info: g650-106-5g

Reviewed By: RL

**VPH (Aliphatics/Aromatics) Laboratory Reporting Form**Client Name: Sovereign ConsultingProject Name: NV016

Sample Information and Analytical Results	
Sample Identification	USTBB190-MW15
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	02/05/07
Date Received	02/06/07
Date Extracted	02/07/07
Date Analyzed	02/07/07
Dry Weight	
Dilution Factor	1
C ₅ -C ₈ Aliphatics**	< 100 (µg/L)
C ₉ -C ₁₂ Aliphatics**	< 100 (µg/L)
C ₉ -C ₁₀ Aromatics**	< 100 (µg/L)
Surrogate % Recovery - PID	120
Surrogate % Recovery - FID	110

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards.

Lab Info: g650-106-6g

Reviewed By:

**VPH (Aliphatics/Aromatics) Laboratory Reporting Form**Client Name: Sovereign ConsultingProject Name: NV016

Sample Information and Analytical Results	
Sample Identification	USTBB190-MW16
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	02/05/07
Date Received	02/06/07
Date Extracted	02/07/07
Date Analyzed	02/07/07
Dry Weight	
Dilution Factor	1
C ₅ -C ₈ Aliphatics**	360 (µg/L)
C ₉ -C ₁₂ Aliphatics**	580 (µg/L)
C ₉ -C ₁₀ Aromatics**	230 (µg/L)
Surrogate % Recovery - PID	120
Surrogate % Recovery - FID	110

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards.

Lab Info: g650-106-7g

Reviewed By: Red

**VPH (Aliphatics/Aromatics) Laboratory Reporting Form**Client Name: Sovereign ConsultingProject Name: NV016

Sample Information and Analytical Results	
Sample Identification	USTBB190-MW17
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	02/05/07
Date Received	02/06/07
Date Extracted	02/07/07
Date Analyzed	02/07/07
Dry Weight	
Dilution Factor	1
C ₅ -C ₈ Aliphatics**	< 100 (µg/L)
C ₉ -C ₁₂ Aliphatics**	< 100 (µg/L)
C ₉ -C ₁₀ Aromatics**	< 100 (µg/L)
Surrogate % Recovery - PID	120
Surrogate % Recovery - FID	120

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards.

Lab Info: g650-106-8g

Reviewed By:

**VPH (Aliphatics/Aromatics) Laboratory Reporting Form**Client Name: Sovereign ConsultingProject Name: NV016

Sample Information and Analytical Results	
Sample Identification	USTBB190-Duplicate
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	02/05/07
Date Received	02/06/07
Date Extracted	02/07/07
Date Analyzed	02/07/07
Dry Weight	
Dilution Factor	1
C ₅ -C ₈ Aliphatics**	370 (µg/L)
C ₉ -C ₁₂ Aliphatics**	600 (µg/L)
C ₉ -C ₁₀ Aromatics**	240 (µg/L)
Surrogate % Recovery - PID	130
Surrogate % Recovery - FID	120

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards.

Lab Info: g650-106-9g

Reviewed By: RL

**VPH (Aliphatics/Aromatics) Laboratory Reporting Form**Client Name: Sovereign ConsultingProject Name: NV016

Sample Information and Analytical Results	
Sample Identification	PSWBB47
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	02/05/07
Date Received	02/06/07
Date Extracted	02/07/07
Date Analyzed	02/07/07
Dry Weight	
Dilution Factor	1
C ₅ -C ₈ Aliphatics**	< 100 (µg/L)
C ₉ -C ₁₂ Aliphatics**	< 100 (µg/L)
C ₉ -C ₁₀ Aromatics**	< 100 (µg/L)
Surrogate % Recovery - PID	120
Surrogate % Recovery - FID	120

* = Option 1 = Established fill line on vial, Option 2 = Sampling Device/Brand, or Option 3 = Field weight of soil.

** = Excludes any surrogates or internal standards.

Lab Info: g650-106-10g

Reviewed By:

Attachment 2

VPH Laboratory Reporting Form

Calibration and QA/QC Information

FID Initial Calibration Date: 01/03/07 PID Initial Calibration Date: 01/03/07

Calibration Ranges and Limits

Range	MDL (07/15/2004) (µg/L)	ML (µg/L)	RL (µg/L) (mg/Kg)
C ₅ -C ₈ Aliphatics	4.4	14	100 10
C ₉ -C ₁₂ Aliphatics	3.4	11	100 10
C ₉ -C ₁₀ Aromatics	0.13	0.41	100 10

Calibration Concentration Levels

Range	Levels (µg/L)	%RSD or CCC	Method of Quantitation
C ₅ -C ₈ Aliphatics	40	9.7	Calibration Factor
	1000		
	2000		
	3000		
	4000		
C ₉ -C ₁₂ Aliphatics	10	15.00	Calibration Factor
	250		
	500		
	750		
	1000		
C ₉ -C ₁₀ Aromatics	10	23.10	Calibration Factor
	250		
	500		
	750		
	1000		

Calibration Check Date: 02/07/07

Calibration Check

Range	Levels (mg/Kg) (µg/L)	RPD
C ₅ -C ₈ Aliphatics	2000 200	6.4
C ₉ -C ₁₂ Aliphatics	500 50	5.0
C ₉ -C ₁₀ Aromatics	500 50	7.4

MDL = Method Detection Limit

ML = Minimum Limit

RL = Reportable Limit

RPD = Relative Percent Difference

%RSD = Percent Relative Standard Deviation

CCC = Correlation Coefficient of Curve

Attachment 2

VPH Laboratory Reporting Form

Calibration and QA/QC Information

FID Initial Calibration Date:

01/03/07

PID Initial Calibration Date:

01/03/07

Calibration Ranges and Limits

Range	MDL (07/15/2004) (µg/L)	ML (µg/L)	RL (µg/L) (mg/Kg)	
C ₅ -C ₈ Aliphatics	4.4	14	100	10
C ₉ -C ₁₂ Aliphatics	3.4	11	100	10
C ₉ -C ₁₀ Aromatics	0.13	0.41	100	10

Calibration Concentration Levels

Range	Levels (µg/L)	%RSD or CCC	Method of Quantitation
C ₅ -C ₈ Aliphatics	40	9.7	Calibration Factor
	1000		
	2000		
	3000		
	4000		
C ₉ -C ₁₂ Aliphatics	10	15.00	Calibration Factor
	250		
	500		
	750		
	1000		
C ₉ -C ₁₀ Aromatics	10	23.10	Calibration Factor
	250		
	500		
	750		
	1000		

Calibration Check Date:

02/08/07

Calibration Check

Range	Levels (µg/L) (mg/Kg)		RPD
C ₅ -C ₈ Aliphatics	2000	200	8.9
C ₉ -C ₁₂ Aliphatics	500	50	8.5
C ₉ -C ₁₀ Aromatics	500	50	13.7

MDL = Method Detection Limit

ML = Minimum Limit

RL = Reportable Limit

RPD = Relative Percent Difference

%RSD = Percent Relative Standard Deviation

CCC = Correlation Coefficient of Curve

**EPH (Aliphatics/Aromatics) Results**

by MDEP-EPH

Client Name: Sovereign ConsultingProject Name: NV016

Sample Information and Analytical Results	
Sample Identification	USTBB190-MW02
Sample Matrix	Water
Date Collected	02/05/07
Date Received	02/06/07
Date Extracted	02/08/07
Date Analyzed	02/09/07
Dry Weight	
Dilution Factor	1
C ₉ -C ₁₈ Aliphatics*	< 100 (ug/L)
C ₁₉ -C ₃₆ Aliphatics*	< 100 (ug/L)
C ₁₁ -C ₂₂ Aromatics*	< 100 (ug/L)
Aliphatic Surrogate % Recovery	46
Aromatic Surrogate % Recovery	63

Comments:

* = Excludes any surrogates or internal standards.
Sample did not require fractionation.

Lab info: G650-106-11

Reviewed By: RL

**EPH (Aliphatics/Aromatics) Results**

by MDEP-EPH

Client Name: Sovereign ConsultingProject Name: NV016

Sample Information and Analytical Results	
Sample Identification	USTBB190-MW03
Sample Matrix	Water
Date Collected	02/05/07
Date Received	02/06/07
Date Extracted	02/08/07
Date Analyzed	02/09/07
Dry Weight	
Dilution Factor	1
C ₉ -C ₁₈ Aliphatics*	< 100 (ug/L)
C ₁₉ -C ₃₆ Aliphatics*	< 100 (ug/L)
C ₁₁ -C ₂₂ Aromatics*	< 100 (ug/L)
Aliphatic Surrogate % Recovery	79
Aromatic Surrogate % Recovery	77

Comments:

* = Excludes any surrogates or internal standards.

Sample did not require fractionation.

Lab info: G650-106-2I

Reviewed By: SW

**EPH (Aliphatics/Aromatics) Results**

by MDEP-EPH

Client Name: Sovereign ConsultingProject Name: NV016

Sample Information and Analytical Results	
Sample Identification	USTBB190-MW07
Sample Matrix	Water
Date Collected	02/05/07
Date Received	02/06/07
Date Extracted	02/08/07
Date Analyzed	02/09/07
Dry Weight	
Dilution Factor	1:1
C ₉ -C ₁₈ Aliphatics*	< 100 (ug/L)
C ₁₉ -C ₃₆ Aliphatics*	< 100 (ug/L)
C ₁₁ -C ₂₂ Aromatics*	120 (ug/L)
Aliphatic Surrogate % Recovery	79
Aromatic Surrogate % Recovery	71
Fractionation Surrogate 1 % Recovery	66

Comments:

* = Excludes any surrogates or internal standards.

Lab info: G650-106-3I

Reviewed By: esl

**EPH (Aliphatics/Aromatics) Results**

by MDEP-EPH

Client Name: Sovereign ConsultingProject Name: NV016

Sample Information and Analytical Results	
Sample Identification	USTBB190-MW08
Sample Matrix	Water
Date Collected	02/05/07
Date Received	02/06/07
Date Extracted	02/08/07
Date Analyzed	02/09/07
Dry Weight	
Dilution Factor	1
C ₉ -C ₁₈ Aliphatics*	< 100 (ug/L)
C ₁₉ -C ₃₆ Aliphatics*	< 100 (ug/L)
C ₁₁ -C ₂₂ Aromatics*	< 100 (ug/L)
Aliphatic Surrogate % Recovery	79
Aromatic Surrogate % Recovery	86

Comments:

- * = Excludes any surrogates or internal standards.
Sample did not require fractionation.

Lab info: G650-106-4I

Reviewed By: RL

**EPH (Aliphatics/Aromatics) Results**

by MDEP-EPH

Client Name: Sovereign ConsultingProject Name: NV016

Sample Information and Analytical Results	
Sample Identification	USTBB190-MW12
Sample Matrix	Water
Date Collected	02/05/07
Date Received	02/06/07
Date Extracted	02/08/07
Date Analyzed	02/09/07
Dry Weight	
Dilution Factor	1
C ₉ -C ₁₈ Aliphatics*	< 100 (ug/L)
C ₁₉ -C ₃₆ Aliphatics*	< 100 (ug/L)
C ₁₁ -C ₂₂ Aromatics*	< 100 (ug/L)
Aliphatic Surrogate % Recovery	79
Aromatic Surrogate % Recovery	77

Comments:

* = Excludes any surrogates or internal standards.
Sample did not require fractionation.

Lab info: G650-106-5I

Reviewed By: EW

**EPH (Aliphatics/Aromatics) Results**

by MDEP-EPH

Client Name: Sovereign ConsultingProject Name: NV016

Sample Information and Analytical Results	
Sample Identification	USTBB190-MW15
Sample Matrix	Water
Date Collected	02/05/07
Date Received	02/06/07
Date Extracted	02/08/07
Date Analyzed	02/09/07
Dry Weight	
Dilution Factor	1
C ₉ -C ₁₈ Aliphatics*	< 100 (ug/L)
C ₁₉ -C ₃₆ Aliphatics*	< 100 (ug/L)
C ₁₁ -C ₂₂ Aromatics*	< 100 (ug/L)
Aliphatic Surrogate % Recovery	85
Aromatic Surrogate % Recovery	79

Comments:

* = Excludes any surrogates or internal standards.
Sample did not require fractionation.

Lab info: G650-106-6I

Reviewed By:

**EPH (Aliphatics/Aromatics) Results**

by MDEP-EPH

Client Name: Sovereign ConsultingProject Name: NV016

Sample Information and Analytical Results	
Sample Identification	USTBB190-MW16
Sample Matrix	Water
Date Collected	02/05/07
Date Received	02/06/07
Date Extracted	02/08/07
Date Analyzed	02/10/07
Dry Weight	
Dilution Factor	1:1
C ₉ -C ₁₈ Aliphatics*	< 100 (ug/L)
C ₁₉ -C ₃₆ Aliphatics*	< 100 (ug/L)
C ₁₁ -C ₂₂ Aromatics*	< 100 (ug/L)
Aliphatic Surrogate % Recovery	76
Aromatic Surrogate % Recovery	68
Fractionation Surrogate 1 % Recovery	70

Comments:

* = Excludes any surrogates or internal standards.

Lab info: G650-106-71

Reviewed By: Raw

**EPH (Aliphatics/Aromatics) Results**

by MDEP-EPH

Client Name: Sovereign ConsultingProject Name: NV016

Sample Information and Analytical Results	
Sample Identification	USTBB190-MW17
Sample Matrix	Water
Date Collected	02/05/07
Date Received	02/06/07
Date Extracted	02/08/07
Date Analyzed	02/09/07
Dry Weight	
Dilution Factor	1
C ₉ -C ₁₈ Aliphatics*	< 100 (ug/L)
C ₁₉ -C ₃₆ Aliphatics*	< 100 (ug/L)
C ₁₁ -C ₂₂ Aromatics*	< 100 (ug/L)
Aliphatic Surrogate % Recovery	83
Aromatic Surrogate % Recovery	77

Comments:

* = Excludes any surrogates or internal standards.
Sample did not require fractionation.

Lab info: G650-106-8I

Reviewed By: RL

**EPH (Aliphatics/Aromatics) Results**

by MDEP-EPH

Client Name: Sovereign ConsultingProject Name: NV016

Sample Information and Analytical Results	
Sample Identification	USTBB190-Duplicate
Sample Matrix	Water
Date Collected	02/05/07
Date Received	02/06/07
Date Extracted	02/08/07
Date Analyzed	02/12/07
Dry Weight	
Dilution Factor	1:1
C ₉ -C ₁₈ Aliphatics*	< 100 (ug/L)
C ₁₉ -C ₃₆ Aliphatics*	< 100 (ug/L)
C ₁₁ -C ₂₂ Aromatics*	< 100 (ug/L)
Aliphatic Surrogate % Recovery	55
Aromatic Surrogate % Recovery	62
Fractionation Surrogate 1 % Recovery	68

Comments:

* = Excludes any surrogates or internal standards.

Lab info: G650-106-9I

Reviewed By:

**EPH (Aliphatics/Aromatics) Results**

by MDEP-EPH

Client Name: Sovereign ConsultingProject Name: NV016

Sample Information and Analytical Results	
Sample Identification	PSWBB47
Sample Matrix	Water
Date Collected	02/05/07
Date Received	02/06/07
Date Extracted	02/08/07
Date Analyzed	02/09/07
Dry Weight	
Dilution Factor	1
C ₉ -C ₁₈ Aliphatics*	< 100 (ug/L)
C ₁₉ -C ₃₆ Aliphatics*	< 100 (ug/L)
C ₁₁ -C ₂₂ Aromatics*	< 100 (ug/L)
Aliphatic Surrogate % Recovery	85
Aromatic Surrogate % Recovery	78

Comments:

* = Excludes any surrogates or internal standards.
Sample did not require fractionation.

Lab info: G650-106-10I

Reviewed By: Red



EPH Laboratory Reporting Form

Calibration and QA/QC Information

Initial Calibration Date: 12/14/06

Calibration Ranges and Limits

Range	MDL (2/2004) (µg/L)	ML (µg/L)	RL (µg/L)	RL (mg/Kg)
C ₉ -C ₁₈ Aliphatics	3.84	12.2	100	10
C ₁₉ -C ₃₆ Aliphatics	0.57	1.8	100	10
C ₁₁ -C ₂₂ Aromatics	4.54	14.4	100	10

Calibration Concentration Levels

Range	Levels (µg/mL)	%RSD or CCC	Method of Quantitation
C ₉ -C ₁₈ Aliphatics	6	1.00	Linear Regression
	30		
	60		
	120		
	240		
C ₁₉ -C ₃₆ Aliphatics	8	1.0	Linear Regression
	40		
	80		
	160		
	320		
C ₁₁ -C ₂₂ Aromatics	17	1	Linear Regression
	85		
	170		
	340		
	680		

Calibration Check Date: 02/09/07

Calibration Check

Range	Levels (µg/mL)	RPD
C ₉ -C ₁₈ Aliphatics	120	11.5
C ₁₉ -C ₃₆ Aliphatics	160	2.4
C ₁₁ -C ₂₂ Aromatics	340	-9.8

MDL = Method Detection Limit

ML = Minimum Limit

RL = Reportable Limit

RPD = Relative Percent Difference

%RSD = Percent Relative Standard Deviation

CCC = Correlation Coefficient of Curve



EPH Laboratory Reporting Form

Calibration and QA/QC Information

Initial Calibration Date: 12/14/06

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Calibration Concentration Levels

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C ₉ -C ₁₈ Aliphatics	6	1.00	Linear Regression
	30		
	60		
	120		
	240		
C ₁₉ -C ₃₆ Aliphatics	8	1.0	Linear Regression
	40		
	80		
	160		
	320		
C ₁₁ -C ₂₂ Aromatics	17	1	Linear Regression
	85		
	170		
	340		
	680		

Calibration Check Date: 02/12/07

Calibration Check

Range	Levels (µg/mL)	RPD
C ₉ -C ₁₈ Aliphatics	120	8.1
C ₁₉ -C ₃₆ Aliphatics	160	-12.9
C ₁₁ -C ₂₂ Aromatics	340	-21.5

MDL = Method Detection Limit
ML = Minimum Limit
RL = Reportable Limit

RPD = Relative Percent Difference
%RSD = Percent Relative Standard Deviation
CCC = Correlation Coefficient of Curve



List of Reporting Abbreviations and Data Qualifiers

B = Compound also detected in batch blank

BQL = Below Quantitation Limit (RL or MDL)

DF = Dilution Factor

Dup = Duplicate

D = Detected, but RPD is > 40% between results in dual column method.

E = Estimated concentration, exceeds calibration range.

J = Estimated concentration, below calibration range and above MDL

LCS(D) = Laboratory Control Spike (Duplicate)

MDL = Method Detection Limit

MS(D) = Matrix Spike (Duplicate)

PQL = Practical Quantitation Limit

RL = Reporting Limit

RPD = Relative Percent Difference

mg/kg = milligram per kilogram, ppm, parts per million

ug/kg = micrograms per kilogram, ppb, parts per billion

mg/L = milligram per liter, ppm, parts per million

ug/L = micrograms per liter, ppb, parts per billion

% Rec = Percent Recovery

% solids = Percent Solids

Special Notes:

1) Metals and mercury samples are digested with a hot block, see the standard operating procedure document for details.

2) Uncertainty for all reported data is less than or equal to 30 percent.



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• Louisiana • Maryland
• New Jersey • North Carolina
• West Virginia
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05689

1 CLIENT: <u>SOVEREIGN CONSULTING INC</u>						SGS Reference: <u>GL50-106</u>										PAGE <u>1</u> OF <u>2</u>																																																																												
CONTACT: <u>THOMAS EILBERMAN</u> PHONE NO.: <u>(910) 526 3941</u>						<table border="1"><tr><td rowspan="4">No CONTAINERS</td><td rowspan="4">SAMPLE TYPE</td><td rowspan="4">Preservatives Used</td><td rowspan="4">Analysis Required</td><td rowspan="4">C=COMP G=GRAB</td><td>HO1</td><td>HO1</td><td>HO1</td><td>None</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>														No CONTAINERS	SAMPLE TYPE	Preservatives Used	Analysis Required	C=COMP G=GRAB	HO1	HO1	HO1	None																																																																
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PROJECT: <u>NY016</u> SITE/PWSID#: <u>BB190</u>																																																																																												
REPORTS TO: <u>Chris Murray</u> FAX NO.: <u>(757)</u>																																																																																												
INVOICE TO: <u>Chris Murray</u> QUOTE # <u>405 OAK MEADOWS CRES</u> STE 1 <u>VIRGINIA BEACH VA 23462</u>																																																																																												
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	UST BB190-MW03	2/5/07	1130	W	7																																																																																							
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	UST BB190-MW12	2/5/07	1417	W	7																																																																																							
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Collected/Relinquished By: (1) <u>[Signature]</u>		Date <u>2/6/07</u>	Time <u>1130</u>	Received By: <u>[Signature]</u>		Shipping Carrier: <u>COWI</u>				Shipping Ticket No:				Samples Received Cold? (Circle) YES NO																																																																														
Relinquished By: (2)		Date <u>2/6/07</u>	Time <u>1130</u>	Received By: <u>[Signature]</u>		Special Deliverable Requirements: <u>EDD Format</u>				Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT																																																																																		
Relinquished By: (3)		Date	Time	Received By:		Requested Turnaround Time and Special Instructions: <u>Standard Turnaround</u> <u>Email results "EDD Format" to</u> <u>n.hall@sovecon.com / cmurray@sovecon.com</u>																																																																																						
Relinquished By: (4)		Date	Time	Received By:																																																																																								

2/3 CERTIFICATION #481

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CHAIN OF CUSTODY RECORD
SGS Environmental Services Inc.

Locations Nationwide

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- New Jersey
- West Virginia
- Hawaii
- Maryland
- North Carolina

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A-2. CERTIFICATION #481

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SGS ENVIRONNEMENTAL SERVICES, INC.

APPENDIX C

FIELD DATA

GROUNDWATER MONITORING WELL GAUGING DATA
MCB Camp LeJeune and New River MCAS

Date: 2/5/07
Site: BB190
Gauged By: TE

Well ID	DTB From TOC		Time of Gauging	DTW From TOC	Depth to LNAPL	LNAPL THICKNESS	COMMENTS
	Installed	Measured					
USTBB190-MW01		16.43					NEED TO CUT BACK - couldn't gauge
USTBB190-MW02		14.25	0855	3.65			
USTBB190-MW03		17.11	0854	7.00			
USTBB190-MW04		17.80	0903	5.50			
USTBB190-MW05		15.55	0826	5.92			
USTBB190-MW06		17.15	0810	4.46			
USTBB190-MW07		14.31	0853	4.17			
USTBB190-MW08		15.92	0902	6.18			
USTBB190-MW09		15.95	0814	5.25			
USTBB190-MW10		16.00	0812	4.70			
USTBB190-MW11		15.90	0808	7.55			
USTBB190-MW12		14.23	0900	3.68			
USTBB190-MW13		17.80	0904	13.20			
USTBB190-MW14		44.01	0809	8.10			
USTBB190-MW15		49.18	0852	9.25			
USTBB190-MW16		34.70	0815	4.95			
USTBB190-MW17		13.66	0850	4.55			

Project Number: NV016
Project Name: BB190
Date: 2/5/07
Weather: 40's

Protective Casing Diameter (inch):	N/A
Inner Casing Diameter (inch):	2"
Depth to Product from TOC (feet):	N/A
Initial Depth to Water from TOC (feet):	7.00
Product Thickness (feet):	N/A
Total Depth from TOC (feet):	17.11

[illegible]

Project Number: NVDIL
Project Name: BB190
Date: 2/6/07
Weather: 10's

Well ID: MW08
Sample ID: USTBB190-MW08
Well Condition: Good

Protective Casing Diameter (inch):	<u>N/A</u>
Inner Casing Diameter (inch):	<u>2" (0.163)</u>
Depth to Product from TOC (feet):	<u>N/A</u>
Initial Depth to Water from TOC (feet):	<u>6.18</u>
Product Thickness (feet):	<u>N/A</u>
Total Depth from TOC (feet):	<u>15.92</u>

Water Column (feet):	9.74
Casing Volume (gal):	1.58
Purge/Sample Method:	Low Flow Method
Start Purge Date/Time:	1530
Total Volume Purged (gal):	3
Sample Time/Date	1605
Sampler Name:	TE

[illegible]

[illegible]

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- * Dug 5 gal + sampled -
- * Syedim has a spigot on inside of Bldg.