

FINAL ANNUAL GROUNDWATER MONITORING REPORT 2007-2008

BUILDINGS M-232-236

NCDENR Incident Number: 9593

Marine Corps Base
Camp Lejeune, North Carolina

June 30, 2008

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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 Underground Storage Tank Section (Effective July 1, 2001) 2L GWQS NCAC T15A:02L Groundwater Quality Standards
AS	Air Sparge
AST	Aboveground Storage Tank
BDL	Below Detection Limit
BN	Base/Neutral (extractables)
BNA	Base/Neutral/Acid (extractables)
BQL	Below Quantitation Limit
BLS	Below Land Surface
BTEX	Benzene, Toluene, Ethylbenzene, Xylenes
CAP	Corrective Action Plan
CFR	Code of Federal Regulations
Cr	Chromium
CSA	Comprehensive Site Assessment
DIPE	Di-isopropyl Ether
DO	Dissolved Oxygen
DOD	Department of Defense
DPT	Direct Push Technology
DWQ	Division of Water Quality
DWM	Division of Waste Management
DTW	Depth to Water
EDB	Ethylene di-bromide
EMD	Environmental Management Division
EPA	Environmental Protection Agency
EPH	Extractable Petroleum Hydrocarbons
EQB	Environmental Quality Branch
Fe	Iron
FID	Flame Ionization Detector
FT	Feet
GCL	Gross Contaminant Level
GIS	Geographic Information System
GPS	Global Positioning System
Guidelines Vol. II	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
ND	Not Detected
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
USEPA	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

Buildings M-232 through 236 are located in the Camp Johnson area of Marine Corps Base (MCB) Camp Lejeune along Hayes Street. The buildings are currently utilized as bachelor housing quarters. An updated risk classification and land use form indicates the site is residential with intermediate risk, which is due to the presence of free product at the site.

Five heating oil underground storage tanks (UST; one UST located at each of the associated Buildings M-232 through 236) were excavated and removed from the site in May 1990. Upon excavation, soil samples exhibited petroleum hydrocarbon contamination above the State standards in effect at that time. A 1991 site assessment of the area indicated petroleum constituents were not present at significant concentrations in areas surrounding the former USTs, and no free product was observed in site monitoring wells.

Further site investigation was conducted in 1992. Free product was detected at the site; however, groundwater samples from the site did not show significant contamination. The investigation recommended the excavation of petroleum-impacted soils in the immediate vicinity of the former USTs, free product removal from the site, and groundwater quality monitoring on a biannual basis.

Site groundwater monitoring was conducted by various contractors from 1993 through 2006. Data showed the persistence of free product at the site; however, a downward trend was observed in groundwater contaminant levels. Sovereign could find no evidence that further soil investigation or assessment of the UST basins was conducted.

The 2006-2007 monitoring period was overseen by Sovereign Consulting Inc. (Sovereign). Monitoring events included quarterly gauging at the 22 site monitoring wells, with events conducted in August 2006, November 2006, January 2007, and April 2007. Semi-annual groundwater sampling was also conducted at the site in August 2006 and January 2007 and included monitoring wells MW05, MW07, MW18, MW21, and MW22.

Free product was observed at the site during each of the four gauging events. Only monitoring well MW19, located in the vicinity of the former UST associated with Building M-235, exhibited measurable free product. Product thicknesses in this well ranged from 0.12 feet to 0.45 feet. Product recovery via hand bailing was conducted after each event. In an effort to address the free product, MCB Camp Lejeune conducted a soil excavation event from April 30 – May 2, 2007 in the MW19 area. Confirmation soil samples from the MW19 soil excavation indicate that contaminants are present above the soil to groundwater (STGW) maximum soil contaminant concentrations (MSCCs), but below the residential and industrial/commercial MSCCs. The compound 4-isopropyltoluene was also detected in the soil samples, for which there are no established MSCCs.

Groundwater sampling results for the 2006-2007 monitoring period show there were no volatile organic compounds (VOCs) or semi-volatile organic compound (SVOC) detected in groundwater at the site above the North Carolina groundwater quality standards (NCGWQSs). Monitoring well MW18 exhibited diphenylamine at an estimated concentration of 1.70 µg/L. This compound does not have an established NCGWQS. Noncompliant C₉-C₂₂ Aromatics

concentrations were also detected during the monitoring period in monitoring wells MW18, MW21, and MW22.

During this monitoring period, June 2007 – May 2008, quarterly gauging of site monitoring wells was planned, and ten monitoring wells were sampled by Sovereign twice during this monitoring period during on a semiannual basis. Samples were analyzed for volatiles and semi-volatile compounds via EPA Methods 602 and 625 in accordance with the program scope of work, as well as volatile and extractable hydrocarbons using the MADEP methods. No measurable free product was identified during the monitoring period. No volatile compounds or semi-volatile compound were detected at the site above North Carolina Groundwater Quality Standards (NCGWQSs). Monitoring wells MW18, MW21 and MW22 contained C₉-C₂₂ Aromatics above their applicable NCGWQSs. All other detections were below 2L standards. Sovereign recommends continuing gauging and sampling of existing monitoring program wells on a semi-annual basis.

A hot spot soil removal action is recommended in the vicinity of the former UST basin of building M-233 where free product was measured in a temporary piezometer during an August 2007 soil investigation. After excavation a temporary well should be installed to monitor for the presence of free product.

1.0 TITLE PAGE

DATE OF REPORT: June 2008

Facility I.D.: M-232-236

UST Incident Number: 9593

Site Name: M-232-236

Site Location: Camp Johnson, Marine Corps Base Camp Lejeune, North Carolina

Nearest City/Town: Camp Lejeune

County: Onslow

Risk Classification: Low Risk

Land Use Classification: Residential

UST Owner: Commanding Officer- MCB Camp Lejeune

I&E/EMD/EOB

PSC Box 20004

Address: MCB Camp Lejeune, NC 28542-0004

Phone: (910) 451-5068

UST Operator: Same as above

Address: Same as above

Phone: Same as above

Property Owner: Same as above

Address: Same as above

Phone: Same as above

Property Occupant: Same as above

Address: Same as above

Phone: Same as above

Consultant/Contractor: Sovereign Consulting Inc.

Address: 405 Oakmeads Crescent, Suite 1
Virginia Beach, VA 23462

Phone: (757) 456-5093

Release Information

Date Discovered: May 1990

Latitude:

34° 43' 13" N

Longitude:

77° 24' 52" W

Estimated Quantity of Release: Unknown

Cause of Release: Unknown

Source of Release (Piping/UST): USTs and piping

Sizes and contents of UST system(s) from which the release occurred: The former system consisted of five heating oil USTs ranging in capacity from 530 gallons to 550 gallons and associated piping.

I, Kevin P. Wheeler, 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 groundwater gauging and sampling events at Buildings M-232 through M-236 aboard MCB Camp Lejeune, North Carolina. The data was collected during the 2007 - 2008 monitoring period. The project's scope of work entailed four gauging events for 22 site monitoring wells and two groundwater sampling events of ten site monitoring wells. The four gauging events were conducted to measure and record the depth to free product (if present) and depth to groundwater. The two sampling events were conducted to analyze the site groundwater for petroleum constituents using USEPA Methods 602 plus xylenes, 625 plus the 10 largest non target peaks, and the MADEP Methods VPH and EPH. A soil sampling investigation was also conducted in the fall of 2007 in order to investigate the basins of the former underground storage tanks. Data for Sovereign's 2007 - 2008 monitoring and sampling events are presented in this report.

3.0 SITE HISTORY

Buildings M-232 through M-236 are located along Hayes Street within Camp Johnson, which is aboard MCB Camp Lejeune in Onslow County, North Carolina. The buildings are currently used as bachelors' quarters for military personnel.

A shallow drainage ditch is present between the eastern wall of Buildings M-232 through M-236 and Hayes Street. The nearest mapped surface water bodies are the New River, located approximately 650 feet west of the site, and Northeast Creek, located approximately 850 feet southeast of the site. There are no potable water supply wells located within 1,500 feet of the site.

Five heating oil USTs (one UST located at each of the associated Buildings M-232 through 236) were excavated and removed from the site in May 1990. The USTs ranged in capacity from 530-gallons to 550-gallons and were in service from 1942 to the late 1980s. Upon UST removal, petroleum hydrocarbons were detected in the site soils. To define the extent of soil and groundwater contamination, site assessments were performed in 1991 and 1992.

The 1991 site assessment included soil borings and the installation of 7 shallow aquifer monitoring wells with total depths of approximately 15 feet below ground surface [bgs], and seven intermediate wells with total depths of approximately 30 feet bgs. The wells were installed in pairs. Analysis of soil and groundwater indicated petroleum constituents were not present at significant concentrations in areas surrounding the former USTs, and no free product was observed in site monitoring wells. The report recommended, however, that the UST excavations be remediated to eliminate the potential for future risk. This recommendation was made since previous sampling data indicated the presence of petroleum hydrocarbons in the tank basins.

As a result, additional investigation activities were conducted in 1992. The investigation included the installation of three surficial aquifer monitoring wells, each to total depths of approximately 15 feet bgs. No constituents were detected in groundwater samples collected

from the three newly installed wells. Free product, however, was observed in monitoring well MW03 at a thickness of 0.12 foot. No measurable free product was identified in any other site well. It was recommended to excavate petroleum-impacted soils in the immediate vicinity of the former USTs, conduct free product removal from well MW03 using manual bailing, and monitor groundwater quality on a biannual basis.

Upon review of the available reports, five monitoring wells were reportedly installed at locations adjacent to the former UST locations sometime between April 1998 and August 1999. In addition, Law Engineering and Environmental Services, Inc. (Law) conducted a risk characterization of the site in November 1999. It appears from data review that the wells were most likely installed as part of the risk characterization effort (this report, however, is unavailable for review). A 2000 Law report states that the risk characterization assessment indicated the site warranted classification as an Intermediate Risk based on the presence of measurable free product in monitoring well MW19.

Law continued conducting groundwater monitoring activities in 2000 and 2001. The monitoring program included quarterly well gauging at all site wells and semi-annual groundwater sampling at wells MW03 (identified as MW07), MW05, MW18, MW20, MW21, and MW22. The gauging data from these assessments identified the presence of measurable free product only in monitoring well MW19, at thicknesses ranging from 0.12 foot to 0.61 foot. Free product recovery was conducted, and groundwater sampling data indicated few compounds were present at concentrations above NCGWQs (none above established GCLs). The assessments concluded that concentrations of detected constituents were generally decreasing over time.

Engineering and Environment, Inc. (EEI) assumed the responsibility of monitoring the site beginning in October 2002. As reported in 2005 and 2006 annual monitoring reports, they conducted a program of quarterly gauging of seven wells from November 2002 through August 2003. EEI did not report measuring free product during any of the four quarters, which included MW19. Reports summarizing the 2002-2003 data were not available for review upon the preparation of this report.

EEI continued site monitoring activities with a new program that began in June 2004. Quarterly well gauging was conducted at 22 site monitoring wells, and semi-annual groundwater samples were obtained from monitoring wells MW05, MW07, MW18, MW20, MW21, and MW22. Free product was observed only in well MW19, which is located in the vicinity of the former UST associated with Building M235, during the 2004-2005 monitoring period. Product thicknesses in MW19 ranged from 0.10 foot to 0.49 foot. Product recovery was conducted via hand bailing. Laboratory analysis of groundwater samples from the two 2004 semi-annual groundwater sampling events indicated no VOC or SVOC concentrations above NCGWQs. The C₉-C₂₂ Aromatics were present at concentrations slightly above NCGWQs in wells MW18, MW20, and/or MW21. These wells are located in the immediate vicinity of the three former USTs associated with Buildings M-236, M-233, and M-232. The 2004-2005 gauging data indicate groundwater flow direction varied over time, resulting in limited net movement of groundwater across the site. The report indicated that the potential for migration of dissolved-phase constituents away from the former USTs was limited given site groundwater flow conditions.

EEI continued monitoring activities for the 2005-2006 monitoring period. As with previous programs, quarterly gauging and semi-annual groundwater sampling was conducted. The program began with gauging events in June 2005, September 2005, December 2005, and January 2006, and groundwater sampling events in June and December 2005. Results were summarized in an annual groundwater monitoring report dated January 6, 2006. Product thicknesses were again measured in MW19 in June and December 2005 at 0.45 ft and 0.02 ft, respectively. There were no detections of VOCs or SVOCs during the monitoring period above groundwater standards; however, C₉-C₂₂ Aromatics concentrations were non-compliant. Surficial aquifer groundwater flow continued its variability.

Sovereign Consulting oversaw monitoring activities for the 2006-2007 monitoring period. Quarterly gauging and semi-annual groundwater sampling was conducted. The program began with gauging events in August 2006, November 2006, January 2007, and April 2007, and groundwater sampling events in August 2006 and January 2007. The results of these activities were summarized in an annual groundwater monitoring report dated July 20, 2007. Measurable free product was observed in only monitoring well MW19 at the site in the amounts of 0.12 ft, 0.24 ft, 0.12 ft, and 0.45 ft during the August 2006, November 2006, January 2007, and April 2007 events, respectively. There were no detections of VOCs or SVOCs during the monitoring period above groundwater standards; however, C₉-C₂₂ Aromatics concentrations were all above the NCGWQS of 210 µg/L.

The 2007-2008 monitoring period was overseen by Sovereign Consulting. Monitoring events included quarterly gauging at the 22 site monitoring wells, with events conducted in June 2007, October 2007, and December 2007. Semi-annual groundwater sampling was also conducted at the site in June 2007 and December 2007 and included monitoring wells MW01, MW03, MW05, MW08, MW09, MW15, MW18, MW20, MW21, and MW22.

4.0 MONITORING PERIOD ACTIVITIES – 2007-2008

The field program for the 2007-2008 monitoring period consisted of quarterly gauging events of 22 monitoring wells and semi annual groundwater sampling of ten monitoring wells. Activities were conducted in accordance with NCDENR guidance. Soil investigation activities were also conducted at the site in the vicinity of the former tank basins adjacent to buildings M232-236. For reporting purposes, data from this field event has been incorporated into this annual monitoring report.

One additional item of note concerning monitoring well depths was discovered last monitoring period. Sovereign conducted a survey of monitoring wells at the site in 2007, which entailed remeasuring well depth and surveying the wells. It was noted that several of the well pairs seemed to have been reversed. For example, original well construction records indicate that the odd numbered monitoring wells from MW01 through MW15 were each screened from about five feet bgs to 15 feet bgs, and the even wells MW02 through MW14 were screened from approximately 20 feet to 30 feet bgs. Sovereign personnel noted that well pair depths for MW03/04, MW05/06, MW09/10 and MW13/14 were opposite of original conditions. At some

point in the past, the wells were probably mislabeled. Current maps and data reflect the 2007 surveyed information. Measured well depths are summarized in Table 1.

4.1 WELL GAUGING

All 22 groundwater monitoring wells were included in gauging activities at the site. The monitoring wells were gauged in June 2007; October 2007; and December 2007 using an interface probe capable of measuring the depth to water and depth to product (if present) to the nearest 0.01 foot. Depth to water values ranged from 7.57 to 15.11 feet below TOC. No measurable free product was detected at any site well designated for gauging during the 2008 monitoring period. One hundredth (0.01) of a foot of free product was detected during the soil investigation activities in the temporary piezometer location of the former tank basin of building M-233. Gauging data for each well was recorded and is summarized in Tables 2 and 3.

Top of casing elevations and DTW values were used to obtain groundwater elevations at the site. Based on the groundwater elevations and contours shown in Figures 3 - 5, each figure shows groundwater entering the site from the northeast, northwest, and southwest directions. These directions are consistent with information from previous reports.

4.2 GROUNDWATER SAMPLING

The two groundwater sampling events were conducted in June 2007 and December 2007. For these sampling events, groundwater was collected from ten (10) groundwater monitoring wells using low-flow purging and sampling methods; those were monitoring wells MW01, MW03, MW05, MW08, MW09, MW15, MW18, MW20, MW21, and MW22.

One duplicate sample was collected during each field event. Samples were collected after water quality indicator parameters (pH, temperature, conductivity, oxidation-reduction potential, dissolved oxygen and turbidity) were recorded and had stabilized and at least one well volume had been purged. Groundwater was transferred from each well to the laboratory-prepared sample bottles via the polyethylene discharge tubing. The samples were kept in an iced cooler and sent under chain of custody to SGS/Paradigm Analytical Laboratories Inc. (SGS) in Wilmington, NC (NC Certification Number 481). At SGS, the samples were analyzed for VOCs using EPA Method 602 plus xylenes, SVOCs via EPA Method 625 plus the 10 largest non-target peaks (TICs), and VPH and EPH via the MADEP Methods.

The laboratory report and chain of custody documentation for the June 2007 and December 2007 sampling events are included in Appendix B, and copies of the field measurements are included in Appendix C. The analytical data for the groundwater sampling events are summarized in Tables 4-7 and depicted in Figures 7-9.

EPA Method 602

There were no VOCs detected in groundwater at the site above the NCGWQSs. Ethylbenzene, Methyl-tert butyl ether (MTBE), and total xylenes were detected at concentrations below the groundwater quality standards. Ethylbenzene was detected in monitoring wells, MW18, MW20, and MW21 during the June 2007 event; however MW22 showed traces of ethylbenzene during both the June 2007 and December 2007 events. Methyl-tertiary butyl ether (MTBE) was detected in MW08 for both sampling events as well as the duplicate but only during the December event. Total xylenes were found in wells MW21 and MW22 during the June 2007 event. There were no detections above the applicable 2L NCGWQ standards.

EPA Method 625

Laboratory analysis detected five SVOCs in the groundwater samples from the site. Acenaphthene and Flourene were detected in monitoring wells MW03, MW20, MW21 and MW22 during the June 2007 and December 2007 events. Acenaphthene was only detected in the June 2007 event for MW18; however, none of the detected concentrations exceeded the applicable NCGWQS of 80 µg/L and 280 µg/L respectively. Naphthalene and Phenanthrene were detected in monitoring wells MW18 and MW21 during the June 2007 events. Both compounds were detected in MW22 for the June 2007 and December 2007 events. Naphthalene was only detected in the June 2007 for MW20. All detected concentrations were below the NCGWQS of 21 µg/L. Anthracene was detected in monitoring well MW21 during the December 2007 event.

Although several Tentatively Identified Compounds (TICs) were present, not all TICs are identified and quantitated using individual standards. Additionally, many TICs are reported as compound isomers or unknown because they cannot be identified as specific compounds with match probabilities. When specific compounds were identified, the detected concentration was compared to the NCGWS, if one had been established. For those specific compounds identified during the 2007-2008 sampling events and having an established NCGWQS, no compound was detected above the NCGWQS. Due to the uncertainties associated with TICs, it is impossible to draw any conclusions based upon their presence.

MADEP Methods

C₉-C₁₈ Aliphatics and C₉-C₂₂ Aromatics were detected in groundwater samples obtained from the site. C₉- C₁₈ Aliphatics were detected in monitoring wells MW21 and MW22 during the December 2007 event at concentrations of 105 µg/L and 110µg/L respectively. All detected concentrations were below the NCGWQS of 4,200 µg/L. During the June event monitoring well MW18, MW21 and MW22 contained C₉-C₂₂ Aromatics at concentrations of 278 µg/L, 290 µg/L and 473 µg/L respectively. These compounds were above the NCGWQS of 210 µg/L. C₉-C₂₂ Aromatics was also detected in MW21 during the December 2007 event at a concentration of 130 µg/L. This concentration is below the NCGWQS of 210 µg/L.

Field duplicate samples were collected and laboratory-prepared trip blanks were analyzed for quality control. The trip blanks were analyzed for VOCs only. No VOCs were detected in the trip blanks, and the duplicate sample results were comparable to its counterpart.

Other QC samples were run by the lab as required by the analytical methods. These QC samples include laboratory control spikes, method blanks, prep blanks, etc. The data was validated by reviewing sample holding times, analytical data, internal standards, calibrations, etc. The validation indicated that the data are usable for project purposes.

4.3 SOIL INVESTIGATION

In August of 2007, Sovereign was onsite with a direct push rig to conduct a soil investigation of the former UST basins located at building M232-236 (excluding M235 because of the Spring 2007 soil removal action conducted by Osage of VA). Sovereign advanced 5 soil borings to approximately 8 feet bgs in each former tank basin. One boring was advanced in each former basin sidewall as well as the floor of the former basin in order to investigate soil contaminant concentrations. Soil samples were collected from each boring location and sent under chain of custody to SGS Paradigm of Wilmington, North Carolina and tested for TPH DRO and TPH GRO. These results are summarized in Table 8 of this report. Soil contaminant concentrations were detected above State action limits in each former tank basin location M232, M233, M234 and M236 for both TPH DRO and TPH GRO.

In addition, a temporary piezometer was placed in each floor boring location in order to collect a groundwater sample and monitor for free product. One hundredth (0.01) of a foot of product was detected using an oil water interface probe in the location of building M233. The groundwater sample results for M232, M234, and M236 are summarized in Tables 4-7. VOCs, SVOCs, and MADEP Parameters were detected in each former tank basin location. Specifically though, only naphthalene in the basin for M232 and M234 and the MADEP parameter C9-C22 Aromatics (in each piezometer location sampled for M232, M234 and M236) were detected above 2L NCGWQSs. The piezometers were abandoned immediately after monitoring occurred in each location.

5.0 RECEPTOR SURVEY

Sovereign reassessed site conditions and completed an updated risk classification form located in Appendix E of the 2007 Annual Monitoring Report. The form indicated the site qualifies as an intermediate risk site with residential land use. There are no water supply wells in the area.

6.0 CONCLUSIONS AND RECOMMENDATIONS

Based on fieldwork and laboratory analytical data gathered during the 2007-2008 monitoring period, the following conclusions are presented.

1. Previous investigations indicate petroleum constituent concentrations in vadose zone soils are present at the site in the former tank basins above the STGW MSCCs and State Action Limits for TPH.

2. Shallow surficial groundwater aquifer flow varies at the site with northeastern, northwestern, and southwestern components.
3. Well MW19, associated with the former UST located at M-235, was abandoned and the area was excavated from April 30 to May 2, 2007. No free product has been detected in monitoring wells at the site since the removal action was completed.
4. Soil samples from the MW19 soil excavation indicate that contaminants are present above the STGW MSCCs, but below the residential and industrial/commercial MSCCs. The confirmation soil samples also exhibited 4-isopropyltoluene, which does not have established MSCCs.
5. Groundwater sampling results for the 2007-2008 monitoring period show there were no VOCs detected in groundwater at the site above the NCGWQSSs. Noncompliant C₉-C₂₂ Aromatics concentrations were also detected during the monitoring period in monitoring wells MW18, MW21, and MW22.

In order to move toward the eventual goal of No Further Action status at the site, MCB Camp Lejeune will have to demonstrate that soils in the former UST basins do not contain contamination above applicable state action limits for TPH DRO and TPH GRO or STGW MSCCs. Since the site is currently ranked as an intermediate site, soils must meet the lower of the residential or STGW MSCCs. A hot spot soil removal action is recommended in the vicinity of the former UST basin of building M-233, where free product was observed in the temporary piezometers during the August 2007 soil investigation. After excavation a temporary well should be installed to monitor for the presence of free product.

To monitor free product and groundwater conditions, Sovereign also recommends continuing gauging and sampling of existing monitoring program wells on a semi-annual basis. Recurrence of free product should be monitored in MW23 (replacement for monitoring well MW19), and product recovery should be conducted as indicated by the gauging data.

7.0 REFERENCES

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TABLES

TABLE 1
WELL CONSTRUCTION INFORMATION
Incident Number and Name: 9593, Buildings M-232-236

Monitoring Well	Measured Depth to Bottom from TOC (feet)	Top of Casing Elevation (feet)
USTM-232-236-MW01	17.44	13.99
USTM-232-236-MW02	31.72	13.65
USTM-232-236-MW03	32.47	16.27
USTM-232-236-MW04	17.49	16.11
USTM-232-236-MW05	32.48	12.93
USTM-232-236-MW06	17.23	12.76
USTM-232-236-MW07	17.42	12.58
USTM-232-236-MW08	32.35	12.60
USTM-232-236-MW09	32.25	14.24
USTM-232-236-MW10	17.20	13.70
USTM-232-236-MW11	16.85	10.65
USTM-232-236-MW12	31.70	10.67
USTM-232-236-MW13	32.52	15.75
USTM-232-236-MW14	17.50	15.84
USTM-232-236-MW15	16.81	14.83
USTM-232-236-MW16	16.58	14.88
USTM-232-236-MW17	17.15	14.16
USTM-232-236-MW18	14.70	10.29
USTM-232-236-MW19	14.62	11.15
USTM-232-236-MW20	14.70	11.03
USTM-232-236-MW21	14.51	11.37
USTM-232-236-MW22	14.50	11.31

TOC Elevations taken from January 2007 Sovereign Well Survey Database.

Note – MW19 abandoned in May 2007 due to soil excavation; replacement well installed June 2007 and named as MW23 – installation data was not available as of the preparation of this report.

TABLE 2
GROUNDWATER ELEVATION DATA

Incident Number and Name: 9593, Buildings M-232-236

Monitoring Well	Top of Casing Elevation (feet)	Groundwater Elevation (feet)		
		6/21/2007	10/23/2007	12/18/2007
USTM-232-236-MW01	13.99	2.40	4.01	1.64
USTM-232-236-MW02	13.65	2.11	2.44	1.09
USTM-232-236-MW03	16.27	2.30	2.52	1.16
USTM-232-236-MW04	16.11	2.31	2.79	1.16
USTM-232-236-MW05	12.93	2.24	2.51	1.27
USTM-232-236-MW06	12.76	1.66	3.96	1.94
USTM-232-236-MW07	12.58	1.93	4.05	2.51
USTM-232-236-MW08	12.60	1.92	2.11	0.93
USTM-232-236-MW09	14.24	1.95	2.11	0.98
USTM-232-236-MW10	13.70	2.16	2.15	0.91
USTM-232-236-MW11	10.65	1.07	4.14	2.34
USTM-232-236-MW12	10.67	1.71	1.85	0.77
USTM-232-236-MW13	15.75	2.10	2.82	1.37
USTM-232-236-MW14	15.84	2.89	3.44	1.68
USTM-232-236-MW15	14.83	1.88	2.93	1.27
USTM-232-236-MW16	14.88	3.64	2.44	1.13
USTM-232-236-MW17	14.16	2.47	3.83	3.34
USTM-232-236-MW18	10.29	1.33	1.60	0.34
USTM-232-236-MW19	11.15	NM	2.62	NM
USTM-232-236-MW20	11.03	2.29	2.53	1.20
USTM-232-236-MW21	11.37	2.39	2.97	1.50
USTM-232-236-MW22	11.31	2.23	3.22	1.43

NM = Not Measured

TABLE 3
PRODUCT THICKNESS DATA

Incident Number and Name: 9593, Buildings M-232-236

Monitoring Well ID	Top of Casing Elevation (feet)	Product Thickness (feet)		
		06/2007	10/2007	12/2007
USTM-232-236-MW01	13.99	--	--	--
USTM-232-236-MW02	13.65	--	--	--
USTM-232-236-MW03	16.27	--	--	--
USTM-232-236-MW04	16.11	--	--	--
USTM-232-236-MW05	12.93	--	--	--
USTM-232-236-MW06	12.76	--	--	--
USTM-232-236-MW07	12.58	--	--	--
USTM-232-236-MW08	12.60	--	--	--
USTM-232-236-MW09	14.24	--	--	--
USTM-232-236-MW10	13.70	--	--	--
USTM-232-236-MW11	10.65	--	--	--
USTM-232-236-MW12	10.67	--	--	--
USTM-232-236-MW13	15.75	--	--	--
USTM-232-236-MW14	15.84	--	--	--
USTM-232-236-MW015	14.83	--	--	--
USTM-232-236-MW16	14.88	--	--	--
USTM-232-236-MW17	14.16	--	--	--
USTM-232-236-MW18	10.29	--	--	--
USTM-232-236-MW19	11.15	--	--	--
USTM-232-236-MW20	11.03	--	--	--
USTM-232-236-MW21	11.37	--	--	--
USTM-232-236-MW22	11.31	--	--	--

“-” “-” No measurable free product present.

TABLE 4
SUMMARY OF GROUNDWATER SAMPLING RESULTS

Incident Number and Name: 9593, Buildings M-232-236

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						
USTM-232-236-MW01	USTM-232-236-MW01	6/21/2007	<1.00	<1.00	<1.00	<2.00	<1.00	<2.00
		12/18/2007	<1.00	<1.00	<1.00	<2.00	<1.00	<2.00
USTM-232-236-MW03	USTM-232-236-MW03	6/21/2007	<1.00	<1.00	<1.00	<2.00	<1.00	<2.00
		12/18/2007	<1.00	<1.00	<1.00	<2.00	<1.00	<2.00
USTM-232-236-MW05	USTM-232-236-MW05	6/21/2007	<1.00	<1.00	<1.00	<2.00	<1.00	<2.00
		12/18/2007	<1.00	<1.00	<1.00	<2.00	<1.00	<2.00
USTM-232-236-MW08	USTM-232-236-MW08	6/21/2007	<1.00	<1.00	<1.00	0.793	<1.00	<2.00
		12/18/2007	<1.00	<1.00	<1.00	0.469J	<1.00	<2.00
USTM-232-236-MW09	USTM-232-236-MW09	6/21/2007	<1.00	<1.00	<1.00	<2.00	<1.00	<2.00
		12/18/2007	<1.00	<1.00	<1.00	<2.00	<1.00	<2.00
USTM-232-236-MW15	USTM-232-236-MW15	6/21/2007	<1.00	<1.00	<1.00	<2.00	<1.00	<2.00
		12/18/2007	<1.00	<1.00	<1.00	<2.00	<1.00	<2.00
USTM-232-236-MW18	USTM-232-236-MW18	6/21/2007	<1.00	<1.00	0.531	<2.00	<1.00	<2.00
		12/18/2007	<1.00	<1.00	<1.00	<2.00	<1.00	<2.00
USTM-232-236-MW20	USTM-232-236-MW20	6/21/2007	<1.00	<1.00	0.766	<2.00	<1.00	<2.00
		12/18/2007	<1.00	<1.00	<1.00	<2.00	<1.00	<2.00
USTM-232-236-MW21	USTM-232-236-MW21	6/22/2007	<1.00	<1.00	0.468	<2.00	<1.00	0.704
		12/18/2007	<1.00	<1.00	<1.00	<2.00	<1.00	<2.00
USTM-232-236-MW22	USTM-232-236-MW22	6/22/2007	<1.00	<1.00	2.07	<2.00	<1.00	0.847
		12/18/2007	<1.00	<1.00	0.945J	<2.00	<1.00	<2.00
USTM-232-236-Duplicate	USTM-232-236-Duplicate	6/21/2007	<1.00	<1.00	<1.00	<2.00	<1.00	<2.00
		12/18/2007	<1.00	<1.00	<1.00	2.51	<1.00	<2.00
USTM236TB-TP01	USTM236TB-TP01	8/22/2007	<1.00	<1.00	0.556	<2.00	<1.00	<2.00
USTM234TB-TP01	USTM234TB-TP01	8/22/2007	<1.00	<1.00	17.5	<2.00	0.259	0.536
USTM232TB-TP01	USTM232TB-TP01	8/22/2007	<1.00	<1.00	10.3	<2.00	<1.00	1.36
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 Limit
- J = Estimated concentration.
- **BOLD** = detected concentration.

TABLE 5
SUMMARY OF GROUNDWATER SAMPLING RESULTS

Incident Number and Name: 9593, Buildings M-232-236
Analytical Method: EPA Method 625 Plus 10 TICs

Contaminant of Concern			Acenaphthene	Diphenylamine	Anthracene	Fluorene	Naphthalene	Phenanthrene	Tentatively Identified Compounds (TICs)
Well ID	Sample ID	Date Collected							
USTM-232-236-MW01	USTM-232-236-MW01	6/21/2007 12/18/2007	<10.0 <10.0	<10.0 <10.0	<10.0 <10.0	<10.0 <10.0	<10.0 <10.0	<10.0 <10.0	BQL 10.7
USTM-232-236-MW03	USTM-232-236-MW03	6/21/2007 12/18/2007	1.90 1.40J	<10.0 <10.0	<10.0 <10.0	1.90 1.70J	<10.0 <10.0	<10.0 <10.0	154 9.5
USTM-232-236-MW05	USTM-232-236-MW05	6/21/2007 12/18/2007	<10.0 <10.0	<10.0 <10.0	<10.0 <10.0	<10.0 <10.0	<10.0 <10.0	<10.0 <10.0	198.56 10.2
USTM-232-236-MW08	USTM-232-236-MW08	6/21/2007 12/18/2007	<10.0 <10.0	<10.0 <10.0	<10.0 <10.0	<10.0 <10.0	<10.0 <10.0	<10.0 <10.0	153.2 9.44
USTM-232-236-MW09	USTM-232-236-MW09	6/21/2007 12/18/2007	<10.0 <10.0	<10.0 <10.0	<10.0 <10.0	<10.0 <10.0	<10.0 <10.0	<10.0 <10.0	158.6 11.1
USTM-232-236-MW15	USTM-232-236-MW15	6/21/2007 12/18/2007	<10.0 <10.0	<10.0 <10.0	<10.0 <10.0	<10.0 <10.0	<10.0 <10.0	<10.0 <10.0	157.7 9.79
USTM-232-236-MW18	USTM-232-236-MW18	6/21/2007 12/18/2007	5.90 <10.0	<10.0 <10.0	<10.0 <10.0	8.60 2.70J	5.70 <10.0	3.40 <10.0	260.09 29.85
USTM-232-236-MW20	USTM-232-236-MW20	6/21/2007 12/18/2007	2.30 1.60J	<10.0 <10.0	<10.0 <10.0	2.20 1.60J	1.20 <10.0	<10.0 <10.0	154.18 30.01
USTM-232-236-MW21	USTM-232-236-MW21	6/22/2007 12/18/2007	3.70 2.10J	<10.0 <10.0	<10.0 1.80J	4.40 3.00J	2.90 <10.0	2.70 <10.0	284.82 96.34
USTM-232-236-MW22	USTM-232-236-MW22	6/22/2007 12/18/2007	5.60 2.60J	<10.0 <10.0	<10.0 <10.0	5.60 3.10J	18.3 3.20J	2.60 2.40J	251.86 46.21
USTM-232-236-Duplicate	USTM-232-236-Duplicate	6/21/2007 12/18/2007	<10.0 <10.0	<10.0 <10.0	<10.0 <10.0	<10.0 <10.0	<10.0 <10.0	<10.0 <10.0	BQL 10.2
USTM236TB-TP01	USTM236TB-TP01	8/22/2007	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	BQL
USTM234TB-TP01	USTM234TB-TP01	8/22/2007	6.60	<10.0	<10.0	11.3	31.6	13.7	BQL
USTM232TB-TP01	USTM232TB-TP01	8/22/2007	3.70J	<10.0	5.60J	5.60J	56.9	5.60J	BQL
2L Standard (µg/l)			80	NE	2100	280	21	210	NA
GCL (µg/l)			2,120	NE	2100	950	15,500	410	NA

- All results reported in µg/L.
- µg/L = microgram per liter
- GCL = Gross contaminant level
- BQL = Below quantitation limit
- J = Estimated concentration
- NA = Not Applicable
- **BOLD** = Detected concentration.
- **BOLD** and shaded = Detected concentration exceeds 2L standard.

TABLE 6
SUMMARY OF GROUNDWATER SAMPLING RESULTS

Incident Number and Name: 9593, Buildings M-232-236

Analytical Method: 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						
USTM-232-236-MW01	USTM-232-236-MW01	6/21/2007 12/18/2007	<100 <100	<100 <100	<100 <100	<100 <100	<100 <100	<100 <100
USTM-232-236-MW03	USTM-232-236-MW03	6/21/2007 12/18/2007	<10.0 <100	<10.0 <100	<10.0 <100	<100 <100	<100 <100	<100 <100
USTM-232-236-MW05	USTM-232-236-MW05	6/21/2007 12/18/2007	<10.0 <100	<10.0 <100	<10.0 <100	<100 <100	<100 <100	<100 <100
USTM-232-236-MW08	USTM-232-236-MW08	6/21/2007 12/18/2007	<10.0 <100	<10.0 <100	<10.0 <100	<100 <100	<100 <100	<100 <100
USTM-232-236-MW09	USTM-232-236-MW09	6/21/2007 12/18/2007	<100 <100	<100 <100	<100 <100	<100 <100	<100 <100	<100 <100
USTM-232-236-MW15	USTM-232-236-MW15	6/21/2007 12/18/2007	<100 <100	<100 <100	<100 <100	<100 <100	<100 <100	<100 <100
USTM-232-236-MW18	USTM-232-236-MW18	6/21/2007 12/18/2007	<10.0 <100	<10.0 <100	128 <100	<100 <100	<100 <100	150 <100
USTM-232-236-MW20	USTM-232-236-MW20	6/21/2007 12/18/2007	<10.0 <100	<10.0 <100	<10.0 <100	<100 <100	<100 <100	<100 <100
USTM-232-236-MW21	USTM-232-236-MW21	6/21/2007 12/18/2007	<10.0 <100	<10.0 105	<10.0 <100	<100 <100	<100 <100	290 130
USTM-232-236-MW22	USTM-232-236-MW22	6/22/2007 12/18/2007	<10.0 <100	<10.0 110	123 <100	<100	<100	350
USTM-232-236-Duplicate	USTM-232-236-Duplicate	6/21/2007 12/18/2007	<100 <100	<100 <100	<100 <100	<100 <100	<100 <100	<100 <100
USTM236TB-TP01	USTM236TB-TP01	8/22/2007	<100	<100	<100	660	<100	480
USTM234TB-TP01	USTM234TB-TP01	8/22/2007	<100	230	203	<100	<100	490
USTM232TB-TP01	USTM232TB-TP01	8/22/2007	<100	110	<100	150	<100	480

- All results reported in µg/l
- µg/L =micrograms per liter
- GCL = gross contamination level; Not Established for MADEP constituents.
- **BOLD** = Detected concentration.

TABLE 7
SUMMARY OF GROUNDWATER SAMPLING RESULTS

Incident Number and Name: 9593, Buildings M-232-236

Analytical Method: Method VPH/EPH

Contaminant of Concern →			C ₅ -C ₈ Aliphatics	C ₉ -C ₁₈ Aliphatics	C ₉ -C ₂₂ Aromatics	C ₁₉ -C ₃₆ Aliphatics
Well ID	Sample ID	Date Collected				
USTM-232-236-MW01	USTM-232-236-MW01	6/21/2007 12/18/2007	<10.0 <100	<100 <100	<100 <100	<100 <100
USTM-232-236-MW03	USTM-232-236-MW03	6/21/2007 12/18/2007	<10.0 <100	<100 <100	<100 <100	<100 <100
USTM-232-236-MW05	USTM-232-236-MW05	6/21/2007 12/18/2007	<10.0 <100	<100 <100	<100 <100	<100 <100
USTM-232-236-MW08	USTM-232-236-MW08	6/21/2007 12/18/2007	<10.0 <100	<100 <100	<100 <100	<100 <100
USTM-232-236-MW09	USTM-232-236-MW09	6/21/2007 12/18/2007	<10.0 <100	<100 <100	<100 <100	<100 <100
USTM-232-236-MW15	USTM-232-236-MW15	6/21/2007 12/18/2007	<10.0 <100	<100 <100	<100 <100	<100 <100
USTM-232-236-MW18	USTM-232-236-MW18	6/21/2007 12/18/2007	<10.0 <100	<100 <100	278 <100	<100 <100
USTM-232-236-MW20	USTM-232-236-MW20	6/21/2007 12/18/2007	<10.0 <100	<100 <100	<100 <100	<100 <100
USTM-232-236-MW21	USTM-232-236-MW21	6/21/2007 12/18/2007	<10.0 <100	<100 105	290 130	<100 <100
USTM-232-236-MW22	USTM-232-236-MW22	6/22/2007 12/18/2007	<10.0 <100	<100 110	473 <100	<100 <100
USTM-232-236-Duplicate	USTM-232-236-Duplicate	6/21/2007 12/18/2007	<100 <100	<100 <100	<100 <100	<100 <100
USTM236TB-TP01	USTM236TB-TP01	8/22/2007	<100	660	480	<100
USTM234TB-TP01	USTM234TB-TP01	8/22/2007	<100	<100	693	<100
USTM232TB-TP01	USTM232TB-TP01	8/22/2007	<100	150	480	<100
2L Standard (µg/l)			420	4,200	210	42,000

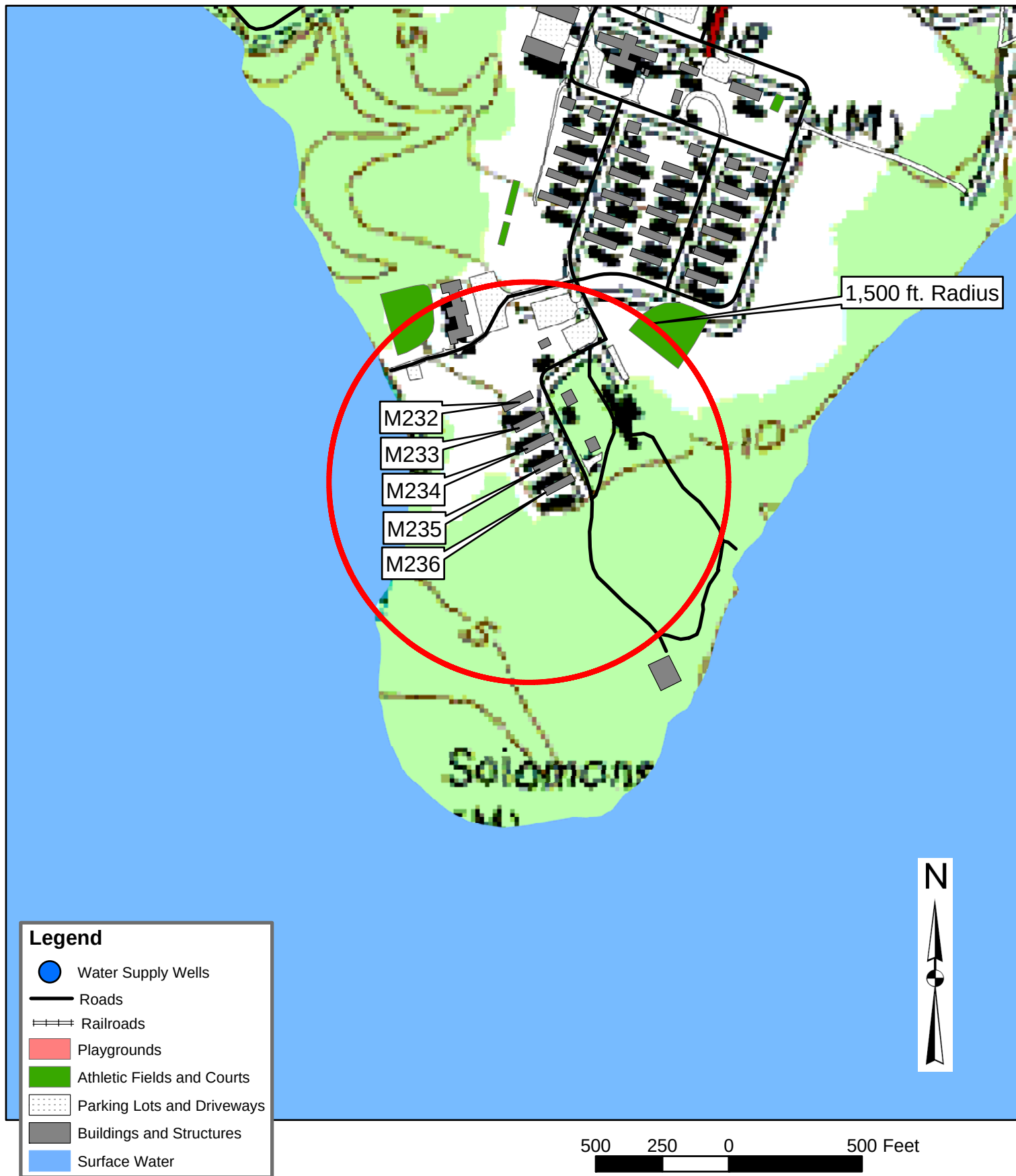
- All results reported in µg/l
- µg/L =micrograms per liter
- GCL = gross contamination level; Not Established for MADEP constituents.
- **BOLD** = Detected concentration
- **BOLD** and shaded = Detected concentration exceeds 2L Standard

TABLE 8
SUMMARY OF SOIL SAMPLING RESULTS
Incident Number and Name: 9593, Buildings M-232-236
Analytical Method: Methods TPH DRO/GRO

Comment	Sample ID	Contaminant of Concern →		TPH-DRO	TPH-GRO
		Date Collected (mm/dd/yy)	Sample Depth (ft BGS)		
USTM232TB	SB01	8/21/2007	5-7	BQL	BQL
USTM232TB	SB02	8/21/2007	5-7	1950	BQL
USTM232TB	SB05	8/21/2007	5-7	BQL	BQL
USTM232TB	SB06	8/21/2007	5-7	BQL	BQL
USTM232TB	SB07	8/21/2007	5-7	2980	16.80
USTM233TB	SB01	8/22/2007	5-7	BQL	BQL
USTM233TB	SB02	8/22/2007	5-7	5460	51.7
USTM233TB	SB03	8/22/2007	5-7	BQL	BQL
USTM233TB	SB04	8/22/2007	5-7	BQL	BQL
USTM233TB	SB05	8/22/2007	5-7	BQL	BQL
USTM234TB	SB01	8/21/2007	5-7	BQL	BQL
USTM234TB	SB02	8/21/2007	5-7	1960	63.8
USTM234TB	SB03	8/21/2007	5-7	BQL	BQL
USTM234TB	SB04	8/21/2007	5-7	1480	22.7
USTM234TB	SB05	8/21/2007	5-7	33.3	BQL
USTM236TB	SB01	8/21/2007	5-7	4010	28.8
USTM236TB	SB02	8/21/2007	5-7	9430	98.7
USTM236TB	SB03	8/21/2007	5-7	BQL	BQL
USTM236TB	SB04	8/21/2007	5-7	223	BQL
USTM236TB	SB05	8/21/2007	5-7	BQL	BQL
NCDENR Action Level (mg/kg)				40	10

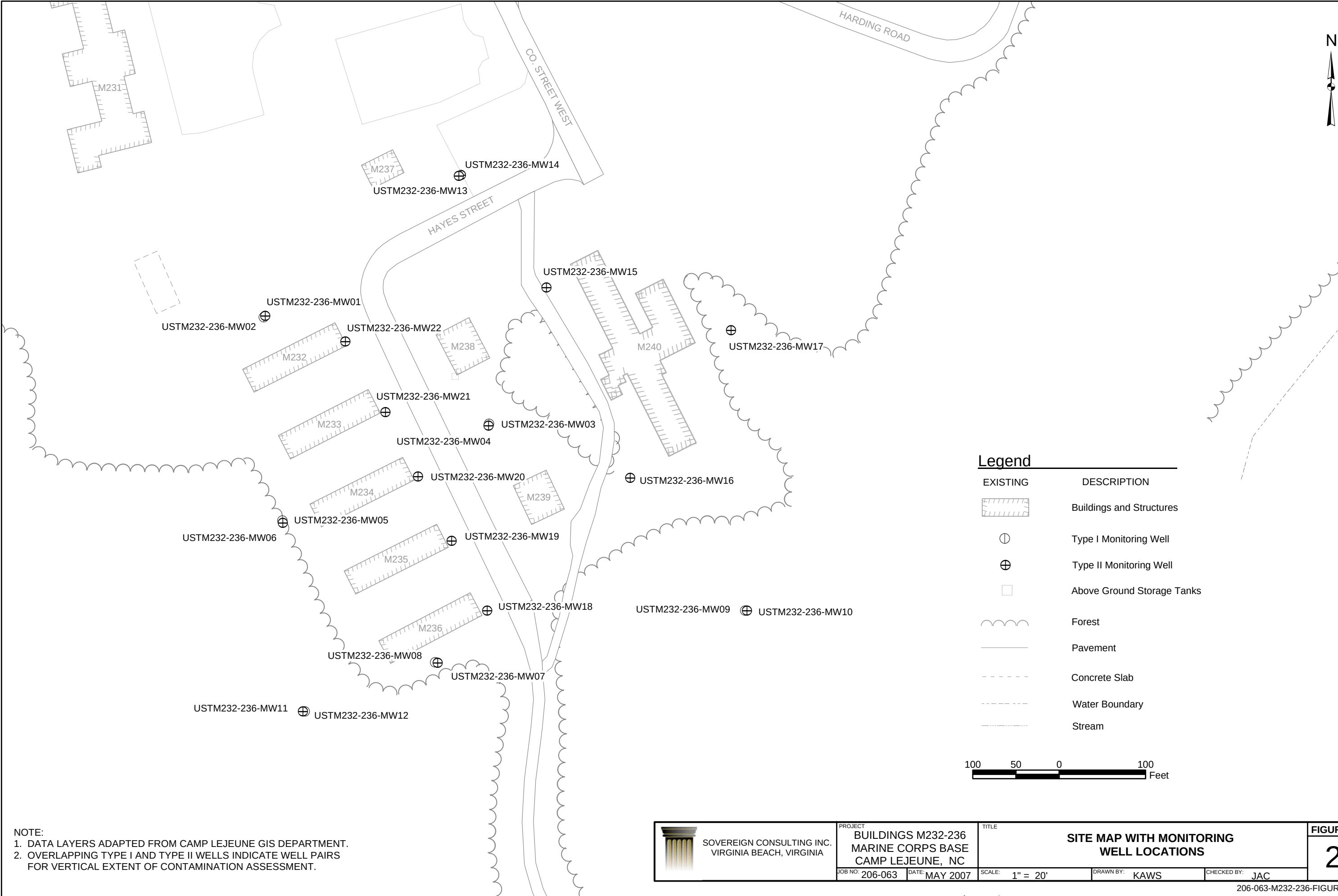
- All results in mg/kg
- mg/kg = milligrams per kilogram
- MSCC = Maximum Soil Contaminant Concentration
- ND = Not Detected
- NE = Not Established
- J = indicates an estimated value
- BOLD** = detected concentration

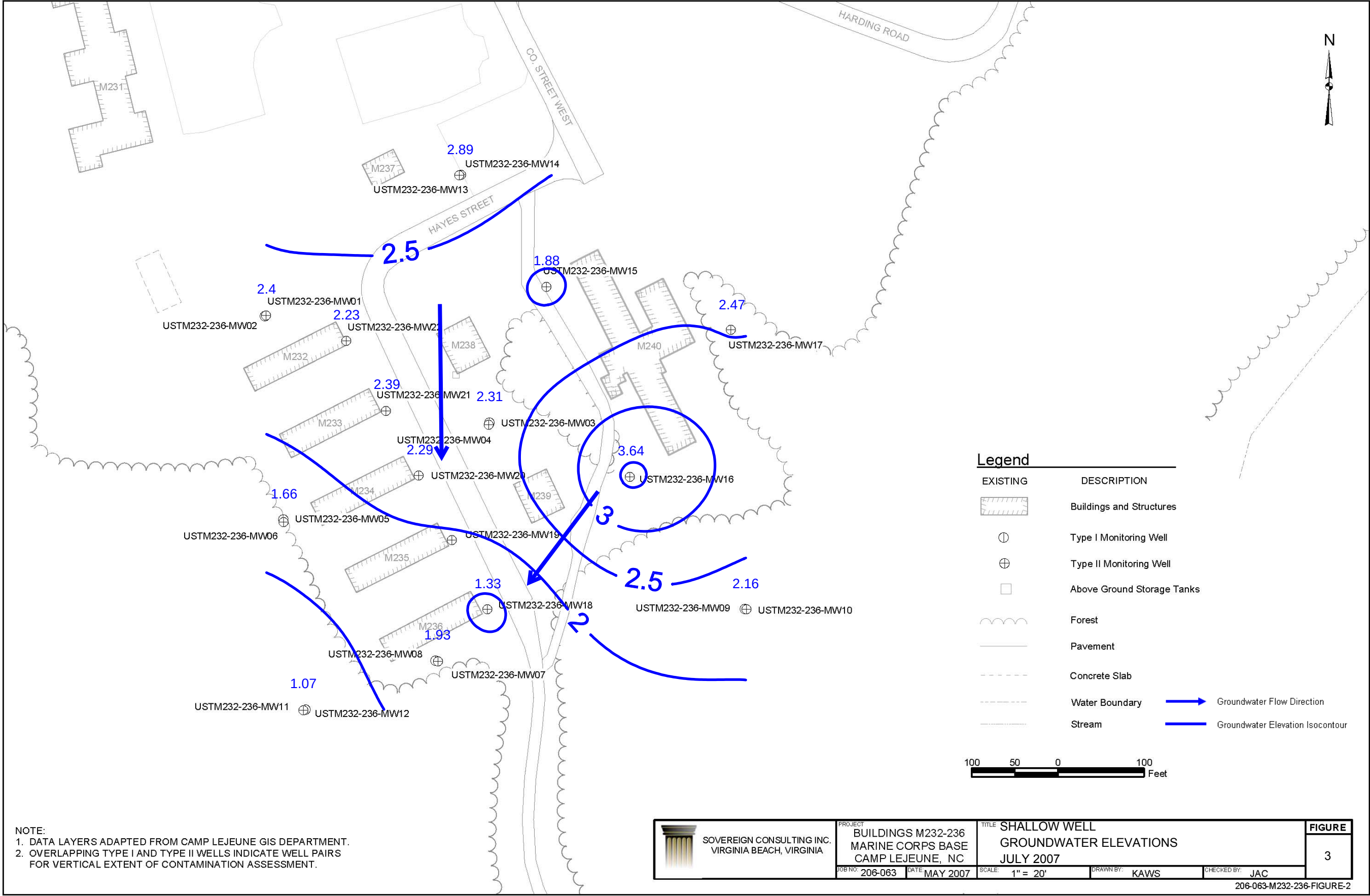
FIGURES

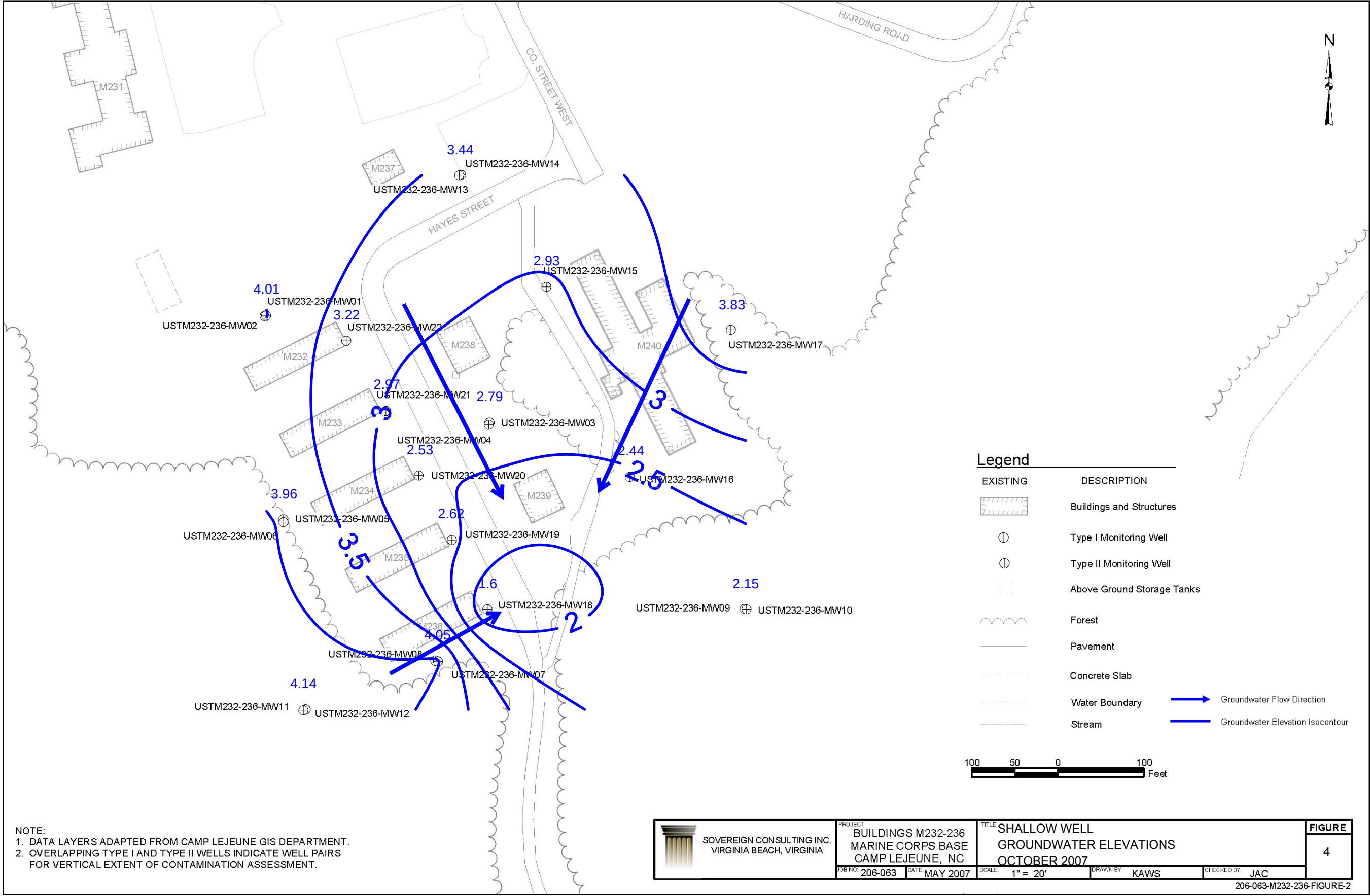


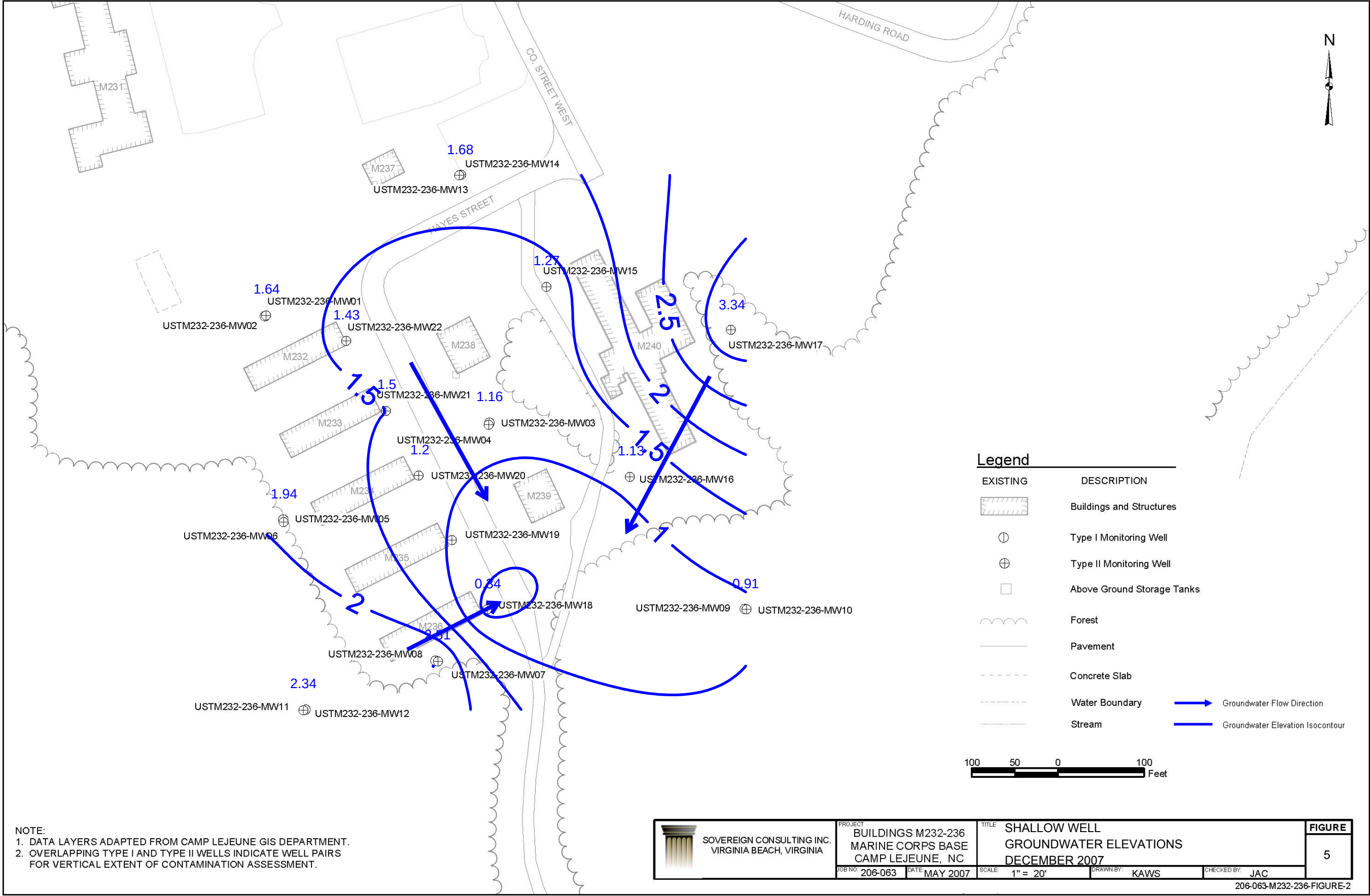
Data Sources: Data Layers provided by MCB Camp Lejeune GIS Office.

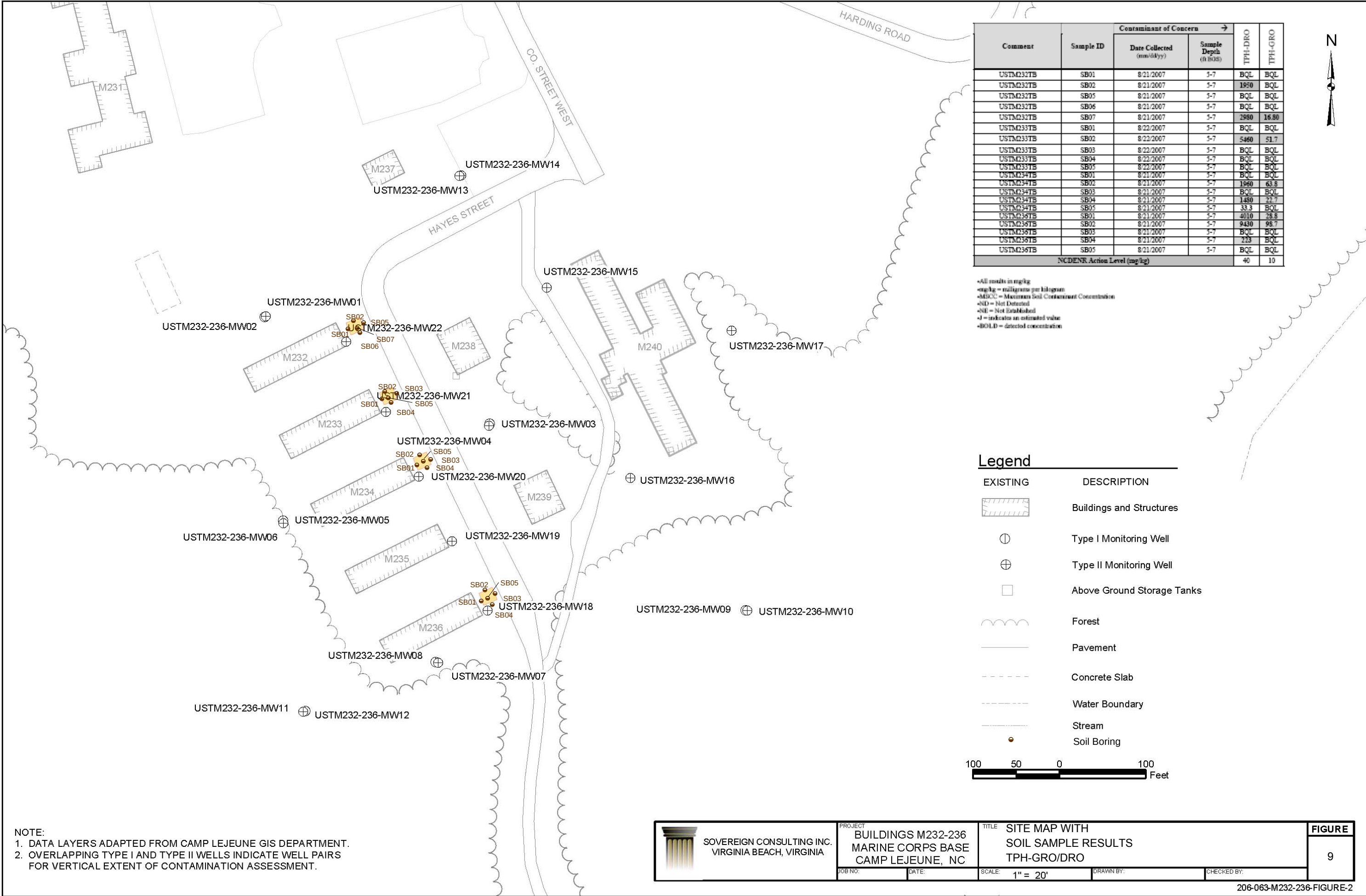
 SOVEREIGN CONSULTING INC. VIRGINIA BEACH, VIRGINIA	PROJECT BUILDINGS M232-236 MARINE CORPS BASE CAMP LEJEUNE, NC		TITLE GENERAL VICINITY TOPOGRAPHIC SITE MAP			FIGURE
	JOB NO. 206-063	DATE MAY 2007	SCALE AS SHOWN	DRAWN BY KAWS	CHECKED BY JAC	1











NOTE:
1. DATA LAYERS ADAPTED FROM CAMP LEJEUNE GIS DEPARTMENT.
2. OVERLAPPING TYPE I AND TYPE II WELLS INDICATE WELL PAIRS FOR VERTICAL EXTENT OF CONTAMINATION ASSESSMENT.

APPENDIX A

HISTORICAL DATA

Free Product Data Summary Over Time

Groundwater Quality Data Over Time

Groundwater Quality Analytical Data Over Time
Site M232-236

Volatile Organic Compounds (ug/L)	NCGWQS	GCL	MW-1	MW-2	MW-3			MW-4	MW-5										MW-6	
			Nov 1991	Nov 1991	Nov 1991	Oct 2000 (1)	Apr 2000 (1)	Nov 1991	Nov 1991	Oct 2000	Apr 2001	Jun 2004	Dec 2004	Jun 2005	Dec 2005	Aug 2006	Jan 2007	Nov 1991		
			(8010/8020)	(8010/8020)	(8010/8020)	(6210D)	(6210D)	(8010/8020)	(8010/8020)	(6210D)	(6210D)	(602)	(602)	(602)	(602)	(602)	(602)	(8010/8020)		
Benzene	1	5,000	na	na	na	na	na	na	na	na	na	na	na	na	na	<1.00	<1.00	na		
Diisopropyl ether (DIPE)	70	70,000	na	na	na	na	na	na	na	na	na	na	na	na	na	<1.00	<1.00	na		
Methyl-tert butyl ether (MTBE)	200	200,000	na	na	na	na	na	na	na	na	na	na	na	na	na	<2.00	<2.00	na		
n-Butylbenzene	70	6,900	na	na	na	na	ND	ND	na	na	ND	ND	na	na	na	na	na	na		
sec-Butylbenzene	70	8,500	na	na	na	na	ND	ND	na	na	ND	ND	na	na	na	na	na	na		
tert-Butylbenzene	70	15,000	na	na	na	na	ND	ND	na	na	ND	ND	na	na	na	na	na	na		
Chloroform	70	70,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	na	na	na	na	na	ND		
Ethylbenzene	550	84,500	ND	ND	ND	ND	ND	ND	ND	ND	ND	<1.00	<1.00	<1.00	<1.00	<1.00	0.185J	ND		
Isopropylbenzene	70	25,000	na	na	na	na	ND	ND	na	na	ND	ND	na	na	na	na	na	na		
4-Isopropyltoluene	RL	NE	na	na	na	na	ND	ND	na	na	ND	ND	na	na	na	na	na	na		
Naphthalene	21	15,500	na	na	na	na	ND	ND	na	na	ND	ND	na	na	na	na	na	na		
n-Propyl benzene	70	30,000	na	na	na	na	ND	ND	na	na	ND	ND	na	na	na	na	na	na		
Tetrachloroethene	0.7	700	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	na	na	na	na	na	ND		
Toluene	1,000	257,500	ND	ND	ND	ND	ND	ND	ND	ND	ND	<1.00	<1.00	<1.00	1.13	<1.00	1.28	1.0		
1,2,4-Trimethylbenzene	350	28,500	na	na	na	na	ND	ND	na	na	ND	ND	na	na	na	na	na	na		
1,3,5-Trimethylbenzene	350	25,000	na	na	na	na	ND	ND	na	na	ND	ND	na	na	na	na	na	na		
Total Xylenes	530	87,500	ND	ND	ND	ND	ND	ND	ND	ND	ND	<4.00	<4.00	0.726J	<4.00	<2.00	<2.00	ND		
Semi-Volatile Organic Compounds (ug/L)			(8100)	na	(8100)	(625)	(625)	na	(8100)	(625)	(625)	(625)	(625)	(625)	(625)	(625)	(625)	na		
Acenaphthene	80	2,120	ND	na	ND	ND	ND	na	ND	ND	ND	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	na		
Acenaphthylene	210	1,965	ND	na	ND	na	na	na	ND	na	na	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	na		
Bis(2-ethylhexyl)phthalate	2.5	2,500	na	na	na	na	ND	ND	na	na	ND	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	na		
Diethylphthalate	5,000	NE	na	na	na	na	na	na	na	na	ND	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	na		
Fluorene	280	950	ND	na	ND	ND	ND	ND	na	ND	ND	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	na		
Naphthalene	21	15,500	ND	na	ND	ND	ND	na	ND	ND	ND	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	na		
Phenanthrene	210	410	ND	na	2900	ND	ND	na	ND	ND	ND	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	na		
TICs (total)			na	na	na	1024J	585J	na	na	ND	ND	10J	NR	19.53J	NR	185.37	193	na		
MADEP VPH+EPH (ug/L)																				
C5-C8 Aliphatics	420	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	<100	<100	na		
C9-C18 Aliphatics	4,200	NE	na	na	na	760	690	na	na	na	ND	<200	<200	<200	<200	<200	<200	na		
C19-C36 Aliphatics	42,000	NE	na	na	na	200	140	na	na	na	ND	<100	<100	<100	<100	<100	<100	na		
C9-C22 Aromatics	210	NE	na	na	na	440	430	na	na	na	ND	<200	<200	<200	<200	<200	<200	na		

J: Estimated concentration below reporting limits or estimated concentration for TIC quantitations

na: Not Analyzed; compound not quantitated in the analytic suite specified for the sample, or not reported in source document summary tables

ND: Not Detected; compound quantitated and not detected; detection limit not specified in source document summary table

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

<#: Analyte not detected at the indicated detection limit

GCL: Gross Contamination Level

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

NCGWQS: North Carolina Groundwater Quality Standard

RL: Reporting Limit; a NCGWQS has not been established for the compound; therefore, the NCGWQS is set at the reporting limit

TICs (total): Tentatively identified Compound; sum of all TICs; all TIC concentrations are estimated

ug/L: micrograms per liter

(Non-Sovereign) Historical data taken by reference from 1/2006 EEI Annual Monitoring Report, Table 4-3

(1) Identified as MW-7 in source document.

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

Groundwater Quality Analytical Data Over Time
Site M232-236

Volatile Organic Compounds (ug/L)	NCGWQS	GCL	MW-7												MW-8	MW-9	MW-10	MW-11	MW-12	MW-13	MW-14	MW-15
			Nov 1991	June Primary	2004 Dup	Dec Primary	2004 Dup	June Primary	2005 Dup	Dec Primary	2005 Dup	Aug 2006	Jan 2007	Nov 1991	Nov 1991	Nov 1991	Nov 1991	Nov 1991	Nov 1991	Nov 1991	Nov 1991	Dec 1992
			(8010/8020)	(602)	(602)	(602)	(602)	(602)	(602)	(602)	(602)	(602)	(602)	(8010/8020)	(8010/8020)	(8010/8020)	(8010/8020)	(8010/8020)	(8010/8020)	(8010/8020)	(8010/8020)	(601/602)
Benzene	1	5,000	na	na	na	na	na	na	na	na	na	<1.00	<1.00	na	na	na	na	na	na	na	na	na
Diisopropyl ether (DIPE)	70	70,000	na	na	na	na	na	na	na	na	na	<1.00	<1.00	na	na	na	na	na	na	na	na	na
Methyl-tert butyl ether (MTBE)	200	200,000	na	na	na	na	na	na	na	na	na	<2.00	<2.00	na	na	na	na	na	na	na	na	na
n-Butylbenzene	70	6,900	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
sec-Butylbenzene	70	8,500	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
tert-Butylbenzene	70	15,000	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Chloroform	70	70,000	ND	na	na	na	na	na	na	na	na	na	na	ND	ND	ND	ND	4.0	ND	ND	ND	ND
Ethylbenzene	550	84,500	ND	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	ND	ND	2.0	ND	ND	ND	ND	ND	ND
Isopropylbenzene	70	25,000	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
4-Isopropyltoluene	RL	NE	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Naphthalene	21	15,500	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
n-Propyl benzene	70	30,000	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Tetrachloroethene	0.7	700	ND	na	na	na	na	na	na	na	na	na	na	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	1,000	257,500	ND	<1.00	<1.00	0.808J	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	0.537J	ND	ND	8.0	2.0	2.0	ND	ND	ND	ND
1,2,4-Trimethylbenzene	350	28,500	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
1,3,5-Trimethylbenzene	350	25,000	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Total Xylenes	530	87,500	ND	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<2.00	<2.00	ND	ND	15.0	ND	ND	ND	ND	4.0	ND
Semi-Volatile Organic Compounds (ug/L)			na	(625)	(625)	(625)	(625)	(625)	(625)	(625)	(625)	(625)	(625)	na	na	na	na	na	na	na	na	na
Acenaphthene	80	2,120	na	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	na	na	na	na	na	na	na	na	na
Acenaphthylene	210	1,965	na	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	na	na	na	na	na	na	na	na	na
Bis(2-ethylhexyl)phthalate	2.5	2,500	na	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	na	na	na	na	na	na	na	na	na
Diethylphthalate	5,000	NE	na	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	na	na	na	na	na	na	na	na	na
Fluorene	280	950	na	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	na	na	na	na	na	na	na	na	na
Naphthalene	21	15,500	na	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	na	na	na	na	na	na	na	na	na
Phenanthrene	210	410	na	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	na	na	na	na	na	na	na	na	na
TICs (total)			na	20J	13J	NR	NR	4.12J	20.48J	NR	NR	253.53	182	na	na	na	na	na	na	na	na	na
MADEP VPH+EPH (ug/L)																						
C5-C8 Aliphatics	420	NE	na	na	na	na	na	na	na	na	na	<100	<100	na	na	na	na	na	na	na	na	na
C9-C18 Aliphatics	4,200	NE	na	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	na	na	na	na	na	na	na	na	na
C19-C36 Aliphatics	42,000	NE	na	<100	<100	600	<100	<100	<100	600	<100	<100	<100	na	na	na	na	na	na	na	na	na
C9-C22 Aromatics	210	NE	na	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	na	na	na	na	na	na	na	na	na

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RL: Reporting Limit; a NCGWQS has not be established for the compound; therefore, the NCGWQS is set at the reporting limit

TICs (total): Tentatively identified Compound; sum of all TICs; all TIC concentrations are estimated

ug/L: micrograms per liter

(Non-Sovereign) Historical data taken by reference from 1/2006 EEI Annual Monitoring Report, Table 4-3

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

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Groundwater Quality Analytical Data Over Time
Site M232-236

Volatile Organic Compounds (ug/L)	NCGWQS	GCL	MW-16		MW-17		MW-18								MW-20								
			Dec 1992	Dec 1992	Aug 1999	Oct 2000	Apr 2001	Jun 2004	Dec 2004	Jan 2005	Dec 2005	Aug 2006 ⁽²⁾	Jan 2007	Aug 1999	Oct 2000	Apr 2001	Jun 2004	Dec 2004	Jun 2005	Dec 2005	Aug 2006	Jan 2007	
			(601/602)	(601/602)	(602)	(6210D)	(6210D)	(602)	(602)	(602)	(602)	(602)	(602)	(602)	(6210D)	(6210D)	(602)	(602)	(602)	(602)	(602)	(602)	(602)
Benzene	1	5,000	na	na	na	na	na	na	na	na	na	<1.00	<1.00	na	na	na	na	na	na	na	<1.00	<1.00	
Diisopropyl ether (DIPE)	70	70,000	na	na	na	na	na	na	na	na	na	<1.00	<1.00	na	na	na	na	na	na	na	<1.00	<1.00	
Methyl-tert butyl ether (MTBE)	200	200,000	na	na	na	na	na	na	na	na	na	<2.00	<2.00	na	na	na	na	na	na	na	<2.00	<2.00	
n-Butylbenzene	70	6,900	na	na	na	na	ND	10	na	na	na	na	na	na	2	2	na	na	na	na	na	na	
sec-Butylbenzene	70	8,500	na	na	na	4	6	na	na	na	na	na	na	na	na	ND	ND	na	na	na	na	na	
tert-Butylbenzene	70	15,000	na	na	na	0.7	0.7	na	na	na	na	na	na	na	na	ND	ND	na	na	na	na	na	
Chloroform	70	70,000	ND	ND	na	ND	ND	na	na	na	na	na	na	na	na	ND	ND	na	na	na	na	na	
Ethylbenzene	550	84,500	ND	ND	ND	ND	0.8	<1.00	<1.00	<1.00	<1.00	<1.00	0.333J	7	na	ND	ND	<1.00	<1.00	<1.00	<1.00	0.365J	
Isopropylbenzene	70	25,000	na	na	na	na	ND	2	na	na	na	na	na	na	na	ND	ND	na	na	na	na	na	
4-Isopropyltoluene	RL	NE	na	na	na	na	ND	0.5	na	na	na	na	na	na	na	ND	ND	na	na	na	na	na	
Naphthalene	21	15,500	na	na	na	na	3	5	na	na	na	na	na	na	na	1	1	na	na	na	na	na	
n-Propyl benzene	70	30,000	na	na	na	na	ND	1	na	na	na	na	na	na	na	0.7	0.6	na	na	na	na	na	
Tetrachloroethene	0.7	700	ND	ND	na	ND	ND	ND	na	na	na	na	na	na	na	ND	ND	na	na	na	na	na	
Toluene	1,000	257,500	ND	ND	ND	ND	ND	0.443J	<1.00	<1.00	1.43	<1.00	0.607J	J	ND	ND	ND	0.497J	0.498J	<1.00	1.01	<1.00	0.479J
1,2,4-Trimethylbenzene	350	28,500	na	na	na	na	ND	ND	na	na	na	na	na	na	na	ND	ND	na	na	na	na	na	
1,3,5-Trimethylbenzene	350	25,000	na	na	na	na	0.5	ND	na	na	na	na	na	na	na	ND	ND	na	na	na	na	na	
Total Xylenes	530	87,500	ND	ND	ND	ND	ND	1.458J	0.826J	<4.00	<4.00	<2.00	<2.00	ND	ND	ND	ND	<4.00	0.622J	<4.00	<4.00	<2.00	<2.00
Semi-Volatile Organic Compounds (ug/L)			na	na	(625)	(625)	(625)	(625)	(625)	(625)	(625)	(625)	(625)	(625)	(625)	(625)	(625)	(625)	(625)	(625)	(625)	(625)	
Acenaphthene	80	2,120	na	na	ND	ND	ND	6.50J	2.80J	8.40J	5.50J	7.60J	9.30J	3	ND	ND	1.80J	<10.0	1.70J	<10.0	1.70J	1.40J	
Acenaphthylene	210	1,965	na	na	na	na	na	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	na	na	na	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	
Bis(2-ethylhexyl)phthalate	2.5	2,500	na	na	159	ND	ND	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	ND	ND	ND	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	
Diethylphthalate	5,000	NE	na	na	na	na	na	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	na	na	ND	<10.0	2.90J	<10.0	<10.0	<10.0	<10.0	
Fluorene	280	950	na	na	ND	12	12	9.40J	4.70J	9.70J	7.40J	10.8	10.3	4	ND	ND	2.10J	1.30J	1.80J	1.40J	1.70J	1.60J	
Naphthalene	21	15,500	na	na	6	ND	ND	2.70J	<10.0	2.20J	<10.0	<10.0	1.60J	ND	ND	ND	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	
Phenanthrene	210	410	na	na	ND	11	ND	8.80J	4.90J	8.90J	7.00J	9.80J	8.20J	5	ND	ND	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	
TICs (total)			na	na	19J	222J	203J	109.6J	72.47J	126.51J	114.21J	371.8	362.6	92J	5.4J	3.8J	11J	NR	12.17J	NR	192.35	196.36	
MADEP VPH+EPH (ug/L)																							
C5-C8 Aliphatics	420	NE	na	na	na	na	na	na	na	na	na	<100	<100	na	na	na	na	na	na	na	<100	<100	
C9-C18 Aliphatics	4,200	NE	na	na	21	630	430	200	210	<200	130	<330	<350	260	120	na	<200	<200	<200	<200	<200	<200	
C19-C36 Aliphatics	42,000	NE	na	na	ND	ND	ND	<100	<100	<100	<100	<100	<100	ND	ND	ND	<100	<100	<100	<100	<100	<100	
C9-C22 Aromatics	210	NE	na	na	15	280	270	570	310	430	420	520	320	170	ND	ND	<200	<200	<200	<200	<200	<200	

J: Estimated concentration below reporting limits or estimated concentration for TIC quantitations
na: Not Analyzed; compound not quantitated in the analytic suite specified for the sample, or not reported in source document summary tables
ND: Not Detected; compound quantitated and not detected; detection limit not specified in source document summary table
NR: None Reported; no TICs were identified in the sample
<#/: Analyte not detected at the indicated detection limit
GCL: Gross Contamination Level
NE: Not Established; a GCL has not been established for the analyte
NCGWQS: North Carolina Groundwater Quality Standard
RL: Reporting Limit; a NCGWQS has not be established for the compound; therefore, the NCGWQS is set at the reporting limit
TICs (total): Tentatively identified Compound; sum of all TICs; all TIC concentrations are estimated
ug/L: micrograms per liter
(Non-Sovereign) Historical data taken by reference from 1/2006 EEI Annual Monitoring Report, Table 4-3
⁽²⁾ Diphenylamine detected once in MW18 in August 2006 at a concentration of 1.70J; no established 2L standards or GCLs.
Bold type indicates analyte detection
Shaded area in bold indicates analyte detection at a concentration above the NCGWQS

Volatile Organic Compounds (ug/L)	NCGWQS	GCL	MW-21										MW-22									
			Aug 1999	Oct 2000	Apr 2001	Jun 2004	Dec 2004	Jun 2005	Dec 2005	Aug 2006	Jan 2007	Aug 1999	Oct 2000	Apr 2001	Jun 2004	Dec 2004	Jun 2005	Dec 2005	Aug 2006	Jan 2007	Dup Aug 2006	Dup Jan 2007
			(602)	(6210D)	(6210D)	(602)	(602)	(602)	(602)	(602)	(602)	(602)	(6210D)	(6210D)	(602)	(602)	(602)	(602)	(602)	(602)	(602)	(602)
Benzene	1	5,000	na	na	na	na	na	na	na	<1.00	<1.00	na	na	na	na	na	na	na	na	<1.00	<1.00	<1.00
Diisopropyl ether (DIPE)	70	70,000	na	na	na	na	na	na	na	<1.00	<1.00	na	na	na	na	na	na	na	na	<1.00	<1.00	<1.00
Methyl-tert butyl ether (MTBE)	200	200,000	na	na	na	na	na	na	na	<2.00	<2.00	na	na	na	na	na	na	na	na	<2.00	<2.00	<2.00
n-Butylbenzene	70	6,900	na	4	4	na	na	na	na	na	na	na	ND	1	na	na	na	na	na	na	na	na
sec-Butylbenzene	70	8,500	na	6	6	na	na	na	na	na	na	na	3	1	na	na	na	na	na	na	na	na
tert-Butylbenzene	70	15,000	na	ND	0.6	na	na	na	na	na	na	na	0.8	ND	na	na	na	na	na	na	na	na
Chloroform	70	70,000	na	ND	ND	na	na	na	na	na	na	na	ND	ND	na	na	na	na	na	na	na	na
Ethylbenzene	550	84,500	ND	0.7	1	0.720J	0.845J	0.470J	1.62	<1.00	1.09	ND	1	ND	0.617J	<1.00	<1.00	<1.00	<1.00	0.580J	<1.00	<1.00
Isopropylbenzene	70	25,000	na	2	3	na	na	na	na	na	na	na	3	1	na	na	na	na	na	na	na	na
4-Isopropyltoluene	RL	NE	na	2	3	na	na	na	na	na	na	na	2	0.8	na	na	na	na	na	na	na	na
Naphthalene	21	15,500	na	8	7	na	na	na	na	na	na	na	24	11	na	na	na	na	na	na	na	na
n-Propyl benzene	70	30,000	na	5	6	na	na	na	na	na	na	na	5	2	na	na	na	na	na	na	na	na
Tetrachloroethene	0.7	700	na	ND	0.6	na	na	na	na	na	na	na	ND	ND	na	na	na	na	na	na	na	na
Toluene	1,000	257,500	ND	ND	ND	0.655J	0.869J	0.992J	1.64	<1.00	0.965J	ND	ND	ND	<1.00	0.396J	0.465J	1.2	0.311	0.867J	<1.00	0.544J
1,2,4-Trimethylbenzene	350	28,500	na	11	14	na	na	na	na	na	na	na	22	9	na	na	na	na	na	na	na	na
1,3,5-Trimethylbenzene	350	25,000	na	3	5	na	na	na	na	na	na	na	4	1	na	na	na	na	na	na	na	na
Total Xylenes	530	87,500	ND	ND	ND	1.514J	2.364J	2.364J	<4.00	<2.00	1.02J	ND	ND	ND	<4.00	0.638J	<4.00	<4.00	<2.00	0.476J	<2.00	<2.00
Semi-Volatile Organic Compounds (ug/L)			(625)	(625)	(625)	(625)	(625)	(625)	(625)	(625)	(625)	(625)	(625)	(625)	(625)	(625)	(625)	(625)	(625)	(625)	(625)	(625)
Acenaphthene	80	2,120	ND	ND	ND	2.20J	2.20J	5.00J	3.20J	<10.0	5.20J	2	ND	ND	3.20J	<10.0	1.30J	2.20J	<10.0	3.00J	<10.0	<10.0
Acenaphthylene	210	1,965	na	na	na	<10.0	<10.0	1.20J	<10.0	<10.0	<10.0	na	na	na	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Bis(2-ethylhexyl)phthalate	2.5	2,500	6	ND	ND	<10.0	<10.0	4.90J	<10.0	<10.0	<10.0	283	ND	ND	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Diethylphthalate	5,000	NE	na	na	ND	<10.0	15.5	<10.0	<10.0	<10.0	<10.0	na	na	ND	<10.0	4.60J	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Fluorene	280	950	2	ND	ND	3.40J	3.50J	6.30J	5.70J	6.50J	6.60J	3	ND	ND	4.50J	1.60J	1.40J	3.30J	7.10J	3.40J	<10.0	<10.0
Naphthalene	21	15,500	ND	ND	ND	4.60J	3.10J	6.70J	5.50J	2.80J	4.40J	8	14	13	7.80J	2.30J	2.60J	4.90J	4.80J	4.40J	<10.0	<10.0
Phenanthrene	210	410	2	ND	ND	2.60J	3.10J	5.20J	3.60J	<10.0	6.70J	1	ND	ND	3.30J	<10.0	<10.0	3.00J	<10.0	3.00J	<10.0	<10.0
TICs (total)			84J	5170J	430J	100J	116.69J	150.3J	228.11J	134.07	381.3	118J	380J	369J	117J	32.8J	12.2J	189.48J	155.11	310.64	40.41	191
MADEP VPH+EPH (ug/L)																						
C5-C8 Aliphatics	420	NE	na	na	na	na	na	na	na	<100	<100	na	na	na	na	na	na	na	<100	<100	<100	<100
C9-C18 Aliphatics	4,200	NE	110	460	520	130	300	<200	100	<370	<400	150	420	340	120	<200	<200	<200	<250	<270	<200	<200
C19-C38 Aliphatics	42,000	NE	ND	ND	ND	<100	<100	<100	<100	<100	<100	ND	ND	ND	<100	<100	<100	<100	<100	<100	<100	<100
C9-C22 Aromatics	210	NE	72	250	440	360	200	160	300	410	550	96	340	310	<200	240	<200	250	<490	<200	<200	<200

J: Estimated concentration below reporting limits or estimated concentration for TIC quantitations

na: Not Analyzed; compound not quantitated in the analytic suite specified for the sample, or not reported in source document summary tables

ND: Not Detected; compound quantitated and not detected; detection limit not specified in source document summary table

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

<#: Analyte not detected at the indicated detection limit

GCL: Gross Contamination Level

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

NCGWQS: North Carolina Groundwater Quality Standard

RL: Reporting Limit; a NCGWQS has not been established for the compound; therefore, the NCGWQS is set at the reporting limit

TICs (total): Tentatively identified Compound; sum of all TICs; all TIC concentrations are estimated

ug/L: micrograms per liter

(Non-Sovereign) Historical data taken by reference from 1/2006 EEI Annual Monitoring Report, Table 4-3

Bold type indicates analyte detection

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

APPENDIX B

LABORATORY REPORTS AND CHAIN OF CUSTODY DOCUMENTATION FROM 2007 - 2008 SAMPLING EVENTS



Mr. Chris Murray
Sovereign Consulting
405 Oakmeads Crescent
Suite 1
Virginia Beach VA 23462
Report Number: G650-116
Client Project: NV019

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

7/5/2007

Date

**Results for Volatiles**

by GC 602

Client Sample ID: USTM232-236-Trip Blank

Analyzed By: RSB

Client Project ID: NV019

Date Collected: 6/21/2007 0:00

Lab Sample ID: G650-116-1A

Date Received: 6/22/2007

Lab Project ID: G650-116

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.183	1	7/2/2007	
Diisopropyl ether (DIPE)	BQL	1.00	0.229	1	7/2/2007	
Ethylbenzene	BQL	1.00	0.181	1	7/2/2007	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.359	1	7/2/2007	
Toluene	BQL	1.00	0.157	1	7/2/2007	
m/p-Xylene	BQL	2.00	0.481	1	7/2/2007	
o-Xylene	BQL	2.00	0.584	1	7/2/2007	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	38.0	95

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: USTM232-236-Duplicate

Analyzed By: RSB

Client Project ID: NV019

Date Collected: 6/21/2007 0:00

Lab Sample ID: G650-116-2B

Date Received: 6/22/2007

Lab Project ID: G650-116

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.183	1	7/3/2007	
Diisopropyl ether (DIPE)	BQL	1.00	0.229	1	7/3/2007	
Ethylbenzene	BQL	1.00	0.181	1	7/3/2007	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.359	1	7/3/2007	
Toluene	BQL	1.00	0.157	1	7/3/2007	
m/p-Xylene	BQL	2.00	0.481	1	7/3/2007	
o-Xylene	BQL	2.00	0.584	1	7/3/2007	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	38.4	96.1

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: USTM232-236-MW01

Analyzed By: RSB

Client Project ID: NV019

Date Collected: 6/21/2007 9:40

Lab Sample ID: G650-116-3A

Date Received: 6/22/2007

Lab Project ID: G650-116

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.183	1	7/3/2007	
Diisopropyl ether (DIPE)	BQL	1.00	0.229	1	7/3/2007	
Ethylbenzene	BQL	1.00	0.181	1	7/3/2007	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.359	1	7/3/2007	
Toluene	BQL	1.00	0.157	1	7/3/2007	
m/p-Xylene	BQL	2.00	0.481	1	7/3/2007	
o-Xylene	BQL	2.00	0.584	1	7/3/2007	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	38.4	96.1

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: USTM232-236-MW09

Analyzed By: RSB

Client Project ID: NV019

Date Collected: 6/21/2007 11:00

Lab Sample ID: G650-116-4A

Date Received: 6/22/2007

Lab Project ID: G650-116

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.183	1	7/3/2007	
Diisopropyl ether (DIPE)	BQL	1.00	0.229	1	7/3/2007	
Ethylbenzene	BQL	1.00	0.181	1	7/3/2007	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.359	1	7/3/2007	
Toluene	BQL	1.00	0.157	1	7/3/2007	
m/p-Xylene	BQL	2.00	0.481	1	7/3/2007	
o-Xylene	BQL	2.00	0.584	1	7/3/2007	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	38.4	96

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

Reviewed By: 

GC-VOA_WA

**Results for Volatiles**

by GC 602

Client Sample ID: USTM232-236-MW15

Analyzed By: RSB

Client Project ID: NV019

Date Collected: 6/21/2007 12:15

Lab Sample ID: G650-116-5A

Date Received: 6/22/2007

Lab Project ID: G650-116

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.183	1	7/2/2007	
Diisopropyl ether (DIPE)	BQL	1.00	0.229	1	7/2/2007	
Ethylbenzene	BQL	1.00	0.181	1	7/2/2007	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.359	1	7/2/2007	
Toluene	BQL	1.00	0.157	1	7/2/2007	
m/p-Xylene	BQL	2.00	0.481	1	7/2/2007	
o-Xylene	BQL	2.00	0.584	1	7/2/2007	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	37.9	94.8

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: USTM232-236-MW08

Analyzed By: RSB

Client Project ID: NV019

Date Collected: 6/21/2007 15:10

Lab Sample ID: G650-116-6A

Date Received: 6/22/2007

Lab Project ID: G650-116

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.183	1	7/2/2007	
Diisopropyl ether (DIPE)	BQL	1.00	0.229	1	7/2/2007	
Ethylbenzene	BQL	1.00	0.181	1	7/2/2007	
Methyl-tert butyl ether (MTBE)	0.793	2.00	0.359	1	7/2/2007	J
Toluene	BQL	1.00	0.157	1	7/2/2007	
m/p-Xylene	BQL	2.00	0.481	1	7/2/2007	
o-Xylene	BQL	2.00	0.584	1	7/2/2007	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	38.0	95.1

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: USTM232-236-MW18

Analyzed By: RSB

Client Project ID: NV019

Date Collected: 6/21/2007 14:55

Lab Sample ID: G650-116-7A

Date Received: 6/22/2007

Lab Project ID: G650-116

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.183	1	7/2/2007	
Diisopropyl ether (DIPE)	BQL	1.00	0.229	1	7/2/2007	
Ethylbenzene	0.531	1.00	0.181	1	7/2/2007	J
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.359	1	7/2/2007	
Toluene	BQL	1.00	0.157	1	7/2/2007	
m/p-Xylene	BQL	2.00	0.481	1	7/2/2007	
o-Xylene	BQL	2.00	0.584	1	7/2/2007	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	38.1	95.3

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: USTM232-236-MW20

Analyzed By: RSB

Client Project ID: NV019

Date Collected: 6/21/2007 16:30

Lab Sample ID: G650-116-8E

Date Received: 6/22/2007

Lab Project ID: G650-116

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.183	1	7/3/2007	
Diisopropyl ether (DIPE)	BQL	1.00	0.229	1	7/3/2007	
Ethylbenzene	0.766	1.00	0.181	1	7/3/2007	J
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.359	1	7/3/2007	
Toluene	BQL	1.00	0.157	1	7/3/2007	
m/p-Xylene	BQL	2.00	0.481	1	7/3/2007	
o-Xylene	BQL	2.00	0.584	1	7/3/2007	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	38.5	96.2

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: USTM232-236-MW05

Analyzed By: RSB

Client Project ID: NV019

Date Collected: 6/21/2007 16:55

Lab Sample ID: G650-116-9A

Date Received: 6/22/2007

Lab Project ID: G650-116

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.183	1	7/3/2007	
Diisopropyl ether (DIPE)	BQL	1.00	0.229	1	7/3/2007	
Ethylbenzene	BQL	1.00	0.181	1	7/3/2007	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.359	1	7/3/2007	
Toluene	BQL	1.00	0.157	1	7/3/2007	
m/p-Xylene	BQL	2.00	0.481	1	7/3/2007	
o-Xylene	BQL	2.00	0.584	1	7/3/2007	

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: USTM232-236-MW03

Analyzed By: RSB

Client Project ID: NV019

Date Collected: 6/21/2007 18:00

Lab Sample ID: G650-116-10A

Date Received: 6/22/2007

Lab Project ID: G650-116

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.183	1	7/3/2007	
Diisopropyl ether (DIPE)	BQL	1.00	0.229	1	7/3/2007	
Ethylbenzene	BQL	1.00	0.181	1	7/3/2007	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.359	1	7/3/2007	
Toluene	BQL	1.00	0.157	1	7/3/2007	
m/p-Xylene	BQL	2.00	0.481	1	7/3/2007	
o-Xylene	BQL	2.00	0.584	1	7/3/2007	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	38.1	95.1

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: USTM232-236-MW22

Analyzed By: RSB

Client Project ID: NV019

Date Collected: 6/22/2007 8:55

Lab Sample ID: G650-116-11A

Date Received: 6/22/2007

Lab Project ID: G650-116

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.183	1	7/3/2007	
Diisopropyl ether (DIPE)	BQL	1.00	0.229	1	7/3/2007	
Ethylbenzene	2.07	1.00	0.181	1	7/3/2007	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.359	1	7/3/2007	
Toluene	BQL	1.00	0.157	1	7/3/2007	
m/p-Xylene	0.847	2.00	0.481	1	7/3/2007	J
o-Xylene	BQL	2.00	0.584	1	7/3/2007	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	38.5	96.2

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: USTM232-236-MW21

Analyzed By: RSB

Client Project ID: NV019

Date Collected: 6/22/2007 9:30

Lab Sample ID: G650-116-12A

Date Received: 6/22/2007

Lab Project ID: G650-116

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.183	1	7/3/2007	
Diisopropyl ether (DIPE)	BQL	1.00	0.229	1	7/3/2007	
Ethylbenzene	0.468	1.00	0.181	1	7/3/2007	J
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.359	1	7/3/2007	
Toluene	BQL	1.00	0.157	1	7/3/2007	
m/p-Xylene	0.704	2.00	0.481	1	7/3/2007	J
o-Xylene	BQL	2.00	0.584	1	7/3/2007	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	38.5	96.2

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: VBLK5070207B

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	7/2/2007	
Diisopropyl ether (DIPE)	BQL	1.00	0.229	1	7/2/2007	
Ethylbenzene	BQL	1.00	0.181	1	7/2/2007	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.359	1	7/2/2007	
Toluene	BQL	1.00	0.157	1	7/2/2007	
m/p-Xylene	BQL	2.00	0.481	1	7/2/2007	
o-Xylene	BQL	2.00	0.584	1	7/2/2007	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	38.5	96.2

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

Summary Results for QC Check

Method: 602

Filename : 5070207/018f

Compound	SA	Result	Rec	QC Limits	
	ug/L	ug/L	(%)	Lower	Upper
Benzene	20.0	19.2	96.0	77.0	123.0
Chlorobenzene	20.0	9.6	47.8 +	80.5	119.5
1,2-Dichlorobenzene	40.0	19.7	49.2 +	68.0	132.0
1,3-Dichlorobenzene	20.0	9.6	48.1 +	72.5	127.5
1,4-Dichlorobenzene	40.0	19.3	48.2 +	69.5	130.5
• Diisopropyl ether	20.0	18.6	92.9	43.1	156.9
Ethylbenzene	20.0	19.4	97.1	63.0	137.0
• MTBE	40.0	37.8	94.5	46.8	153.2
Toluene	20.0	19.2	95.9	77.5	127.0
• m,p-Xylene	40.0	38.6	96.6	11.2	188.8
• o-Xylene	40.0	38.3	95.7	47.6	152.4

Flags :

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



Summary Results for Laboratory Control Spike

Method: 602

Filename : 5070207/020f

Compound	SA	Result	Rec	LCS Limits	
	ug/L	ug/L	(%)	Lower	Upper
Benzene	10.0	11.1	110.5	39	150
Chlorobenzene	10.0	9.3	92.7	55	135
1,2-Dichlorobenzene	20.0	9.3	46.7	37	154
1,3-Dichlorobenzene	10.0	19.4	194.1 +	50	141
1,4-Dichlorobenzene	20.0	20.3	101.7	42	143
• Diisopropyl ether	10.0	11.1	111.4	30	170
Ethylbenzene	10.0	11.2	111.7	32	160
• MTBE	20.0	22.2	111.0	35	165
Toluene	10.0	11.1	111.4	46	148
• m,p-Xylene	20.0	22.3	111.4	0	239
• o-Xylene	20.0	22.3	111.3	36	164

Flags :

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

Summary Results for LCS-LCSD

Inst: GC5

LCS : 5070207/120b::5070207/020f

LCSD : 5070207/121b::5070207/021f

Compound	µg/L			REC(%)		REC Limits	
	SA	LCS	LCSD	LCS	LCSD	Lower	Upper
Bromodichloromethane	10	11.1	10.2	111	102	42	172
Bromoform	10	12.1	10.9	121	109	13	159
Bromomethane	10	7.4	7.5	74	75	0	144
Carbon tetrachloride	20	23.2	21.5	116	107	43	143
Chlorobenzene	10	11.0	10.2	110	102	38	150
Chloroethane	10	11.1	11.1	111	111	46	137
Chloroform	10	11.1	10.5	111	105	49	133
Chloromethane	10	15.2	14.6	152	146	0	193
Dibromochloromethane	10	11.5	10.6	115	106	24	191
1,2-Dibromoethane	10	11.8	11.1	118	111	0	206
1,2-Dichlorobenzene	10	10.4	9.7	104	97	0	208
1,3-Dichlorobenzene	10	11.0	10.3	110	103	7	187
1,4-Dichlorobenzene	10	10.6	9.9	106	99	42	143
1,1-Dichloroethane	10	11.5	10.3	115	103	47	132
1,2-Dichloroethane	20	11.1	10.3	56	52	51	147
1,1-Dichloroethene	10	12.4	11.1	124	111	28	167
cis-1,2-Dichloroethene	20	25.0	22.4	125	112	19	181
trans-1,2-Dichloroethene	10	11.1	10.3	111	103	38	155
1,2-Dichloropropane	10	10.9	10.3	109	103	44	156
cis-1,3-Dichloropropene	10	11.1	10.2	111	102	22	178
trans-1,3-Dichloropropene	10	11.2	10.3	112	103	22	178
Methylene Chloride	10	10.0	9.2	100	92	25	162
1,1,2,2-Tetrachloroethane	20	21.4	19.6	107	98	8	184
Tetrachloroethane	20	22.3	21.1	112	106	26	162
1,1,1-Trichloroethane	10	11.0	10.4	110	104	41	138
1,1,2-Trichloroethane	10	10.8	10.1	108	101	39	136
Trichloroethene	10	10.8	10.1	108	101	35	146
Trichlorofluoromethane	10	11.3	11.1	113	111	21	156
Vinyl Chloride	10	11.6	11.7	116	117	28	163

Method: 602

Compound	µg/L			P(%)		P Limits	
	SA	LCS	LCSD	MS	MSD	Lower	Upper
Benzene	10	11.1	10.4	111	104	39	150
Chlorobenzene	10	9.2	9.3	92	93	55	135
1,2-Dichlorobenzene	10	9.9	9.3	96	90	37	154
1,3-Dichlorobenzene	10	18.9	19.4	189 +	194 +	50	141
1,4-Dichlorobenzene	20	0.0	0.0	0 +	0 +	42	143
Diisopropyl ether	10	11.1	10.2	111	102	30	170
Ethylbenzene	10	11.2	10.4	112	104	32	160
MTBE	20	22.2	20.5	111	102	35	165
Toluene	10	11.1	10.4	111	104	46	148
m,p-Xylene	20	22.3	20.8	111	104	0	239
o-Xylene	20	22.3	20.8	111	104	36	164

Flags :

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

**Results for Volatiles**

by GC 602

Client Sample ID: Method Blank

Analyzed By: RSB

Client Project ID:

Date Collected:

Lab Sample ID: VBLK1070207B

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	7/3/2007	
Diisopropyl ether (DIPE)	BQL	1.00	0.229	1	7/3/2007	
Ethylbenzene	BQL	1.00	0.181	1	7/3/2007	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.359	1	7/3/2007	
Toluene	BQL	1.00	0.157	1	7/3/2007	
m/p-Xylene	BQL	2.00	0.481	1	7/3/2007	
o-Xylene	BQL	2.00	0.584	1	7/3/2007	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	38.4	96.1

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

Summary Results for QC Check

Method : 601

Filename : 1070207/023F

Compound	SA	Result	Rec		QC Limits	
	ug/L	ug/L	(%)	F	Lower	Upper
Bromodichloromethane	20.0	21.9	109.6		76.0	124.0
Bromoform	20.0	22.9	114.5		73.5	126.5
Bromomethane	20.0	27.9	139.5		58.5	141.5
Carbon tetrachloride	40.0	44.9	112.2		68.5	131.5
Chlorobenzene	20.0	23.6	117.9		72.0	128.0
Chloroethane	20.0	29.2	146.0 +		77.0	123.0
Chloroform	20.0	23.1	115.5		75.0	125.0
Chloromethane	20.0	29.9	149.7 +		59.5	140.5
Dibromochloromethane	20.0	23.0	115.0		65.5	134.5
1,2-Dibromoethane	20.0	23.1	115.4		13.6	186.4
1,2-Dichlorobenzene	20.0	23.2	116.0		70.0	130.0
1,3-Dichlorobenzene	20.0	22.5	112.3		49.5	150.5
1,4-Dichlorobenzene	20.0	23.0	114.9		69.5	130.5
1,1-Dichloroethane	20.0	23.4	116.9 +		84.0	116.0
1,2-Dichloroethane	20.0	23.5	117.7		71.5	128.5
1,1-Dichloroethene	20.0	23.4	117.0		63.0	137.0
cis-1,2-Dichloroethene	40.0	45.0	112.5		34.4	180.6
trans-1,2-Dichloroethene	20.0	23.1	115.6		64.0	136.0
1,2-Dichloropropane	20.0	23.3	116.3		74.0	126.0
cis-1,3-Dichloropropene	20.0	22.4	111.9		64.0	136.0
trans-1,3-Dichloropropene	20.0	22.6	113.2		64.0	136.0
Methylene Chloride	20.0	23.3	116.7		77.5	122.5
1,1,2,2-Tetrachloroethane	60.0	68.2	113.7		49.0	151.0
Tetrachloroethene	40.0	45.0	112.4		70.0	130.0
1,1,1-Trichloroethane	20.0	23.0	114.9		71.0	129.0
1,1,2-Trichloroethane	20.0	22.6	112.9		78.5	121.5
Trichloroethene	20.0	22.6	112.8		77.0	123.0
Trichlorofluoromethane	20.0	30.3	151.3 +		66.5	133.5
Vinyl Chloride	20.0	30.0	150.0 +		68.5	131.5

Method: 602

Filename : 1070207/023R

Compound	SA	Result	Rec		QC Limits	
	ug/L	ug/L	(%)		Lower	Upper
Benzene	20.0	21.2	105.8		77.0	123.0
Chlorobenzene	20.0	20.9	104.6		80.5	119.5
1,2-Dichlorobenzene	40.0	41.5	103.9		68.0	132.0
1,3-Dichlorobenzene	20.0	20.9	104.3		72.5	127.5
1,4-Dichlorobenzene	40.0	42.0	105.0		69.5	130.5
Diisopropyl ether	20.0	20.9	104.5		43.1	156.9
Ethylbenzene	20.0	21.5	107.3		63.0	137.0
MTBE	40.0	41.2	102.9		46.8	153.2
Toluene	20.0	21.2	106.1		77.5	127.0
m,p-Xylene	40.0	42.6	106.5		11.2	188.8
o-Xylene	40.0	42.7	106.7		47.6	152.4

Flags :

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

Summary Results for Laboratory Control Spike

Method : 601

Filename : 1070207/025F

Compound	SA	Result	Rec	F	LCS Limits	
	ug/L	ug/L	(%)		Lower	Upper
Bromodichloromethane	10.0	11.3	112.7		42	172
Bromoform	10.0	11.3	113.4		13	159
Bromomethane	10.0	12.5	125.2		0	144
Carbon tetrachloride	20.0	23.2	116.1		43	143
Chlorobenzene	10.0	12.0	119.8		38	150
Chloroethane	10.0	13.5	135.5		46	137
Chloroform	10.0	11.8	117.6		49	133
Chloromethane	10.0	13.2	132.3		0	193
Dibromochloromethane	10.0	11.8	117.8		24	191
1,2-Dibromoethane	10.0	11.8	117.9		0	206
1,2-Dichlorobenzene	10.0	12.0	120.4		0	208
1,3-Dichlorobenzene	10.0	11.8	117.5		7	187
1,4-Dichlorobenzene	10.0	12.1	120.6		42	143
1,1-Dichloroethane	10.0	11.8	117.9		47	132
1,2-Dichloroethane	10.0	11.8	118.1		51	147
1,1-Dichloroethene	10.0	11.6	115.5		28	167
cis-1,2-Dichloroethene	20.0	22.7	113.6		19	181
trans-1,2-Dichloroethene	10.0	11.7	116.5		38	155
1,2-Dichloropropane	10.0	11.9	119.3		44	156
cis-1,3-Dichloropropene	10.0	11.7	116.7		22	178
trans-1,3-Dichloropropene	10.0	11.4	113.7		22	178
Methylene Chloride	10.0	11.6	115.7		25	162
1,1,2,2-Tetrachloroethane	20.0	34.9	174.3		8	184
Tetrachloroethane	10.0	12.0	120.1		26	162
1,1,1-Trichloroethane	10.0	11.7	117.2		41	138
1,1,2-Trichloroethane	10.0	11.6	115.8		39	136
Trichloroethene	10.0	11.8	118.3		35	146
Trichlorofluoromethane	10.0	13.2	131.7		21	156
Vinyl Chloride	10.0	14.0	139.9		28	163

Method: 602

Filename : 1070207/025R

Compound	SA	Result	Rec	LCS Limits	
	ug/L	ug/L	(%)	Lower	Upper
Benzene	10.0	11.0	109.9	39	150
Chlorobenzene	10.0	10.9	109.0	55	135
1,2-Dichlorobenzene	20.0	21.9	109.3	37	154
1,3-Dichlorobenzene	10.0	10.9	109.2	50	141
1,4-Dichlorobenzene	20.0	22.1	110.7	42	143
Diisopropyl ether	10.0	10.8	108.1	30	170
Ethylbenzene	10.0	11.2	112.0	32	160
MTBE	20.0	21.5	107.3	35	165
Toluene	10.0	11.0	110.0	46	148
m,p-Xylene	20.0	22.2	111.2	0	239
o-Xylene	20.0	22.2	111.2	36	164

Flags :

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

Summary Results for MS-MSD

Method : 601

Sample : 1070207/038F::1070207/038R

MS : 1070207/040F::1070207/040R

MSD : 1070207/041F::1070207/041R

Compound	SA	µg/L			REC(%)		REC Limits	
		Sam.	MS	MSD	MS	MSD	Lower	Upper
Bromodichloromethane	10.0	ND	10.5	10.5	105	105	42	172
Bromoform	10.0	ND	11.0	10.5	110	105	13	159
Bromomethane	10.0	ND	11.1	11.1	111	111	D	144
Carbon tetrachloride	20.0	ND	21.9	20.8	109	104	43	143
Chlorobenzene	10.0	ND	11.2	10.9	112	109	38	150
Chloroethane	10.0	ND	13.3	13.4	133	134	46	137
Chloroform	10.0	ND	11.0	10.5	110	105	49	133
Chloromethane	10.0	ND	15.8	16.4	159	165	D	193
Dibromochloromethane	10.0	ND	11.0	10.8	110	108	24	191
1,2-Dibromoethane	10.0	ND	11.1	10.9	111	109	D	206
1,2-Dichlorobenzene	10.0	ND	11.5	11.2	115	112	D	208
1,3-Dichlorobenzene	10.0	ND	11.2	10.7	112	107	7	187
1,4-Dichlorobenzene	10.0	ND	11.4	11.1	114	111	42	143
1,1-Dichloroethane	10.0	ND	10.9	10.7	109	107	47	132
1,2-Dichloroethane	10.0	ND	11.0	10.6	110	106	51	147
1,1-Dichloroethene	10.0	ND	11.1	10.6	111	106	28	167
cis-1,2-Dichloroethene	20.0	ND	20.1	19.1	100	95	19	181
trans-1,2-Dichloroethene	10.0	ND	11.0	10.3	110	103	38	155
1,2-Dichloropropane	10.0	1.21	11.4	11.2	102	99	44	156
cis-1,3-Dichloropropene	10.0	ND	10.2	10.1	102	101	22	178
trans-1,3-Dichloropropene	10.0	ND	10.2	9.8	102	98	22	178
Methylene Chloride	10.0	ND	13.0	12.4	120	114	25	162
1,1,2,2-Tetrachloroethane	20.0	ND	33.2	32.6	166	163	8	184
Tetrachloroethane	20.0	ND	22.0	21.0	115	110	26	162
1,1,1-Trichloroethane	10.0	ND	10.8	10.6	108	106	41	138
1,1,2-Trichloroethane	10.0	ND	11.2	10.8	112	108	39	136
Trichloroethene	10.0	ND	10.9	10.5	109	105	35	146
Trichlorofluoromethane	10.0	ND	13.0	12.9	130	129	21	156
Vinyl Chloride	10.0	ND	13.0	12.8	138	136	28	163

Method: 602

Compound	SA	µg/L			P(%)		P Limits	
		Sam.	MS	MSD	MS	MSD	Lower	Upper
Benzene	10.0	1.7	11.9	11.5	103	99	39	150
Chlorobenzene	10.0	ND	10.4	10.1	103	100	55	135
1,2-Dichlorobenzene	20.0	4.1	24.7	24.1	103	100	37	154
1,3-Dichlorobenzene	10.0	ND	10.3	10.2	103	101	50	141
1,4-Dichlorobenzene	20.0	ND	19.1	19.2	96	96	42	143
Diisopropyl ether	10.0	1.1	12.7	12.3	116	112	30	170
Ethylbenzene	10.0	9.0	19.7	19.5	107	105	32	160
MTBE	20.0	ND	20.0	19.5	100	98	35	165
Toluene	10.0	2.8	13.3	12.9	105	102	46	148
m,p-Xylene	20.0	35.6	56.9	56.4	106	104	D	239
o-Xylene	20.0	2.8	24.1	23.9	106	105	36	164

Flags :

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

**Results for Volatiles**

by GC 602

Client Sample ID: Method Blank

Analyzed By: RSB

Client Project ID:

Date Collected:

Lab Sample ID: VBLK1070307A

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	7/3/2007	
Diisopropyl ether (DIPE)	BQL	1.00	0.229	1	7/3/2007	
Ethylbenzene	BQL	1.00	0.181	1	7/3/2007	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.359	1	7/3/2007	
Toluene	BQL	1.00	0.157	1	7/3/2007	
m/p-Xylene	BQL	2.00	0.481	1	7/3/2007	
o-Xylene	BQL	2.00	0.584	1	7/3/2007	

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.

Summary Results for Laboratory Control Spike

Method : 601

Filename : 1070307/004F

Compound	SA	Result	Rec	F	LCS Limits	
	ug/L	ug/L	(%)		Lower	Upper
Bromodichloromethane	10.0	8.8	88.0		42	172
Bromoform	10.0	8.9	88.6		13	159
Bromomethane	10.0	8.4	83.7		0	144
Carbon tetrachloride	20.0	17.9	89.7		43	143
Chlorobenzene	10.0	9.2	92.3		38	150
Chloroethane	10.0	9.5	95.5		46	137
Chloroform	10.0	9.1	91.2		49	133
Chloromethane	10.0	10.4	103.9		0	193
Dibromochloromethane	10.0	9.2	91.5		24	191
1,2-Dibromoethane	10.0	9.1	91.2		0	206
1,2-Dichlorobenzene	10.0	9.5	95.2		0	208
1,3-Dichlorobenzene	10.0	9.5	94.7		7	187
1,4-Dichlorobenzene	10.0	9.7	97.2		42	143
1,1-Dichloroethane	10.0	9.1	91.4		47	132
1,2-Dichloroethane	10.0	9.1	91.1		51	147
1,1-Dichloroethene	10.0	9.2	91.7		28	167
cis-1,2-Dichloroethene	20.0	19.0	95.0		19	181
trans-1,2-Dichloroethene	10.0	9.2	91.9		38	155
1,2-Dichloropropane	10.0	9.7	97.3		44	156
cis-1,3-Dichloropropene	10.0	8.9	88.9		22	178
trans-1,3-Dichloropropene	10.0	9.0	90.0		22	178
Methylene Chloride	10.0	9.0	90.3		25	162
1,1,2,2-Tetrachloroethane	20.0	27.0	134.8		8	184
Tetrachloroethane	10.0	9.3	93.4		26	162
1,1,1-Trichloroethane	10.0	9.0	90.4		41	138
1,1,2-Trichloroethane	10.0	9.3	93.2		39	136
Trichloroethene	10.0	9.0	90.3		35	146
Trichlorofluoromethane	10.0	9.6	95.7		21	156
Vinyl Chloride	10.0	9.8	98.0		28	163

Method: 602

Filename : 1070307/004R

Compound	SA	Result	Rec	LCS Limits	
	ug/L	ug/L	(%)	Lower	Upper
Benzene	10.0	8.5	84.7	39	150
Chlorobenzene	10.0	8.6	86.0	55	135
1,2-Dichlorobenzene	20.0	17.5	87.5	37	154
1,3-Dichlorobenzene	10.0	8.6	86.3	50	141
1,4-Dichlorobenzene	20.0	17.2	86.1	42	143
Diisopropyl ether	10.0	8.3	83.2	30	170
Ethylbenzene	10.0	8.8	88.3	32	160
MTBE	20.0	16.7	83.3	35	165
Toluene	10.0	8.7	86.6	46	148
m,p-Xylene	20.0	17.7	88.5	0	239
o-Xylene	20.0	17.5	87.6	36	164

Flags :

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

Summary Results for QC Check

Method : 601

Filename : 1070307/002F

Compound	SA	Result	Rec	F	QC Limits	
	ug/L	ug/L	(%)		Lower	Upper
Bromodichloromethane	20.0	21.5	107.4		76.0	124.0
Bromoform	20.0	21.3	106.7		73.5	126.5
Bromomethane	20.0	23.6	117.9		58.5	141.5
Carbon tetrachloride	40.0	42.5	106.3		68.5	131.5
Chlorobenzene	20.0	22.7	113.5		72.0	128.0
Chloroethane	20.0	24.0	120.2		77.0	123.0
Chloroform	20.0	21.5	107.6		75.0	125.0
Chloromethane	20.0	24.6	122.9		59.5	140.5
Dibromochloromethane	20.0	21.6	107.8		65.5	134.5
• 1,2-Dibromoethane	20.0	22.7	113.4		13.6	186.4
1,2-Dichlorobenzene	20.0	22.0	110.2		70.0	130.0
1,3-Dichlorobenzene	20.0	21.9	109.3		49.5	150.5
1,4-Dichlorobenzene	20.0	21.9	109.7		69.5	130.5
1,1-Dichloroethane	20.0	21.7	108.7		84.0	116.0
1,2-Dichloroethane	20.0	21.4	107.2		71.5	128.5
1,1-Dichloroethene	20.0	22.0	110.1		63.0	137.0
• cis-1,2-Dichloroethene	40.0	46.1	115.2		34.4	180.6
trans-1,2-Dichloroethene	20.0	22.1	110.3		64.0	136.0
1,2-Dichloropropane	20.0	21.6	108.0		74.0	126.0
cis-1,3-Dichloropropene	20.0	21.9	109.7		64.0	136.0
trans-1,3-Dichloropropene	20.0	21.6	107.9		64.0	136.0
Methylene Chloride	20.0	21.4	107.0		77.5	122.5
1,1,2,2-Tetrachloroethane	60.0	65.3	108.8		49.0	151.0
Tetrachloroethene	40.0	43.0	107.6		70.0	130.0
1,1,1-Trichloroethane	20.0	21.7	108.7		71.0	129.0
1,1,2-Trichloroethane	20.0	21.4	107.0		78.5	121.5
Trichloroethene	20.0	21.7	108.5		77.0	123.0
Trichlorofluoromethane	20.0	24.5	122.3		66.5	133.5
Vinyl Chloride	20.0	23.6	118.2		68.5	131.5

Method: 602

Filename : 1070307/002R

Compound	SA	Result	Rec		QC Limits	
	ug/L	ug/L	(%)		Lower	Upper
Benzene	20.0	19.9	99.5		77.0	123.0
Chlorobenzene	20.0	19.7	98.4		80.5	119.5
1,2-Dichlorobenzene	40.0	40.2	100.5		68.0	132.0
1,3-Dichlorobenzene	20.0	19.8	99.0		72.5	127.5
1,4-Dichlorobenzene	40.0	40.2	100.5		69.5	130.5
• Diisopropyl ether	20.0	19.6	97.8		43.1	156.9
Ethylbenzene	20.0	20.3	101.3		63.0	137.0
• MTBE	40.0	38.9	97.2		46.8	153.2
Toluene	20.0	20.0	100.1		77.5	127.0
• m,p-Xylene	40.0	40.6	101.5		11.2	188.8
• o-Xylene	40.0	40.4	101.1		47.6	152.4

Flags :

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

Summary Results for MS-MSD

Method : 601

Sample : 1070307/017F::1070307/017R

MS : 1070307/019F::1070307/019R

MSD : 1070307/020F::1070307/020R

Compound	SA	µg/L			REC(%)		REC Limits	
		Sam.	MS	MSD	MS	MSD	Lower	Upper
Bromodichloromethane	10.0	ND	10.3	9.2	103	92	42	172
Bromoform	10.0	ND	10.3	10.4	103	104	13	159
Bromomethane	10.0	ND	9.3	10.5	93	105	D	144
Carbon tetrachloride	20.0	ND	21.4	20.8	107	104	43	143
Chlorobenzene	10.0	ND	11.0	11.1	110	111	38	150
Chloroethane	10.0	ND	10.8	12.7	108	127	46	137
Chloroform	10.0	ND	10.7	10.4	107	104	49	133
Chloromethane	10.0	ND	12.5	14.1	127	143	D	193
Dibromochloromethane	10.0	ND	10.6	10.6	106	106	24	191
1,2-Dibromoethane	10.0	ND	9.7	10.8	97	108	D	206
1,2-Dichlorobenzene	10.0	ND	11.2	10.8	112	108	D	208
1,3-Dichlorobenzene	10.0	ND	11.1	11.0	111	110	7	187
1,4-Dichlorobenzene	10.0	ND	11.3	11.0	113	110	42	143
1,1-Dichloroethane	10.0	ND	10.8	10.3	108	103	47	132
1,2-Dichloroethane	10.0	ND	11.0	10.6	110	106	51	147
1,1-Dichloroethene	10.0	ND	10.6	10.8	106	108	28	167
cis-1,2-Dichloroethene	20.0	ND	21.9	21.2	110	106	19	181
trans-1,2-Dichloroethene	10.0	ND	10.5	10.2	105	102	38	155
1,2-Dichloropropane	10.0	1.31	11.1	10.9	98	96	44	156
cis-1,3-Dichloropropene	10.0	ND	10.6	10.2	106	102	22	178
trans-1,3-Dichloropropene	10.0	ND	10.2	10.1	102	101	22	178
Methylene Chloride	10.0	ND	10.8	10.7	115	114	25	162
1,1,2,2-Tetrachloroethane	20.0	ND	33.2	32.5	166	162	8	184
Tetrachloroethane	20.0	ND	21.3	21.0	112	111	26	162
1,1,1-Trichloroethane	10.0	ND	10.7	10.5	107	105	41	138
1,1,2-Trichloroethane	10.0	ND	10.7	10.4	107	104	39	136
Trichloroethene	10.0	ND	10.5	10.5	105	105	35	146
Trichlorofluoromethane	10.0	ND	10.2	11.8	102	118	21	156
Vinyl Chloride	10.0	ND	10.7	12.2	107	122	28	163

Method: 602

Compound	SA	µg/L			P(%)		P Limits	
		Sam.	MS	MSD	MS	MSD	Lower	Upper
Benzene	10.0	3.1	13.3	13.1	103	101	39	150
Chlorobenzene	10.0	ND	10.0	9.7	101	98	55	135
1,2-Dichlorobenzene	20.0	3.5	23.9	23.4	102	100	37	154
1,3-Dichlorobenzene	10.0	ND	10.4	10.2	101	99	50	141
1,4-Dichlorobenzene	20.0	ND	19.2	19.0	96	95	42	143
Diisopropyl ether	10.0	ND	9.9	9.7	99	97	30	170
Ethylbenzene	10.0	17.2	27.5	26.9	103	97	32	160
MTBE	20.0	ND	19.7	19.2	99	97	35	165
Toluene	10.0	ND	10.6	10.3	104	101	46	148
m,p-Xylene	20.0	42.9	63.3	61.5	102	93	D	239
o-Xylene	20.0	ND	21.7	21.1	104	101	36	164

Flags :

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

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTM232-236-Duplicate
Client Project ID: NV019
Lab Sample ID: G650-116-2H
Lab Project ID: G650-116

Analyzed By: EAW
Date Collected: 6/21/2007 0:00
Date Received: 6/22/2007
Date Extracted: 6/27/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	6/29/2007	
Acenaphthylene	BQL	10.0	1.12	1	6/29/2007	
Anthracene	BQL	10.0	1.75	1	6/29/2007	
Benzo[a]anthracene	BQL	10.0	1.36	1	6/29/2007	
Benzo[a]pyrene	BQL	10.0	1.27	1	6/29/2007	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	6/29/2007	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	6/29/2007	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	6/29/2007	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	6/29/2007	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	6/29/2007	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	6/29/2007	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	6/29/2007	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	6/29/2007	
Butylbenzylphthalate	BQL	10.0	1.53	1	6/29/2007	
2-Chloronaphthalene	BQL	10.0	1.25	1	6/29/2007	
2-Chlorophenol	BQL	10.0	4.22	1	6/29/2007	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	6/29/2007	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	6/29/2007	
Chrysene	BQL	10.0	1.11	1	6/29/2007	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	6/29/2007	
Di-n-Butylphthalate	BQL	10.0	1.65	1	6/29/2007	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	6/29/2007	
2,4-Dichlorophenol	BQL	10.0	3.75	1	6/29/2007	
Diethylphthalate	BQL	10.0	1.48	1	6/29/2007	
Dimethylphthalate	BQL	10.0	1.04	1	6/29/2007	
2,4-Dimethylphenol	BQL	10.0	9.25	1	6/29/2007	
Di-n-octylphthalate	BQL	10.0	1.16	1	6/29/2007	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	6/29/2007	
2,4-Dinitrophenol	BQL	50.0	4.20	1	6/29/2007	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	6/29/2007	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	6/29/2007	
Diphenylamine *	BQL	10.0	1.53	1	6/29/2007	
Fluoranthene	BQL	10.0	1.41	1	6/29/2007	
Fluorene	BQL	10.0	1.22	1	6/29/2007	
Hexachlorobenzene	BQL	10.0	1.22	1	6/29/2007	
Hexachlorobutadiene	BQL	10.0	1.58	1	6/29/2007	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	6/29/2007	
Hexachloroethane	BQL	10.0	1.58	1	6/29/2007	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	6/29/2007	
Isophorone	BQL	10.0	1.27	1	6/29/2007	
Naphthalene	BQL	10.0	1.08	1	6/29/2007	
Nitrobenzene	BQL	10.0	1.32	1	6/29/2007	
2-Nitrophenol	BQL	10.0	3.52	1	6/29/2007	
4-Nitrophenol	BQL	50.0	3.17	1	6/29/2007	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	6/29/2007	
Pentachlorophenol	BQL	50.0	2.83	1	6/29/2007	
Phenanthrene	BQL	10.0	1.38	1	6/29/2007	

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTM232-236-Duplicate
Client Project ID: NV019
Lab Sample ID: G650-116-2H
Lab Project ID: G650-116

Analyzed By: EAW
Date Collected: 6/21/2007 0:00
Date Received: 6/22/2007
Date Extracted: 6/27/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Phenol	BQL	10.0	3.38	1	6/29/2007	
Pyrene	BQL	10.0	2.08	1	6/29/2007	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	6/29/2007	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	6/29/2007	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	8.4	84		
2-Fluorophenol		10	8	80		
Nitrobenzene-d5		10	8.9	89		
Phenol-d6		10	8.6	86		
2,4,6-Tribromophenol		10	9.3	93		
4-Terphenyl-d14		10	10.2	102		

Comments:

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

Flags:

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By: DB?

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

Client Sample ID: USTM232-236-Duplicate
Client Project ID: NV019
Lab Sample ID: G650-116-2H
Lab Project ID: G650-116
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: EAW
Date Collected: 6/21/2007 0:00
Date Received: 6/22/2007
Date Extracted: 6/27/2007
Date Analyzed: 6/29/2007
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: *RW*

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTM232-236-MW01
Client Project ID: NV019
Lab Sample ID: G650-116-3H
Lab Project ID: G650-116

Analyzed By: EAW
Date Collected: 6/21/2007 9:40
Date Received: 6/22/2007
Date Extracted: 6/27/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	6/29/2007	
Acenaphthylene	BQL	10.0	1.12	1	6/29/2007	
Anthracene	BQL	10.0	1.75	1	6/29/2007	
Benzo[a]anthracene	BQL	10.0	1.36	1	6/29/2007	
Benzo[a]pyrene	BQL	10.0	1.27	1	6/29/2007	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	6/29/2007	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	6/29/2007	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	6/29/2007	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	6/29/2007	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	6/29/2007	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	6/29/2007	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	6/29/2007	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	6/29/2007	
Butylbenzylphthalate	BQL	10.0	1.53	1	6/29/2007	
2-Chloronaphthalene	BQL	10.0	1.25	1	6/29/2007	
2-Chlorophenol	BQL	10.0	4.22	1	6/29/2007	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	6/29/2007	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	6/29/2007	
Chrysene	BQL	10.0	1.11	1	6/29/2007	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	6/29/2007	
Di-n-Butylphthalate	BQL	10.0	1.65	1	6/29/2007	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	6/29/2007	
2,4-Dichlorophenol	BQL	10.0	3.75	1	6/29/2007	
Diethylphthalate	BQL	10.0	1.48	1	6/29/2007	
Dimethylphthalate	BQL	10.0	1.04	1	6/29/2007	
2,4-Dimethylphenol	BQL	10.0	9.25	1	6/29/2007	
Di-n-octylphthalate	BQL	10.0	1.16	1	6/29/2007	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	6/29/2007	
2,4-Dinitrophenol	BQL	50.0	4.20	1	6/29/2007	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	6/29/2007	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	6/29/2007	
Diphenylamine *	BQL	10.0	1.53	1	6/29/2007	
Fluoranthene	BQL	10.0	1.41	1	6/29/2007	
Fluorene	BQL	10.0	1.22	1	6/29/2007	
Hexachlorobenzene	BQL	10.0	1.22	1	6/29/2007	
Hexachlorobutadiene	BQL	10.0	1.58	1	6/29/2007	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	6/29/2007	
Hexachloroethane	BQL	10.0	1.58	1	6/29/2007	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	6/29/2007	
Isophorone	BQL	10.0	1.27	1	6/29/2007	
Naphthalene	BQL	10.0	1.08	1	6/29/2007	
Nitrobenzene	BQL	10.0	1.32	1	6/29/2007	
2-Nitrophenol	BQL	10.0	3.52	1	6/29/2007	
4-Nitrophenol	BQL	50.0	3.17	1	6/29/2007	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	6/29/2007	
Pentachlorophenol	BQL	50.0	2.83	1	6/29/2007	
Phenanthrene	BQL	10.0	1.38	1	6/29/2007	

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTM232-236-MW01
Client Project ID: NV019
Lab Sample ID: G650-116-3H
Lab Project ID: G650-116

Analyzed By: EAW
Date Collected: 6/21/2007 9:40
Date Received: 6/22/2007
Date Extracted: 6/27/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Phenol	BQL	10.0	3.38	1	6/29/2007	
Pyrene	BQL	10.0	2.08	1	6/29/2007	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	6/29/2007	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	6/29/2007	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	8.3	83		
2-Fluorophenol		10	7.1	71		
Nitrobenzene-d5		10	8.2	82		
Phenol-d6		10	7.9	79		
2,4,6-Tribromophenol		10	6.9	69		
4-Terphenyl-d14		10	10.9	109		

Comments:

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

Flags:

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By: LEV

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

Client Sample ID: USTM232-236-MW01
Client Project ID: NV019
Lab Sample ID: G650-116-3H
Lab Project ID: G650-116
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: EAW
Date Collected: 6/21/2007 9:40
Date Received: 6/22/2007
Date Extracted: 6/27/2007
Date Analyzed: 6/29/2007
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: Rv1

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTM232-236-MW09
Client Project ID: NV019
Lab Sample ID: G650-116-4H
Lab Project ID: G650-116

Analyzed By: EAW
Date Collected: 6/21/2007 11:00
Date Received: 6/22/2007
Date Extracted: 6/27/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	6/30/2007	
Acenaphthylene	BQL	10.0	1.12	1	6/30/2007	
Anthracene	BQL	10.0	1.75	1	6/30/2007	
Benzo[a]anthracene	BQL	10.0	1.36	1	6/30/2007	
Benzo[a]pyrene	BQL	10.0	1.27	1	6/30/2007	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	6/30/2007	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	6/30/2007	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	6/30/2007	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	6/30/2007	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	6/30/2007	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	6/30/2007	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	6/30/2007	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	6/30/2007	
Butylbenzylphthalate	BQL	10.0	1.53	1	6/30/2007	
2-Chloronaphthalene	BQL	10.0	1.25	1	6/30/2007	
2-Chlorophenol	BQL	10.0	4.22	1	6/30/2007	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	6/30/2007	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	6/30/2007	
Chrysene	BQL	10.0	1.11	1	6/30/2007	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	6/30/2007	
Di-n-Butylphthalate	BQL	10.0	1.65	1	6/30/2007	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	6/30/2007	
2,4-Dichlorophenol	BQL	10.0	3.75	1	6/30/2007	
Diethylphthalate	BQL	10.0	1.48	1	6/30/2007	
Dimethylphthalate	BQL	10.0	1.04	1	6/30/2007	
2,4-Dimethylphenol	BQL	10.0	9.25	1	6/30/2007	
Di-n-octylphthalate	BQL	10.0	1.16	1	6/30/2007	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	6/30/2007	
2,4-Dinitrophenol	BQL	50.0	4.20	1	6/30/2007	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	6/30/2007	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	6/30/2007	
Diphenylamine *	BQL	10.0	1.53	1	6/30/2007	
Fluoranthene	BQL	10.0	1.41	1	6/30/2007	
Fluorene	BQL	10.0	1.22	1	6/30/2007	
Hexachlorobenzene	BQL	10.0	1.22	1	6/30/2007	
Hexachlorobutadiene	BQL	10.0	1.58	1	6/30/2007	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	6/30/2007	
Hexachloroethane	BQL	10.0	1.58	1	6/30/2007	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	6/30/2007	
Isophorone	BQL	10.0	1.27	1	6/30/2007	
Naphthalene	BQL	10.0	1.08	1	6/30/2007	
Nitrobenzene	BQL	10.0	1.32	1	6/30/2007	
2-Nitrophenol	BQL	10.0	3.52	1	6/30/2007	
4-Nitrophenol	BQL	50.0	3.17	1	6/30/2007	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	6/30/2007	
Pentachlorophenol	BQL	50.0	2.83	1	6/30/2007	
Phenanthrene	BQL	10.0	1.38	1	6/30/2007	

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTM232-236-MW09
Client Project ID: NV019
Lab Sample ID: G650-116-4H
Lab Project ID: G650-116

Analyzed By: EAW
Date Collected: 6/21/2007 11:00
Date Received: 6/22/2007
Date Extracted: 6/27/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Phenol	BQL	10.0	3.38	1	6/30/2007	
Pyrene	BQL	10.0	2.08	1	6/30/2007	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	6/30/2007	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	6/30/2007	
		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	8.4	84		
2,4,6-Tribromophenol		10	8	80		
4-Terphenyl-d14		10	10.8	108		

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: USTM232-236-MW09
Client Project ID: NV019
Lab Sample ID: G650-116-4H
Lab Project ID: G650-116
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: EAW
Date Collected: 6/21/2007 11:00
Date Received: 6/22/2007
Date Extracted: 6/27/2007
Date Analyzed: 6/30/2007
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Unknown	11.04			141
2	Unknown	5.43			17.6
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: r2v?

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTM232-236-MW15
Client Project ID: NV019
Lab Sample ID: G650-116-5H
Lab Project ID: G650-116

Analyzed By: EAW
Date Collected: 6/21/2007 12:15
Date Received: 6/22/2007
Date Extracted: 6/27/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	6/30/2007	
Acenaphthylene	BQL	10.0	1.12	1	6/30/2007	
Anthracene	BQL	10.0	1.75	1	6/30/2007	
Benzo[a]anthracene	BQL	10.0	1.36	1	6/30/2007	
Benzo[a]pyrene	BQL	10.0	1.27	1	6/30/2007	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	6/30/2007	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	6/30/2007	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	6/30/2007	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	6/30/2007	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	6/30/2007	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	6/30/2007	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	6/30/2007	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	6/30/2007	
Butylbenzylphthalate	BQL	10.0	1.53	1	6/30/2007	
2-Chloronaphthalene	BQL	10.0	1.25	1	6/30/2007	
2-Chlorophenol	BQL	10.0	4.22	1	6/30/2007	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	6/30/2007	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	6/30/2007	
Chrysene	BQL	10.0	1.11	1	6/30/2007	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	6/30/2007	
Di-n-Butylphthalate	BQL	10.0	1.65	1	6/30/2007	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	6/30/2007	
2,4-Dichlorophenol	BQL	10.0	3.75	1	6/30/2007	
Diethylphthalate	BQL	10.0	1.48	1	6/30/2007	
Dimethylphthalate	BQL	10.0	1.04	1	6/30/2007	
2,4-Dimethylphenol	BQL	10.0	9.25	1	6/30/2007	
Di-n-octylphthalate	BQL	10.0	1.16	1	6/30/2007	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	6/30/2007	
2,4-Dinitrophenol	BQL	50.0	4.20	1	6/30/2007	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	6/30/2007	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	6/30/2007	
Diphenylamine *	BQL	10.0	1.53	1	6/30/2007	
Fluoranthene	BQL	10.0	1.41	1	6/30/2007	
Fluorene	BQL	10.0	1.22	1	6/30/2007	
Hexachlorobenzene	BQL	10.0	1.22	1	6/30/2007	
Hexachlorobutadiene	BQL	10.0	1.58	1	6/30/2007	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	6/30/2007	
Hexachloroethane	BQL	10.0	1.58	1	6/30/2007	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	6/30/2007	
Isophorone	BQL	10.0	1.27	1	6/30/2007	
Naphthalene	BQL	10.0	1.08	1	6/30/2007	
Nitrobenzene	BQL	10.0	1.32	1	6/30/2007	
2-Nitrophenol	BQL	10.0	3.52	1	6/30/2007	
4-Nitrophenol	BQL	50.0	3.17	1	6/30/2007	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	6/30/2007	
Pentachlorophenol	BQL	50.0	2.83	1	6/30/2007	
Phenanthrene	BQL	10.0	1.38	1	6/30/2007	

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTM232-236-MW15
Client Project ID: NV019
Lab Sample ID: G650-116-5H
Lab Project ID: G650-116

Analyzed By: EAW
Date Collected: 6/21/2007 12:15
Date Received: 6/22/2007
Date Extracted: 6/27/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Phenol	BQL	10.0	3.38	1	6/30/2007	
Pyrene	BQL	10.0	2.08	1	6/30/2007	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	6/30/2007	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	6/30/2007	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	8.1	81		
2-Fluorophenol		10	7.5	75		
Nitrobenzene-d5		10	8.1	81		
Phenol-d6		10	8	80		
2,4,6-Tribromophenol		10	7.1	71		
4-Terphenyl-d14		10	12	120		

Comments:

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

Flags:

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By: *ELW*

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

Client Sample ID: USTM232-236-MW15
Client Project ID: NV019
Lab Sample ID: G650-116-5H
Lab Project ID: G650-116
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: EAW
Date Collected: 6/21/2007 12:15
Date Received: 6/22/2007
Date Extracted: 6/27/2007
Date Analyzed: 6/30/2007
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Unknown	11.04			135
2	Unknown	5.43			17.8
3	Unknown	7.72			4.9
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: r21

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTM232-236-MW08
Client Project ID: NV019
Lab Sample ID: G650-116-6H
Lab Project ID: G650-116

Analyzed By: EAW
Date Collected: 6/21/2007 15:10
Date Received: 6/22/2007
Date Extracted: 6/27/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	6/30/2007	
Acenaphthylene	BQL	10.0	1.12	1	6/30/2007	
Anthracene	BQL	10.0	1.75	1	6/30/2007	
Benzo[a]anthracene	BQL	10.0	1.36	1	6/30/2007	
Benzo[a]pyrene	BQL	10.0	1.27	1	6/30/2007	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	6/30/2007	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	6/30/2007	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	6/30/2007	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	6/30/2007	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	6/30/2007	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	6/30/2007	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	6/30/2007	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	6/30/2007	
Butylbenzylphthalate	BQL	10.0	1.53	1	6/30/2007	
2-Chloronaphthalene	BQL	10.0	1.25	1	6/30/2007	
2-Chlorophenol	BQL	10.0	4.22	1	6/30/2007	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	6/30/2007	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	6/30/2007	
Chrysene	BQL	10.0	1.11	1	6/30/2007	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	6/30/2007	
Di-n-Butylphthalate	BQL	10.0	1.65	1	6/30/2007	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	6/30/2007	
2,4-Dichlorophenol	BQL	10.0	3.75	1	6/30/2007	
Diethylphthalate	BQL	10.0	1.48	1	6/30/2007	
Dimethylphthalate	BQL	10.0	1.04	1	6/30/2007	
2,4-Dimethylphenol	BQL	10.0	9.25	1	6/30/2007	
Di-n-octylphthalate	BQL	10.0	1.16	1	6/30/2007	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	6/30/2007	
2,4-Dinitrophenol	BQL	50.0	4.20	1	6/30/2007	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	6/30/2007	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	6/30/2007	
Diphenylamine *	BQL	10.0	1.53	1	6/30/2007	
Fluoranthene	BQL	10.0	1.41	1	6/30/2007	
Fluorene	BQL	10.0	1.22	1	6/30/2007	
Hexachlorobenzene	BQL	10.0	1.22	1	6/30/2007	
Hexachlorobutadiene	BQL	10.0	1.58	1	6/30/2007	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	6/30/2007	
Hexachloroethane	BQL	10.0	1.58	1	6/30/2007	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	6/30/2007	
Isophorone	BQL	10.0	1.27	1	6/30/2007	
Naphthalene	BQL	10.0	1.08	1	6/30/2007	
Nitrobenzene	BQL	10.0	1.32	1	6/30/2007	
2-Nitrophenol	BQL	10.0	3.52	1	6/30/2007	
4-Nitrophenol	BQL	50.0	3.17	1	6/30/2007	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	6/30/2007	
Pentachlorophenol	BQL	50.0	2.83	1	6/30/2007	
Phenanthrene	BQL	10.0	1.38	1	6/30/2007	

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTM232-236-MW08
Client Project ID: NV019
Lab Sample ID: G650-116-6H
Lab Project ID: G650-116

Analyzed By: EAW
Date Collected: 6/21/2007 15:10
Date Received: 6/22/2007
Date Extracted: 6/27/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Phenol	BQL	10.0	3.38	1	6/30/2007	
Pyrene	BQL	10.0	2.08	1	6/30/2007	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	6/30/2007	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	6/30/2007	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	8.1	81		
2-Fluorophenol		10	7.9	79		
Nitrobenzene-d5		10	8.5	85		
Phenol-d6		10	8.2	82		
2,4,6-Tribromophenol		10	7.2	72		
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: EW

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

Client Sample ID: USTM232-236-MW08
Client Project ID: NV019
Lab Sample ID: G650-116-6H
Lab Project ID: G650-116
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: EAW
Date Collected: 6/21/2007 15:10
Date Received: 6/22/2007
Date Extracted: 6/27/2007
Date Analyzed: 6/30/2007
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Unknown	11.04			134
2	Unknown	5.43			19.2
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: Rnd

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTM232-236-MW18
Client Project ID: NV019
Lab Sample ID: G650-116-7H
Lab Project ID: G650-116

Analyzed By: EAW
Date Collected: 6/21/2007 14:55
Date Received: 6/22/2007
Date Extracted: 6/27/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	5.90	10.0	1.22	1	6/30/2007	J
Acenaphthylene	BQL	10.0	1.12	1	6/30/2007	
Anthracene	BQL	10.0	1.75	1	6/30/2007	
Benzo[a]anthracene	BQL	10.0	1.36	1	6/30/2007	
Benzo[a]pyrene	BQL	10.0	1.27	1	6/30/2007	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	6/30/2007	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	6/30/2007	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	6/30/2007	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	6/30/2007	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	6/30/2007	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	6/30/2007	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	6/30/2007	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	6/30/2007	
Butylbenzylphthalate	BQL	10.0	1.53	1	6/30/2007	
2-Chloronaphthalene	BQL	10.0	1.25	1	6/30/2007	
2-Chlorophenol	BQL	10.0	4.22	1	6/30/2007	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	6/30/2007	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	6/30/2007	
Chrysene	BQL	10.0	1.11	1	6/30/2007	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	6/30/2007	
Di-n-Butylphthalate	BQL	10.0	1.65	1	6/30/2007	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	6/30/2007	
2,4-Dichlorophenol	BQL	10.0	3.75	1	6/30/2007	
Diethylphthalate	BQL	10.0	1.48	1	6/30/2007	
Dimethylphthalate	BQL	10.0	1.04	1	6/30/2007	
2,4-Dimethylphenol	BQL	10.0	9.25	1	6/30/2007	
Di-n-octylphthalate	BQL	10.0	1.16	1	6/30/2007	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	6/30/2007	
2,4-Dinitrophenol	BQL	50.0	4.20	1	6/30/2007	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	6/30/2007	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	6/30/2007	
Diphenylamine *	BQL	10.0	1.53	1	6/30/2007	
Fluoranthene	BQL	10.0	1.41	1	6/30/2007	
Fluorene	8.60	10.0	1.22	1	6/30/2007	J
Hexachlorobenzene	BQL	10.0	1.22	1	6/30/2007	
Hexachlorobutadiene	BQL	10.0	1.58	1	6/30/2007	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	6/30/2007	
Hexachloroethane	BQL	10.0	1.58	1	6/30/2007	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	6/30/2007	
Isophorone	BQL	10.0	1.27	1	6/30/2007	
Naphthalene	5.70	10.0	1.08	1	6/30/2007	J
Nitrobenzene	BQL	10.0	1.32	1	6/30/2007	
2-Nitrophenol	BQL	10.0	3.52	1	6/30/2007	
4-Nitrophenol	BQL	50.0	3.17	1	6/30/2007	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	6/30/2007	
Pentachlorophenol	BQL	50.0	2.83	1	6/30/2007	
Phenanthrene	3.40	10.0	1.38	1	6/30/2007	J

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTM232-236-MW18
Client Project ID: NV019
Lab Sample ID: G650-116-7H
Lab Project ID: G650-116

Analyzed By: EAW
Date Collected: 6/21/2007 14:55
Date Received: 6/22/2007
Date Extracted: 6/27/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Phenol	BQL	10.0	3.38	1	6/30/2007	
Pyrene	BQL	10.0	2.08	1	6/30/2007	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	6/30/2007	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	6/30/2007	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	8.2	82		
2-Fluorophenol		10	8.5	85		
Nitrobenzene-d5		10	8.8	88		
Phenol-d6		10	8.7	87		
2,4,6-Tribromophenol		10	8.2	82		
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: Pr

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

Client Sample ID: USTM232-236-MW18
Client Project ID: NV019
Lab Sample ID: G650-116-7H
Lab Project ID: G650-116
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: EAW
Date Collected: 6/21/2007 14:55
Date Received: 6/22/2007
Date Extracted: 6/27/2007
Date Analyzed: 6/30/2007
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Unknown	11.05			148
2	Indane	6.49	000496-11-7	93	25.5
3	2,3-Dihydro-1-methylindene	7.75	027133-93-3	96	16.4
4	Aromatic, Unknown	8.23			14.6
5	Naphthalene, 1,2,3,4-tetrahydro-6-methyl-	9.17	001680-51-9	92	13
6	Naphthalene, 2,3-dimethyl-	10.36	000581-40-8	98	13
7	Unknown	5.43			8.98
8	Aromatic, Unknown	11.84			8.22
9	Naphthalene, 1,2,3,4-tetrahydro-	7.89	000119-64-2	91	6.32
10	Naphthalene, 1,2,3,4-tetrahydro-5,6-dimethyl-	10.08	020027-77-4	96	6.07

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: RL?

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTM232-236-MW20
Client Project ID: NV019
Lab Sample ID: G650-116-8H
Lab Project ID: G650-116

Analyzed By: EAW
Date Collected: 6/21/2007 16:30
Date Received: 6/22/2007
Date Extracted: 6/27/2007
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	6/30/2007	J
Acenaphthylene	BQL	10.0	1.12	1	6/30/2007	
Anthracene	BQL	10.0	1.75	1	6/30/2007	
Benzo[a]anthracene	BQL	10.0	1.36	1	6/30/2007	
Benzo[a]pyrene	BQL	10.0	1.27	1	6/30/2007	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	6/30/2007	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	6/30/2007	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	6/30/2007	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	6/30/2007	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	6/30/2007	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	6/30/2007	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	6/30/2007	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	6/30/2007	
Butylbenzylphthalate	BQL	10.0	1.53	1	6/30/2007	
2-Chloronaphthalene	BQL	10.0	1.25	1	6/30/2007	
2-Chlorophenol	BQL	10.0	4.22	1	6/30/2007	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	6/30/2007	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	6/30/2007	
Chrysene	BQL	10.0	1.11	1	6/30/2007	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	6/30/2007	
Di-n-Butylphthalate	BQL	10.0	1.65	1	6/30/2007	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	6/30/2007	
2,4-Dichlorophenol	BQL	10.0	3.75	1	6/30/2007	
Diethylphthalate	BQL	10.0	1.48	1	6/30/2007	
Dimethylphthalate	BQL	10.0	1.04	1	6/30/2007	
2,4-Dimethylphenol	BQL	10.0	9.25	1	6/30/2007	
Di-n-octylphthalate	BQL	10.0	1.16	1	6/30/2007	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	6/30/2007	
2,4-Dinitrophenol	BQL	50.0	4.20	1	6/30/2007	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	6/30/2007	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	6/30/2007	
Diphenylamine *	BQL	10.0	1.53	1	6/30/2007	
Fluoranthene	BQL	10.0	1.41	1	6/30/2007	
Fluorene	2.20	10.0	1.22	1	6/30/2007	J
Hexachlorobenzene	BQL	10.0	1.22	1	6/30/2007	
Hexachlorobutadiene	BQL	10.0	1.58	1	6/30/2007	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	6/30/2007	
Hexachloroethane	BQL	10.0	1.58	1	6/30/2007	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	6/30/2007	
Isophorone	BQL	10.0	1.27	1	6/30/2007	
Naphthalene	1.20	10.0	1.08	1	6/30/2007	J
Nitrobenzene	BQL	10.0	1.32	1	6/30/2007	
2-Nitrophenol	BQL	10.0	3.52	1	6/30/2007	
4-Nitrophenol	BQL	50.0	3.17	1	6/30/2007	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	6/30/2007	
Pentachlorophenol	BQL	50.0	2.83	1	6/30/2007	
Phenanthrene	BQL	10.0	1.38	1	6/30/2007	

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTM232-236-MW20
Client Project ID: NV019
Lab Sample ID: G650-116-8H
Lab Project ID: G650-116

Analyzed By: EAW
Date Collected: 6/21/2007 16:30
Date Received: 6/22/2007
Date Extracted: 6/27/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Phenol	BQL	10.0	3.38	1	6/30/2007	
Pyrene	BQL	10.0	2.08	1	6/30/2007	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	6/30/2007	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	6/30/2007	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	8	80		
2-Fluorophenol		10	8.1	81		
Nitrobenzene-d5		10	8.7	87		
Phenol-d6		10	8.4	84		
2,4,6-Tribromophenol		10	7.7	77		
4-Terphenyl-d14		10	12.2	122		

Comments:

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

Flags:

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By: M

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

Client Sample ID: USTM232-236-MW20
Client Project ID: NV019
Lab Sample ID: G650-116-8H
Lab Project ID: G650-116
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: EAW
Date Collected: 6/21/2007 16:30
Date Received: 6/22/2007
Date Extracted: 6/27/2007
Date Analyzed: 6/30/2007
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Unknown	11.05			141
2	1H-Indene, 2,3-dihydro-4-methyl-	7.75	000824-22-6	94	4.76
3	Aromatic, Unknown	9.17			4.36
4	1H-Indene, 2,3-dihydro-1,2-dimethyl-	8.23	017057-82-8	92	4.06
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: rw?

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTM232-236-MW05
Client Project ID: NV019
Lab Sample ID: G650-116-9H
Lab Project ID: G650-116

Analyzed By: EAW
Date Collected: 6/21/2007 16:55
Date Received: 6/22/2007
Date Extracted: 6/27/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	7/2/2007	
Acenaphthylene	BQL	10.0	1.12	1	7/2/2007	
Anthracene	BQL	10.0	1.75	1	7/2/2007	
Benzo[a]anthracene	BQL	10.0	1.36	1	7/2/2007	
Benzo[a]pyrene	BQL	10.0	1.27	1	7/2/2007	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	7/2/2007	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	7/2/2007	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	7/2/2007	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	7/2/2007	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	7/2/2007	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	7/2/2007	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	7/2/2007	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	7/2/2007	
Butylbenzylphthalate	BQL	10.0	1.53	1	7/2/2007	
2-Chloronaphthalene	BQL	10.0	1.25	1	7/2/2007	
2-Chlorophenol	BQL	10.0	4.22	1	7/2/2007	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	7/2/2007	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	7/2/2007	
Chrysene	BQL	10.0	1.11	1	7/2/2007	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	7/2/2007	
Di-n-Butylphthalate	BQL	10.0	1.65	1	7/2/2007	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	7/2/2007	
2,4-Dichlorophenol	BQL	10.0	3.75	1	7/2/2007	
Diethylphthalate	BQL	10.0	1.48	1	7/2/2007	
Dimethylphthalate	BQL	10.0	1.04	1	7/2/2007	
2,4-Dimethylphenol	BQL	10.0	9.25	1	7/2/2007	
Di-n-octylphthalate	BQL	10.0	1.16	1	7/2/2007	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	7/2/2007	
2,4-Dinitrophenol	BQL	50.0	4.20	1	7/2/2007	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	7/2/2007	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	7/2/2007	
Diphenylamine *	BQL	10.0	1.53	1	7/2/2007	
Fluoranthene	BQL	10.0	1.41	1	7/2/2007	
Fluorene	BQL	10.0	1.22	1	7/2/2007	
Hexachlorobenzene	BQL	10.0	1.22	1	7/2/2007	
Hexachlorobutadiene	BQL	10.0	1.58	1	7/2/2007	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	7/2/2007	
Hexachloroethane	BQL	10.0	1.58	1	7/2/2007	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	7/2/2007	
Isophorone	BQL	10.0	1.27	1	7/2/2007	
Naphthalene	BQL	10.0	1.08	1	7/2/2007	
Nitrobenzene	BQL	10.0	1.32	1	7/2/2007	
2-Nitrophenol	BQL	10.0	3.52	1	7/2/2007	
4-Nitrophenol	BQL	50.0	3.17	1	7/2/2007	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	7/2/2007	
Pentachlorophenol	BQL	50.0	2.83	1	7/2/2007	
Phenanthrene	BQL	10.0	1.38	1	7/2/2007	

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTM232-236-MW05
Client Project ID: NV019
Lab Sample ID: G650-116-9H
Lab Project ID: G650-116

Analyzed By: EAW
Date Collected: 6/21/2007 16:55
Date Received: 6/22/2007
Date Extracted: 6/27/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Phenol	BQL	10.0	3.38	1	7/2/2007	
Pyrene	BQL	10.0	2.08	1	7/2/2007	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	7/2/2007	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	7/2/2007	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	6.7	67		
2-Fluorophenol		10	6.6	66		
Nitrobenzene-d5		10	6.7	67		
Phenol-d6		10	7	70		
2,4,6-Tribromophenol		10	6.3	63		
4-Terphenyl-d14		10	9.1	91		

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: USTM232-236-MW05
Client Project ID: NV019
Lab Sample ID: G650-116-9H
Lab Project ID: G650-116
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: EAW
Date Collected: 6/21/2007 16:55
Date Received: 6/22/2007
Date Extracted: 6/27/2007
Date Analyzed: 7/2/2007
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Unknown	11.01			193
2	Unknown	5.39			5.56
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: EW

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTM232-236-MW03
Client Project ID: NV019
Lab Sample ID: G650-116-10H
Lab Project ID: G650-116

Analyzed By: EAW
Date Collected: 6/21/2007 18:00
Date Received: 6/22/2007
Date Extracted: 6/27/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	1.90	10.0	1.22	1	6/30/2007	J
Acenaphthylene	BQL	10.0	1.12	1	6/30/2007	
Anthracene	BQL	10.0	1.75	1	6/30/2007	
Benzo[a]anthracene	BQL	10.0	1.36	1	6/30/2007	
Benzo[a]pyrene	BQL	10.0	1.27	1	6/30/2007	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	6/30/2007	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	6/30/2007	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	6/30/2007	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	6/30/2007	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	6/30/2007	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	6/30/2007	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	6/30/2007	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	6/30/2007	
Butylbenzylphthalate	BQL	10.0	1.53	1	6/30/2007	
2-Chloronaphthalene	BQL	10.0	1.25	1	6/30/2007	
2-Chlorophenol	BQL	10.0	4.22	1	6/30/2007	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	6/30/2007	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	6/30/2007	
Chrysene	BQL	10.0	1.11	1	6/30/2007	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	6/30/2007	
Di-n-Butylphthalate	BQL	10.0	1.65	1	6/30/2007	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	6/30/2007	
2,4-Dichlorophenol	BQL	10.0	3.75	1	6/30/2007	
Diethylphthalate	BQL	10.0	1.48	1	6/30/2007	
Dimethylphthalate	BQL	10.0	1.04	1	6/30/2007	
2,4-Dimethylphenol	BQL	10.0	9.25	1	6/30/2007	
Di-n-octylphthalate	BQL	10.0	1.16	1	6/30/2007	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	6/30/2007	
2,4-Dinitrophenol	BQL	50.0	4.20	1	6/30/2007	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	6/30/2007	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	6/30/2007	
Diphenylamine *	BQL	10.0	1.53	1	6/30/2007	
Fluoranthene	BQL	10.0	1.41	1	6/30/2007	
Fluorene	1.90	10.0	1.22	1	6/30/2007	J
Hexachlorobenzene	BQL	10.0	1.22	1	6/30/2007	
Hexachlorobutadiene	BQL	10.0	1.58	1	6/30/2007	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	6/30/2007	
Hexachloroethane	BQL	10.0	1.58	1	6/30/2007	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	6/30/2007	
Isophorone	BQL	10.0	1.27	1	6/30/2007	
Naphthalene	BQL	10.0	1.08	1	6/30/2007	
Nitrobenzene	BQL	10.0	1.32	1	6/30/2007	
2-Nitrophenol	BQL	10.0	3.52	1	6/30/2007	
4-Nitrophenol	BQL	50.0	3.17	1	6/30/2007	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	6/30/2007	
Pentachlorophenol	BQL	50.0	2.83	1	6/30/2007	
Phenanthrene	BQL	10.0	1.38	1	6/30/2007	

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTM232-236-MW03
Client Project ID: NV019
Lab Sample ID: G650-116-10H
Lab Project ID: G650-116

Analyzed By: EAW
Date Collected: 6/21/2007 18:00
Date Received: 6/22/2007
Date Extracted: 6/27/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Phenol	BQL	10.0	3.38	1	6/30/2007	
Pyrene	BQL	10.0	2.08	1	6/30/2007	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	6/30/2007	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	6/30/2007	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	8.1	81		
2-Fluorophenol		10	8.3	83		
Nitrobenzene-d5		10	8.6	86		
Phenol-d6		10	8.5	85		
2,4,6-Tribromophenol		10	7.7	77		
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:

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

Client Sample ID: USTM232-236-MW03
Client Project ID: NV019
Lab Sample ID: G650-116-10H
Lab Project ID: G650-116
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: EAW
Date Collected: 6/21/2007 18:00
Date Received: 6/22/2007
Date Extracted: 6/27/2007
Date Analyzed: 6/30/2007
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Unknown	11.05			154
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: EW

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTM232-236-MW22
Client Project ID: NV019
Lab Sample ID: G650-116-11H
Lab Project ID: G650-116

Analyzed By: EAW
Date Collected: 6/22/2007 8:55
Date Received: 6/22/2007
Date Extracted: 6/27/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	5.60	10.0	1.22	1	6/30/2007	J
Acenaphthylene	BQL	10.0	1.12	1	6/30/2007	
Anthracene	BQL	10.0	1.75	1	6/30/2007	
Benzo[a]anthracene	BQL	10.0	1.36	1	6/30/2007	
Benzo[a]pyrene	BQL	10.0	1.27	1	6/30/2007	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	6/30/2007	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	6/30/2007	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	6/30/2007	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	6/30/2007	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	6/30/2007	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	6/30/2007	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	6/30/2007	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	6/30/2007	
Butylbenzylphthalate	BQL	10.0	1.53	1	6/30/2007	
2-Chloronaphthalene	BQL	10.0	1.25	1	6/30/2007	
2-Chlorophenol	BQL	10.0	4.22	1	6/30/2007	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	6/30/2007	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	6/30/2007	
Chrysene	BQL	10.0	1.11	1	6/30/2007	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	6/30/2007	
Di-n-Butylphthalate	BQL	10.0	1.65	1	6/30/2007	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	6/30/2007	
2,4-Dichlorophenol	BQL	10.0	3.75	1	6/30/2007	
Diethylphthalate	BQL	10.0	1.48	1	6/30/2007	
Dimethylphthalate	BQL	10.0	1.04	1	6/30/2007	
2,4-Dimethylphenol	BQL	10.0	9.25	1	6/30/2007	
Di-n-octylphthalate	BQL	10.0	1.16	1	6/30/2007	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	6/30/2007	
2,4-Dinitrophenol	BQL	50.0	4.20	1	6/30/2007	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	6/30/2007	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	6/30/2007	
Diphenylamine *	BQL	10.0	1.53	1	6/30/2007	
Fluoranthene	BQL	10.0	1.41	1	6/30/2007	
Fluorene	5.60	10.0	1.22	1	6/30/2007	J
Hexachlorobenzene	BQL	10.0	1.22	1	6/30/2007	
Hexachlorobutadiene	BQL	10.0	1.58	1	6/30/2007	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	6/30/2007	
Hexachloroethane	BQL	10.0	1.58	1	6/30/2007	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	6/30/2007	
Isophorone	BQL	10.0	1.27	1	6/30/2007	
Naphthalene	18.3	10.0	1.08	1	6/30/2007	
Nitrobenzene	BQL	10.0	1.32	1	6/30/2007	
2-Nitrophenol	BQL	10.0	3.52	1	6/30/2007	
4-Nitrophenol	BQL	50.0	3.17	1	6/30/2007	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	6/30/2007	
Pentachlorophenol	BQL	50.0	2.83	1	6/30/2007	
Phenanthrene	2.60	10.0	1.38	1	6/30/2007	J

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTM232-236-MW22
Client Project ID: NV019
Lab Sample ID: G650-116-11H
Lab Project ID: G650-116

Analyzed By: EAW
Date Collected: 6/22/2007 8:55
Date Received: 6/22/2007
Date Extracted: 6/27/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Phenol	BQL	10.0	3.38	1	6/30/2007	
Pyrene	BQL	10.0	2.08	1	6/30/2007	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	6/30/2007	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	6/30/2007	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	8.6	86		
2-Fluorophenol		10	8.5	85		
Nitrobenzene-d5		10	9	90		
Phenol-d6		10	8.8	88		
2,4,6-Tribromophenol		10	8.5	85		
4-Terphenyl-d14		10	12.8	128		

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: USTM232-236-MW22
Client Project ID: NV019
Lab Sample ID: G650-116-11H
Lab Project ID: G650-116
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: EAW
Date Collected: 6/22/2007 8:55
Date Received: 6/22/2007
Date Extracted: 6/27/2007
Date Analyzed: 6/30/2007
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Unknown	11.05			142
2	Naphthalene, 2,3-dimethyl-	10.35	000581-40-8	98	26.2
3	Benzene, 2-ethenyl-1,4-dimethyl-	7.75	002039-89-6	96	16.3
4	1,2,4-Trimethylbenzene	6.01	000095-36-3	97	13
5	Naphthalene, 2,3-dimethyl-	10.53	000581-40-8	98	10.7
6	Unknown	8.23			9.35
7	Naphthalene, 2,6-dimethyl-	10.23	000581-42-0	98	8.83
8	Naphthalene, 1,2,3,4-tetrahydro-	7.89	000119-64-2	90	8.83
9	Aromatic, Unknown	6.49			8.53
10	Naphthalene, 1,2-dimethyl-	10.40	000573-98-8	95	8.12

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: Qv?

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTM232-236-MW21
Client Project ID: NV019
Lab Sample ID: G650-116-12H
Lab Project ID: G650-116

Analyzed By: EAW
Date Collected: 6/22/2007 9:30
Date Received: 6/22/2007
Date Extracted: 6/27/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	3.70	10.0	1.22	1	7/2/2007	J
Acenaphthylene	BQL	10.0	1.12	1	7/2/2007	
Anthracene	BQL	10.0	1.75	1	7/2/2007	
Benzo[a]anthracene	BQL	10.0	1.36	1	7/2/2007	
Benzo[a]pyrene	BQL	10.0	1.27	1	7/2/2007	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	7/2/2007	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	7/2/2007	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	7/2/2007	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	7/2/2007	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	7/2/2007	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	7/2/2007	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	7/2/2007	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	7/2/2007	
Butylbenzylphthalate	BQL	10.0	1.53	1	7/2/2007	
2-Chloronaphthalene	BQL	10.0	1.25	1	7/2/2007	
2-Chlorophenol	BQL	10.0	4.22	1	7/2/2007	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	7/2/2007	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	7/2/2007	
Chrysene	BQL	10.0	1.11	1	7/2/2007	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	7/2/2007	
Di-n-Butylphthalate	BQL	10.0	1.65	1	7/2/2007	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	7/2/2007	
2,4-Dichlorophenol	BQL	10.0	3.75	1	7/2/2007	
Diethylphthalate	BQL	10.0	1.48	1	7/2/2007	
Dimethylphthalate	BQL	10.0	1.04	1	7/2/2007	
2,4-Dimethylphenol	BQL	10.0	9.25	1	7/2/2007	
Di-n-octylphthalate	BQL	10.0	1.16	1	7/2/2007	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	7/2/2007	
2,4-Dinitrophenol	BQL	50.0	4.20	1	7/2/2007	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	7/2/2007	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	7/2/2007	
Diphenylamine *	BQL	10.0	1.53	1	7/2/2007	
Fluoranthene	BQL	10.0	1.41	1	7/2/2007	
Fluorene	4.40	10.0	1.22	1	7/2/2007	J
Hexachlorobenzene	BQL	10.0	1.22	1	7/2/2007	
Hexachlorobutadiene	BQL	10.0	1.58	1	7/2/2007	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	7/2/2007	
Hexachloroethane	BQL	10.0	1.58	1	7/2/2007	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	7/2/2007	
Isophorone	BQL	10.0	1.27	1	7/2/2007	
Naphthalene	2.90	10.0	1.08	1	7/2/2007	J
Nitrobenzene	BQL	10.0	1.32	1	7/2/2007	
2-Nitrophenol	BQL	10.0	3.52	1	7/2/2007	
4-Nitrophenol	BQL	50.0	3.17	1	7/2/2007	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	7/2/2007	
Pentachlorophenol	BQL	50.0	2.83	1	7/2/2007	
Phenanthrene	2.70	10.0	1.38	1	7/2/2007	J

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTM232-236-MW21
Client Project ID: NV019
Lab Sample ID: G650-116-12H
Lab Project ID: G650-116

Analyzed By: EAW
Date Collected: 6/22/2007 9:30
Date Received: 6/22/2007
Date Extracted: 6/27/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Phenol	BQL	10.0	3.38	1	7/2/2007	
Pyrene	BQL	10.0	2.08	1	7/2/2007	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	7/2/2007	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	7/2/2007	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	8.1	81		
2-Fluorophenol		10	8.3	83		
Nitrobenzene-d5		10	8.2	82		
Phenol-d6		10	8.4	84		
2,4,6-Tribromophenol		10	8.2	82		
4-Terphenyl-d14		10	10	100		

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: USTM232-236-MW21
Client Project ID: NV019
Lab Sample ID: G650-116-12H
Lab Project ID: G650-116
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: EAW
Date Collected: 6/22/2007 9:30
Date Received: 6/22/2007
Date Extracted: 6/27/2007
Date Analyzed: 7/2/2007
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Unknown	11.01			180
2	Naphthalene, 2,3-dimethyl-	10.32	000581-40-8	97	28.1
3	Naphthalene, 1,3-dimethyl-	10.50	000575-41-7	96	15
4	Naphthalene, 2,6-dimethyl-	10.36	000581-42-0	98	11.7
5	Naphthalene, 1,7-dimethyl-	10.20	000575-37-1	98	11.2
6	Naphthalene, 1-ethyl-	10.10	001127-76-0	96	8.66
7	Aromatic, Unknown	8.20			8.54
8	Unknown	9.13			7.89
9	Naphthalene, 1,5-dimethyl-	10.62	000571-61-9	97	7.28
10	Benzene, 1,2,4,5-tetramethyl-	7.39	000095-93-2	95	6.45

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: rw

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID: PB8510
Lab Project ID:

Analyzed By: EAW
Date Collected:
Date Received:
Date Extracted: 6/27/2007
Matrix: WATER

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	6/30/2007	
Acenaphthylene	BQL	10.0	1.12	1	6/30/2007	
Anthracene	BQL	10.0	1.75	1	6/30/2007	
Benzo[a]anthracene	BQL	10.0	1.36	1	6/30/2007	
Benzo[a]pyrene	BQL	10.0	1.27	1	6/30/2007	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	6/30/2007	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	6/30/2007	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	6/30/2007	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	6/30/2007	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	6/30/2007	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	6/30/2007	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	6/30/2007	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	6/30/2007	
Butylbenzylphthalate	BQL	10.0	1.53	1	6/30/2007	
2-Chloronaphthalene	BQL	10.0	1.25	1	6/30/2007	
2-Chlorophenol	BQL	10.0	4.22	1	6/30/2007	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	6/30/2007	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	6/30/2007	
Chrysene	BQL	10.0	1.11	1	6/30/2007	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	6/30/2007	
Di-n-Butylphthalate	BQL	10.0	1.65	1	6/30/2007	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	6/30/2007	
2,4-Dichlorophenol	BQL	10.0	3.75	1	6/30/2007	
Diethylphthalate	BQL	10.0	1.48	1	6/30/2007	
Dimethylphthalate	BQL	10.0	1.04	1	6/30/2007	
2,4-Dimethylphenol	BQL	10.0	9.25	1	6/30/2007	
Di-n-octylphthalate	BQL	10.0	1.16	1	6/30/2007	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	6/30/2007	
2,4-Dinitrophenol	BQL	50.0	4.20	1	6/30/2007	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	6/30/2007	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	6/30/2007	
Diphenylamine *	BQL	10.0	1.53	1	6/30/2007	
Fluoranthene	BQL	10.0	1.41	1	6/30/2007	
Fluorene	BQL	10.0	1.22	1	6/30/2007	
Hexachlorobenzene	BQL	10.0	1.22	1	6/30/2007	
Hexachlorobutadiene	BQL	10.0	1.58	1	6/30/2007	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	6/30/2007	
Hexachloroethane	BQL	10.0	1.58	1	6/30/2007	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	6/30/2007	
Isophorone	BQL	10.0	1.27	1	6/30/2007	
Naphthalene	BQL	10.0	1.08	1	6/30/2007	
Nitrobenzene	BQL	10.0	1.32	1	6/30/2007	
2-Nitrophenol	BQL	10.0	3.52	1	6/30/2007	
4-Nitrophenol	BQL	50.0	3.17	1	6/30/2007	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	6/30/2007	
Pentachlorophenol	BQL	50.0	2.83	1	6/30/2007	
Phenanthrene	BQL	10.0	1.38	1	6/30/2007	

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID: PB8510
Lab Project ID:

Analyzed By: EAW
Date Collected:
Date Received:
Date Extracted: 6/27/2007
Matrix: WATER

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Phenol	BQL	10.0	3.38	1	6/30/2007	
Pyrene	BQL	10.0	2.08	1	6/30/2007	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	6/30/2007	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	6/30/2007	

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	8.1	81
2-Fluorophenol	10	7.5	75
Nitrobenzene-d5	10	8.4	84
Phenol-d6	10	8	80
2,4,6-Tribromophenol	10	7.9	79
4-Terphenyl-d14	10	11.4	114

Comments:

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

Flags:

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By: jw



**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-8510-MS/MSD/LCS

Date Extracted: 06/27/07

Lab Project ID: G650-116-7H

Date Analyzed: 06/30/07

Matrix: WATER

Analyzed By: EAW

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.	QC Limits		
								RPD	RPD	% Rec.
Acenaphthylene	BQL	222	195	87.8	222	232	105.0	17.5	30	62.0-119
4-Chloro-3-methylphenol	BQL	222	189	84.9	222	224	101.0	17.3	30	67.0-109
2-Chlorophenol	BQL	222	161	72.4	222	197	88.6	20.1	30	59.0-95.0
1,4-Dichlorobenzene	BQL	222	123	55.5	222	140	62.9	12.5	30	29.0-86.0
2,4-Dinitrotoluene	BQL	222	187	84.3	222	225	101.0	18.4	30	63.0-103
N-Nitrosodi-n-propylamine	BQL	222	188	84.5	222	226	102.0	18.6	30	67.0-107
4-Nitrophenol	BQL	222	161	72.4	222	183	82.5	13.0	30	49.0-146
Pentachlorophenol	BQL	222	170	76.4	222	192	86.3	12.2	30	43.0-106
Phenol	BQL	222	174	78.3	222	212	95.4	19.7	30	61.0-100
Pyrene	BQL	222	235	106	222	288	130*	20.4	30	41.0-123
1,2,4-Trichlorobenzene	BQL	222	164	73.6	222	192	86.4	16.0	30	41.0-96.0

	Spiked Amount (µg/L)	LCS Conc. (µg/L)	LCS Spike %	QC Limits
				% Rec.
Acenaphthylene	100	97.8	97.8	52.1-145
4-Chloro-3-methylphenol	100	95.0	95.0	51.1-135
2-Chlorophenol	100	79.9	79.9	43.7-128
1,4-Dichlorobenzene	100	70.4	70.4	30.0-110
2,4-Dinitrotoluene	100	97.1	97.1	56.3-144
N-Nitrosodi-n-propylamine	100	93.8	93.8	55.9-143
4-Nitrophenol	100	80.7	80.7	47.8-148
Pentachlorophenol	100	81.1	81.1	43.9-118
Phenol	100	88.2	88.2	48.0-124
Pyrene	100	113	113	29.9-185
1,2,4-Trichlorobenzene	100	86.8	86.8	43.9-122

Comments:

Concentrations reflect the spiked sample amounts.

Flags:

* = Out of limits.

NA = Not applicable.

Reviewed By: EW

**VPH (Aliphatics/Aromatics) Laboratory Reporting Form**Client Name: Sovereign ConsultingProject Name: NV019

Sample Information and Analytical Results	
Sample Identification	USTM232-236-Duplicate
Sample Matrix	Water
Collection Option (for Soil)*	NA
Date Collected	06/21/07
Date Received	06/22/07
Date Extracted	07/03/07 05:35 - 07/03/07 05:35
Date Analyzed	07/03/07 05:35 - 07/03/07 05:35
Dry Weight	NA
Dilution Factor	1 - 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	104
Surrogate % Recovery - FID	104

* = 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 and are unadjusted for individual analytes.

Lab Info: g650-116-2d	Lab Info: g650-116-2d
FID Info: VP070207/044F0101.D	PID Info: VP070207/044R0101.D

Reviewed By: 

**VPH (Aliphatics/Aromatics) Laboratory Reporting Form**Client Name: Sovereign ConsultingProject Name: NV019

Sample Information and Analytical Results	
Sample Identification	USTM232-236-MW01
Sample Matrix	Water
Collection Option (for Soil)*	NA
Date Collected	06/21/07
Date Received	06/22/07
Date Extracted	07/03/07 05:07 - 07/03/07 05:07
Date Analyzed	07/03/07 05:07 - 07/03/07 05:07
Dry Weight	NA
Dilution Factor	1 - 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	104
Surrogate % Recovery - FID	104

* = 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 and are unadjusted for individual analytes.

Lab Info: g650-116-3d	Lab Info: g650-116-3d
FID Info: VP070207/043F0101.D	PID Info: VP070207/043R0101.D

Reviewed By: Dr1

**VPH (Aliphatics/Aromatics) Laboratory Reporting Form**Client Name: Sovereign ConsultingProject Name: NV019

Sample Information and Analytical Results	
Sample Identification	USTM232-236-MW09
Sample Matrix	Water
Collection Option (for Soil)*	NA
Date Collected	06/21/07
Date Received	06/22/07
Date Extracted	07/03/07 04:10 - 07/03/07 04:10
Date Analyzed	07/03/07 04:10 - 07/03/07 04:10
Dry Weight	NA
Dilution Factor	1 - 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	102
Surrogate % Recovery - FID	102

* = 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 and are unadjusted for individual analytes.

Lab Info: g650-116-4d	Lab Info: g650-116-4d
FID Info: VP070207/041F0101.D	PID Info: VP070207/041R0101.D

Reviewed By: W?

**VPH (Aliphatics/Aromatics) Laboratory Reporting Form**Client Name: Sovereign ConsultingProject Name: NV019

Sample Information and Analytical Results	
Sample Identification	USTM232-236-MW15
Sample Matrix	Water
Collection Option (for Soil)*	NA
Date Collected	06/21/07
Date Received	06/22/07
Date Extracted	07/03/07 04:38 - 07/03/07 04:38
Date Analyzed	07/03/07 04:38 - 07/03/07 04:38
Dry Weight	NA
Dilution Factor	1 - 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	107
Surrogate % Recovery - FID	106

* = 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 and are unadjusted for individual analytes.

Lab Info: g650-116-5d	Lab Info: g650-116-5d
FID Info: VP070207/042F0101.D	PID Info: VP070207/042R0101.D

Reviewed By: VP

**VPH (Aliphatics/Aromatics) Laboratory Reporting Form**Client Name: Sovereign ConsultingProject Name: NV019

Sample Information and Analytical Results	
Sample Identification	USTM232-236-MW08
Sample Matrix	Water
Collection Option (for Soil)*	NA
Date Collected	06/21/07
Date Received	06/22/07
Date Extracted	07/03/07 17:05 - 07/03/07 17:05
Date Analyzed	07/03/07 17:05 - 07/03/07 17:05
Dry Weight	NA
Dilution Factor	1 - 1
C ₅ -C ₈ Aliphatics**	< 10.0 µg/L
C ₉ -C ₁₂ Aliphatics**	< 10.0 µg/L
C ₉ -C ₁₀ Aromatics**	< 10.0 µg/L
Surrogate % Recovery - PID	106
Surrogate % Recovery - FID	105

* = 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 and are unadjusted for individual analytes.

Lab Info: g650-116-6b	Lab Info: g650-116-6b
FID Info: VP070307/018F0101.D	PID Info: VP070307/018R0101.D

Reviewed By: Per

**VPH (Aliphatics/Aromatics) Laboratory Reporting Form**Client Name: Sovereign ConsultingProject Name: NV019

Sample Information and Analytical Results	
Sample Identification	USTM232-236-MW18
Sample Matrix	Water
Collection Option (for Soil)*	NA
Date Collected	06/21/07
Date Received	06/22/07
Date Extracted	07/03/07 19:57 - 07/03/07 19:57
Date Analyzed	07/03/07 19:57 - 07/03/07 19:57
Dry Weight	NA
Dilution Factor	1 - 1
C ₅ -C ₈ Aliphatics**	< 10.0 µg/L
C ₉ -C ₁₂ Aliphatics**	< 10.0 µg/L
C ₉ -C ₁₀ Aromatics**	128 µg/L
Surrogate % Recovery - PID	108
Surrogate % Recovery - FID	113

* = 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 and are unadjusted for individual analytes.

Lab Info: g650-116-7b	Lab Info: g650-116-7b
FID Info: VP070307/024F0101.D	PID Info: VP070307/024R0101.D

Reviewed By: 242

**VPH (Aliphatics/Aromatics) Laboratory Reporting Form**Client Name: Sovereign ConsultingProject Name: NV019

Sample Information and Analytical Results	
Sample Identification	USTM232-236-MW20
Sample Matrix	Water
Collection Option (for Soil)*	NA
Date Collected	06/21/07
Date Received	06/22/07
Date Extracted	07/03/07 17:34 - 07/03/07 17:34
Date Analyzed	07/03/07 17:34 - 07/03/07 17:34
Dry Weight	NA
Dilution Factor	1 - 1
C ₅ -C ₈ Aliphatics**	< 10.0 µg/L
C ₉ -C ₁₂ Aliphatics**	< 10.0 µg/L
C ₉ -C ₁₀ Aromatics**	< 10.0 µg/L
Surrogate % Recovery - PID	103
Surrogate % Recovery - FID	108

* = 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 and are unadjusted for individual analytes.

Lab Info: g650-116-8b	Lab Info: g650-116-8b
FID Info: VP070307/019F0101.D	PID Info: VP070307/019R0101.D

Reviewed By: W

**VPH (Aliphatics/Aromatics) Laboratory Reporting Form**Client Name: Sovereign ConsultingProject Name: NV019

Sample Information and Analytical Results	
Sample Identification	USTM232-236-MW05
Sample Matrix	Water
Collection Option (for Soil)*	NA
Date Collected	06/21/07
Date Received	06/22/07
Date Extracted	07/03/07 18:03 - 07/03/07 18:03
Date Analyzed	07/03/07 18:03 - 07/03/07 18:03
Dry Weight	NA
Dilution Factor	1 - 1
C ₅ -C ₈ Aliphatics**	< 10.0 µg/L
C ₉ -C ₁₂ Aliphatics**	< 10.0 µg/L
C ₉ -C ₁₀ Aromatics**	< 10.0 µg/L
Surrogate % Recovery - PID	104
Surrogate % Recovery - FID	104

* = 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 and are unadjusted for individual analytes.

Lab Info: g650-116-9b	Lab Info: g650-116-9b
FID Info: VP070307/020F0101.D	PID Info: VP070307/020R0101.D

Reviewed By: 2.07

**VPH (Aliphatics/Aromatics) Laboratory Reporting Form**Client Name: Sovereign ConsultingProject Name: NV019

Sample Information and Analytical Results	
Sample Identification	USTM232-236-MW03
Sample Matrix	Water
Collection Option (for Soil)*	NA
Date Collected	06/21/07
Date Received	06/22/07
Date Extracted	07/03/07 18:31 - 07/03/07 18:31
Date Analyzed	07/03/07 18:31 - 07/03/07 18:31
Dry Weight	NA
Dilution Factor	1 - 1
C ₅ -C ₈ Aliphatics**	< 10.0 µg/L
C ₉ -C ₁₂ Aliphatics**	< 10.0 µg/L
C ₉ -C ₁₀ Aromatics**	< 10.0 µg/L
Surrogate % Recovery - PID	111
Surrogate % Recovery - FID	112

* = 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 and are unadjusted for individual analytes.

Lab Info: g650-116-10b	Lab Info: g650-116-10b
FID Info: VP070307/021F0101.D	PID Info: VP070307/021R0101.D

Reviewed By: WJ

**VPH (Aliphatics/Aromatics) Laboratory Reporting Form**Client Name: Sovereign ConsultingProject Name: NV019

Sample Information and Analytical Results	
Sample Identification	USTM232-236-MW22
Sample Matrix	Water
Collection Option (for Soil)*	NA
Date Collected	06/22/07
Date Received	06/22/07
Date Extracted	07/03/07 19:00 - 07/03/07 19:00
Date Analyzed	07/03/07 19:00 - 07/03/07 19:00
Dry Weight	NA
Dilution Factor	1 - 1
C ₅ -C ₈ Aliphatics**	< 10.0 µg/L
C ₉ -C ₁₂ Aliphatics**	< 10.0 µg/L
C ₉ -C ₁₀ Aromatics**	123 µg/L
Surrogate % Recovery - PID	107
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 and are unadjusted for individual analytes.

Lab Info: g650-116-11b	Lab Info: g650-116-11b
FID Info: VP070307/022F0101.D	PID Info: VP070307/022R0101.D

Reviewed By: EW

**VPH (Aliphatics/Aromatics) Laboratory Reporting Form**Client Name: Sovereign ConsultingProject Name: NV019

Sample Information and Analytical Results	
Sample Identification	USTM232-236-MW21
Sample Matrix	Water
Collection Option (for Soil)*	NA
Date Collected	06/22/07
Date Received	06/22/07
Date Extracted	07/03/07 19:28 - 07/03/07 19:28
Date Analyzed	07/03/07 19:28 - 07/03/07 19:28
Dry Weight	NA
Dilution Factor	1 - 1
C ₅ -C ₈ Aliphatics**	< 10.0 µg/L
C ₉ -C ₁₂ Aliphatics**	< 10.0 µg/L
C ₉ -C ₁₀ Aromatics**	< 10.0 µg/L
Surrogate % Recovery - PID	109
Surrogate % Recovery - FID	111

* = 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 and are unadjusted for individual analytes.

Lab Info: g650-116-12b	Lab Info: g650-116-12b
FID Info: VP070307/023F0101.D	PID Info: VP070307/023R0101.D

Reviewed By: Dr. 2



LABORATORY CONTROL SPIKE RESULTS

by Method VPH

SGS Environmental Services, Inc.

Lab Sample ID: LCS4070207A
Lab Project ID: Batch QC
Report Basis: Wet

Analyzed By:
Matrix: Water
Percent Solids: 100 %

Analytical QC Results Summary

Analyte	Expected Amount µg/L	Measured Amount µg/L	Percent Recovery (%)	Lower Limit (%)	Upper Limit (%)	Qualifier
C5-C8 Aliphatics		184				
C9-C12 Aliphatics		81.5				
C9-C10 Aromatics		39.8				
Total VPH	250	305	122	70.0	130	

Surrogate Standards	Expected Amount µg/L	Measured Amount µg/L	Percent Recovery (%)	Lower Limit (%)	Upper Limit (%)	Qualifier
Surrogate - PID	100	106	106	70.0	130	
Surrogate - FID	100	104	104	70.0	130	

Reviewed By:

**MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULTS**
by Method VPH

SGS Environmental Services, Inc.

Lab Sample ID: g838-3-2f
MS Sample ID: g838-3-2f
MSD Sample ID: g838-3-2f
Lab Project ID: Batch QC
Report Basis: Dry

Analyzed By: DVG
Matrix: Soil
Percent Solids: 44.9 %

Matrix Spike Results Summary

Analyte	Sample Amount mg/Kg	Spiked Amount mg/Kg	Measured Amount mg/Kg	Percent Recovery (%)	Lower Limit (%)	Upper Limit (%)	Qualifier
C5-C8 Aliphatics	0.000	-	65.60	-	-	-	
C9-C12 Aliphatics	0.000	-	24.40	-	-	-	
C9-C10 Aromatics	0.000	-	12.50	-	-	-	
Total VPH	0.000	156.4	103.0	85.6	70	130	

Matrix Spike Duplicate Results Summary

Analyte	Spiked Amount mg/Kg	Measured Amount mg/Kg	Percent Recovery (%)	Lower Limit (%)	Upper Limit (%)	Qualifier
C5-C8 Aliphatics	-	65.30	-	-	-	
C9-C12 Aliphatics	-	23.50	-	-	-	
C9-C10 Aromatics	-	13.10	-	-	-	
Total VPH	156.4	102.0	85.3	70	130	

Analyte	MS Amount mg/Kg	MSD Amount mg/Kg	RPD Value (%)	RPD Limit (%)	Qualifier
C5-C8 Aliphatics	-	-	-	-	
C9-C12 Aliphatics	-	-	-	-	
C9-C10 Aromatics	-	-	-	-	
Total VPH	103.0	102.0	1	20	

Reviewed By: *rw*

**VPH (Aliphatics/Aromatics) Laboratory Reporting Form**

Client Name: _____

Project Name: _____

Sample Information and Analytical Results	
Sample Identification	vblk4070207a
Sample Matrix	Water
Collection Option (for Soil)*	NA
Date Collected	
Date Received	
Date Extracted	
Date Analyzed	07/02/07 20:33 - 07/02/07 20:33
Dry Weight	100
Dilution Factor	1 - 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	105
Surrogate % Recovery - FID	105

* = 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 and are unadjusted for individual analytes.

Lab Info: vblk4070207a	Lab Info: vblk4070207a
FID Info: VP070207/025F0101.D	PID Info: VP070207/025R0101.D

Reviewed By: DL



Attachment 2

VPH Laboratory Reporting Form

Calibration and QA/QC Information

FID Initial Calibration Date: 07/02/07PID Initial Calibration Date: 07/02/07

Calibration Ranges and Limits

Range	MDL		ML		RL	
	(µg/L)	(mg/Kg)	(µg/L)	(mg/Kg)	(µg/L)	(mg/Kg)
C ₅ -C ₈ Aliphatics	33.1	0.265	105	0.842	100	10
C ₉ -C ₁₂ Aliphatics	30.9	0.247	98.3	0.786	100	10
C ₉ -C ₁₀ Aromatics	27.7	0.222	88.1	0.705	100	10

Calibration Concentration Levels

Range	Levels (µg/L)	Levels (mg/Kg)	%RSD if CF r if LR	Method of Quantitation
C ₅ -C ₈ Aliphatics	10	0.8	6.10	Calibration Factor
	250	20		
	500	40		
	750	60		
	1000	80		
C ₉ -C ₁₂ Aliphatics	10	0.8	8.17	Calibration Factor
	250	20		
	500	40		
	750	60		
	1000	80		
C ₉ -C ₁₀ Aromatics	10	0.8	11.84	Calibration Factor
	250	20		
	500	40		
	750	60		
	1000	80		

Calibration Check Date: 07/02/07Filename: VP070207/034F0101.d

Calibration Check

Range	Levels (mg/Kg)	(µg/L)	%Difference if CF %Drift if LR	Limits
C ₅ -C ₈ Aliphatics	500	4	-11.6	±25%
C ₉ -C ₁₂ Aliphatics	500	4	-1.4	±25%
C ₉ -C ₁₀ Aromatics	500	4	6.0	±25%

MDL = Method Detection Limit

ML = Minimum Limit

RL = Reportable Limit

RPD = Relative Percent Difference

%RSD = Percent Relative Standard Deviation

CCC = Correlation Coefficient of Curve

**VPH (Aliphatics/Aromatics) Laboratory Reporting Form**

Client Name: _____

Project Name: _____

Sample Information and Analytical Results	
Sample Identification	vblk4070307a
Sample Matrix	Water
Collection Option (for Soil)*	NA
Date Collected	
Date Received	
Date Extracted	
Date Analyzed	07/03/07 13:41 - 07/03/07 13:41
Dry Weight	100
Dilution Factor	1 - 1
C ₅ -C ₈ Aliphatics**	< 10.0 µg/L
C ₉ -C ₁₂ Aliphatics**	< 10.0 µg/L
C ₉ -C ₁₀ Aromatics**	< 10.0 µg/L
Surrogate % Recovery - PID	102
Surrogate % Recovery - FID	102

* = 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 and are unadjusted for individual analytes.

Lab Info: vblk4070307a	Lab Info: vblk4070307a
FID Info: VP070307/011F0101.D	PID Info: VP070307/011R0101.D

Reviewed By: *RV*

**LABORATORY CONTROL SPIKE RESULTS**
by Method VPH

SGS Environmental Services, Inc.

Lab Sample ID: LCS4070307A
Lab Project ID: Batch QC
Report Basis: Wet

Analyzed By:
Matrix: Water
Percent Solids: NA %

Analytical QC Results Summary

Analyte	Expected Amount µg/L	Measured Amount µg/L	Percent Recovery (%)	Lower Limit (%)	Upper Limit (%)	Qualifier
C5-C8 Aliphatics		262				
C9-C12 Aliphatics		129				
C9-C10 Aromatics		70.4				
Total VPH	500	462	92.4	70.0	130	

Surrogate Standards	Expected Amount µg/L	Measured Amount µg/L	Percent Recovery (%)	Lower Limit (%)	Upper Limit (%)	Qualifier
Surrogate - PID	1250	1321	106	70.0	130	
Surrogate - FID	1250	1295	104	70.0	130	

Reviewed By: JW

**MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULTS**
by Method VPH

SGS Environmental Services, Inc.

Lab Sample ID: g193-272-1e
MS Sample ID: g193-272-1e
MSD Sample ID: g193-272-1e
Lab Project ID: Batch QC
Report Basis: Dry

Analyzed By: DVG
Matrix: Soil
Percent Solids: 100.0 %

Matrix Spike Results Summary

Analyte	Sample Amount mg/Kg	Spiked Amount mg/Kg	Measured Amount mg/Kg	Percent Recovery (%)	Lower Limit (%)	Upper Limit (%)	Qualifier
C5-C8 Aliphatics	0.518	-	11.20	-	-	-	
C9-C12 Aliphatics	0.000	-	4.97	-	-	-	
C9-C10 Aromatics	0.248	-	1.94	-	-	-	
Total VPH	0.000	20.4	18.1	94.6	70	130	

Matrix Spike Duplicate Results Summary

Analyte	Spiked Amount mg/Kg	Measured Amount mg/Kg	Percent Recovery (%)	Lower Limit (%)	Upper Limit (%)	Qualifier
C5-C8 Aliphatics	-	11.30	-	-	-	
C9-C12 Aliphatics	-	5.00	-	-	-	
C9-C10 Aromatics	-	2.12	-	-	-	
Total VPH	20.4	18.4	96.2	70	130	

Analyte	MS Amount mg/Kg	MSD Amount mg/Kg	RPD Value (%)	RPD Limit (%)	Qualifier
C5-C8 Aliphatics	-	-	-	-	
C9-C12 Aliphatics	-	-	-	-	
C9-C10 Aromatics	-	-	-	-	
Total VPH	18.1	18.4	2	20	

Reviewed By: pwt

Attachment 2

VPH Laboratory Reporting Form

Calibration and QA/QC Information

FID Initial Calibration Date: 07/02/07

PID Initial Calibration Date: 07/02/07

Calibration Ranges and Limits

Range	MDL		ML		RL	
	(µg/L)	(mg/Kg)	(µg/L)	(mg/Kg)	(µg/L)	(mg/Kg)
C ₅ -C ₈ Aliphatics	33.1	0.265	105	0.842	100	10
C ₉ -C ₁₂ Aliphatics	30.9	0.247	98.3	0.786	100	10
C ₉ -C ₁₀ Aromatics	27.7	0.222	88.1	0.705	100	10

Calibration Concentration Levels

Range	Levels (µg/L)	Levels (mg/Kg)	%RSD if CF r if LR	Method of Quantitation
C ₅ -C ₈ Aliphatics	10	0.8	6.10	Calibration Factor
	250	20		
	500	40		
	750	60		
	1000	80		
C ₉ -C ₁₂ Aliphatics	10	0.8	8.17	Calibration Factor
	250	20		
	500	40		
	750	60		
	1000	80		
C ₉ -C ₁₀ Aromatics	10	0.8	11.84	Calibration Factor
	250	20		
	500	40		
	750	60		
	1000	80		

Calibration Check Date: 07/03/07

Filename: VP070307/002F0101.d

Calibration Check

Range	Levels (mg/Kg)	(µg/L)	%Difference if CF %Drift if LR	Limits
C ₅ -C ₈ Aliphatics	500	4	-4.0	±25%
C ₉ -C ₁₂ Aliphatics	500	4	-7.5	±25%
C ₉ -C ₁₀ Aromatics	500	4	-19.1	±25%

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: NV019

Sample Information and Analytical Results	
Sample Identification	USTM232-236-Duplicate
Sample Matrix	Water
Date Collected	06/21/07
Date Received	06/22/07
Date Extracted	06/29/07
Date Analyzed	06/29/07
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	110
Aromatic Surrogate % Recovery	100

Comments:

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

Lab info: G650-116-2I

Reviewed By: RW

**EPH (Aliphatics/Aromatics) Results**

by MDEP-EPH

Client Name: Sovereign ConsultingProject Name: NV019

Sample Information and Analytical Results	
Sample Identification	USTM232-236-MW01
Sample Matrix	Water
Date Collected	06/21/07
Date Received	06/22/07
Date Extracted	06/29/07
Date Analyzed	06/29/07
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	100
Aromatic Surrogate % Recovery	110

Comments:

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

Lab info: G650-116-3I

Reviewed By: RL

**EPH (Aliphatics/Aromatics) Results**

by MDEP-EPH

Client Name: Sovereign ConsultingProject Name: NV019

Sample Information and Analytical Results	
Sample Identification	USTM232-236-MW09
Sample Matrix	Water
Date Collected	06/21/07
Date Received	06/22/07
Date Extracted	06/29/07
Date Analyzed	06/29/07
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	110
Aromatic Surrogate % Recovery	110

Comments:

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

Lab info: G650-116-41

Reviewed By: SM

**EPH (Aliphatics/Aromatics) Results**

by MDEP-EPH

Client Name: Sovereign ConsultingProject Name: NV019

Sample Information and Analytical Results	
Sample Identification	USTM232-236-MW15
Sample Matrix	Water
Date Collected	06/21/07
Date Received	06/22/07
Date Extracted	06/29/07
Date Analyzed	06/29/07
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	94
Aromatic Surrogate % Recovery	99

Comments:

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

Lab info: G650-116-5I

Reviewed By: RLV

**EPH (Aliphatics/Aromatics) Results**

by MDEP-EPH

Client Name: Sovereign ConsultingProject Name: NV019

Sample Information and Analytical Results	
Sample Identification	USTM232-236-MW08
Sample Matrix	Water
Date Collected	06/21/07
Date Received	06/22/07
Date Extracted	06/29/07
Date Analyzed	06/29/07
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	110
Aromatic Surrogate % Recovery	100

Comments:

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

Lab info: G650-116-6I

Reviewed By: RW

**EPH (Aliphatics/Aromatics) Results**

by MDEP-EPH

Client Name: Sovereign ConsultingProject Name: NV019

Sample Information and Analytical Results	
Sample Identification	USTM232-236-MW18
Sample Matrix	Water
Date Collected	06/21/07
Date Received	06/22/07
Date Extracted	06/29/07
Date Analyzed	07/03/07
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*	150 (ug/L)
Aliphatic Surrogate % Recovery	93
Aromatic Surrogate % Recovery	91
Fractionation Surrogate 1 % Recovery	74

Comments:

* = Excludes any surrogates or internal standards.

Lab info: G650-116-7K

Reviewed By: RW

**EPH (Aliphatics/Aromatics) Results**

by MDEP-EPH

Client Name: Sovereign ConsultingProject Name: NV019

Sample Information and Analytical Results	
Sample Identification	USTM232-236-MW20
Sample Matrix	Water
Date Collected	06/21/07
Date Received	06/22/07
Date Extracted	06/29/07
Date Analyzed	07/03/07
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	83
Aromatic Surrogate % Recovery	80
Fractionation Surrogate 1 % Recovery	76

Comments:

* = Excludes any surrogates or internal standards.

Lab info: G650-116-8I

Reviewed By: RL

**EPH (Aliphatics/Aromatics) Results**

by MDEP-EPH

Client Name: Sovereign ConsultingProject Name: NV019

Sample Information and Analytical Results	
Sample Identification	USTM232-236-MW05
Sample Matrix	Water
Date Collected	06/21/07
Date Received	06/22/07
Date Extracted	06/29/07
Date Analyzed	06/29/07
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	100
Aromatic Surrogate % Recovery	99

Comments:

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

Lab info: G650-116-9I

Reviewed By: RW

**EPH (Aliphatics/Aromatics) Results**

by MDEP-EPH

Client Name: Sovereign ConsultingProject Name: NV019

Sample Information and Analytical Results	
Sample Identification	USTM232-236-MW03
Sample Matrix	Water
Date Collected	06/21/07
Date Received	06/22/07
Date Extracted	06/29/07
Date Analyzed	06/29/07
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	88
Aromatic Surrogate % Recovery	87

Comments:

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

Lab info: G650-116-101

Reviewed By: Red

**EPH (Aliphatics/Aromatics) Results**

by MDEP-EPH

Client Name: Sovereign ConsultingProject Name: NV019

Sample Information and Analytical Results	
Sample Identification	USTM232-236-MW22
Sample Matrix	Water
Date Collected	06/22/07
Date Received	06/22/07
Date Extracted	06/29/07
Date Analyzed	07/03/07
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*	350 (ug/L)
Aliphatic Surrogate % Recovery	100
Aromatic Surrogate % Recovery	100
Fractionation Surrogate 1 % Recovery	95

Comments:

* = Excludes any surrogates or internal standards.

Lab info: G650-116-111

Reviewed By: Roll

**EPH (Aliphatics/Aromatics) Results**

by MDEP-EPH

Client Name: Sovereign ConsultingProject Name: NV019

Sample Information and Analytical Results	
Sample Identification	USTM232-236-MW21
Sample Matrix	Water
Date Collected	06/22/07
Date Received	06/22/07
Date Extracted	06/29/07
Date Analyzed	07/02/07
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*	290 (ug/L)
Aliphatic Surrogate % Recovery	86
Aromatic Surrogate % Recovery	88
Fractionation Surrogate 1 % Recovery	87

Comments:

* = Excludes any surrogates or internal standards.

Lab info: G650-116-12I

Reviewed By: RM



Attachment 3

EPH Laboratory Reporting Form

Calibration and QA/QC Information

Initial Calibration Date: 05/09/07

Calibration Ranges and Limits

Range	MDL (10/2006) (µg/L)	ML (µg/L)	RL (µg/L) (mg/Kg)
C ₉ -C ₁₈ Aliphatics	28.10	89.4	100 10
C ₁₉ -C ₃₆ Aliphatics	36.50	116	100 10
C ₁₁ -C ₂₂ Aromatics	27.60	87.8	100 10

Calibration Concentration Levels

Range	Levels (µg/mL)	%RSD or CCC	Method of Quantitation
C ₉ -C ₁₈ Aliphatics	6	13.70	Calibration Factor
	30		
	60		
	120		
	240		
C ₁₉ -C ₃₆ Aliphatics	8	14.2	Calibration Factor
	40		
	80		
	160		
	320		
C ₁₁ -C ₂₂ Aromatics	17	5.9	Calibration Factor
	85		
	170		
	340		
	680		

Calibration Check Date: 06/29/07

Calibration Check

Range	Levels (µg/mL)	RPD
C ₉ -C ₁₈ Aliphatics	120	-0.3
C ₁₉ -C ₃₆ Aliphatics	160	-5.0
C ₁₁ -C ₂₂ Aromatics	340	-7.8

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: 05/09/07

Calibration Ranges and Limits

Range	MDL (10/2006) (µg/L)	ML (µg/L)	RL (µg/L) (mg/Kg)
C ₉ -C ₁₈ Aliphatics	28.10	89.4	100 10
C ₁₉ -C ₃₆ Aliphatics	36.50	116	100 10
C ₁₁ -C ₂₂ Aromatics	27.60	87.8	100 10

Calibration Concentration Levels

Range	Levels (µg/mL)	%RSD or CCC	Method of Quantitation
C ₉ -C ₁₈ Aliphatics	6	13.70	Calibration Factor
	30		
	60		
	120		
	240		
C ₁₉ -C ₃₆ Aliphatics	8	14.2	Calibration Factor
	40		
	80		
	160		
	320		
C ₁₁ -C ₂₂ Aromatics	17	5.9	Calibration Factor
	85		
	170		
	340		
	680		

Calibration Check Date: 07/02/07

Calibration Check

Range	Levels (µg/mL)	RPD
C ₉ -C ₁₈ Aliphatics	120	2.9
C ₁₉ -C ₃₆ Aliphatics	160	-9.0
C ₁₁ -C ₂₂ Aromatics	340	-8.1

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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0740

1 CLIENT: Sovereign Consulting Inc
CONTACT: Kurt Merkle PHONE NO: (910) 358-0555
PROJECT: NB19 SITE/PWSID#: M232-236
REPORTS TO: CMurray@sovecon.com E-MAIL: - Chris Murray
awer@sovecon.com FAX NO: (910) 358-0555
INVOICE TO: QUOTE #
Per Contract P.O. NUMBER NV019

SGS Reference: 0650-116

PAGE 1 OF 2

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX	No CONTAINERS	SAMPLE TYPE C= COMP G= GRAB	Preservatives Used	Analysis Required	REMARKS
	U5TM232-236-Trip Blank	6/21/07		TB	2	G			
	U5TM232-236-Duplicate	6/21/07		GW	7	G			
	U5TM232-236-MW01	6/21/07	0940	GW	7	G			
	U5TM232-236-MW09	6/21/07	1100	GW	7	G			
	U5TM232-236-MW15	6/21/07	1215	GW	7	G			
	U5TM232-236-MW08	6/21/07	1510	GW	7	G			
	U5TM232-236-MW18	6/21/07	1455	GW	7	G			
	U5TM232-236-MW20	6/21/07	1630	GW	7	G			
	U5TM232-236-MW05	6/21/07	1655	GW	7	G			
	U5TM232-236-MW03	6/21/07	1800	GW	7	G			

5 Collected/Relinquished By: (1) [Signature] Date 6/21/07 Time 1335
Relinquished By: (2) [Signature] Date 6/21/07 Time 1335
Relinquished By: (3) Date Time
Relinquished By: (4) Date Time

Shipping Carrier: FEDEX Shipping Ticket No: 50101535
Samples received Cold? (Circle) YES NO
Temperature (C): 3.8°C
Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT
Special Deliverable Requirements: EOD format
Special Instructions: Email results "EOD format" to cmurray@sovecon.com / awer@sovecon.com
Requested Turnaround Time: 11 STD
☐ RUSH ☒ STD

[illegible]

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

☐ 1270 Greenbrier Street
Charleston, WV 25311 Tel: (304) 346-0725 Fax: (304) 346-0761

200 W. Fuller Drive
 Anchorage, AK 99518
 Tel: (907) 562-2343 Fax: (907) 561-5301
 5500 Business Drive
 Wilmington, NC 28405
 Tel: (910) 350-1903 Fax: (910) 350-1557



Mr. Chris Murray
Sovereign Consulting
405 Oakmeads Crescent
Suite 1
Virginia Beach VA 23462
Report Number: G650-122
Client Project: NV018

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

9/11/2002
Date



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.

**Results for Total Petroleum Hydrocarbons**
by GC/FID 8015

Client Sample ID: USTM232TB-SB01

Client Project ID: NV018

Lab Sample ID: G650-122-1

Lab Project ID: G650-122

Report Basis: Dry Weight

Analyzed By: DVG

Date Collected: 8/21/2007 8:30

Date Received: 8/23/2007

Matrix: Soil

Solids 87.30

Analyte	Result MG/KG	RL MG/KG	Prep Method	Dilution Factor	Date Analyzed
Gasoline Range Organics	BQL	5.66	5035	1	08/25/07
Diesel Range Organics	BQL	7.15	3541	1	08/27/07

Comments:

Flags:

Reviewed By: Rp

Tph.xls

**Results for Total Petroleum Hydrocarbons**
by GC/FID 8015

Client Sample ID: USTM232TB-SB02

Client Project ID: NV018

Lab Sample ID: G650-122-2

Lab Project ID: G650-122

Report Basis: Dry Weight

Analyzed By: DVG

Date Collected: 8/21/2007 8:53

Date Received: 8/23/2007

Matrix: Soil

Solids 79.06

Analyte	Result MG/KG	RL MG/KG	Prep Method	Dilution Factor	Date Analyzed
Gasoline Range Organics	BQL	6.25	5035	1	08/25/07
Diesel Range Organics	1950	77.3	3541	10	08/28/07

Comments:

Flags:

Reviewed By: 

Tphxis

**Results for Total Petroleum Hydrocarbons**
by GC/FID 8015

Client Sample ID: USTM232TB-SB05

Client Project ID: NV018

Lab Sample ID: G650-122-3

Lab Project ID: G650-122

Report Basis: Dry Weight

Analyzed By: DVG

Date Collected: 8/21/2007 10:20

Date Received: 8/23/2007

Matrix: Soil

Solids 93.30

Analyte	Result MG/KG	RL MG/KG	Prep Method	Dilution Factor	Date Analyzed
Gasoline Range Organics	BQL	6.76	5035	1	08/24/07
Diesel Range Organics	BQL	6.56	3541	1	08/28/07

Comments:

Flags:

**Results for Total Petroleum Hydrocarbons**
by GC/FID 8015

Client Sample ID: USTM232TB-SB06

Client Project ID: NV018

Lab Sample ID: G650-122-4

Lab Project ID: G650-122

Report Basis: Dry Weight

Analyzed By: DVG

Date Collected: 8/21/2007 12:00

Date Received: 8/23/2007

Matrix: Soil

Solids 74.35

Analyte	Result MG/KG	RL MG/KG	Prep Method	Dilution Factor	Date Analyzed
Gasoline Range Organics	BQL	6.58	5035	1	08/24/07
Diesel Range Organics	BQL	7.92	3541	1	08/27/07

Comments:

Flags:

Reviewed By: Tph

**Results for Total Petroleum Hydrocarbons**
by GC/FID 8015

Client Sample ID: USTM232TB-SB07

Client Project ID: NV018

Lab Sample ID: G650-122-5

Lab Project ID: G650-122

Report Basis: Dry Weight

Analyzed By: DVG

Date Collected: 8/21/2007 12:15

Date Received: 8/23/2007

Matrix: Soil

Solids 77.78

Analyte	Result MG/KG	RL MG/KG	Prep Method	Dilution Factor	Date Analyzed
Gasoline Range Organics	16.80	6.13	5035	1	08/24/07
Diesel Range Organics	2980	159	3541	20	08/28/07

Comments:

Flags:

**Results for Total Petroleum Hydrocarbons**
by GC/FID 8015

Client Sample ID: USTM236TB-SB01

Client Project ID: NV018

Lab Sample ID: G650-122-6

Lab Project ID: G650-122

Report Basis: Dry Weight

Analyzed By: DVG

Date Collected: 8/21/2007 12:50

Date Received: 8/23/2007

Matrix: Soil

Solids 72.97

Analyte	Result MG/KG	RL MG/KG	Prep Method	Dilution Factor	Date Analyzed
Gasoline Range Organics	28.8	6.87	5035	1	08/24/07
Diesel Range Organics	4010	168	3541	20	08/28/07

Comments:

Flags:

Reviewed By: Tph

Tph

**Results for Total Petroleum Hydrocarbons**
by GC/FID 8015

Client Sample ID: USTM236TB-SB02

Client Project ID: NV018

Lab Sample ID: G650-122-7

Lab Project ID: G650-122

Report Basis: Dry Weight

Analyzed By: DVG

Date Collected: 8/21/2007 13:05

Date Received: 8/23/2007

Matrix: Soil

Solids 82.41

Analyte	Result MG/KG	RL MG/KG	Prep Method	Dilution Factor	Date Analyzed
Gasoline Range Organics	98.7	7.92	5035	2	08/27/07
Diesel Range Organics	9430	367	3541	50	08/29/07

Comments:

Flags:

**Results for Total Petroleum Hydrocarbons**
by GC/FID 8015

Client Sample ID: USTM236TB-SB03

Client Project ID: NV018

Lab Sample ID: G650-122-8

Lab Project ID: G650-122

Report Basis: Dry Weight

Analyzed By: DVG

Date Collected: 8/21/2007 13:25

Date Received: 8/23/2007

Matrix: Soil

Solids 76.62

Analyte	Result MG/KG	RL MG/KG	Prep Method	Dilution Factor	Date Analyzed
Gasoline Range Organics	BQL	6.08	5035	1	08/24/07
Diesel Range Organics	BQL	7.78	3541	1	08/29/07

Comments:

Flags:

**Results for Total Petroleum Hydrocarbons**
by GC/FID 8015

Client Sample ID: USTM236TB-SB05

Client Project ID: NV018

Lab Sample ID: G650-122-9

Lab Project ID: G650-122

Report Basis: Dry Weight

Analyzed By: DVG

Date Collected: 8/21/2007 14:18

Date Received: 8/23/2007

Matrix: Soil

Solids 78.20

Analyte	Result MG/KG	RL MG/KG	Prep Method	Dilution Factor	Date Analyzed
Gasoline Range Organics	BQL	5.54	5035	1	08/25/07
Diesel Range Organics	BQL	7.91	3541	1	08/28/07

Comments:

Flags:

Reviewed By: Tph

**Results for Total Petroleum Hydrocarbons**
by GC/FID 8015

Client Sample ID: USTM236TB-SB04

Client Project ID: NV018

Lab Sample ID: G650-122-10

Lab Project ID: G650-122

Report Basis: Dry Weight

Analyzed By: DVG

Date Collected: 8/21/2007 13:45

Date Received: 8/23/2007

Matrix: Soil

Solids 75.51

Analyte	Result MG/KG	RL MG/KG	Prep Method	Dilution Factor	Date Analyzed
Gasoline Range Organics	BQL	6.72	5035	1	08/25/07
Diesel Range Organics	223	7.82	3541	1	08/28/07

Comments:

Flags:

Reviewed By: 

Tph. #15

**Results for Total Petroleum Hydrocarbons**
by GC/FID 8015

Client Sample ID: USTM234TB-SB01

Client Project ID: NV018

Lab Sample ID: G650-122-11

Lab Project ID: G650-122

Report Basis: Dry Weight

Analyzed By: DVG

Date Collected: 8/21/2007 14:57

Date Received: 8/23/2007

Matrix: Soil

Solids 73.43

Analyte	Result MG/KG	RL MG/KG	Prep Method	Dilution Factor	Date Analyzed
Gasoline Range Organics	BQL	6.65	5035	1	08/25/07
Diesel Range Organics	BQL	8.14	3541	1	08/28/07

Comments:

Flags:

Reviewed By: 

Tph.xls

**Results for Total Petroleum Hydrocarbons**
by GC/FID 8015

Client Sample ID: USTM234TB-SB02

Client Project ID: NV018

Lab Sample ID: G650-122-12

Lab Project ID: G650-122

Report Basis: Dry Weight

Analyzed By: DVG

Date Collected: 8/21/2007 15:30

Date Received: 8/23/2007

Matrix: Soil

Solids 76.47

Analyte	Result MG/KG	RL MG/KG	Prep Method	Dilution Factor	Date Analyzed
Gasoline Range Organics	63.8	6.35	5035	1	08/27/07
Diesel Range Organics	1960	77.6	3541	10	08/29/07

Comments:

Flags:

Reviewed By: RTP

**Results for Total Petroleum Hydrocarbons**
by GC/FID 8015

Client Sample ID: USTM234TB-SB03

Client Project ID: NV018

Lab Sample ID: G650-122-13

Lab Project ID: G650-122

Report Basis: Dry Weight

Analyzed By: DVG

Date Collected: 8/21/2007 15:50

Date Received: 8/23/2007

Matrix: Soil

Solids 79.11

Analyte	Result MG/KG	RL MG/KG	Prep Method	Dilution Factor	Date Analyzed
Gasoline Range Organics	BQL	5.90	5035	1	08/27/07
Diesel Range Organics	BQL	7.48	3541	1	08/28/07

Comments:

Flags:

**Results for Total Petroleum Hydrocarbons**
by GC/FID 8015

Client Sample ID: USTM234TB-SB04

Client Project ID: NV018

Lab Sample ID: G650-122-14

Lab Project ID: G650-122

Report Basis: Dry Weight

Analyzed By: DVG

Date Collected: 8/21/2007 16:10

Date Received: 8/23/2007

Matrix: Soil

Solids 81.99

Analyte	Result MG/KG	RL MG/KG	Prep Method	Dilution Factor	Date Analyzed
Gasoline Range Organics	22.7	7.67	5035	1	08/27/07
Diesel Range Organics	1480	73.5	3541	10	08/29/07

Comments:

Flags:

Reviewed By: Tph

**Results for Total Petroleum Hydrocarbons**
by GC/FID 8015

Client Sample ID: USTM234TB-SB05

Client Project ID: NV018

Lab Sample ID: G650-122-15

Lab Project ID: G650-122

Report Basis: Dry Weight

Analyzed By: DVG

Date Collected: 8/21/2007 16:40

Date Received: 8/23/2007

Matrix: Soil

Solids 83.03

Analyte	Result MG/KG	RL MG/KG	Prep Method	Dilution Factor	Date Analyzed
Gasoline Range Organics	BQL	5.93	5035	1	08/27/07
Diesel Range Organics	33.3	7.27	3541	1	08/29/07

Comments:

Flags:

**Results for Total Petroleum Hydrocarbons**
by GC/FID 8015

Client Sample ID: USTM233TB-SB01

Client Project ID: NV018

Lab Sample ID: G650-122-20

Lab Project ID: G650-122

Report Basis: Dry Weight

Analyzed By: DVG

Date Collected: 8/22/2007 8:45

Date Received: 8/23/2007

Matrix: Soil

Solids 85.15

Analyte	Result MG/KG	RL MG/KG	Prep Method	Dilution Factor	Date Analyzed
Gasoline Range Organics	BQL	5.14	5035	1	08/27/07
Diesel Range Organics	BQL	6.99	3541	1	08/29/07

Comments:

Flags:

**Results for Total Petroleum Hydrocarbons**
by GC/FID 8015

Client Sample ID: USTM233TB-SB02

Client Project ID: NV018

Lab Sample ID: G650-122-21

Lab Project ID: G650-122

Report Basis: Dry Weight

Analyzed By: DVG

Date Collected: 8/22/2007 9:15

Date Received: 8/23/2007

Matrix: Soil

Solids 81.54

Analyte	Result MG/KG	RL MG/KG	Prep Method	Dilution Factor	Date Analyzed
Gasoline Range Organics	51.7	5.67	5035	1	08/27/07
Diesel Range Organics	5460	376	3541	50	08/30/07

Comments:

Flags:

**Results for Total Petroleum Hydrocarbons**
by GC/FID 8015

Client Sample ID: USTM233TB-SB03

Client Project ID: NV018

Lab Sample ID: G650-122-22

Lab Project ID: G650-122

Report Basis: Dry Weight

Analyzed By: DVG

Date Collected: 8/22/2007 9:25

Date Received: 8/23/2007

Matrix: Soil

Solids 76.58

Analyte	Result MG/KG	RL MG/KG	Prep Method	Dilution Factor	Date Analyzed
Gasoline Range Organics	BQL	6.20	5035	1	08/27/07
Diesel Range Organics	BQL	8.00	3541	1	08/29/07

Comments:

Flags:

Reviewed By: 

**Results for Total Petroleum Hydrocarbons**
by GC/FID 8015

Client Sample ID: USTM233TB-SB04

Client Project ID: NV018

Lab Sample ID: G650-122-23

Lab Project ID: G650-122

Report Basis: Dry Weight

Analyzed By: DVG

Date Collected: 8/22/2007 9:45

Date Received: 8/23/2007

Matrix: Soil

Solids 82.68

Analyte	Result MG/KG	RL MG/KG	Prep Method	Dilution Factor	Date Analyzed
Gasoline Range Organics	BQL	5.44	5035	1	08/27/07
Diesel Range Organics	BQL	7.47	3541	1	08/29/07

Comments:

Flags:

**Results for Total Petroleum Hydrocarbons**
by GC/FID 8015

Client Sample ID: USTM233TB-SB05

Client Project ID: NV018

Lab Sample ID: G650-122-24

Lab Project ID: G650-122

Report Basis: Dry Weight

Analyzed By: DVG

Date Collected: 8/22/2007 10:10

Date Received: 8/23/2007

Matrix: Soil

Solids 80.41

Analyte	Result MG/KG	RL MG/KG	Prep Method	Dilution Factor	Date Analyzed
Gasoline Range Organics	BQL	6.24	5035	1	08/27/07
Diesel Range Organics	BQL	7.47	3541	1	08/29/07

Comments:

Flags:

**Results for Total Petroleum Hydrocarbons**
by GC/FID 8015

Client Sample ID: TRIP BLANK
Client Project ID: NV018
Lab Sample ID: G650-122-25
Lab Project ID: G650-122
Report Basis: Dry Weight

Analyzed By: DVG
Date Collected: 8/22/2007 0:00
Date Received: 8/23/2007
Matrix: Soil
Solids 80.41

Analyte	Result MG/KG	RL MG/KG	Prep Method	Dilution Factor	Date Analyzed
Gasoline Range Organics	BQL	7.46	5035	1	08/27/07

Comments:

Flags:

**Results for Total Petroleum Hydrocarbons**
by GC/FID 8015

Client Sample ID: Method Blank

Client Project ID:

Lab Sample ID: PB8969

Lab Project ID:

Report Basis: Dry Weight

Analyzed By: BWS

Date Collected:

Date Received:

Matrix: SOIL

Solids 100.00

Analyte	Result mg/KG	RL mg/KG	Prep Method	Dilution Factor	Date Analyzed
Diesel Range Organics	BQL	6.25	3541	1	08/28/07

Comments:

Flags:

Reviewed By: *rw*
TPH.XLS

**QC Results for Total Petroleum Hydrocarbons**
by GC/FID

Client Sample ID: Batch QC
Lab Sample ID: G650-122-1D
Batch ID: 8969

Analyzed By: BWS
Matrix: Soil
Solids 87.30

MS/MSD

Analyte units	Sample MG/KG	Spiked MG/KG	MS MG/KG	REC %	Spiked MG/KG	MSD MG/KG	REC %	RPD %
DRO	BQL	71	66.5	93.7	69.6	57.3	82.3	13

LCS

Analyte units	Spiked MG/KG	Result MG/KG	REC %	LIMITS	
				Lower	Upper
DRO	62.5	51.2	81.9	40	140

Comments:

Reviewed By: 

**Results for Total Petroleum Hydrocarbons**
by GC/FID 8015

Client Sample ID: Method Blank

Client Project ID:

Lab Sample ID: PB8978

Lab Project ID:

Report Basis: Dry Weight

Analyzed By: BWS

Date Collected:

Date Received:

Matrix: SOIL

Solids 100.00

Analyte	Result mg/KG	RL mg/KG	Prep Method	Dilution Factor	Date Analyzed
Diesel Range Organics	BQL	6.25	3541	1	08/29/07

Comments:

Flags:

**QC Results for Total Petroleum Hydrocarbons**
by GC/FID

Client Sample ID: Batch QC
Lab Sample ID: G520-236-7C
Batch ID: 8978

Analyzed By: BWS
Matrix: Soil
Solids 92.63

MS/MSD

Analyte units	Sample MG/KG	Spiked MG/KG	MS MG/KG	REC %	Spiked MG/KG	MSD MG/KG	REC %	RPD %
DRO	9.89	67.3	64.2	80.7	66.4	61.2	77.3	4.3

LCS

Analyte units	Spiked MG/KG	Result MG/KG	REC %	LIMITS	
				Lower	Upper
DRO	62.5	56.6	90.6	40	140

Comments:

Reviewed By: RW

**Results for Total Petroleum Hydrocarbons**
by GC/FID 8015

Client Sample ID: Method Blank

Client Project ID:

Lab Sample ID: PB8988

Lab Project ID:

Report Basis: Dry Weight

Analyzed By: BWS

Date Collected:

Date Received:

Matrix: SOIL

Solids 100.00

Analyte	Result mg/KG	RL mg/KG	Prep Method	Dilution Factor	Date Analyzed
Diesel Range Organics	BQL	6.25	3541	1	08/30/07

Comments:

Flags:

Reviewed By: 
TPH.XLS

**QC Results for Total Petroleum Hydrocarbons**
by GC/FID

Client Sample ID: Batch QC
Lab Sample ID: G316-13-1L
Batch ID: 8988

Analyzed By: BWS
Matrix: Soil
Solids 91.53

MS/MSD

Analyte units	Sample MG/KG	Spiked MG/KG	MS MG/KG	REC %	Spiked MG/KG	MSD MG/KG	REC %	RPD %
DRO	BQL	67.4	52.6	78	67.6	51.9	76.8	1.55

LCS

Analyte units	Spiked MG/KG	Result MG/KG	REC %	LIMITS Lower Upper
DRO	62.5	51.3	82.1	40 140

Comments:

Reviewed By: RLP

**Results for Volatiles**

by GC 602

Client Sample ID: USTM236TB-TP01

Analyzed By: RSB

Client Project ID: NV018

Date Collected: 8/22/2007 14:35

Lab Sample ID: G650-122-16D

Date Received: 8/23/2007

Lab Project ID: G650-122

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.183	1	8/29/2007	
Diisopropyl ether (DIPE)	BQL	1.00	0.229	1	8/29/2007	
Ethylbenzene	0.556	1.00	0.181	1	8/29/2007	J
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.359	1	8/29/2007	
Toluene	BQL	1.00	0.157	1	8/29/2007	
m/p-Xylene	BQL	2.00	0.481	1	8/29/2007	
o-Xylene	BQL	2.00	0.584	1	8/29/2007	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	35.8	89.5

Comments:

All values corrected for dilution.
BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: USTM234TB-TP01

Analyzed By: RSB

Client Project ID: NV018

Date Collected: 8/22/2007 13:25

Lab Sample ID: G650-122-17D

Date Received: 8/23/2007

Lab Project ID: G650-122

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.183	1	8/29/2007	
Diisopropyl ether (DIPE)	BQL	1.00	0.229	1	8/29/2007	
Ethylbenzene	17.5	1.00	0.181	1	8/29/2007	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.359	1	8/29/2007	
Toluene	0.259	1.00	0.157	1	8/29/2007	J
m/p-Xylene	0.536	2.00	0.481	1	8/29/2007	J
o-Xylene	BQL	2.00	0.584	1	8/29/2007	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	36.0	90.1

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: USTM232TB-TP01

Analyzed By: DVG

Client Project ID: NV018

Date Collected: 8/22/2007 12:20

Lab Sample ID: G650-122-18D

Date Received: 8/23/2007

Lab Project ID: G650-122

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.183	1	8/30/2007	
Diisopropyl ether (DIPE)	BQL	1.00	0.229	1	8/30/2007	
Ethylbenzene	10.3	1.00	0.181	1	8/30/2007	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.359	1	8/30/2007	
Toluene	BQL	1.00	0.157	1	8/30/2007	
m/p-Xylene	1.36	2.00	0.481	1	8/30/2007	J
o-Xylene	BQL	2.00	0.584	1	8/30/2007	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	40.4	101

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: TRIP BLANK

Analyzed By: DVG

Client Project ID: NV018

Date Collected: 8/22/2007 0:00

Lab Sample ID: G650-122-19B

Date Received: 8/23/2007

Lab Project ID: G650-122

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.183	1	8/30/2007	
Diisopropyl ether (DIPE)	BQL	1.00	0.229	1	8/30/2007	
Ethylbenzene	BQL	1.00	0.181	1	8/30/2007	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.359	1	8/30/2007	
Toluene	BQL	1.00	0.157	1	8/30/2007	
m/p-Xylene	BQL	2.00	0.481	1	8/30/2007	
o-Xylene	BQL	2.00	0.584	1	8/30/2007	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	40.1	100

Comments:

All values corrected for dilution.
BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: Method Blank

Analyzed By: DVG

Client Project ID:

Date Collected:

Lab Sample ID: VBLK1083107A

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	8/30/2007	
Diisopropyl ether (DIPE)	BQL	1.00	0.229	1	8/30/2007	
Ethylbenzene	BQL	1.00	0.181	1	8/30/2007	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.359	1	8/30/2007	
Toluene	BQL	1.00	0.157	1	8/30/2007	
m/p-Xylene	BQL	2.00	0.481	1	8/30/2007	
o-Xylene	BQL	2.00	0.584	1	8/30/2007	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	40.1	100

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

Summary Results for QC Check

Method : 601

Filename : 1083107/002F

Compound	SA	Result	Rec	F	QC Limits	
	ug/L	ug/L	(%)		Lower	Upper
Bromodichloromethane	20.0	17.3	86.4		76.0	124.0
Bromoform	20.0	18.5	92.5		73.5	126.5
Bromomethane	20.0	7.8	39.1 +		58.5	141.5
Carbon tetrachloride	40.0	34.9	87.4		68.5	131.5
Chlorobenzene	20.0	19.0	95.0		72.0	128.0
Chloroethane	20.0	16.2	80.9		77.0	123.0
Chloroform	20.0	18.1	90.4		75.0	125.0
Chloromethane	20.0	16.3	81.7		59.5	140.5
Dibromochloromethane	20.0	19.0	94.8		65.5	134.5
• 1,2-Dibromoethane	20.0	21.0	105.2		13.6	186.4
1,2-Dichlorobenzene	20.0	21.0	105.0		70.0	130.0
1,3-Dichlorobenzene	20.0	19.5	97.6		49.5	150.5
1,4-Dichlorobenzene	20.0	19.9	99.3		69.5	130.5
1,1-Dichloroethane	20.0	18.4	92.0		84.0	116.0
1,2-Dichloroethane	20.0	19.6	98.2		71.5	128.5
1,1-Dichloroethene	20.0	17.7	88.4		63.0	137.0
• cis-1,2-Dichloroethene	40.0	41.3	103.2		34.4	180.6
trans-1,2-Dichloroethene	20.0	18.8	94.0		64.0	136.0
1,2-Dichloropropane	20.0	18.9	94.3		74.0	126.0
cis-1,3-Dichloropropene	20.0	18.5	92.7		64.0	136.0
trans-1,3-Dichloropropene	20.0	18.6	93.0		64.0	136.0
Methylene Chloride	20.0	15.7	78.7		77.5	122.5
1,1,2,2-Tetrachloroethane	60.0	65.6	109.4		49.0	151.0
Tetrachloroethene	40.0	40.4	101.0		70.0	130.0
1,1,1-Trichloroethane	20.0	18.1	90.6		71.0	129.0
1,1,2-Trichloroethane	20.0	20.0	100.0		78.5	121.5
Trichloroethene	20.0	19.2	96.2		77.0	123.0
Trichlorofluoromethane	20.0	16.7	83.6		66.5	133.5
Vinyl Chloride	20.0	16.7	83.5		68.5	131.5

Method: 602

Filename : 1083107/002R

Compound	SA	Result	Rec		QC Limits	
	ug/L	ug/L	(%)		Lower	Upper
Benzene	20.0	19.3	96.5		77.0	123.0
Chlorobenzene	20.0	19.3	96.4		80.5	119.5
1,2-Dichlorobenzene	40.0	40.9	102.2		68.0	132.0
1,3-Dichlorobenzene	20.0	19.6	98.1		72.5	127.5
1,4-Dichlorobenzene	40.0	38.9	97.2		69.5	130.5
• Diisopropyl ether	20.0	19.7	98.3		43.1	156.9
Ethylbenzene	20.0	19.9	99.6		63.0	137.0
• MTBE	40.0	39.1	97.7		46.8	153.2
Toluene	20.0	19.6	97.9		77.5	127.0
• m,p-Xylene	40.0	40.1	100.2		11.2	188.8
• o-Xylene	40.0	39.4	98.4		47.6	152.4

Flags :

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

Summary Results for Laboratory Control Spike

Method : 601

Filename : 1083107/003F

Compound	SA	Result	Rec	F	LCS Limits	
	ug/L	ug/L	(%)		Lower	Upper
Bromodichloromethane	10.0	8.7	87.4		42	172
Bromoform	10.0	8.8	87.9		13	159
Bromomethane	10.0	4.7	46.6		0	144
Carbon tetrachloride	20.0	17.5	87.5		43	143
Chlorobenzene	10.0	8.8	87.8		38	150
Chloroethane	10.0	8.3	82.8		46	137
Chloroform	10.0	8.9	89.4		49	133
Chloromethane	10.0	8.5	85.1		0	193
Dibromochloromethane	10.0	9.3	93.2		24	191
• 1,2-Dibromoethane	10.0	10.1	101.3		0	206
1,2-Dichlorobenzene	10.0	9.5	94.8		0	208
1,3-Dichlorobenzene	10.0	9.3	93.3		7	187
1,4-Dichlorobenzene	10.0	9.6	96.4		42	143
1,1-Dichloroethane	10.0	8.3	82.5		47	132
1,2-Dichloroethane	10.0	9.6	96.3		51	147
1,1-Dichloroethene	10.0	8.1	80.7		28	167
• cis-1,2-Dichloroethene	20.0	20.1	100.7		19	181
trans-1,2-Dichloroethene	10.0	8.5	85.4		38	155
1,2-Dichloropropane	10.0	9.6	96.4		44	156
cis-1,3-Dichloropropene	10.0	8.8	87.5		22	178
trans-1,3-Dichloropropene	10.0	8.7	86.8		22	178
Methylene Chloride	10.0	6.8	68.5		25	162
1,1,2,2-Tetrachloroethane	30.0	32.8	109.2		8	184
Tetrachloroethane	10.0	9.2	91.9		26	162
1,1,1-Trichloroethane	10.0	8.8	87.5		41	138
1,1,2-Trichloroethane	10.0	9.9	99.0		39	136
Trichloroethene	10.0	9.1	90.8		35	146
Trichlorofluoromethane	10.0	8.7	86.5		21	156
Vinyl Chloride	10.0	8.7	87.3		28	163

Method: 602

Filename : 1083107/003R

Compound	SA	Result	Rec	LCS Limits	
	ug/L	ug/L	(%)	Lower	Upper
Benzene	10.0	9.2	91.9	39	150
Chlorobenzene	10.0	9.2	91.8	55	135
1,2-Dichlorobenzene	20.0	19.6	98.1	37	154
1,3-Dichlorobenzene	10.0	9.4	94.4	50	141
1,4-Dichlorobenzene	20.0	18.9	94.3	42	143
• Diisopropyl ether	10.0	9.4	93.6	30	170
Ethylbenzene	10.0	9.5	94.7	32	160
• MTBE	20.0	18.9	94.6	35	165
Toluene	10.0	9.4	93.8	46	148
• m,p-Xylene	20.0	19.0	95.0	0	239
• o-Xylene	20.0	18.7	93.4	36	164

Flags :

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

Summary Results for MS-MSD

Sample : 1083107/016F::1083107/016R

MS : 1083107/018F::1083107/018R

MSD : 1083107/019F::1083107/019R

Compound	SA	µg/L			REC(%)		REC Limits	
		Sam.	MS	MSD	MS	MSD	Lower	Upper
Bromodichloromethane	10.0	ND	8.6	9.0	86	90	42	172
Bromoform	10.0	ND	7.6	8.4	76	84	13	159
Bromomethane	10.0	ND	2.6	4.1	26	41	D	144
Carbon tetrachloride	20.0	ND	15.0	16.1	75	80	43	143
Chlorobenzene	10.0	ND	9.6	10.6	96	106	38	150
Chloroethane	10.0	ND	9.6	10.6	96	106	46	137
Chloroform	10.0	ND	9.3	9.8	93	98	49	133
Chloromethane	10.0	ND	9.7	11.5	93	111	D	193
Dibromochloromethane	10.0	ND	8.4	9.6	84	96	24	191
1,2-Dibromoethane	10.0	ND	9.8	10.9	98	109	D	206
1,2-Dichlorobenzene	10.0	ND	8.7	9.8	87	98	D	208
1,3-Dichlorobenzene	10.0	ND	8.5	9.6	85	96	7	187
1,4-Dichlorobenzene	10.0	ND	8.6	9.8	86	98	42	143
1,1-Dichloroethane	10.0	ND	9.4	9.5	94	95	47	132
1,2-Dichloroethane	10.0	ND	9.5	9.9	95	99	51	147
1,1-Dichloroethene	10.0	ND	9.0	9.5	90	95	28	167
cis-1,2-Dichloroethene	20.0	ND	16.1	16.4	81	82	19	181
trans-1,2-Dichloroethene	10.0	ND	9.5	9.9	96	100	38	155
1,2-Dichloropropane	10.0	ND	10.0	10.3	90	93	44	156
cis-1,3-Dichloropropene	10.0	ND	6.0	6.3	60	63	22	178
trans-1,3-Dichloropropene	10.0	ND	6.2	6.6	62	66	22	178
Methylene Chloride	10.0	ND	9.4	9.5	101	102	25	162
1,1,2,2-Tetrachloroethane	30.0	ND	30.1	34.8	100	116	8	184
Tetrachloroethane	20.0	ND	19.7	27.6	101	140	26	162
1,1,1-Trichloroethane	10.0	ND	9.3	9.5	93	95	41	138
1,1,2-Trichloroethane	10.0	ND	9.8	12.6	98	126	39	136
Trichloroethene	10.0	ND	9.6	9.8	95	97	35	146
Trichlorofluoromethane	10.0	ND	10.2	11.0	102	110	21	156
Vinyl Chloride	10.0	ND	10.3	11.4	102	113	28	163

Method: 602

Compound	SA	µg/L			P(%)		P Limits	
		Sam.	MS	MSD	MS	MSD	Lower	Upper
Benzene	10.0	ND	9.4	9.7	94	97	39	150
Chlorobenzene	10.0	ND	9.3	9.6	93	96	55	135
1,2-Dichlorobenzene	10.0	ND	14.9	15.8	142	151	37	154
1,3-Dichlorobenzene	10.0	ND	8.3	8.8	83	88	50	141
1,4-Dichlorobenzene	20.0	ND	16.6	17.8	83	89	42	143
Diisopropyl ether	10.0	ND	9.2	9.5	92	95	30	170
Ethylbenzene	10.0	ND	9.8	10.1	96	100	32	160
MTBE	20.0	ND	18.6	19.3	93	97	35	165
Toluene	10.0	ND	9.6	9.9	96	99	46	148
m,p-Xylene	20.0	ND	18.7	19.3	94	97	D	239
o-Xylene	20.0	ND	18.0	18.7	90	94	36	164

Flags :

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

**Results for Volatiles**

by GC 602

Client Sample ID: Method Blank

Analyzed By: DVG

Client Project ID:

Date Collected:

Lab Sample ID: VBLK5082907A

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	8/30/2007	
Diisopropyl ether (DIPE)	BQL	1.00	0.229	1	8/30/2007	
Ethylbenzene	BQL	1.00	0.181	1	8/30/2007	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.359	1	8/30/2007	
Toluene	BQL	1.00	0.157	1	8/30/2007	
m/p-Xylene	BQL	2.00	0.481	1	8/30/2007	
o-Xylene	BQL	2.00	0.584	1	8/30/2007	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	36.5	91.2

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

Summary Results for QC Check

Method : 601

Filename : 5082907/102b

Compound	SA	Result	Rec	F	QC Limits	
	ug/L	ug/L	(%)		Lower	Upper
Bromodichloromethane	20.0	21.2	106.0		76.0	124.0
Bromoform	20.0	21.0	105.0		73.5	126.5
Bromomethane	20.0	18.2	90.9		58.5	141.5
Carbon tetrachloride	40.0	43.1	107.7		68.5	131.5
Chlorobenzene	20.0	20.6	103.0		72.0	128.0
Chloroethane	20.0	20.6	102.8		77.0	123.0
Chloroform	20.0	21.7	108.7		75.0	125.0
Chloromethane	20.0	18.2	90.8		59.5	140.5
Dibromochloromethane	20.0	20.8	103.8		65.5	134.5
• 1,2-Dibromoethane	20.0	22.1	110.3		13.6	186.4
1,2-Dichlorobenzene	20.0	20.7	103.5		70.0	130.0
1,3-Dichlorobenzene	20.0	21.3	106.3		49.5	160.5
1,4-Dichlorobenzene	20.0	21.0	105.1		69.5	130.5
1,1-Dichloroethane	20.0	22.0	110.2		84.0	116.0
1,2-Dichloroethane	20.0	21.6	107.4		71.5	128.5
1,1-Dichloroethene	20.0	22.5	112.3		63.0	137.0
• cis-1,2-Dichloroethene	40.0	46.2	115.5		34.4	180.6
trans-1,2-Dichloroethene	20.0	21.1	105.5		64.0	136.0
1,2-Dichloropropane	20.0	21.6	107.9		74.0	126.0
cis-1,3-Dichloropropene	20.0	21.2	105.8		64.0	136.0
trans-1,3-Dichloropropene	20.0	21.0	104.8		64.0	136.0
Methylene Chloride	20.0	18.7	93.6		77.5	122.5
1,1,2,2-Tetrachloroethane	30.0	42.9	142.9		49.0	151.0
Tetrachloroethene	40.0	42.9	107.1		70.0	130.0
1,1,1-Trichloroethane	20.0	21.7	108.7		71.0	129.0
1,1,2-Trichloroethane	20.0	20.3	101.3		78.5	121.5
Trichloroethene	20.0	21.6	107.9		77.0	123.0
Trichlorofluoromethane	20.0	20.7	103.4		66.5	133.5
Vinyl Chloride	20.0	17.8	88.9		68.5	131.5

Method: 602

Filename : 5082907/002f

Compound	SA	Result	Rec		QC Limits	
	ug/L	ug/L	(%)		Lower	Upper
Benzene	20.0	18.4	92.0		77.0	123.0
Chlorobenzene	20.0	18.1	90.4		80.5	119.5
1,2-Dichlorobenzene	20.0	17.7	88.3		68.0	132.0
1,3-Dichlorobenzene	40.0	9.6	24.1 +		72.5	127.5
1,4-Dichlorobenzene	20.0	17.9	89.7		69.5	130.5
• Diisopropyl ether	20.0	17.4	87.0		43.1	156.9
Ethylbenzene	20.0	18.7	93.7		63.0	137.0
• MTBE	40.0	36.4	91.0		46.8	153.2
Toluene	20.0	18.5	92.5		77.5	127.0
• m,p-Xylene	40.0	37.5	93.7		11.2	188.8
• o-Xylene	40.0	36.6	91.6		47.6	152.4

Flags :

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

Summary Results for MS-MSD

Sample : 5082907/116b::5082907/016f

MS : 5082907/118b::5082907/018f

MSD : 5082907/119b::5082907/019f

Compound	SA	µg/L			REC(%)		REC Limits	
		Sam.	MS	MSD	MS	MSD	Lower	Upper
Bromodichloromethane	10.0	ND	10.2	9.5	102	95	42	172
Bromoform	10.0	ND	9.9	9.0	99	90	13	159
Bromomethane	10.0	ND	10.3	10.0	102	98	0	144
Carbon tetrachloride	20.0	ND	21.7	19.9	109	100	43	143
Chlorobenzene	10.0	ND	10.6	10.0	106	100	38	150
Chloroethane	10.0	ND	12.7	11.7	127	117	46	137
Chloroform	10.0	ND	10.7	10.1	107	101	49	133
Chloromethane	10.0	ND	16.7	13.9	157	139	0	193
Dibromochloromethane	10.0	ND	10.1	9.2	100	91	24	191
1,2-Dibromoethane	10.0	ND	10.8	9.4	108	94	D	206
1,2-Dichlorobenzene	10.0	ND	10.9	9.9	109	99	D	208
1,3-Dichlorobenzene	10.0	ND	10.8	9.9	108	99	7	187
1,4-Dichlorobenzene	10.0	ND	10.8	10.0	108	100	42	143
1,1-Dichloroethane	10.0	ND	11.2	10.2	112	102	47	132
1,2-Dichloroethane	10.0	ND	11.0	10.3	110	103	51	147
1,1-Dichloroethene	10.0	ND	12.6	11.3	125	113	28	167
cis-1,2-Dichloroethene	20.0	ND	23.2	21.4	116	107	19	181
trans-1,2-Dichloroethene	10.0	ND	11.3	10.5	113	105	38	155
1,2-Dichloropropane	10.0	ND	10.3	9.6	103	96	44	156
cis-1,3-Dichloropropene	10.0	ND	9.9	9.3	99	93	22	178
trans-1,3-Dichloropropene	10.0	ND	10.3	9.5	101	94	22	178
Methylene Chloride	10.0	ND	10.3	9.0	103	90	26	162
1,1,1,2-Tetrachloroethane	20.0	ND	20.8	19.6	104	98	8	184
Tetrachloroethane	20.0	ND	22.4	20.9	112	105	26	162
1,1,1-Trichloroethane	10.0	ND	10.7	10.2	107	102	41	138
1,1,2-Trichloroethane	10.0	ND	10.3	9.6	103	96	39	136
Trichloroethene	10.0	ND	11.1	10.3	111	103	35	146
Trichlorofluoromethane	10.0	ND	10.1	10.0	101	100	21	156
Vinyl Chloride	10.0	ND	9.0	8.7	90	87	28	163

Method: 602

Compound	SA	µg/L			P(%)		P Limits	
		Sam.	MS	MSD	MS	MSD	Lower	Upper
Benzene	10.0	1.3	10.6	9.8	93	85	39	150
Chlorobenzene	10.0	ND	9.2	8.2	92	82	55	135
1,2-Dichlorobenzene	10.0	1.9	9.0	8.1	70	62	37	154
1,3-Dichlorobenzene	10.0	ND	7.3	8.9	71	87	50	141
1,4-Dichlorobenzene	20.0	1.5	9.9	9.1	42 +	38 +	42	143
Diisopropyl ether	10.0	ND	8.8	8.1	88	81	30	170
Ethylbenzene	10.0	2.6	12.0	11.2	94	87	32	160
MTBE	20.0	ND	18.3	16.9	91	85	35	165
Toluene	10.0	21.2	30.9	30.7	97	95	46	148
m,p-Xylene	20.0	9.8	28.7	27.4	94	88	0	239
o-Xylene	20.0	4.6	23.1	22.0	93	87	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 : 5082907/103b

Compound	SA	Result	Rec	F	LCS Limits	
	ug/L	ug/L	(%)		Lower	Upper
Bromodichloromethane	10.0	10.6	105.8		42	172
Bromoform	10.0	10.3	102.7		13	159
Bromomethane	10.0	8.5	85.4		0	144
Carbon tetrachloride	20.0	22.0	110.0		43	143
Chlorobenzene	10.0	10.6	105.8		38	150
Chloroethane	10.0	9.3	92.9		46	137
Chloroform	10.0	10.7	107.3		49	133
Chloromethane	10.0	8.1	81.4		0	193
Dibromochloromethane	10.0	10.3	102.8		24	191
• 1,2-Dibromoethane	10.0	11.0	110.1		0	206
1,2-Dichlorobenzene	10.0	11.0	110.0		0	208
1,3-Dichlorobenzene	10.0	11.0	110.1		7	187
1,4-Dichlorobenzene	10.0	10.9	109.1		42	143
1,1-Dichloroethane	10.0	10.9	108.7		47	132
1,2-Dichloroethane	10.0	10.7	106.5		51	147
1,1-Dichloroethene	10.0	11.0	110.3		28	167
• cis-1,2-Dichloroethene	20.0	24.5	122.6		19	181
trans-1,2-Dichloroethene	10.0	10.2	102.2		38	155
1,2-Dichloropropane	10.0	10.6	105.6		44	156
cis-1,3-Dichloropropene	10.0	10.1	100.6		22	178
trans-1,3-Dichloropropene	10.0	10.5	105.0		22	178
Methylene Chloride	10.0	8.0	79.8		25	162
1,1,2,2-Tetrachloroethane	20.0	21.8	109.1		8	184
Tetrachloroethane	20.0	22.2	110.8		26	162
1,1,1-Trichloroethane	10.0	10.9	109.1		41	138
1,1,2-Trichloroethane	10.0	10.6	105.9		39	136
Trichloroethene	10.0	10.9	109.2		35	146
Trichlorofluoromethane	10.0	9.6	96.1		21	156
Vinyl Chloride	10.0	8.2	82.3		28	163

Method: 602

Filename : 5082907/003f

Compound	SA	Result	Rec	LCS Limits	
	ug/L	ug/L	(%)	Lower	Upper
Benzene	10.0	9.3	93.4	39	150
Chlorobenzene	10.0	9.3	92.5	55	135
1,2-Dichlorobenzene	10.0	9.3	92.6	37	154
1,3-Dichlorobenzene	10.0	10.1	101.5	50	141
1,4-Dichlorobenzene	10.0	9.3	92.7	42	143
• Diisopropyl ether	10.0	8.8	88.4	30	170
Ethylbenzene	10.0	9.5	95.4	32	160
• MTBE	20.0	18.4	92.2	35	165
Toluene	10.0	9.4	94.3	46	148
• m,p-Xylene	20.0	19.2	96.2	0	239
• o-Xylene	20.0	18.9	94.7	36	164

Flags :

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

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTM236TB-TP01
Client Project ID: NV018
Lab Sample ID: G650-122-16H
Lab Project ID: G650-122

Analyzed By: DCS
Date Collected: 8/22/2007 14:35
Date Received: 8/23/2007
Date Extracted: 8/24/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
Acenaphthene	BQL	10.0	1	9/11/2007
Acenaphthylene	BQL	10.0	1	9/11/2007
Anthracene	BQL	10.0	1	9/11/2007
Benzo[a]anthracene	BQL	10.0	1	9/11/2007
Benzo[a]pyrene	BQL	10.0	1	9/11/2007
Benzo[b]fluoranthene	BQL	10.0	1	9/11/2007
Benzo[g,h,i]perylene	BQL	10.0	1	9/11/2007
Benzo[k]fluoranthene	BQL	10.0	1	9/11/2007
Bis(2-chloroethoxy)methane	BQL	10.0	1	9/11/2007
Bis(2-chloroethyl)ether	BQL	10.0	1	9/11/2007
Bis(2-chloroisopropyl)ether	BQL	10.0	1	9/11/2007
Bis(2-ethylhexyl)phthalate	BQL	10.0	1	9/11/2007
4-bromophenyl phenyl ether	BQL	10.0	1	9/11/2007
Butylbenzylphthalate	BQL	10.0	1	9/11/2007
2-Chloronaphthalene	BQL	10.0	1	9/11/2007
2-Chlorophenol	BQL	10.0	1	9/11/2007
4-Chloro-3-methylphenol	BQL	10.0	1	9/11/2007
4-Chlorophenyl phenyl ether	BQL	10.0	1	9/11/2007
Chrysene	BQL	10.0	1	9/11/2007
Dibenzo[a,h]anthracene	BQL	10.0	1	9/11/2007
Di-n-Butylphthalate	BQL	10.0	1	9/11/2007
3,3'-Dichlorobenzidine	BQL	20.0	1	9/11/2007
2,4-Dichlorophenol	BQL	10.0	1	9/11/2007
Diethylphthalate	BQL	10.0	1	9/11/2007
Dimethylphthalate	BQL	10.0	1	9/11/2007
2,4-Dimethylphenol	BQL	10.0	1	9/11/2007
Di-n-octylphthalate	BQL	10.0	1	9/11/2007
4,6-Dinitro-2-methylphenol	BQL	50.0	1	9/11/2007
2,4-Dinitrophenol	BQL	50.0	1	9/11/2007
2,4-Dinitrotoluene	BQL	10.0	1	9/11/2007
2,6-Dinitrotoluene	BQL	10.0	1	9/11/2007
Diphenylamine *	BQL	10.0	1	9/11/2007
Fluoranthene	BQL	10.0	1	9/11/2007
Fluorene	BQL	10.0	1	9/11/2007
Hexachlorobenzene	BQL	10.0	1	9/11/2007
Hexachlorobutadiene	BQL	10.0	1	9/11/2007
Hexachlorocyclopentadiene	BQL	20.0	1	9/11/2007
Hexachloroethane	BQL	10.0	1	9/11/2007
Indeno(1,2,3-c,d)pyrene	BQL	10.0	1	9/11/2007
Isophorone	BQL	10.0	1	9/11/2007
Naphthalene	BQL	10.0	1	9/11/2007
Nitrobenzene	BQL	10.0	1	9/11/2007
2-Nitrophenol	BQL	10.0	1	9/11/2007
4-Nitrophenol	BQL	50.0	1	9/11/2007
N-Nitrosodi-n-propylamine	BQL	10.0	1	9/11/2007
Pentachlorophenol	BQL	50.0	1	9/11/2007
Phenanthrene	BQL	10.0	1	9/11/2007

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTM236TB-TP01
Client Project ID: NV018
Lab Sample ID: G650-122-16H
Lab Project ID: G650-122

Analyzed By: DCS
Date Collected: 8/22/2007 14:35
Date Received: 8/23/2007
Date Extracted: 8/24/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
Phenol	BQL	10.0	1	9/11/2007
Pyrene	BQL	10.0	1	9/11/2007
1,2,4-Trichlorobenzene	BQL	10.0	1	9/11/2007
2,4,6-Trichlorophenol	BQL	10.0	1	9/11/2007

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	8	80
2-Fluorophenol	10	8.5	85
Nitrobenzene-d5	10	8	80
Phenol-d6	10	7	70
2,4,6-Tribromophenol	10	6.5	65
4-Terphenyl-d14	10	11	110

Comments:

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

Flags:

BQL = Below Quantitation Limits.

Reviewed By:

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

Client Sample ID: USTM236TB-TP01
Client Project ID: NV018
Lab Sample ID: G650-122-16H
Lab Project ID: G650-122
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: EAW
Date Collected: 8/22/2007 14:35
Date Received: 8/23/2007
Date Extracted: 8/24/2007
Date Analyzed: 9/11/2007
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Naphthalene, 1,5-dimethyl-	10.71	000571-61-9	97	16.2
2	Unknown	5.73			13.6
3	Naphthalene, 1,4,6-trimethyl-	11.43	002131-42-2	92	12.4
4	Alkane, Unknown	12.85			12.1
5	Naphthalene, 1,6-dimethyl-	10.59	000575-43-9	97	11.6
6	Aromatic, Unknown	6.82			11.4
7	1H-Indene, 2,3-dihydro-5-methyl-	8.08	000874-35-1	90	9.81
8	Unknown	11.39			8.48
9	Naphthalene, 1,3-dimethyl-	10.88	000575-41-7	95	8.14
10	Unknown	12.20			7.92

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: EW

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTM234TB-TP01
Client Project ID: NV018
Lab Sample ID: G650-122-17H
Lab Project ID: G650-122

Analyzed By: DCS
Date Collected: 8/22/2007 13:25
Date Received: 8/23/2007
Date Extracted: 8/24/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	6.60	10.0	1.22	1	8/28/2007	J
Acenaphthylene	BQL	10.0	1.12	1	8/28/2007	
Anthracene	BQL	10.0	1.75	1	8/28/2007	
Benzo[a]anthracene	BQL	10.0	1.36	1	8/28/2007	
Benzo[a]pyrene	BQL	10.0	1.27	1	8/28/2007	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	8/28/2007	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	8/28/2007	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	8/28/2007	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	8/28/2007	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	8/28/2007	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	8/28/2007	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	8/28/2007	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	8/28/2007	
Butylbenzylphthalate	BQL	10.0	1.53	1	8/28/2007	
2-Chloronaphthalene	BQL	10.0	1.25	1	8/28/2007	
2-Chlorophenol	BQL	10.0	4.22	1	8/28/2007	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	8/28/2007	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	8/28/2007	
Chrysene	BQL	10.0	1.11	1	8/28/2007	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	8/28/2007	
Di-n-Butylphthalate	BQL	10.0	1.65	1	8/28/2007	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	8/28/2007	
2,4-Dichlorophenol	BQL	10.0	3.75	1	8/28/2007	
Diethylphthalate	BQL	10.0	1.48	1	8/28/2007	
Dimethylphthalate	BQL	10.0	1.04	1	8/28/2007	
2,4-Dimethylphenol	BQL	10.0	9.25	1	8/28/2007	
Di-n-octylphthalate	BQL	10.0	1.16	1	8/28/2007	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	8/28/2007	
2,4-Dinitrophenol	BQL	50.0	4.20	1	8/28/2007	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	8/28/2007	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	8/28/2007	
Diphenylamine *	BQL	10.0	1.53	1	8/28/2007	
Fluoranthene	BQL	10.0	1.41	1	8/28/2007	
Fluorene	11.3	10.0	1.22	1	8/28/2007	
Hexachlorobenzene	BQL	10.0	1.22	1	8/28/2007	
Hexachlorobutadiene	BQL	10.0	1.58	1	8/28/2007	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	8/28/2007	
Hexachloroethane	BQL	10.0	1.58	1	8/28/2007	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	8/28/2007	
Isophorone	BQL	10.0	1.27	1	8/28/2007	
Naphthalene	31.6	10.0	1.08	1	8/28/2007	
Nitrobenzene	BQL	10.0	1.32	1	8/28/2007	
2-Nitrophenol	BQL	10.0	3.52	1	8/28/2007	
4-Nitrophenol	BQL	50.0	3.17	1	8/28/2007	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	8/28/2007	
Pentachlorophenol	BQL	50.0	2.83	1	8/28/2007	
Phenanthrene	13.7	10.0	1.38	1	8/28/2007	

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTM234TB-TP01
Client Project ID: NV018
Lab Sample ID: G650-122-17H
Lab Project ID: G650-122

Analyzed By: DCS
Date Collected: 8/22/2007 13:25
Date Received: 8/23/2007
Date Extracted: 8/24/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Phenol	BQL	10.0	3.38	1	8/28/2007	
Pyrene	BQL	10.0	2.08	1	8/28/2007	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	8/28/2007	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	8/28/2007	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	7.6	76		
2-Fluorophenol		10	7.9	79		
Nitrobenzene-d5		10	8.1	81		
Phenol-d6		10	7.7	77		
2,4,6-Tribromophenol		10	8.7	87		
4-Terphenyl-d14		10	10.2	102		

Comments:

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

Flags:

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By: Red

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

Client Sample ID: USTM234TB-TP01
Client Project ID: NV018
Lab Sample ID: G650-122-17H
Lab Project ID: G650-122
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: EAW
Date Collected: 8/22/2007 13:25
Date Received: 8/23/2007
Date Extracted: 8/24/2007
Date Analyzed: 8/28/2007
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Naphthalene, 1,3-dimethyl-	10.84	000575-41-7	97	68.5
2	Naphthalene, 2,7-dimethyl-	10.73	000582-16-1	97	56.2
3	Aromatic, Unknown	6.94			45.5
4	Pentadecane	11.07	000629-62-9	90	36.8
5	2,3-Dihydro-1-methylindene	8.21	027133-93-3	93	34.5
6	Pentadecane, 2,6,10,14-tetramethyl-	13.00	001921-70-6	98	33.2
7	Naphthalene, 1-ethyl-	10.62	001127-76-0	94	30.4
8	Naphthalene, 1,4,6-trimethyl-	11.57	002131-42-2	93	29.4
9	Naphthalene, 1,3-dimethyl-	11.02	000575-41-7	97	29.2
10	Naphthalene, 1,6,7-trimethyl-	11.91	002245-38-7	98	26.5

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: USTM232TB-TP01
Client Project ID: NV018
Lab Sample ID: G650-122-18H
Lab Project ID: G650-122

Analyzed By: DCS
Date Collected: 8/22/2007 12:20
Date Received: 8/23/2007
Date Extracted: 8/27/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	3.70	10.0	1.22	1	8/28/2007	J
Acenaphthylene	BQL	10.0	1.12	1	8/28/2007	
Anthracene	5.60	10.0	1.75	1	8/28/2007	J
Benzo[a]anthracene	BQL	10.0	1.36	1	8/28/2007	
Benzo[a]pyrene	BQL	10.0	1.27	1	8/28/2007	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	8/28/2007	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	8/28/2007	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	8/28/2007	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	8/28/2007	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	8/28/2007	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	8/28/2007	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	8/28/2007	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	8/28/2007	
Butylbenzylphthalate	BQL	10.0	1.53	1	8/28/2007	
2-Chloronaphthalene	BQL	10.0	1.25	1	8/28/2007	
2-Chlorophenol	BQL	10.0	4.22	1	8/28/2007	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	8/28/2007	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	8/28/2007	
Chrysene	BQL	10.0	1.11	1	8/28/2007	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	8/28/2007	
Di-n-Butylphthalate	BQL	10.0	1.65	1	8/28/2007	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	8/28/2007	
2,4-Dichlorophenol	BQL	10.0	3.75	1	8/28/2007	
Diethylphthalate	1.70	10.0	1.48	1	8/28/2007	J
Dimethylphthalate	BQL	10.0	1.04	1	8/28/2007	
2,4-Dimethylphenol	BQL	10.0	9.25	1	8/28/2007	
Di-n-octylphthalate	BQL	10.0	1.16	1	8/28/2007	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	8/28/2007	
2,4-Dinitrophenol	BQL	50.0	4.20	1	8/28/2007	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	8/28/2007	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	8/28/2007	
Diphenylamine *	BQL	10.0	1.53	1	8/28/2007	
Fluoranthene	BQL	10.0	1.41	1	8/28/2007	
Fluorene	5.60	10.0	1.22	1	8/28/2007	J
Hexachlorobenzene	BQL	10.0	1.22	1	8/28/2007	
Hexachlorobutadiene	BQL	10.0	1.58	1	8/28/2007	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	8/28/2007	
Hexachloroethane	BQL	10.0	1.58	1	8/28/2007	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	8/28/2007	
Isophorone	BQL	10.0	1.27	1	8/28/2007	
Naphthalene	56.9	10.0	1.08	1	8/28/2007	
Nitrobenzene	BQL	10.0	1.32	1	8/28/2007	
2-Nitrophenol	BQL	10.0	3.52	1	8/28/2007	
4-Nitrophenol	BQL	50.0	3.17	1	8/28/2007	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	8/28/2007	
Pentachlorophenol	BQL	50.0	2.83	1	8/28/2007	
Phenanthrene	5.60	10.0	1.38	1	8/28/2007	J

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTM232TB-TP01
Client Project ID: NV018
Lab Sample ID: G650-122-18H
Lab Project ID: G650-122

Analyzed By: DCS
Date Collected: 8/22/2007 12:20
Date Received: 8/23/2007
Date Extracted: 8/27/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Phenol	BQL	10.0	3.38	1	8/28/2007	
Pyrene	BQL	10.0	2.08	1	8/28/2007	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	8/28/2007	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	8/28/2007	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	7.4	74		
2-Fluorophenol		10	9.1	91		
Nitrobenzene-d5		10	8	80		
Phenol-d6		10	7.7	77		
2,4,6-Tribromophenol		10	8.8	88		
4-Terphenyl-d14		10	10.4	104		

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: USTM232TB-TP01
Client Project ID: NV018
Lab Sample ID: G650-122-18H
Lab Project ID: G650-122
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: EAW
Date Collected: 8/22/2007 12:20
Date Received: 8/23/2007
Date Extracted: 8/27/2007
Date Analyzed: 8/28/2007
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Naphthalene, 2,3-dimethyl-	10.84	000581-40-8	97	38.9
2	Naphthalene, 1,6-dimethyl-	10.73	000575-43-9	97	32.1
3	Naphthalene, 1,5-dimethyl-	10.88	000571-61-9	96	28.1
4	Aromatic, Unknown	8.21			25.3
5	Aromatic, Unknown	11.90			24.1
6	Unknown	10.06			18.6
7	Naphthalene, 1-ethyl-	10.62	001127-76-0	94	17.4
8	Naphthalene, 2,3-dimethyl-	11.02	000581-40-8	97	17
9	Alkane, Unknown	13.00			17
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: W



VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Sovereign ConsultingProject Name: NV018

Sample Information	
Sample Identification	USTM236TB-TP01
Sample Matrix	Water
Collection Option (for Soil)*	NA
Date Collected	08/22/07
Date Received	08/23/07
Date Extracted	08/25/07 06:17 - 08/25/07 06:17
Date Analyzed	08/25/07 06:17 - 08/25/07 06:17
Dry Weight	NA
Dilution Factor	1 - 1

Analytical Results			
Analyte	Result µg/L	Report Limit µg/L	Flags
C ₅ -C ₈ Aliphatics**	BQL	100	
C ₉ -C ₁₂ Aliphatics**	BQL	100	
C ₉ -C ₁₀ Aromatics**	BQL	100	
	Percent Recovery	Flags	Limits Lower Upper
	Surrogate % Recovery - PID	103	70 130
	Surrogate % Recovery - FID	104	70 130

* = 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 and are unadjusted for individual analytes.

Lab Info: g650-122-16g	Lab Info: g650-122-16g
FID Info: VP082407/043F0101.D	PID Info: VP082407/043R0101.D

Reviewed By: lm



VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Sovereign ConsultingProject Name: NV018

Sample Information	
Sample Identification	USTM234TB-TP01
Sample Matrix	Water
Collection Option (for Soil)*	NA
Date Collected	08/22/07
Date Received	08/23/07
Date Extracted	08/25/07 06:44 - 08/25/07 06:44
Date Analyzed	08/25/07 06:44 - 08/25/07 06:44
Dry Weight	NA
Dilution Factor	1 - 1

Analytical Results				
Analyte	Result µg/L	Report Limit µg/L	Flags	
C ₅ -C ₈ Aliphatics**	BQL	100		
C ₉ -C ₁₂ Aliphatics**	230	100		
C ₉ -C ₁₀ Aromatics**	203	100		
	Percent Recovery	Flags	Limits Lower Upper	
Surrogate % Recovery - PID	104		70	130
Surrogate % Recovery - FID	107		70	130

* = 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 and are unadjusted for individual analytes.

Lab Info: g650-122-17g	Lab Info: g650-122-17g
FID Info: VP082407/044F0101.D	PID Info: VP082407/044R0101.D

Reviewed By: SM

**VPH (Aliphatics/Aromatics) Laboratory Reporting Form**Client Name: Sovereign ConsultingProject Name: NV018

Sample Information	
Sample Identification	USTM232TB-TP01
Sample Matrix	Water
Collection Option (for Soil)*	NA
Date Collected	08/22/07
Date Received	08/23/07
Date Extracted	08/28/07 00:03 - 08/28/07 00:03
Date Analyzed	08/28/07 00:03 - 08/28/07 00:03
Dry Weight	NA
Dilution Factor	1 - 1

Analytical Results				
Analyte	Result µg/L	Report Limit µg/L	Flags	
C ₅ -C ₈ Aliphatics**	BQL	100		
C ₉ -C ₁₂ Aliphatics**	110	100		
C ₉ -C ₁₀ Aromatics**	BQL	100		
	Percent Recovery	Flags	Limits Lower Upper	
Surrogate % Recovery - PID	90.0		70	130
Surrogate % Recovery - FID	91.2		70	130

* = 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 and are unadjusted for individual analytes.

Lab Info: g650-122-18e	Lab Info: g650-122-18e
FID Info: VP082707/034F0101.D	PID Info: VP082707/034R0101.D

Reviewed By: 2-1

**VPH (Aliphatics/Aromatics) Laboratory Reporting Form**Client Name: Sovereign ConsultingProject Name: NV018

Sample Information	
Sample Identification	TRIP BLANK
Sample Matrix	Water
Collection Option (for Soil)*	NA
Date Collected	08/22/07
Date Received	08/23/07
Date Extracted	08/27/07 12:33 - 08/27/07 12:33
Date Analyzed	08/27/07 12:33 - 08/27/07 12:33
Dry Weight	NA
Dilution Factor	1 - 1

Analytical Results				
Analyte	Result µg/L	Report Limit µg/L	Flags	
C ₅ -C ₈ Aliphatics**	BQL	100		
C ₉ -C ₁₂ Aliphatics**	BQL	100		
C ₉ -C ₁₀ Aromatics**	BQL	100		
	Percent Recovery	Flags	Limits	
			Lower	Upper
Surrogate % Recovery - PID	104		70	130
Surrogate % Recovery - FID	101		70	130

* = 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 and are unadjusted for individual analytes.

Lab Info: g650-122-19a	Lab Info: g650-122-19a
FID Info: VP082707/009F0101.D	PID Info: VP082707/009R0101.D

Reviewed By: gvl

**EPH (Aliphatics/Aromatics) Results**

by MDEP-EPH

Client Name: Sovereign ConsultingProject Name: NV018

Sample Information and Analytical Results	
Sample Identification	USTM236TB-TP01
Sample Matrix	Water
Date Collected	08/22/07
Date Received	08/23/07
Date Extracted	08/27/07
Date Analyzed	08/29/07
Dry Weight	
Dilution Factor	1:1
C ₈ -C ₁₈ Aliphatics*	660 (ug/L)
C ₁₉ -C ₃₆ Aliphatics*	< 100 (ug/L)
C ₁₁ -C ₂₂ Aromatics*	480 (ug/L)
Aliphatic Surrogate % Recovery	92
Aromatic Surrogate % Recovery	100
Fractionation Surrogate 1 % Recovery	87

Comments:

* = Excludes any surrogates or internal standards.

Lab info: G650-122-16I

Reviewed By: WJ

**EPH (Aliphatics/Aromatics) Results**

by MDEP-EPH

Client Name: Sovereign ConsultingProject Name: NV018

Sample Information and Analytical Results	
Sample Identification	USTM234TB-TP01
Sample Matrix	Water
Date Collected	08/22/07
Date Received	08/23/07
Date Extracted	08/27/07
Date Analyzed	08/29/07
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*	490 (ug/L)
Aliphatic Surrogate % Recovery	47
Aromatic Surrogate % Recovery	69
Fractionation Surrogate 1 % Recovery	90

Comments:

* = Excludes any surrogates or internal standards.

Lab info: G650-122-171

Reviewed By: Red

**EPH (Aliphatics/Aromatics) Results**

by MDEP-EPH

Client Name: Sovereign ConsultingProject Name: NV018

Sample Information and Analytical Results	
Sample Identification	USTM232TB-TP01
Sample Matrix	Water
Date Collected	08/22/07
Date Received	08/23/07
Date Extracted	08/27/07
Date Analyzed	08/29/07
Dry Weight	
Dilution Factor	1:1
C ₉ -C ₁₈ Aliphatics*	150 (ug/L)
C ₁₉ -C ₃₆ Aliphatics*	< 100 (ug/L)
C ₁₁ -C ₂₂ Aromatics*	480 (ug/L)
Aliphatic Surrogate % Recovery	87
Aromatic Surrogate % Recovery	87
Fractionation Surrogate 1 % Recovery	77

Comments:

* = Excludes any surrogates or internal standards.

Lab info: G650-122-18K

Reviewed By:



Attachment 3

EPH Laboratory Reporting Form

Calibration and QA/QC Information

Initial Calibration Date: 08/22/07

Calibration Ranges and Limits

Range	MDL (10/2006) (µg/L)	ML (µg/L)	RL (µg/L) (mg/Kg)
C ₉ -C ₁₈ Aliphatics	28.10	89.4	100 10
C ₁₉ -C ₃₆ Aliphatics	36.50	116	100 10
C ₁₁ -C ₂₂ Aromatics	27.60	87.8	100 10

Calibration Concentration Levels

Range	Levels (µg/mL)	%RSD or CCC	Method of Quantitation
C ₉ -C ₁₈ Aliphatics	6	20.50	Calibration Factor
	30		
	60		
	120		
	240		
C ₁₉ -C ₃₆ Aliphatics	8	19.7	Calibration Factor
	40		
	80		
	160		
	320		
C ₁₁ -C ₂₂ Aromatics	17	7.2	Calibration Factor
	85		
	170		
	340		
	680		

Calibration Check Date: 08/29/07

Calibration Check

Range	Levels (µg/mL)	RPD
C ₉ -C ₁₈ Aliphatics	120	9.8
C ₁₉ -C ₃₆ Aliphatics	160	9.4
C ₁₁ -C ₂₂ Aromatics	340	2.6

MDL = Method Detection Limit

ML = Minimum Limit

RL = Reportable Limit

RPD = Relative Percent Difference

%RSD = Percent Relative Standard Deviation

CCC = Correlation Coefficient of Curve



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0785

1 CLIENT: Sovereign Consulting Inc.
CONTACT: Kurt Meckle PHONE NO.: (910) 358-0555
PROJECT: NVO18 SITE/PWSID#: RLG M332-6
REPORTS TO: C. Murray E-MAIL: Cmurray@savcon.com
425 Oakmeads Creek Suite 100 Wilmington, NC
VA Beach, VA
INVOICE TO: Above Address QUOTE #
P.O. NUMBER NVO18

2

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX
	<u>UST M332TB-SB01</u>	<u>8/21/07</u>	<u>0830</u>	<u>Soil</u>
	<u>UST M332TB-SB02</u>		<u>0853</u>	
	<u>UST M332TB-SB05</u>		<u>1020</u>	
	<u>UST M332TB-SB06</u>		<u>1200</u>	
	<u>UST M332TB-SB07</u>		<u>1215</u>	
	<u>UST M336TB-SB01</u>		<u>1250</u>	
	<u>UST M336TB-SB02</u>		<u>1305</u>	
	<u>UST M336TB-SB03</u>		<u>1325</u>	
	<u>UST M336TB-SB05</u>		<u>1418</u>	
	<u>UST M336TB-SB04</u>		<u>1345</u>	

5

Collected/Relinquished By: (1) <u>Kurt Meckle</u>	Date <u>8/21/07</u>	Time <u>1230</u>	Received By:	Date	Time
Relinquished By: (2)	Date	Time	Received By:	Date	Time
Relinquished By: (3)	Date	Time	Received By:	Date	Time
Relinquished By: (4)	Date	Time	Received By:	Date	Time

SGS Reference: 4650-122

3

SAMPLE TYPE	Preservatives Used	Analysis Required
C= COMP		
G= GRAB		

CONTAINERS

3

3

3

2

2

2

2

2

2

2

4

Shipping Carrier:	Samples Received Cold? (Circle) YES NO
Shipping Ticket No:	Temperature (C): <u>4.6</u>
Special Deliverable Requirements:	Chain of Custody Seal: (Circle) INTACT BROKEN
Special Instructions:	EDD Format
Requested Turnaround Time:	Email Report to above email addresses
☐ RUSH	Date Needed <u>8/23/07</u>



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07854

1	CLIENT: Sovereign Consulting Inc.	PHONE NO.:(910) 3580555	SITE/PWSID#: B16g M232-6	E-MAIL: cmurray@soicon.com	QUOTE #
	CONTACT: Kurt Merkle			E-MAIL: lawe@soicon.com	P.O. NUMBER
	PROJECT: NVO18			FAX NO.:()	
	REPORTS TO: C. Murray				
	425 Oakmeers Crescent Suite 1				
	VA Beach, VA 2				
	INVOICE TO: Above Address				
					NVO18

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX
	USTM234TB-SB01	8/21/07	1457	Sol
	USTM234TB-SB02		1530	
	USTM234TB-SB03		1550	
	USTM234TB-SB04		1610	
	USTM234TB-SB05		1640	
	USTM236TB-TB01	8/22/07	1435	GW
	USTM234TB-TB01		1325	
	USTM232TB-TB01		1220	
	~~USTM233TB-TB01~~			
	TRIP blank			GW

Collected/Relinquished By: (1) <i>Paul Shubbe</i>	Date 8/23/07	Time 1:30	Received By: <i>Mina Li</i>
Relinquished By: (2)	Date	Time	Received By:
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	Date	Time	Received By:

[illegible]

□ 200 W. Potter Drive
 Anchorage, AK 99518 Tel: (907) 562-2343 Fax: (907) 561-5301
 Tel: (907) 250-1002 Fax: (907) 350-1557
 White - Retained by Lab
 Yellow - Returned with Report
 Pink - Retained by Sampler
 Charleston, WV 25311 Tel: (304) 346-0725 Fax: (304) 346-0761
 □ 1270 Greenbrier Street



Mr. Chris Murray
Sovereign Consulting
405 Oakmears Crescent
Suite 1
Virginia Beach VA 23462
Report Number: G650-127
Client Project: NV019

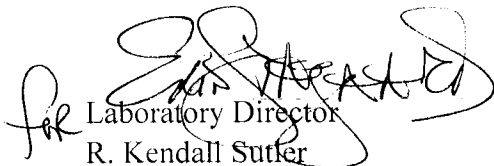
Dear Mr. Murray:

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 at (910) 350-1903. We will be happy to answer any questions or concerns which you may have.

Thank you for using SGS Environmental Services for your analytical services. We look forward to working with you again on any additional analytical needs which you may have.

Sincerely,
SGS Environmental Services, Inc.


Laboratory Director
R. Kendall Sutler


Date



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.

**Results for Volatiles**

by GC 602

Client Sample ID: USTM232-236-MW15

Analyzed By: RSB

Client Project ID: NV019

Date Collected: 12/18/07 10:40

Lab Sample ID: G650-127-1F

Date Received: 12/20/07

Lab Project ID: G650-127

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.183	1	12/27/07	
Diisopropyl ether (DIPE)	BQL	1.00	0.229	1	12/27/07	
Ethylbenzene	BQL	1.00	0.181	1	12/27/07	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.359	1	12/27/07	
Toluene	BQL	1.00	0.157	1	12/27/07	
m/p-Xylene	BQL	2.00	0.481	1	12/27/07	
o-Xylene	BQL	2.00	0.584	1	12/27/07	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	38.7	96.6

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: USTM232-236-MW09

Analyzed By: RSB

Client Project ID: NV019

Date Collected: 12/18/07 10:50

Lab Sample ID: G650-127-2F

Date Received: 12/20/07

Lab Project ID: G650-127

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.183	1	12/27/07	
Diisopropyl ether (DIPE)	BQL	1.00	0.229	1	12/27/07	
Ethylbenzene	BQL	1.00	0.181	1	12/27/07	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.359	1	12/27/07	
Toluene	BQL	1.00	0.157	1	12/27/07	
m/p-Xylene	BQL	2.00	0.481	1	12/27/07	
o-Xylene	BQL	2.00	0.584	1	12/27/07	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	40.4	101

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

Reviewed By: 

GC-VOA_WA.XLS

**Results for Volatiles**

by GC 602

Client Sample ID: USTM232-236-TRIP BLANK

Analyzed By: RSB

Client Project ID: NV019

Date Collected: 12/18/07 11:00

Lab Sample ID: G650-127-3B

Date Received: 12/20/07

Lab Project ID: G650-127

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.183	1	12/28/07	
Diisopropyl ether (DIPE)	BQL	1.00	0.229	1	12/28/07	
Ethylbenzene	BQL	1.00	0.181	1	12/28/07	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.359	1	12/28/07	
Toluene	BQL	1.00	0.157	1	12/28/07	
m/p-Xylene	BQL	2.00	0.481	1	12/28/07	
o-Xylene	BQL	2.00	0.584	1	12/28/07	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	41.9	105

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: USTM232-236-MW03

Analyzed By: RSB

Client Project ID: NV019

Date Collected: 12/18/07 11:33

Lab Sample ID: G650-127-4F

Date Received: 12/20/07

Lab Project ID: G650-127

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.183	1	12/27/07	
Diisopropyl ether (DIPE)	BQL	1.00	0.229	1	12/27/07	
Ethylbenzene	BQL	1.00	0.181	1	12/27/07	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.359	1	12/27/07	
Toluene	BQL	1.00	0.157	1	12/27/07	
m/p-Xylene	BQL	2.00	0.481	1	12/27/07	
o-Xylene	BQL	2.00	0.584	1	12/27/07	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	40.1	100

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: USTM232-236-MW08

Analyzed By: RSB

Client Project ID: NV019

Date Collected: 12/18/07 12:02

Lab Sample ID: G650-127-5F

Date Received: 12/20/07

Lab Project ID: G650-127

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.183	1	12/27/07	
Diisopropyl ether (DIPE)	BQL	1.00	0.229	1	12/27/07	
Ethylbenzene	BQL	1.00	0.181	1	12/27/07	
Methyl-tert butyl ether (MTBE)	0.469	2.00	0.359	1	12/27/07	J
Toluene	BQL	1.00	0.157	1	12/27/07	
m/p-Xylene	BQL	2.00	0.481	1	12/27/07	
o-Xylene	BQL	2.00	0.584	1	12/27/07	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	40.1	100

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: USTM232-236-MW18

Analyzed By: RSB

Client Project ID: NV019

Date Collected: 12/18/07 12:20

Lab Sample ID: G650-127-6F

Date Received: 12/20/07

Lab Project ID: G650-127

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.183	1	12/27/07	
Diisopropyl ether (DIPE)	BQL	1.00	0.229	1	12/27/07	
Ethylbenzene	BQL	1.00	0.181	1	12/27/07	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.359	1	12/27/07	
Toluene	BQL	1.00	0.157	1	12/27/07	
m/p-Xylene	BQL	2.00	0.481	1	12/27/07	
o-Xylene	BQL	2.00	0.584	1	12/27/07	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	40.4	101

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: USTM232-236-MW20

Analyzed By: RSB

Client Project ID: NV019

Date Collected: 12/18/07 14:00

Lab Sample ID: G650-127-7D

Date Received: 12/20/07

Lab Project ID: G650-127

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.183	1	12/28/07	
Diisopropyl ether (DIPE)	BQL	1.00	0.229	1	12/28/07	
Ethylbenzene	BQL	1.00	0.181	1	12/28/07	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.359	1	12/28/07	
Toluene	BQL	1.00	0.157	1	12/28/07	
m/p-Xylene	BQL	2.00	0.481	1	12/28/07	
o-Xylene	BQL	2.00	0.584	1	12/28/07	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	41.4	104

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: USTM232-236-MW05

Analyzed By: RSB

Client Project ID: NV019

Date Collected: 12/18/07 14:09

Lab Sample ID: G650-127-8D

Date Received: 12/20/07

Lab Project ID: G650-127

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.183	1	12/28/07	
Diisopropyl ether (DIPE)	BQL	1.00	0.229	1	12/28/07	
Ethylbenzene	BQL	1.00	0.181	1	12/28/07	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.359	1	12/28/07	
Toluene	BQL	1.00	0.157	1	12/28/07	
m/p-Xylene	BQL	2.00	0.481	1	12/28/07	
o-Xylene	BQL	2.00	0.584	1	12/28/07	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	41.6	104

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: USTM232-236-MW21

Analyzed By: RSB

Client Project ID: NV019

Date Collected: 12/18/07 14:48

Lab Sample ID: G650-127-9D

Date Received: 12/20/07

Lab Project ID: G650-127

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.183	1	12/28/07	
Diisopropyl ether (DIPE)	BQL	1.00	0.229	1	12/28/07	
Ethylbenzene	BQL	1.00	0.181	1	12/28/07	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.359	1	12/28/07	
Toluene	BQL	1.00	0.157	1	12/28/07	
m/p-Xylene	BQL	2.00	0.481	1	12/28/07	
o-Xylene	BQL	2.00	0.584	1	12/28/07	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	41.3	103

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: USTM232-236-DUPLICATE

Analyzed By: RSB

Client Project ID: NV019

Date Collected: 12/18/07 0:00

Lab Sample ID: G650-127-10D

Date Received: 12/20/07

Lab Project ID: G650-127

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.183	1	12/28/07	
Diisopropyl ether (DIPE)	BQL	1.00	0.229	1	12/28/07	
Ethylbenzene	BQL	1.00	0.181	1	12/28/07	
Methyl-tert butyl ether (MTBE)	2.51	2.00	0.359	1	12/28/07	
Toluene	BQL	1.00	0.157	1	12/28/07	
m/p-Xylene	BQL	2.00	0.481	1	12/28/07	
o-Xylene	BQL	2.00	0.584	1	12/28/07	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	41.3	103

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: USTM232-236-MW22

Analyzed By: RSB

Client Project ID: NV019

Date Collected: 12/18/07 15:06

Lab Sample ID: G650-127-11G

Date Received: 12/20/07

Lab Project ID: G650-127

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.183	1	12/28/07	
Diisopropyl ether (DIPE)	BQL	1.00	0.229	1	12/28/07	
Ethylbenzene	0.945	1.00	0.181	1	12/28/07	J
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.359	1	12/28/07	
Toluene	BQL	1.00	0.157	1	12/28/07	
m/p-Xylene	BQL	2.00	0.481	1	12/28/07	
o-Xylene	BQL	2.00	0.584	1	12/28/07	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	41.7	104

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

Reviewed By: 

GC-VOA_WA.XLS

**Results for Volatiles**

by GC 602

Client Sample ID: USTM232-236-MW01

Analyzed By: RSB

Client Project ID: NV019

Date Collected: 12/18/07 15:37

Lab Sample ID: G650-127-12D

Date Received: 12/20/07

Lab Project ID: G650-127

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.183	1	12/31/07	
Diisopropyl ether (DIPE)	BQL	1.00	0.229	1	12/31/07	
Ethylbenzene	BQL	1.00	0.181	1	12/31/07	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.359	1	12/31/07	
Toluene	BQL	1.00	0.157	1	12/31/07	
m/p-Xylene	BQL	2.00	0.481	1	12/31/07	
o-Xylene	BQL	2.00	0.584	1	12/31/07	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	40.4	101

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

Reviewed By: 

GC-VOA_WA.XLS

**Results for Volatiles**

by GC 602

Client Sample ID: Method Blank

Analyzed By: RSB

Client Project ID:

Date Collected:

Lab Sample ID: VBLK3122707B

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	12/27/07	
Diisopropyl ether (DIPE)	BQL	1.00	0.229	1	12/27/07	
Ethylbenzene	BQL	1.00	0.181	1	12/27/07	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.359	1	12/27/07	
Toluene	BQL	1.00	0.157	1	12/27/07	
m/p-Xylene	BQL	2.00	0.481	1	12/27/07	
o-Xylene	BQL	2.00	0.584	1	12/27/07	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	40.4	101

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

Reviewed By: 

GC-VOL-WA.XLS

**Results for Volatiles**

by GC 602

Client Sample ID: Method Blank

Analyzed By: RSB

Client Project ID:

Date Collected:

Lab Sample ID: VBLK5122807A

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	12/28/07	
Diisopropyl ether (DIPE)	BQL	1.00	0.229	1	12/28/07	
Ethylbenzene	BQL	1.00	0.181	1	12/28/07	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.359	1	12/28/07	
Toluene	BQL	1.00	0.157	1	12/28/07	
m/p-Xylene	BQL	2.00	0.481	1	12/28/07	
o-Xylene	BQL	2.00	0.584	1	12/28/07	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	45.4	113

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: VBLK3123107A

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	12/31/07	
Diisopropyl ether (DIPE)	BQL	1.00	0.229	1	12/31/07	
Ethylbenzene	BQL	1.00	0.181	1	12/31/07	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.359	1	12/31/07	
Toluene	BQL	1.00	0.157	1	12/31/07	
m/p-Xylene	BQL	2.00	0.481	1	12/31/07	
o-Xylene	BQL	2.00	0.584	1	12/31/07	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	40.8	102

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

Reviewed By: 

GC-VOL_WA.XLS

Summary Results for QC Check

Method: 602

Filename : 3122707/003R

Compound	SA	Resul	Rec	QC Limits	
	ug/L	ug/L	(%)	Lower	Upper
Benzene	20.0	19.1	95.4	77.0	123.0
Chlorobenzene	20.0	19.0	94.9	80.5	119.5
1,2-Dichlorobenzene	40.0	38.2	95.6	68.0	132.0
1,3-Dichlorobenzene	40.0	37.8	94.5	72.5	127.5
1,4-Dichlorobenzene	20.0	18.8	94.0	69.5	130.5
• Diisopropyl ether	20.0	18.9	94.3	43.1	156.9
Ethylbenzene	20.0	19.3	96.6	63.0	137.0
• MTBE	40.0	37.8	94.5	46.8	153.2
Toluene	20.0	19.1	95.3	77.5	127.0
• m,p-Xylene	40.0	38.1	95.2	11.2	188.8
• o-Xylene	40.0	38.3	95.7	47.6	152.4

Flags :

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



Summary Results for Laboratory Control Spike

Method: 602

Filename : 3122707/004R

Compound	SA	Result	Rec	LCS Limits	
	ug/L	ug/L	(%)	Lower	Upper
Benzene	10.0	8.2	82.3	39	150
Chlorobenzene	10.0	8.3	82.6	55	135
1,2-Dichlorobenzene	20.0	17.1	85.6	37	154
1,3-Dichlorobenzene	20.0	16.7	83.5	50	141
1,4-Dichlorobenzene	10.0	8.3	82.9	42	143
• Diisopropyl ether	10.0	8.1	80.8	30	170
Ethylbenzene	10.0	8.3	83.3	32	160
• MTBE	20.0	16.5	82.4	35	165
Toluene	10.0	8.2	82.3	46	148
• m,p-Xylene	20.0	16.7	83.4	0	239
• o-Xylene	20.0	16.9	84.3	36	164

Flags :

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

Summary Results for MS-MSD

Sample : 3122707/010F::3122707/010R

MS : 3122707/020F::3122707/020R

MSD : 3122707/021F::3122707/021R

Compound	SA	µg/L			REC(%)		REC Limits	
		Sam.	MS	MSD	MS	MSD	Lower	Upper
Benzene	10.0	5.7	5.7	-5.2	57	57	39	150
Chlorobenzene	10.0	ND	5.0	-0.6	50 +	50 +	55	135
1,2-Dichlorobenzene	10.0	ND	10.7	-0.3	107	107	37	154
1,3-Dichlorobenzene	10.0	ND	10.2	-0.6	102	102	50	141
1,4-Dichlorobenzene	10.0	ND	5.0	-0.3	50	50	42	143
• Diisopropyl ether	10.0	ND	9.5	0.0	95	95	30	170
Ethylbenzene	10.0	1.1	5.9	-1.1	59	59	32	160
• MTBE	20.0	ND	9.8	-1.2	49	49	35	165
Toluene	10.0	10.0	6.2	-1.0	62	62	46	148
• m,p-Xylene	20.0	3.6	11.7	-1.7	59	59	D	239
• o-Xylene	20.0	1.3	11.6	-0.3	58	58	36	164

Flags :

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

Summary Results for QC Check

Method: 602

Filename : 5122807/003f

Compound	SA	Result	Rec	QC Limits	
	ug/L	ug/L	(%)	Lower	Upper
Benzene	20.0	17.6	87.8	77.0	123.0
Chlorobenzene	20.0	18.2	91.2	80.5	119.5
1,2-Dichlorobenzene	40.0	0.0	0.0 +	68.0	132.0
1,3-Dichlorobenzene	20.0	33.9	169.5 +	72.5	127.5
1,4-Dichlorobenzene	40.0	17.0	42.6 +	69.5	130.5
• Diisopropyl ether	20.0	17.3	86.7	43.1	156.9
Ethylbenzene	20.0	17.9	89.6	63.0	137.0
• MTBE	40.0	33.2	83.0	46.8	153.2
Toluene	20.0	18.2	91.1	77.5	127.0
• m,p-Xylene	40.0	35.3	88.1	11.2	188.8
• o-Xylene	40.0	35.9	89.7	47.6	152.4

Flags :

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

Summary Results for Laboratory Control Spike

Method: 602

Filename : 5122807/004f

Compound	SA	Result	Rec	LCS Limits	
	ug/L	ug/L	(%)	Lower	Upper
Benzene	10.0	9.7	97.3	39	150
Chlorobenzene	10.0	10.2	101.9	55	135
1,2-Dichlorobenzene	20.0	0.0	0.0 +	37	154
1,3-Dichlorobenzene	10.0	18.5	185.0 +	50	141
1,4-Dichlorobenzene	20.0	9.3	46.4	42	143
• Diisopropyl ether	10.0	10.3	103.3	30	170
Ethylbenzene	10.0	10.1	100.6	32	160
• MTBE	20.0	17.7	88.4	35	165
Toluene	10.0	10.5	104.9	46	148
• m,p-Xylene	20.0	19.9	99.3	0	239
• o-Xylene	20.0	20.1	100.4	36	164

Flags :

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

Summary Results for MS-MSD

Method: 802

Sample : 5122807/116b::5122807/016f

MS : 5122807/118b::5122807/018f

MSD : 5122807/119b::5122807/019f

Compound	SA	µg/L			REC(%)		REC Limits	
		Sam.	MS	MSD	MS	MSD	Lower	Upper
Benzene	10.0	ND	9.1	9.6	91	91	39	150
Chlorobenzene	10.0	ND	7.4	8.9	74	74	55	135
1,2-Dichlorobenzene	10.0	1.7	14.6	17.9	146	146	37	154
1,3-Dichlorobenzene	10.0	ND	7.3	8.9	73	73	50	141
1,4-Dichlorobenzene	10.0	2.5	11.8	14.9	118	118	42	143
• Diisopropyl ether	10.0	ND	9.8	10.2	98	98	30	170
Ethylbenzene	10.0	ND	11.0	10.3	110	110	32	160
• MTBE	20.0	ND	19.5	22.7	97	97	35	165
Toluene	10.0	ND	10.5	10.4	105	105	46	148
• m,p-Xylene	20.0	ND	22.5	21.0	112	112	D	239
• o-Xylene	20.0	5.0	18.2	16.2	91	91	36	164

Flags :

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



Summary Results for QC Check

Method: 602

Filename : 3123107/003R

Compound	SA	Resul	Rec	QC Limits	
	ug/L	ug/L	(%)	Lower	Upper
Benzene	20.0	20.0	100.1	77.0	123.0
Chlorobenzene	20.0	20.2	101.1	80.5	119.5
1,2-Dichlorobenzene	40.0	41.3	103.3	68.0	132.0
1,3-Dichlorobenzene	40.0	41.0	102.6	72.5	127.5
1,4-Dichlorobenzene	20.0	21.0	105.1	69.5	130.5
• Diisopropyl ether	20.0	21.1	105.6	43.1	156.9
Ethylbenzene	20.0	20.3	101.6	63.0	137.0
• MTBE	40.0	40.8	102.0	46.8	153.2
Toluene	20.0	20.0	100.1	77.5	127.0
• m,p-Xylene	40.0	40.0	100.0	11.2	188.8
• o-Xylene	40.0	41.1	102.6	47.6	152.4

Flags :

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



Summary Results for Laboratory Control Spike

Method: 602

Filename : 3123107/004R

Compound	SA	Result	Rec	LCS Limits	
	ug/L	ug/L	(%)	Lower	Upper
Benzene	10.0	10.7	107.0	39	150
Chlorobenzene	10.0	10.7	107.5	55	135
1,2-Dichlorobenzene	20.0	22.6	113.0	37	154
1,3-Dichlorobenzene	20.0	22.1	110.4	50	141
1,4-Dichlorobenzene	10.0	11.4	114.1	42	143
• Diisopropyl ether	10.0	10.8	107.6	30	170
Ethylbenzene	10.0	10.8	107.8	32	160
• MTBE	20.0	21.6	107.9	35	165
Toluene	10.0	10.6	105.7	46	148
• m,p-Xylene	20.0	21.4	107.0	0	239
• o-Xylene	20.0	21.9	109.6	36	164

Flags :

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

Summary Results for MS-MSD

Method: 402

Sample: 3123107/013F::3123107/013R

MS: 3123107/015F::3123107/015R

MSD: 3123107/016F::3123107/016R

Compound	SA	µg/L			REC(%)		REC Limits	
		Sam.	MS	MSD	MS	MSD	Lower	Upper
Benzene	10.0	ND	11.2	10.5	112	112	39	150
Chlorobenzene	10.0	ND	11.1	10.4	111	111	55	135
1,2-Dichlorobenzene	10.0	2.0	22.8	22.1	228 +	228 +	37	154
1,3-Dichlorobenzene	10.0	ND	22.6	21.3	226 +	226 +	50	141
1,4-Dichlorobenzene	10.0	4.6	6.4	5.8	64	64	42	143
• Diisopropyl ether	10.0	ND	11.8	11.1	118	118	30	170
Ethylbenzene	10.0	11.8	11.3	10.6	113	113	32	160
• MTBE	20.0	ND	22.0	20.6	110	110	35	165
Toluene	10.0	ND	12.5	11.7	125	125	46	148
• m,p-Xylene	20.0	52.1	20.3	19.2	102	102	D	239
• o-Xylene	20.0	2.7	23.4	22.1	117	117	36	164

Flags:

+ = out of QC limits.

• = lab generated limits.

D = Detected

ND = None Detected

SA= Spike Added

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Sovereign Consulting

Project Name: NV019

Sample Information	
Sample Identification	USTM232-236-MW15
Sample Matrix	Water
Collection Option (for Soil)*	NA
Date Collected	12/18/07
Date Received	12/20/07
Date Extracted	12/25/07 03:44 - 12/25/07 03:44
Date Analyzed	12/25/07 03:44 - 12/25/07 03:44
Dry Weight	NA
Dilution Factor	1 - 1

Analytical Results				
Analyte	Result µg/L	Report Limit µg/L	Flags	
C ₅ -C ₈ Aliphatics**	BQL	100		
C ₉ -C ₁₂ Aliphatics**	BQL	100		
C ₉ -C ₁₀ Aromatics**	BQL	100		
	Percent Recovery	Flags	Limits Lower Upper	
Surrogate % Recovery - PID	86.5		70	130
Surrogate % Recovery - FID	103		70	130

* = 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 and are unadjusted for individual analytes.

Lab Info: g650-127-1e	Lab Info: g650-127-1e
FID Info: VP122407/045F0101.D	PID Info: VP122407/045R0101.D

Reviewed By: 

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Sovereign Consulting

Project Name: NV019

Sample Information	
Sample Identification	USTM232-236-MW09
Sample Matrix	Water
Collection Option (for Soil)*	NA
Date Collected	12/18/07
Date Received	12/20/07
Date Extracted	12/25/07 03:18 - 12/25/07 03:18
Date Analyzed	12/25/07 03:18 - 12/25/07 03:18
Dry Weight	NA
Dilution Factor	1 - 1

Analytical Results				
Analyte	Result µg/L	Report Limit µg/L	Flags	
C ₅ -C ₈ Aliphatics**	BQL	100		
C ₉ -C ₁₂ Aliphatics**	BQL	100		
C ₉ -C ₁₀ Aromatics**	BQL	100		
	Percent Recovery	Flags	Limits Lower Upper	
Surrogate % Recovery - PID	82.7		70	130
Surrogate % Recovery - FID	98.6		70	130

* = 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 and are unadjusted for individual analytes.

Lab Info: g650-127-2e	Lab Info: g650-127-2e
FID Info: VP122407/044F0101.D	PID Info: VP122407/044R0101.D

Reviewed By: 

**VPH (Aliphatics/Aromatics) Laboratory Reporting Form**Client Name: Sovereign ConsultingProject Name: NV019

Sample Information	
Sample Identification	USTM232-236-TRIP BLANK
Sample Matrix	Water
Collection Option (for Soil)*	NA
Date Collected	12/18/07
Date Received	12/20/07
Date Extracted	12/25/07 02:51 - 12/25/07 02:51
Date Analyzed	12/25/07 02:51 - 12/25/07 02:51
Dry Weight	NA
Dilution Factor	1 - 1

Analytical Results				
Analyte	Result µg/L	Report Limit µg/L	Flags	
C ₅ -C ₈ Aliphatics**	BQL	100		
C ₉ -C ₁₂ Aliphatics**	BQL	100		
C ₉ -C ₁₀ Aromatics**	BQL	100		
		Percent Recovery	Flags	Limits Lower Upper
Surrogate % Recovery - PID		83.7		70 130
Surrogate % Recovery - FID		99.8		70 130

* = 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 and are unadjusted for individual analytes.

Lab Info: g650-127-3a	Lab Info: g650-127-3a
FID Info: VP122407/043F0101.D	PID Info: VP122407/043R0101.D

Reviewed By: 

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Sovereign Consulting

Project Name: NV019

Sample Information	
Sample Identification	USTM232-236-MW03
Sample Matrix	Water
Collection Option (for Soil)*	NA
Date Collected	12/18/07
Date Received	12/20/07
Date Extracted	12/25/07 04:11 - 12/25/07 04:11
Date Analyzed	12/25/07 04:11 - 12/25/07 04:11
Dry Weight	NA
Dilution Factor	1 - 1

Analytical Results				
Analyte	Result µg/L	Report Limit µg/L	Flags	
C ₅ -C ₈ Aliphatics**	BQL	100		
C ₉ -C ₁₂ Aliphatics**	BQL	100		
C ₉ -C ₁₀ Aromatics**	BQL	100		
		Percent Recovery	Flags	Limits Lower Upper
Surrogate % Recovery - PID		85.0		70 130
Surrogate % Recovery - FID		102		70 130

* = 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 and are unadjusted for individual analytes.

Lab Info: g650-127-4e	Lab Info: g650-127-4e
FID Info: VP122407/046F0101.D	PID Info: VP122407/046R0101.D

Reviewed By: 



VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Sovereign ConsultingProject Name: NV019

Sample Information	
Sample Identification	USTM232-236-MW08
Sample Matrix	Water
Collection Option (for Soil)*	NA
Date Collected	12/18/07
Date Received	12/20/07
Date Extracted	12/25/07 04:38 - 12/25/07 04:38
Date Analyzed	12/25/07 04:38 - 12/25/07 04:38
Dry Weight	NA
Dilution Factor	1 - 1

Analytical Results				
Analyte	Result µg/L	Report Limit µg/L	Flags	
C ₅ -C ₈ Aliphatics**	BQL	100		
C ₉ -C ₁₂ Aliphatics**	BQL	100		
C ₉ -C ₁₀ Aromatics**	BQL	100		
		Percent Recovery	Flags	Limits Lower Upper
Surrogate % Recovery - PID		87.4		70 130
Surrogate % Recovery - FID		104		70 130

* = 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 and are unadjusted for individual analytes.

Lab Info: g650-127-5e	Lab Info: g650-127-5e
FID Info: VP122407/047F0101.D	PID Info: VP122407/047R0101.D

Reviewed By: 

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Sovereign Consulting

Project Name: NV019

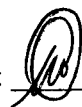
Sample Information	
Sample Identification	USTM232-236-MW18
Sample Matrix	Water
Collection Option (for Soil)*	NA
Date Collected	12/18/07
Date Received	12/20/07
Date Extracted	12/26/07 22:05 - 12/26/07 22:05
Date Analyzed	12/26/07 22:05 - 12/26/07 22:05
Dry Weight	NA
Dilution Factor	1 - 1

Analytical Results				
Analyte	Result µg/L	Report Limit µg/L	Flags	
C ₅ -C ₈ Aliphatics**	BQL	100		
C ₉ -C ₁₂ Aliphatics**	BQL	100		
C ₉ -C ₁₀ Aromatics**	BQL	100		
	Percent Recovery	Flags	Limits Lower Upper	
Surrogate % Recovery - PID	74.8		70	130
Surrogate % Recovery - FID	95.7		70	130

* = 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 and are unadjusted for individual analytes.

Lab Info: g650-127-6e	Lab Info: g650-127-6e
FID Info: VP122607/031F0101.D	PID Info: VP122607/031R0101.D

Reviewed By: 



VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Sovereign ConsultingProject Name: NV019

Sample Information	
Sample Identification	USTM232-236-MW20
Sample Matrix	Water
Collection Option (for Soil)*	NA
Date Collected	12/18/07
Date Received	12/20/07
Date Extracted	12/26/07 22:32 - 12/26/07 22:32
Date Analyzed	12/26/07 22:32 - 12/26/07 22:32
Dry Weight	NA
Dilution Factor	1 - 1

Analytical Results			
Analyte	Result µg/L	Report Limit µg/L	Flags
C ₅ -C ₈ Aliphatics**	BQL	100	
C ₉ -C ₁₂ Aliphatics**	BQL	100	
C ₉ -C ₁₀ Aromatics**	BQL	100	
		Percent Recovery	Limits Flags Lower Upper
Surrogate % Recovery - PID		73.8	70 130
Surrogate % Recovery - FID		94.7	70 130

* = 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 and are unadjusted for individual analytes.

Lab Info: g650-127-7e	Lab Info: g650-127-7e
FID Info: VP122607/032F0101.D	PID Info: VP122607/032R0101.D

Reviewed By: 

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Sovereign Consulting

Project Name: NV019

Sample Information	
Sample Identification	USTM232-236-MW05
Sample Matrix	Water
Collection Option (for Soil)*	NA
Date Collected	12/18/07
Date Received	12/20/07
Date Extracted	12/26/07 22:58 - 12/26/07 22:58
Date Analyzed	12/26/07 22:58 - 12/26/07 22:58
Dry Weight	NA
Dilution Factor	1 - 1

Analytical Results				
Analyte	Result µg/L	Report Limit µg/L	Flags	
C ₅ -C ₈ Aliphatics**	BQL	100		
C ₉ -C ₁₂ Aliphatics**	BQL	100		
C ₉ -C ₁₀ Aromatics**	BQL	100		
	Percent Recovery	Flags	Limits Lower Upper	
Surrogate % Recovery - PID	74.2		70	130
Surrogate % Recovery - FID	93.8		70	130

* = 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 and are unadjusted for individual analytes.

Lab Info: g650-127-8e	Lab Info: g650-127-8e
FID Info: VP122607/033F0101.D	PID Info: VP122607/033R0101.D

Reviewed By: 

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Sovereign Consulting

Project Name: NV019

Sample Information	
Sample Identification	USTM232-236-MW21
Sample Matrix	Water
Collection Option (for Soil)*	NA
Date Collected	12/18/07
Date Received	12/20/07
Date Extracted	12/26/07 23:24 - 12/26/07 23:24
Date Analyzed	12/26/07 23:24 - 12/26/07 23:24
Dry Weight	NA
Dilution Factor	1 - 1

Analytical Results				
Analyte	Result µg/L	Report Limit µg/L	Flags	
C ₅ -C ₈ Aliphatics**	BQL	100		
C ₉ -C ₁₂ Aliphatics**	105	100		
C ₉ -C ₁₀ Aromatics**	BQL	100		
		Percent Recovery	Flags	Limits Lower Upper
Surrogate % Recovery - PID		74.5		70 130
Surrogate % Recovery - FID		95.4		70 130

* = 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 and are unadjusted for individual analytes.

Lab Info: g650-127-9e	Lab Info: g650-127-9e
FID Info: VP122607/034F0101.D	PID Info: VP122607/034R0101.D

Reviewed By: 



VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Sovereign ConsultingProject Name: NV019

Sample Information	
Sample Identification	USTM232-236-DUPLICATE
Sample Matrix	Water
Collection Option (for Soil)*	NA
Date Collected	12/18/07
Date Received	12/20/07
Date Extracted	12/26/07 23:50 - 12/26/07 23:50
Date Analyzed	12/26/07 23:50 - 12/26/07 23:50
Dry Weight	NA
Dilution Factor	1 - 1

Analytical Results				
Analyte	Result µg/L	Report Limit µg/L	Flags	
C ₅ -C ₈ Aliphatics**	BQL	100		
C ₉ -C ₁₂ Aliphatics**	BQL	100		
C ₉ -C ₁₀ Aromatics**	BQL	100		
	Percent Recovery	Flags	Limits	
			Lower	Upper
Surrogate % Recovery - PID	74.7		70	130
Surrogate % Recovery - FID	94.0		70	130

* = 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 and are unadjusted for individual analytes.

Lab Info: g650-127-10e	Lab Info: g650-127-10e
FID Info: VP122607/035F0101.D	PID Info: VP122607/035R0101.D

Reviewed By: 

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Sovereign Consulting

Project Name: NV019

Sample Information	
Sample Identification	USTM232-236-MW22
Sample Matrix	Water
Collection Option (for Soil)*	NA
Date Collected	12/18/07
Date Received	12/20/07
Date Extracted	12/27/07 00:17 - 12/27/07 00:17
Date Analyzed	12/27/07 00:17 - 12/27/07 00:17
Dry Weight	NA
Dilution Factor	1 - 1

Analytical Results				
Analyte	Result µg/L	Report Limit µg/L	Flags	
C ₅ -C ₈ Aliphatics**	BQL	100		
C ₉ -C ₁₂ Aliphatics**	110	100		
C ₉ -C ₁₀ Aromatics**	BQL	100		
	Percent Recovery	Flags	Limits Lower Upper	
Surrogate % Recovery - PID	74.5		70	130
Surrogate % Recovery - FID	96.9		70	130

* = 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 and are unadjusted for individual analytes.

Lab Info: g650-127-11e	Lab Info: g650-127-11e
FID Info: VP122607/036F0101.D	PID Info: VP122607/036R0101.D

Reviewed By: 

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Sovereign Consulting

Project Name: NV019

Sample Information	
Sample Identification	USTM232-236-MW01
Sample Matrix	Water
Collection Option (for Soil)*	NA
Date Collected	12/18/07
Date Received	12/20/07
Date Extracted	12/27/07 00:43 - 12/27/07 00:43
Date Analyzed	12/27/07 00:43 - 12/27/07 00:43
Dry Weight	NA
Dilution Factor	1 - 1

Analytical Results				
Analyte	Result µg/L	Report Limit µg/L	Flags	
C ₅ -C ₈ Aliphatics**	BQL	100		
C ₉ -C ₁₂ Aliphatics**	BQL	100		
C ₉ -C ₁₀ Aromatics**	BQL	100		
	Percent Recovery	Flags	Limits Lower Upper	
Surrogate % Recovery - PID	75.8		70	130
Surrogate % Recovery - FID	95.2		70	130

* = 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 and are unadjusted for individual analytes.

Lab Info: g650-127-12e	Lab Info: g650-127-12e
FID Info: VP122607/037F0101.D	PID Info: VP122607/037R0101.D

Reviewed By: 

VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: _____

Project Name: _____

Sample Information	
Sample Identification	vblk4122407a
Sample Matrix	Water
Collection Option (for Soil)*	2
Date Collected	
Date Received	
Date Extracted	
Date Analyzed	12/24/07 10:25 - 12/24/07 10:25
Dry Weight	100
Dilution Factor	1 - 1

Analytical Results				
Analyte	Result µg/L	Report Limit µg/L	Flags	
C ₅ -C ₈ Aliphatics**	BQL	100		
C ₉ -C ₁₂ Aliphatics**	BQL	100		
C ₉ -C ₁₀ Aromatics**	BQL	100		
	Percent Recovery	Flags	Limits Lower Upper	
Surrogate % Recovery - PID	82.2		70	130
Surrogate % Recovery - FID	96.5		70	130

* = 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 and are unadjusted for individual analytes.

Lab Info: vblk4122407a	Lab Info: vblk4122407a
FID Info: VP122407/006F0101.D	PID Info: VP122407/006R0101.D

Reviewed By: _____



VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: _____

Project Name: _____

Sample Information	
Sample Identification	vblk4122607a
Sample Matrix	Water
Collection Option (for Soil)*	2
Date Collected	
Date Received	
Date Extracted	
Date Analyzed	12/26/07 11:05 - 12/26/07 11:05
Dry Weight	100
Dilution Factor	1 - 1

Analytical Results				
Analyte	Result µg/L	Report Limit µg/L	Flags	
C ₅ -C ₈ Aliphatics**	BQL	100		
C ₉ -C ₁₂ Aliphatics**	BQL	100		
C ₉ -C ₁₀ Aromatics**	BQL	100		
	Percent Recovery	Flags	Limits Lower Upper	
Surrogate % Recovery - PID	77.8		70	130
Surrogate % Recovery - FID	96.2		70	130

* = 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 and are unadjusted for individual analytes.

Lab Info: vblk4122607a	Lab Info: vblk4122607a
FID Info: VP122607/006F0101.D	PID Info: VP122607/006R0101.D

Reviewed By: _____



**LABORATORY CONTROL SPIKE RESULTS**
by Method VPH

SGS Environmental Services, Inc.

Lab Sample ID: LCS4122407A
Lab Project ID: Batch QC
Report Basis: Wet

Analyzed By:
Matrix: Water
Percent Solids: NA %

Analytical QC Results Summary

Analyte	Expected Amount µg/L	Measured Amount µg/L	Percent Recovery (%)	Lower Limit (%)	Upper Limit (%)	Qualifier
C5-C8 Aliphatics		104				
C9-C12 Aliphatics		73.3				
C9-C10 Aromatics		15.6				
Total VPH	200	193	96.5	70.0	130	

Surrogate Standards	Expected Amount µg/L	Measured Amount µg/L	Percent Recovery (%)	Lower Limit (%)	Upper Limit (%)	Qualifier
Surrogate - PID	1250	1077	86.2	70.0	130	
Surrogate - FID	1250	1263	101	70.0	130	

Reviewed By: 

**LABORATORY CONTROL SPIKE RESULTS**
by Method VPH

SGS Environmental Services, Inc.

Lab Sample ID: LCS4122607A
Lab Project ID: Batch QC
Report Basis: Wet

Analyzed By:
Matrix: Water
Percent Solids: NA %

Analytical QC Results Summary

Analyte	Expected Amount µg/L	Measured Amount µg/L	Percent Recovery (%)	Lower Limit (%)	Upper Limit (%)	Qualifier
C5-C8 Aliphatics		106				
C9-C12 Aliphatics		73.9				
C9-C10 Aromatics		14.6				
Total VPH	200	194	97.0	70.0	130	

Surrogate Standards	Expected Amount µg/L	Measured Amount µg/L	Percent Recovery (%)	Lower Limit (%)	Upper Limit (%)	Qualifier
Surrogate - PID	1250	1002	80.2	70.0	130	
Surrogate - FID	1250	1221	97.7	70.0	130	

Reviewed By: _____

**MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULTS**
by Method VPH

SGS Environmental Services, Inc.

Lab Sample ID: g517-21-1a
MS Sample ID: g517-21-1a
MSD Sample ID: g517-21-1a
Lab Project ID: Batch QC for VP122407
Report Basis: Dry

Analyzed By: DVG
Matrix: Soil
Percent Solids: 86.7 %

Matrix Spike Results Summary

Analyte	Sample Amount mg/Kg	Spiked Amount mg/Kg	Measured Amount mg/Kg	Percent Recovery (%)	Lower Limit (%)	Upper Limit (%)	Qualifier
C5-C8 Aliphatics	0.131	-	9.42	-	-	-	
C9-C12 Aliphatics	1.760	-	6.70	-	-	-	
C9-C10 Aromatics	0.031	-	1.49	-	-	-	
Total VPH	1.920	18.5	17.6	84.9	70	130	

Matrix Spike Duplicate Results Summary

Analyte	Spiked Amount mg/Kg	Measured Amount mg/Kg	Percent Recovery (%)	Lower Limit (%)	Upper Limit (%)	Qualifier
C5-C8 Aliphatics	-	9.89	-	-	-	
C9-C12 Aliphatics	-	6.99	-	-	-	
C9-C10 Aromatics	-	1.54	-	-	-	
Total VPH	18.5	18.4	89.3	70	130	

Analyte	MS Amount mg/Kg	MSD Amount mg/Kg	RPD Value (%)	RPD Limit (%)	Qualifier
C5-C8 Aliphatics	-	-	-	-	
C9-C12 Aliphatics	-	-	-	-	
C9-C10 Aromatics	-	-	-	-	
Total VPH	17.6	18.4	4	20	

Reviewed By: _____

**MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULTS**
by Method VPH

SGS Environmental Services, Inc.

Lab Sample ID: g876-27-2a
MS Sample ID: g876-27-2a
MSD Sample ID: g876-27-2a
Lab Project ID: Batch QC for VP122607
Report Basis: Dry

Analyzed By: DVG
Matrix: Soil
Percent Solids: 91.2 %

Matrix Spike Results Summary

Analyte	Sample Amount mg/Kg	Spiked Amount mg/Kg	Measured Amount mg/Kg	Percent Recovery (%)	Lower Limit (%)	Upper Limit (%)	Qualifier
C5-C8 Aliphatics	0.125	-	9.34	-	-	-	
C9-C12 Aliphatics	1.650	-	6.52	-	-	-	
C9-C10 Aromatics	0.000	-	1.28	-	-	-	
Total VPH	1.770	17.5	17.1	87.6	70	130	

Matrix Spike Duplicate Results Summary

Analyte	Spiked Amount mg/Kg	Measured Amount mg/Kg	Percent Recovery (%)	Lower Limit (%)	Upper Limit (%)	Qualifier
C5-C8 Aliphatics	-	9.73	-	-	-	
C9-C12 Aliphatics	-	6.70	-	-	-	
C9-C10 Aromatics	-	1.34	-	-	-	
Total VPH	17.5	17.8	91.4	70	130	

Analyte	MS Amount mg/Kg	MSD Amount mg/Kg	RPD Value (%)	RPD Limit (%)	Qualifier
C5-C8 Aliphatics	-	-	-	-	
C9-C12 Aliphatics	-	-	-	-	
C9-C10 Aromatics	-	-	-	-	
Total VPH	17.1	17.8	4	20	

Reviewed By: _____

Attachment 2

VPH Laboratory Reporting Form

Calibration and QA/QC Information

FID Initial Calibration Date: 12/08/07

PID Initial Calibration Date: 12/08/07

Calibration Ranges and Limits

Range	MDL		ML		RL	
	(µg/L)	(mg/Kg)	(µg/L)	(mg/Kg)	(µg/L)	(mg/Kg)
C ₅ -C ₈ Aliphatics	33.1	0.265	105	0.842	100	10
C ₉ -C ₁₂ Aliphatics	30.9	0.247	98.3	0.786	100	10
C ₉ -C ₁₀ Aromatics	27.7	0.222	88.1	0.705	100	10

Calibration Concentration Levels

Range	Levels (µg/L)	Levels (mg/Kg)	%RSD if CF r if LR	Method of Quantitation
C ₅ -C ₈ Aliphatics	10	0.8	11.01	Calibration Factor
	50	4		
	100	8		
	200	16		
	500	40		
C ₉ -C ₁₂ Aliphatics	10	0.8	1.00	Linear Regression
	50	4		
	100	8		
	200	16		
	500	40		
C ₉ -C ₁₀ Aromatics	10	0.8	15.27	Calibration Factor
	50	4		
	100	8		
	200	16		
	500	40		

Calibration Check Date: 12/24/07

Filename: VP122407/040F0101.d

Calibration Check

Range	Levels (mg/Kg)	(µg/L)	%Difference if CF %Drift if LR	Limits
C ₅ -C ₈ Aliphatics	200	1.6	-23.0	±25%
C ₉ -C ₁₂ Aliphatics	200	1.6	-21.2	±25%
C ₉ -C ₁₀ Aromatics	200	1.6	-11.8	±25%

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: 12/08/07 PID Initial Calibration Date: 12/08/07

Calibration Ranges and Limits

Range	MDL		ML		RL	
	(µg/L)	(mg/Kg)	(µg/L)	(mg/Kg)	(µg/L)	(mg/Kg)
C ₅ -C ₈ Aliphatics	33.1	0.265	105	0.842	100	10
C ₉ -C ₁₂ Aliphatics	30.9	0.247	98.3	0.786	100	10
C ₉ -C ₁₀ Aromatics	27.7	0.222	88.1	0.705	100	10

Calibration Concentration Levels

Range	Levels (µg/L)	Levels (mg/Kg)	%RSD if CF r if LR	Method of Quantitation
C ₅ -C ₈ Aliphatics	10	0.8	11.01	Calibration Factor
	50	4		
	100	8		
	200	16		
	500	40		
C ₉ -C ₁₂ Aliphatics	10	0.8	1.00	Linear Regression
	50	4		
	100	8		
	200	16		
	500	40		
C ₉ -C ₁₀ Aromatics	10	0.8	15.27	Calibration Factor
	50	4		
	100	8		
	200	16		
	500	40		

Calibration Check Date: 12/26/07 Filename: VP122607/002F0101.d

Calibration Check

Range	Levels (mg/Kg)	(µg/L)	%Difference if CF %Drift if LR	Limits
C ₅ -C ₈ Aliphatics	200	1.6	-15.8	±25%
C ₉ -C ₁₂ Aliphatics	200	1.6	-6.0	±25%
C ₉ -C ₁₀ Aromatics	200	1.6	-15.9	±25%

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) Laboratory Reporting Form

Client Name: Sovereign Consulting

Project Name: NV019

Sample Information	
Sample Identification	USTM232-236-MW15
Sample Matrix	WATER
Date Collected	12/18/07
Date Received	12/20/07
Date Extracted	12/28/07
Date Analyzed	01/02/08 16:58 - 01/02/08 16:58
Dry Weight	100
Dilution Factor	1 - 1
Initial Volume (mL)	500
Final Volume (mL)	5.0

Analytical Results			
Analytes**	Result µg/L	Report Limit µg/L	Flags
C9-C18 Aliphatics	BQL	100	
C19-C36 Aliphatics	BQL	100	
C11-C22 Aromatics	BQL	100	

Surrogates	Percent Recovery	Flags	Limits	
			Lower	Upper
Aliphatic (chloro-octadecane)	37.8	****	40	140
Aromatic (ortho-terphenyl)	72.7		40	140

** = Excludes any surrogates or internal standards and are unadjusted for individual analytes.

**** = Low surrogate recovery failure.

Duplicate analysis confirms low surrogates.

Lab Info: G650-127-1J	Lab Info: G650-127-1J
Aliphatic: EP010208/007F0301.D	Aromatic: EP010208/007F0301.D

Reviewed By: 

**EPH (Aliphatics/Aromatics) Laboratory Reporting Form**Client Name: Sovereign ConsultingProject Name: NV019

Sample Information	
Sample Identification	USTM232-236-MW09
Sample Matrix	WATER
Date Collected	12/18/07
Date Received	12/20/07
Date Extracted	12/26/07
Date Analyzed	02/19/08 15:38 - 02/19/08 15:38
Dry Weight	100
Dilution Factor	1 - 1
Initial Volume (mL)	500
Final Volume (mL)	5.0

Analytical Results			
Analytes**	Result µg/L	Report Limit µg/L	Flags
C9-C18 Aliphatics	BQL	100	
C19-C36 Aliphatics	BQL	100	
C11-C22 Aromatics	BQL	100	

Surrogates	Percent Recovery	Flags	Limits	
			Lower	Upper
Aliphatic (chloro-octadecane)	75.8		40	140
Aromatic (ortho-terphenyl)	75.6		40	140

** = Excludes any surrogates or internal standards and are unadjusted for individual analytes.

Surrogate recovery confirmed by duplicate analysis.

Lab Info: G650-127-2I	Lab Info: G650-127-2I
Aliphatic: EP122707/012F1001.D	Aromatic: EP122707/012F1001.D

Reviewed By: 

**EPH (Aliphatics/Aromatics) Laboratory Reporting Form**Client Name: Sovereign ConsultingProject Name: NV019

Sample Information	
Sample Identification	USTM232-236-MW03
Sample Matrix	WATER
Date Collected	12/18/07
Date Received	12/20/07
Date Extracted	12/26/07
Date Analyzed	12/28/07 21:58 - 12/28/07 22:27
Dry Weight	100
Dilution Factor	1 - 1
Initial Volume (mL)	500
Final Volume (mL)	5.0

Analytical Results			
Analytes**	Result µg/L	Report Limit µg/L	Flags
C9-C18 Aliphatics	BQL	100	
C19-C36 Aliphatics	BQL	100	
C11-C22 Aromatics	BQL	100	

Surrogates	Percent Recovery	Flags	Limits	
			Lower	Upper
Aliphatic (chloro-octadecane)	66.9		40	140
Aromatic (ortho-terphenyl)	59.6		40	140
Fractionation 1 (2-bromonaphthalene)	68.3		40	140
Fractionation 2 (2-fluorobiphenyl)	70.3		40	140

** = Excludes any surrogates or internal standards and are unadjusted for individual analytes.

Duplicate analysis confirms low surrogates.

Lab Info: G650-127-4I	Lab Info: G650-127-4I
Aliphatic: EP122807/014F1101.D	Aromatic: EP122807/015F1201.D

Reviewed By: 

EPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Sovereign Consulting

Project Name: NV019

Sample Information	
Sample Identification	USTM232-236-MW08
Sample Matrix	WATER
Date Collected	12/18/07
Date Received	12/20/07
Date Extracted	12/26/07
Date Analyzed	02/19/08 16:35 - 02/19/08 16:35
Dry Weight	100
Dilution Factor	1 - 1
Initial Volume (mL)	500
Final Volume (mL)	5.0

Analytical Results			
Analytes**	Result µg/L	Report Limit µg/L	Flags
C9-C18 Aliphatics	BQL	100	
C19-C36 Aliphatics	BQL	100	
C11-C22 Aromatics	BQL	100	

Surrogates	Percent Recovery	Flags	Limits	
			Lower	Upper
Aliphatic (chloro-octadecane)	70.3		40	140
Aromatic (ortho-terphenyl)	73.0		40	140

** = Excludes any surrogates or internal standards and are unadjusted for individual analytes.

Surrogate recovery confirmed by duplicate analysis.

Lab Info: G650-127-5I	Lab Info: G650-127-5I
Aliphatic: EP122707/014F1201.D	Aromatic: EP122707/014F1201.D

Reviewed By: 

EPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Sovereign Consulting

Project Name: NV019

Sample Information	
Sample Identification	USTM232-236-MW18
Sample Matrix	WATER
Date Collected	12/18/07
Date Received	12/20/07
Date Extracted	12/26/07
Date Analyzed	12/28/07 22:56 - 12/28/07 23:25
Dry Weight	100
Dilution Factor	1 - 1
Initial Volume (mL)	500
Final Volume (mL)	5.0

Analytical Results			
Analytes**	Result µg/L	Report Limit µg/L	Flags
C9-C18 Aliphatics	BQL	100	
C19-C36 Aliphatics	BQL	100	
C11-C22 Aromatics	BQL	100	

Surrogates	Percent Recovery	Flags	Limits	
			Lower	Upper
Aliphatic (chloro-octadecane)	61.4		40	140
Aromatic (ortho-terphenyl)	53.8		40	140
Fractionation 1 (2-bromonaphthalene)	75.1		40	140
Fractionation 2 (2-fluorobiphenyl)	75.4		40	140

** = Excludes any surrogates or internal standards and are unadjusted for individual analytes.

Duplicate analysis confirms low surrogates.

Lab Info: G650-127-6I	Lab Info: G650-127-6I
Aliphatic: EP122807/016F1301.D	Aromatic: EP122807/017F1401.D

Reviewed By:



EPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Sovereign Consulting

Project Name: NV019

Sample Information	
Sample Identification	USTM232-236-MW20
Sample Matrix	WATER
Date Collected	12/18/07
Date Received	12/20/07
Date Extracted	12/26/07
Date Analyzed	12/28/07 23:54 - 12/29/07 00:23
Dry Weight	100
Dilution Factor	1 - 1
Initial Volume (mL)	500
Final Volume (mL)	5.0

Analytical Results			
Analytes**	Result µg/L	Report Limit µg/L	Flags
C9-C18 Aliphatics	BQL	100	
C19-C36 Aliphatics	BQL	100	
C11-C22 Aromatics	BQL	100	

Surrogates	Percent Recovery	Flags	Limits	
			Lower	Upper
Aliphatic (chloro-octadecane)	71.0		40	140
Aromatic (ortho-terphenyl)	62.7		40	140
Fractionation 1 (2-bromonaphthalene)	79.8		40	140
Fractionation 2 (2-fluorobiphenyl)	80.7		40	140

** = Excludes any surrogates or internal standards and are unadjusted for individual analytes.

Duplicate analysis confirms low surrogates.

Lab Info: G650-127-7I	Lab Info: G650-127-7I
Aliphatic: EP122807/018F1501.D	Aromatic: EP122807/019F1601.D

Reviewed By: 

EPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Sovereign Consulting

Project Name: NV019

Sample Information	
Sample Identification	USTM232-236-MW05
Sample Matrix	WATER
Date Collected	12/18/07
Date Received	12/20/07
Date Extracted	12/26/07
Date Analyzed	12/27/07 18:02 - 12/27/07 18:02
Dry Weight	100
Dilution Factor	1 - 1
Initial Volume (mL)	500
Final Volume (mL)	5.0

Analytical Results			
Analytes**	Result µg/L	Report Limit µg/L	Flags
C9-C18 Aliphatics	BQL	100	
C19-C36 Aliphatics	BQL	100	
C11-C22 Aromatics	BQL	100	

Surrogates	Percent Recovery	Flags	Limits	
			Lower	Upper
Aliphatic (chloro-octadecane)	71.1		40	140
Aromatic (ortho-terphenyl)	71.7		40	140

** = Excludes any surrogates or internal standards and are unadjusted for individual analytes.

Surrogate recovery confirmed by duplicate analysis.

Lab Info: G650-127-8I	Lab Info: G650-127-8I
Aliphatic: EP122707/017F1501.D	Aromatic: EP122707/017F1501.D

Reviewed By: 

EPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Sovereign Consulting

Project Name: NV019

Sample Information	
Sample Identification	USTM232-236-MW21
Sample Matrix	WATER
Date Collected	12/18/07
Date Received	12/20/07
Date Extracted	12/26/07
Date Analyzed	12/29/07 00:52 - 12/29/07 01:20
Dry Weight	100
Dilution Factor	1 - 1
Initial Volume (mL)	500
Final Volume (mL)	5.0

Analytical Results			
Analytes**	Result µg/L	Report Limit µg/L	Flags
C9-C18 Aliphatics	BQL	100	
C19-C36 Aliphatics	BQL	100	
C11-C22 Aromatics	130	100	

Surrogates	Percent Recovery	Flags	Limits	
			Lower	Upper
Aliphatic (chloro-octadecane)	63.9		40	140
Aromatic (ortho-terphenyl)	59.5		40	140
Fractionation 1 (2-bromonaphthalene)	82.0		40	140
Fractionation 2 (2-fluorobiphenyl)	83.5		40	140

** = Excludes any surrogates or internal standards and are unadjusted for individual analytes.

Duplicate analysis confirms low surrogates.

Lab Info: G650-127-9K	Lab Info: G650-127-9K
Aliphatic: EP122807/020F1701.D	Aromatic: EP122807/021F1801.D

Reviewed By: 

**EPH (Aliphatics/Aromatics) Laboratory Reporting Form**Client Name: Sovereign ConsultingProject Name: NV019

Sample Information	
Sample Identification	USTM232-236-DUPLICATE
Sample Matrix	WATER
Date Collected	12/18/07
Date Received	12/20/07
Date Extracted	12/26/07
Date Analyzed	12/27/07 18:59 - 12/27/07 18:59
Dry Weight	100
Dilution Factor	1 - 1
Initial Volume (mL)	500
Final Volume (mL)	5.0

Analytical Results			
Analytes**	Result µg/L	Report Limit µg/L	Flags
C9-C18 Aliphatics	BQL	100	
C19-C36 Aliphatics	BQL	100	
C11-C22 Aromatics	BQL	100	

Surrogates	Percent Recovery	Flags	Limits	
			Lower	Upper
Aliphatic (chloro-octadecane)	61.3		40	140
Aromatic (ortho-terphenyl)	63.0		40	140

** = Excludes any surrogates or internal standards and are unadjusted for individual analytes.

Surrogate recovery confirmed by duplicate analysis.

Lab Info: G650-127-10I	Lab Info: G650-127-10I
Aliphatic: EP122707/019F1701.D	Aromatic: EP122707/019F1701.D

Reviewed By: 

**EPH (Aliphatics/Aromatics) Laboratory Reporting Form**Client Name: Sovereign ConsultingProject Name: NV019

Sample Information	
Sample Identification	USTM232-236-MW01
Sample Matrix	WATER
Date Collected	12/18/07
Date Received	12/20/07
Date Extracted	12/26/07
Date Analyzed	12/27/07 19:56 - 12/27/07 19:56
Dry Weight	100
Dilution Factor	1 - 1
Initial Volume (mL)	500
Final Volume (mL)	5.0

Analytical Results			
Analytes**	Result µg/L	Report Limit µg/L	Flags
C9-C18 Aliphatics	BQL	100	
C19-C36 Aliphatics	BQL	100	
C11-C22 Aromatics	BQL	100	

Surrogates	Percent Recovery	Flags	Limits	
			Lower	Upper
Aliphatic (chloro-octadecane)	41.6		40	140
Aromatic (ortho-terphenyl)	60.1		40	140

** = Excludes any surrogates or internal standards and are unadjusted for individual analytes.

Surrogate recovery confirmed by duplicate analysis.

Lab Info: G650-127-12J	Lab Info: G650-127-12J
Aliphatic: EP122707/021F1901.D	Aromatic: EP122707/021F1901.D

Reviewed By: 

Attachment 3

EPH Laboratory Reporting Form

Calibration and QA/QC Information

Initial Calibration Date:

12/26/07

Calibration Ranges and Limits

Range	MDL		ML		RL	
	(10/17/06) (µg/L)	(10/17/06) (mg/Kg)	(µg/L)	(mg/Kg)	(µg/L)	(mg/Kg)
C9-C18 Aliphatics	28.1	0.847	89	2.69	100	10
C19-C36 Aliphatics	36.5	1.17	116	3.72	100	10
C11-C22 Aromatics	27.6	9.47	87.8	30.1	100	10

Calibration Concentration Levels

Range	Levels (µg/L)	Levels (mg/Kg)	%RSD if CF r if LR	Method of Quantitation
C ₉ -C ₁₈ Aliphatics	400	12.5	3.80	Calibration Factor
	200	6.25		
	100	3.13		
	50	1.56		
	10	0.313		
C ₁₉ -C ₃₆ Aliphatics	400	12.5	6.26	Calibration Factor
	200	6.25		
	100	3.13		
	50	1.56		
	10	0.313		
C ₁₁ -C ₂₂ Aromatics	400	12.5	4.66	Calibration Factor
	200	6.25		
	100	3.13		
	50	1.56		
	10	0.313		

Calibration Check Date:

12/27/07

Filenames:

ep122707/024f2201.d

12/27/07

ep122707/025f2301.d

Calibration Check

Range	Levels (µg/L) (mg/Kg)	%Difference if CF %Drift if LR	Limits
C9-C18 Aliphatics	200 6.25	2.6	±25%
C19-C36 Aliphatics	200 6.25	2.4	±25%
C11-C22 Aromatics	200 6.25	5.8	±25%

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: 12/26/07

Calibration Ranges and Limits

Range	MDL		ML		RL	
	(10/17/06) (µg/L)	(10/17/06) (mg/Kg)	(µg/L)	(mg/Kg)	(µg/L)	(mg/Kg)
C9-C18 Aliphatics	28.1	0.847	89	2.69	100	10
C19-C36 Aliphatics	36.5	1.17	116	3.72	100	10
C11-C22 Aromatics	27.6	9.47	87.8	30.1	100	10

Calibration Concentration Levels

Range	Levels (µg/L)	Levels (mg/Kg)	%RSD if CF r if LR	Method of Quantitation
C ₉ -C ₁₈ Aliphatics	400	12.5	3.80	Calibration Factor
	200	6.25		
	100	3.13		
	50	1.56		
	10	0.313		
C ₁₉ -C ₃₆ Aliphatics	400	12.5	6.26	Calibration Factor
	200	6.25		
	100	3.13		
	50	1.56		
	10	0.313		
C ₁₁ -C ₂₂ Aromatics	400	12.5	4.66	Calibration Factor
	200	6.25		
	100	3.13		
	50	1.56		
	10	0.313		

Calibration Check Date: 12/27/07
12/27/07

Filenames: ep122707/001f0101.d
ep122707/002f0201.d

Calibration Check

Range	Levels (mg/Kg)	(µg/L)	%Difference if CF %Drift if LR	Limits
C9-C18 Aliphatics	200	6.25	-1.0	±25%
C19-C36 Aliphatics	200	6.25	-20.2	±25%
C11-C22 Aromatics	200	6.25	2.6	±25%

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: 12/26/07

Calibration Ranges and Limits

Range	MDL		ML		RL	
	(10/17/06) (µg/L)	(10/17/06) (mg/Kg)	(µg/L)	(mg/Kg)	(µg/L)	(mg/Kg)
C9-C18 Aliphatics	28.1	0.847	89	2.69	100	10
C19-C36 Aliphatics	36.5	1.17	116	3.72	100	10
C11-C22 Aromatics	27.6	9.47	87.8	30.1	100	10

Calibration Concentration Levels

Range	Levels (µg/L)	Levels (mg/Kg)	%RSD if CF r if LR	Method of Quantitation
C ₉ -C ₁₈ Aliphatics	400	12.5	3.80	Calibration Factor
	200	6.25		
	100	3.13		
	50	1.56		
	10	0.313		
C ₁₉ -C ₃₆ Aliphatics	400	12.5	6.26	Calibration Factor
	200	6.25		
	100	3.13		
	50	1.56		
	10	0.313		
C ₁₁ -C ₂₂ Aromatics	400	12.5	4.66	Calibration Factor
	200	6.25		
	100	3.13		
	50	1.56		
	10	0.313		

Calibration Check Date: 12/28/07
12/28/07

Filenames: ep122807/001f0101.d
ep122807/002f0201.d

Calibration Check

Range	Levels (mg/Kg)	(µg/L)	%Difference if CF %Drift if LR	Limits
C9-C18 Aliphatics	200	6.25	-7.3	≤±25%
C19-C36 Aliphatics	200	6.25	-8.1	≤±25%
C11-C22 Aromatics	200	6.25	1.4	≤±25%

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: 12/26/07

Calibration Ranges and Limits

Range	MDL		ML		RL	
	(10/17/06) (µg/L)	(10/17/06) (mg/Kg)	(µg/L)	(mg/Kg)	(µg/L)	(mg/Kg)
C9-C18 Aliphatics	28.1	0.847	89	2.69	100	10
C19-C36 Aliphatics	36.5	1.17	116	3.72	100	10
C11-C22 Aromatics	27.6	9.47	87.8	30.1	100	10

Calibration Concentration Levels

Range	Levels (µg/L)	Levels (mg/Kg)	%RSD if CF r if LR	Method of Quantitation
C ₉ -C ₁₈ Aliphatics	400	12.5	3.80	Calibration Factor
	200	6.25		
	100	3.13		
	50	1.56		
	10	0.313		
C ₁₉ -C ₃₆ Aliphatics	400	12.5	6.26	Calibration Factor
	200	6.25		
	100	3.13		
	50	1.56		
	10	0.313		
C ₁₁ -C ₂₂ Aromatics	400	12.5	4.66	Calibration Factor
	200	6.25		
	100	3.13		
	50	1.56		
	10	0.313		

Calibration Check Date: 12/28/07
12/29/07

Filenames: ep122807/040f3701.d
ep122807/041f3801.d

Calibration Check

Range	Levels (mg/Kg)	(µg/L)	%Difference if CF %Drift if LR	Limits
C9-C18 Aliphatics	200	6.25	0.3	±25%
C19-C36 Aliphatics	200	6.25	0.8	±25%
C11-C22 Aromatics	200	6.25	6.1	±25%

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: USTM232-236-MW15
Client Project ID: NV019
Lab Sample ID: G650-127-1H
Lab Project ID: G650-127

Analyzed By: DCS
Date Collected: 12/18/2007 10:40
Date Received: 12/20/2007
Date Extracted: 12/23/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	12/24/2007	
Acenaphthylene	BQL	10.0	1.12	1	12/24/2007	
Anthracene	BQL	10.0	1.75	1	12/24/2007	
Benzo[a]anthracene	BQL	10.0	1.36	1	12/24/2007	
Benzo[a]pyrene	BQL	10.0	1.27	1	12/24/2007	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	12/24/2007	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	12/24/2007	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	12/24/2007	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	12/24/2007	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	12/24/2007	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	12/24/2007	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	12/24/2007	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	12/24/2007	
Butylbenzylphthalate	BQL	10.0	1.53	1	12/24/2007	
2-Chloronaphthalene	BQL	10.0	1.25	1	12/24/2007	
2-Chlorophenol	BQL	10.0	4.22	1	12/24/2007	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	12/24/2007	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	12/24/2007	
Chrysene	BQL	10.0	1.11	1	12/24/2007	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	12/24/2007	
Di-n-Butylphthalate	BQL	10.0	1.65	1	12/24/2007	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	12/24/2007	
2,4-Dichlorophenol	BQL	10.0	3.75	1	12/24/2007	
Diethylphthalate	BQL	10.0	1.48	1	12/24/2007	
Dimethylphthalate	BQL	10.0	1.04	1	12/24/2007	
2,4-Dimethylphenol	BQL	10.0	9.25	1	12/24/2007	
Di-n-octylphthalate	BQL	10.0	1.16	1	12/24/2007	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	12/24/2007	
2,4-Dinitrophenol	BQL	50.0	4.20	1	12/24/2007	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	12/24/2007	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	12/24/2007	
Diphenylamine *	BQL	10.0	1.53	1	12/24/2007	
Fluoranthene	BQL	10.0	1.41	1	12/24/2007	
Fluorene	BQL	10.0	1.22	1	12/24/2007	
Hexachlorobenzene	BQL	10.0	1.22	1	12/24/2007	
Hexachlorobutadiene	BQL	10.0	1.58	1	12/24/2007	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	12/24/2007	
Hexachloroethane	BQL	10.0	1.58	1	12/24/2007	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	12/24/2007	
Isophorone	BQL	10.0	1.27	1	12/24/2007	
Naphthalene	BQL	10.0	1.08	1	12/24/2007	
Nitrobenzene	BQL	10.0	1.32	1	12/24/2007	
2-Nitrophenol	BQL	10.0	3.52	1	12/24/2007	
4-Nitrophenol	BQL	50.0	3.17	1	12/24/2007	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	12/24/2007	
Pentachlorophenol	BQL	50.0	2.83	1	12/24/2007	
Phenanthrene	BQL	10.0	1.38	1	12/24/2007	

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTM232-236-MW15
Client Project ID: NV019
Lab Sample ID: G650-127-1H
Lab Project ID: G650-127

Analyzed By: DCS
Date Collected: 12/18/2007 10:40
Date Received: 12/20/2007
Date Extracted: 12/23/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Phenol	BQL	10.0	3.38	1	12/24/2007	
Pyrene	BQL	10.0	2.08	1	12/24/2007	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	12/24/2007	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	12/24/2007	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	7.6	76		
2-Fluorophenol		10	6.6	66		
Nitrobenzene-d5		10	7.3	73		
Phenol-d6		10	6.1	61		
2,4,6-Tribromophenol		10	7.4	74		
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: USTM232-236-MW15
Client Project ID: NV019
Lab Sample ID: G650-127-1H
Lab Project ID: G650-127
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: DES
Date Collected: 12/18/2007 10:40
Date Received: 12/20/2007
Date Extracted: 12/23/2007
Date Analyzed: 12/24/2007
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Unknown	7.13			9.79
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: USTM232-236-MW09
Client Project ID: NV019
Lab Sample ID: G650-127-2H
Lab Project ID: G650-127

Analyzed By: DCS
Date Collected: 12/18/2007 10:50
Date Received: 12/20/2007
Date Extracted: 12/23/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	12/24/2007	
Acenaphthylene	BQL	10.0	1.12	1	12/24/2007	
Anthracene	BQL	10.0	1.75	1	12/24/2007	
Benzo[a]anthracene	BQL	10.0	1.36	1	12/24/2007	
Benzo[a]pyrene	BQL	10.0	1.27	1	12/24/2007	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	12/24/2007	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	12/24/2007	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	12/24/2007	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	12/24/2007	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	12/24/2007	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	12/24/2007	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	12/24/2007	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	12/24/2007	
Butylbenzylphthalate	BQL	10.0	1.53	1	12/24/2007	
2-Chloronaphthalene	BQL	10.0	1.25	1	12/24/2007	
2-Chlorophenol	BQL	10.0	4.22	1	12/24/2007	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	12/24/2007	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	12/24/2007	
Chrysene	BQL	10.0	1.11	1	12/24/2007	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	12/24/2007	
Di-n-Butylphthalate	BQL	10.0	1.65	1	12/24/2007	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	12/24/2007	
2,4-Dichlorophenol	BQL	10.0	3.75	1	12/24/2007	
Diethylphthalate	BQL	10.0	1.48	1	12/24/2007	
Dimethylphthalate	BQL	10.0	1.04	1	12/24/2007	
2,4-Dimethylphenol	BQL	10.0	9.25	1	12/24/2007	
Di-n-octylphthalate	BQL	10.0	1.16	1	12/24/2007	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	12/24/2007	
2,4-Dinitrophenol	BQL	50.0	4.20	1	12/24/2007	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	12/24/2007	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	12/24/2007	
Diphenylamine *	BQL	10.0	1.53	1	12/24/2007	
Fluoranthene	BQL	10.0	1.41	1	12/24/2007	
Fluorene	BQL	10.0	1.22	1	12/24/2007	
Hexachlorobenzene	BQL	10.0	1.22	1	12/24/2007	
Hexachlorobutadiene	BQL	10.0	1.58	1	12/24/2007	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	12/24/2007	
Hexachloroethane	BQL	10.0	1.58	1	12/24/2007	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	12/24/2007	
Isophorone	BQL	10.0	1.27	1	12/24/2007	
Naphthalene	BQL	10.0	1.08	1	12/24/2007	
Nitrobenzene	BQL	10.0	1.32	1	12/24/2007	
2-Nitrophenol	BQL	10.0	3.52	1	12/24/2007	
4-Nitrophenol	BQL	50.0	3.17	1	12/24/2007	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	12/24/2007	
Pentachlorophenol	BQL	50.0	2.83	1	12/24/2007	
Phenanthrene	BQL	10.0	1.38	1	12/24/2007	

Results for Semivolatiles
by GCMS 625

Client Sample ID: USTM232-236-MW09
Client Project ID: NV019
Lab Sample ID: G650-127-2H
Lab Project ID: G650-127

Analyzed By: DCS
Date Collected: 12/18/2007 10:50
Date Received: 12/20/2007
Date Extracted: 12/23/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Phenol	BQL	10.0	3.38	1	12/24/2007	
Pyrene	BQL	10.0	2.08	1	12/24/2007	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	12/24/2007	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	12/24/2007	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	7.6	76		
2-Fluorophenol		10	6.3	64		
Nitrobenzene-d5		10	7.3	73		
Phenol-d6		10	5.8	58		
2,4,6-Tribromophenol		10	6.8	68		
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: USTM232-236-MW09
Client Project ID: NV019
Lab Sample ID: G650-127-2H
Lab Project ID: G650-127
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: DES
Date Collected: 12/18/2007 10:50
Date Received: 12/20/2007
Date Extracted: 12/23/2007
Date Analyzed: 12/24/2007
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Unknown	7.13			11.1
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: USTM232-236-MW03
Client Project ID: NV019
Lab Sample ID: G650-127-4H
Lab Project ID: G650-127

Analyzed By: DCS
Date Collected: 12/18/2007 11:33
Date Received: 12/20/2007
Date Extracted: 12/23/2007
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	12/24/2007	J
Acenaphthylene	BQL	10.0	1.12	1	12/24/2007	
Anthracene	BQL	10.0	1.75	1	12/24/2007	
Benzo[a]anthracene	BQL	10.0	1.36	1	12/24/2007	
Benzo[a]pyrene	BQL	10.0	1.27	1	12/24/2007	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	12/24/2007	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	12/24/2007	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	12/24/2007	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	12/24/2007	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	12/24/2007	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	12/24/2007	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	12/24/2007	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	12/24/2007	
Butylbenzylphthalate	BQL	10.0	1.53	1	12/24/2007	
2-Chloronaphthalene	BQL	10.0	1.25	1	12/24/2007	
2-Chlorophenol	BQL	10.0	4.22	1	12/24/2007	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	12/24/2007	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	12/24/2007	
Chrysene	BQL	10.0	1.11	1	12/24/2007	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	12/24/2007	
Di-n-Butylphthalate	BQL	10.0	1.65	1	12/24/2007	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	12/24/2007	
2,4-Dichlorophenol	BQL	10.0	3.75	1	12/24/2007	
Diethylphthalate	BQL	10.0	1.48	1	12/24/2007	
Dimethylphthalate	BQL	10.0	1.04	1	12/24/2007	
2,4-Dimethylphenol	BQL	10.0	9.25	1	12/24/2007	
Di-n-octylphthalate	BQL	10.0	1.16	1	12/24/2007	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	12/24/2007	
2,4-Dinitrophenol	BQL	50.0	4.20	1	12/24/2007	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	12/24/2007	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	12/24/2007	
Diphenylamine *	BQL	10.0	1.53	1	12/24/2007	
Fluoranthene	BQL	10.0	1.41	1	12/24/2007	
Fluorene	1.70	10.0	1.22	1	12/24/2007	J
Hexachlorobenzene	BQL	10.0	1.22	1	12/24/2007	
Hexachlorobutadiene	BQL	10.0	1.58	1	12/24/2007	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	12/24/2007	
Hexachloroethane	BQL	10.0	1.58	1	12/24/2007	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	12/24/2007	
Isophorone	BQL	10.0	1.27	1	12/24/2007	
Naphthalene	BQL	10.0	1.08	1	12/24/2007	
Nitrobenzene	BQL	10.0	1.32	1	12/24/2007	
2-Nitrophenol	BQL	10.0	3.52	1	12/24/2007	
4-Nitrophenol	BQL	50.0	3.17	1	12/24/2007	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	12/24/2007	
Pentachlorophenol	BQL	50.0	2.83	1	12/24/2007	
Phenanthrene	BQL	10.0	1.38	1	12/24/2007	

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTM232-236-MW03
Client Project ID: NV019
Lab Sample ID: G650-127-4H
Lab Project ID: G650-127

Analyzed By: DCS
Date Collected: 12/18/2007 11:33
Date Received: 12/20/2007
Date Extracted: 12/23/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Phenol	BQL	10.0	3.38	1	12/24/2007	
Pyrene	BQL	10.0	2.08	1	12/24/2007	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	12/24/2007	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	12/24/2007	

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	7.6	76
2-Fluorophenol	10	6.6	66
Nitrobenzene-d5	10	7.3	73
Phenol-d6	10	6	60
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: USTM232-236-MW03
Client Project ID: NV019
Lab Sample ID: G650-127-4H
Lab Project ID: G650-127
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: DES
Date Collected: 12/18/2007 11:33
Date Received: 12/20/2007
Date Extracted: 12/23/2007
Date Analyzed: 12/24/2007
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Unknown	7.13			9.5
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: 

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTM232-236-MW08
Client Project ID: NV019
Lab Sample ID: G650-127-5H
Lab Project ID: G650-127

Analyzed By: DCS
Date Collected: 12/18/2007 12:02
Date Received: 12/20/2007
Date Extracted: 12/23/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	12/24/2007	
Acenaphthylene	BQL	10.0	1.12	1	12/24/2007	
Anthracene	BQL	10.0	1.75	1	12/24/2007	
Benzo[a]anthracene	BQL	10.0	1.36	1	12/24/2007	
Benzo[a]pyrene	BQL	10.0	1.27	1	12/24/2007	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	12/24/2007	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	12/24/2007	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	12/24/2007	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	12/24/2007	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	12/24/2007	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	12/24/2007	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	12/24/2007	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	12/24/2007	
Butylbenzylphthalate	BQL	10.0	1.53	1	12/24/2007	
2-Chloronaphthalene	BQL	10.0	1.25	1	12/24/2007	
2-Chlorophenol	BQL	10.0	4.22	1	12/24/2007	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	12/24/2007	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	12/24/2007	
Chrysene	BQL	10.0	1.11	1	12/24/2007	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	12/24/2007	
Di-n-Butylphthalate	BQL	10.0	1.65	1	12/24/2007	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	12/24/2007	
2,4-Dichlorophenol	BQL	10.0	3.75	1	12/24/2007	
Diethylphthalate	BQL	10.0	1.48	1	12/24/2007	
Dimethylphthalate	BQL	10.0	1.04	1	12/24/2007	
2,4-Dimethylphenol	BQL	10.0	9.25	1	12/24/2007	
Di-n-octylphthalate	BQL	10.0	1.16	1	12/24/2007	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	12/24/2007	
2,4-Dinitrophenol	BQL	50.0	4.20	1	12/24/2007	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	12/24/2007	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	12/24/2007	
Diphenylamine *	BQL	10.0	1.53	1	12/24/2007	
Fluoranthene	BQL	10.0	1.41	1	12/24/2007	
Fluorene	BQL	10.0	1.22	1	12/24/2007	
Hexachlorobenzene	BQL	10.0	1.22	1	12/24/2007	
Hexachlorobutadiene	BQL	10.0	1.58	1	12/24/2007	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	12/24/2007	
Hexachloroethane	BQL	10.0	1.58	1	12/24/2007	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	12/24/2007	
Isophorone	BQL	10.0	1.27	1	12/24/2007	
Naphthalene	BQL	10.0	1.08	1	12/24/2007	
Nitrobenzene	BQL	10.0	1.32	1	12/24/2007	
2-Nitrophenol	BQL	10.0	3.52	1	12/24/2007	
4-Nitrophenol	BQL	50.0	3.17	1	12/24/2007	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	12/24/2007	
Pentachlorophenol	BQL	50.0	2.83	1	12/24/2007	
Phenanthrene	BQL	10.0	1.38	1	12/24/2007	

Results for Semivolatiles
by GCMS 625

Client Sample ID: USTM232-236-MW08
Client Project ID: NV019
Lab Sample ID: G650-127-5H
Lab Project ID: G650-127

Analyzed By: DCS
Date Collected: 12/18/2007 12:02
Date Received: 12/20/2007
Date Extracted: 12/23/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Phenol	BQL	10.0	3.38	1	12/24/2007	
Pyrene	BQL	10.0	2.08	1	12/24/2007	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	12/24/2007	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	12/24/2007	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	7.4	74		
2-Fluorophenol		10	6.2	62		
Nitrobenzene-d5		10	7.2	72		
Phenol-d6		10	5.7	57		
2,4,6-Tribromophenol		10	6.6	66		
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: USTM232-236-MW08
Client Project ID: NV019
Lab Sample ID: G650-127-5H
Lab Project ID: G650-127
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: DES
Date Collected: 12/18/2007 12:02
Date Received: 12/20/2007
Date Extracted: 12/23/2007
Date Analyzed: 12/24/2007
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Unknown	7.13			9.44
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: 

Results for Semivolatiles
by GCMS 625

Client Sample ID: USTM232-236-MW18

Client Project ID: NV019

Lab Sample ID: G650-127-6H

Lab Project ID: G650-127

Analyzed By: DCS

Date Collected: 12/18/2007 12:20

Date Received: 12/20/2007

Date Extracted: 12/23/2007

Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	12/24/2007	
Acenaphthylene	BQL	10.0	1.12	1	12/24/2007	
Anthracene	BQL	10.0	1.75	1	12/24/2007	
Benzo[a]anthracene	BQL	10.0	1.36	1	12/24/2007	
Benzo[a]pyrene	BQL	10.0	1.27	1	12/24/2007	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	12/24/2007	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	12/24/2007	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	12/24/2007	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	12/24/2007	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	12/24/2007	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	12/24/2007	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	12/24/2007	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	12/24/2007	
Butylbenzylphthalate	BQL	10.0	1.53	1	12/24/2007	
2-Chloronaphthalene	BQL	10.0	1.25	1	12/24/2007	
2-Chlorophenol	BQL	10.0	4.22	1	12/24/2007	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	12/24/2007	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	12/24/2007	
Chrysene	BQL	10.0	1.11	1	12/24/2007	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	12/24/2007	
Di-n-Butylphthalate	BQL	10.0	1.65	1	12/24/2007	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	12/24/2007	
2,4-Dichlorophenol	BQL	10.0	3.75	1	12/24/2007	
Diethylphthalate	BQL	10.0	1.48	1	12/24/2007	
Dimethylphthalate	BQL	10.0	1.04	1	12/24/2007	
2,4-Dimethylphenol	BQL	10.0	9.25	1	12/24/2007	
Di-n-octylphthalate	BQL	10.0	1.16	1	12/24/2007	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	12/24/2007	
2,4-Dinitrophenol	BQL	50.0	4.20	1	12/24/2007	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	12/24/2007	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	12/24/2007	
Diphenylamine *	BQL	10.0	1.53	1	12/24/2007	
Fluoranthene	BQL	10.0	1.41	1	12/24/2007	
Fluorene	2.70	10.0	1.22	1	12/24/2007	J
Hexachlorobenzene	BQL	10.0	1.22	1	12/24/2007	
Hexachlorobutadiene	BQL	10.0	1.58	1	12/24/2007	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	12/24/2007	
Hexachloroethane	BQL	10.0	1.58	1	12/24/2007	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	12/24/2007	
Isophorone	BQL	10.0	1.27	1	12/24/2007	
Naphthalene	BQL	10.0	1.08	1	12/24/2007	
Nitrobenzene	BQL	10.0	1.32	1	12/24/2007	
2-Nitrophenol	BQL	10.0	3.52	1	12/24/2007	
4-Nitrophenol	BQL	50.0	3.17	1	12/24/2007	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	12/24/2007	
Pentachlorophenol	BQL	50.0	2.83	1	12/24/2007	
Phenanthrene	BQL	10.0	1.38	1	12/24/2007	

Results for Semivolatiles
by GCMS 625

Client Sample ID: USTM232-236-MW18
Client Project ID: NV019
Lab Sample ID: G650-127-6H
Lab Project ID: G650-127

Analyzed By: DCS
Date Collected: 12/18/2007 12:20
Date Received: 12/20/2007
Date Extracted: 12/23/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Phenol	BQL	10.0	3.38	1	12/24/2007	
Pyrene	BQL	10.0	2.08	1	12/24/2007	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	12/24/2007	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	12/24/2007	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	7.7	77		
2-Fluorophenol		10	6.7	67		
Nitrobenzene-d5		10	7.5	75		
Phenol-d6		10	6.2	62		
2,4,6-Tribromophenol		10	7.5	75		
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: USTM232-236-MW18
Client Project ID: NV019
Lab Sample ID: G650-127-6H
Lab Project ID: G650-127
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: DES
Date Collected: 12/18/2007 12:20
Date Received: 12/20/2007
Date Extracted: 12/23/2007
Date Analyzed: 12/24/2007
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Unknown	7.13			11
2	Alkane, Unknown	3.93			8.53
3	2,3-Dihydro-1-methylindene	4.71	027133-93-3	94	6.22
4	Naphthalene, 1,2,3,4-tetrahydro-6-methyl-	5.63	001680-51-9	92	4.1
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: USTM232-236-MW20
Client Project ID: NV019
Lab Sample ID: G650-127-7H
Lab Project ID: G650-127

Analyzed By: DCS
Date Collected: 12/18/2007
Date Received: 12/20/2007
Date Extracted: 12/23/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	1.60	10.0	1.22	1	12/24/2007	J
Acenaphthylene	BQL	10.0	1.12	1	12/24/2007	
Anthracene	BQL	10.0	1.75	1	12/24/2007	
Benzo[a]anthracene	BQL	10.0	1.36	1	12/24/2007	
Benzo[a]pyrene	BQL	10.0	1.27	1	12/24/2007	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	12/24/2007	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	12/24/2007	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	12/24/2007	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	12/24/2007	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	12/24/2007	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	12/24/2007	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	12/24/2007	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	12/24/2007	
Butylbenzylphthalate	BQL	10.0	1.53	1	12/24/2007	
2-Chloronaphthalene	BQL	10.0	1.25	1	12/24/2007	
2-Chlorophenol	BQL	10.0	4.22	1	12/24/2007	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	12/24/2007	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	12/24/2007	
Chrysene	BQL	10.0	1.11	1	12/24/2007	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	12/24/2007	
Di-n-Butylphthalate	BQL	10.0	1.65	1	12/24/2007	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	12/24/2007	
2,4-Dichlorophenol	BQL	10.0	3.75	1	12/24/2007	
Diethylphthalate	BQL	10.0	1.48	1	12/24/2007	
Dimethylphthalate	BQL	10.0	1.04	1	12/24/2007	
2,4-Dimethylphenol	BQL	10.0	9.25	1	12/24/2007	
Di-n-octylphthalate	BQL	10.0	1.16	1	12/24/2007	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	12/24/2007	
2,4-Dinitrophenol	BQL	50.0	4.20	1	12/24/2007	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	12/24/2007	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	12/24/2007	
Diphenylamine *	BQL	10.0	1.53	1	12/24/2007	
Fluoranthene	BQL	10.0	1.41	1	12/24/2007	
Fluorene	1.60	10.0	1.22	1	12/24/2007	J
Hexachlorobenzene	BQL	10.0	1.22	1	12/24/2007	
Hexachlorobutadiene	BQL	10.0	1.58	1	12/24/2007	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	12/24/2007	
Hexachloroethane	BQL	10.0	1.58	1	12/24/2007	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	12/24/2007	
Isophorone	BQL	10.0	1.27	1	12/24/2007	
Naphthalene	BQL	10.0	1.08	1	12/24/2007	
Nitrobenzene	BQL	10.0	1.32	1	12/24/2007	
2-Nitrophenol	BQL	10.0	3.52	1	12/24/2007	
4-Nitrophenol	BQL	50.0	3.17	1	12/24/2007	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	12/24/2007	
Pentachlorophenol	BQL	50.0	2.83	1	12/24/2007	
Phenanthrene	BQL	10.0	1.38	1	12/24/2007	

Results for Semivolatiles
by GCMS 625

Client Sample ID: USTM232-236-MW20
Client Project ID: NV019
Lab Sample ID: G650-127-7H
Lab Project ID: G650-127

Analyzed By: DCS
Date Collected: 12/18/2007
Date Received: 12/20/2007
Date Extracted: 12/23/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Phenol	BQL	10.0	3.38	1	12/24/2007	
Pyrene	BQL	10.0	2.08	1	12/24/2007	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	12/24/2007	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	12/24/2007	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	7.4	74		
2-Fluorophenol		10	6.7	67		
Nitrobenzene-d5		10	7.3	73		
Phenol-d6		10	6	60		
2,4,6-Tribromophenol		10	7.7	77		
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: USTM232-236-MW20
Client Project ID: NV019
Lab Sample ID: G650-127-7H
Lab Project ID: G650-127
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: DES
Date Collected: 12/18/2007
Date Received: 12/20/2007
Date Extracted: 12/23/2007
Date Analyzed: 12/24/2007
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Unknown	7.13			12.6
2	Benzene, 2-ethenyl-1,3-dimethyl-	4.71	002039-90-9	94	7.09
3	Unknown	3.93			6.17
4	Naphthalene, 1,2,3,4-tetrahydro-6-methyl-	5.64	001680-51-9	96	4.15
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: USTM232-236-MW05
Client Project ID: NV019
Lab Sample ID: G650-127-8H
Lab Project ID: G650-127

Analyzed By: DCS
Date Collected: 12/18/2007 14:09
Date Received: 12/20/2007
Date Extracted: 12/23/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	12/24/2007	
Acenaphthylene	BQL	10.0	1.12	1	12/24/2007	
Anthracene	BQL	10.0	1.75	1	12/24/2007	
Benzo[a]anthracene	BQL	10.0	1.36	1	12/24/2007	
Benzo[a]pyrene	BQL	10.0	1.27	1	12/24/2007	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	12/24/2007	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	12/24/2007	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	12/24/2007	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	12/24/2007	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	12/24/2007	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	12/24/2007	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	12/24/2007	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	12/24/2007	
Butylbenzylphthalate	BQL	10.0	1.53	1	12/24/2007	
2-Chloronaphthalene	BQL	10.0	1.25	1	12/24/2007	
2-Chlorophenol	BQL	10.0	4.22	1	12/24/2007	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	12/24/2007	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	12/24/2007	
Chrysene	BQL	10.0	1.11	1	12/24/2007	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	12/24/2007	
Di-n-Butylphthalate	BQL	10.0	1.65	1	12/24/2007	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	12/24/2007	
2,4-Dichlorophenol	BQL	10.0	3.75	1	12/24/2007	
Diethylphthalate	BQL	10.0	1.48	1	12/24/2007	
Dimethylphthalate	BQL	10.0	1.04	1	12/24/2007	
2,4-Dimethylphenol	BQL	10.0	9.25	1	12/24/2007	
Di-n-octylphthalate	BQL	10.0	1.16	1	12/24/2007	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	12/24/2007	
2,4-Dinitrophenol	BQL	50.0	4.20	1	12/24/2007	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	12/24/2007	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	12/24/2007	
Diphenylamine *	BQL	10.0	1.53	1	12/24/2007	
Fluoranthene	BQL	10.0	1.41	1	12/24/2007	
Fluorene	BQL	10.0	1.22	1	12/24/2007	
Hexachlorobenzene	BQL	10.0	1.22	1	12/24/2007	
Hexachlorobutadiene	BQL	10.0	1.58	1	12/24/2007	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	12/24/2007	
Hexachloroethane	BQL	10.0	1.58	1	12/24/2007	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	12/24/2007	
Isophorone	BQL	10.0	1.27	1	12/24/2007	
Naphthalene	BQL	10.0	1.08	1	12/24/2007	
Nitrobenzene	BQL	10.0	1.32	1	12/24/2007	
2-Nitrophenol	BQL	10.0	3.52	1	12/24/2007	
4-Nitrophenol	BQL	50.0	3.17	1	12/24/2007	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	12/24/2007	
Pentachlorophenol	BQL	50.0	2.83	1	12/24/2007	
Phenanthrene	BQL	10.0	1.38	1	12/24/2007	

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTM232-236-MW05
Client Project ID: NV019
Lab Sample ID: G650-127-8H
Lab Project ID: G650-127

Analyzed By: DCS
Date Collected: 12/18/2007 14:09
Date Received: 12/20/2007
Date Extracted: 12/23/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Phenol	BQL	10.0	3.38	1	12/24/2007	
Pyrene	BQL	10.0	2.08	1	12/24/2007	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	12/24/2007	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	12/24/2007	

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	7.6	76
2-Fluorophenol	10	6.4	64
Nitrobenzene-d5	10	7.5	75
Phenol-d6	10	5.6	56
2,4,6-Tribromophenol	10	6.8	68
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: USTM232-236-MW05
Client Project ID: NV019
Lab Sample ID: G650-127-8H
Lab Project ID: G650-127
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: DES
Date Collected: 12/18/2007 14:09
Date Received: 12/20/2007
Date Extracted: 12/23/2007
Date Analyzed: 12/24/2007
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Unknown	7.13			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: _____

Results for Semivolatiles
by GCMS 625Client Sample ID: USTM232-236-MW21
Client Project ID: NV019
Lab Sample ID: G650-127-9H
Lab Project ID: G650-127Analyzed By: DCS
Date Collected: 12/18/2007 14:48
Date Received: 12/20/2007
Date Extracted: 12/23/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	2.10	10.0	1.22	1	12/24/2007	J
Acenaphthylene	BQL	10.0	1.12	1	12/24/2007	
Anthracene	1.80	10.0	1.75	1	12/24/2007	J
Benzo[a]anthracene	BQL	10.0	1.36	1	12/24/2007	
Benzo[a]pyrene	BQL	10.0	1.27	1	12/24/2007	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	12/24/2007	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	12/24/2007	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	12/24/2007	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	12/24/2007	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	12/24/2007	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	12/24/2007	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	12/24/2007	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	12/24/2007	
Butylbenzylphthalate	BQL	10.0	1.53	1	12/24/2007	
2-Chloronaphthalene	BQL	10.0	1.25	1	12/24/2007	
2-Chlorophenol	BQL	10.0	4.22	1	12/24/2007	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	12/24/2007	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	12/24/2007	
Chrysene	BQL	10.0	1.11	1	12/24/2007	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	12/24/2007	
Di-n-Butylphthalate	BQL	10.0	1.65	1	12/24/2007	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	12/24/2007	
2,4-Dichlorophenol	BQL	10.0	3.75	1	12/24/2007	
Diethylphthalate	BQL	10.0	1.48	1	12/24/2007	
Dimethylphthalate	BQL	10.0	1.04	1	12/24/2007	
2,4-Dimethylphenol	BQL	10.0	9.25	1	12/24/2007	
Di-n-octylphthalate	BQL	10.0	1.16	1	12/24/2007	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	12/24/2007	
2,4-Dinitrophenol	BQL	50.0	4.20	1	12/24/2007	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	12/24/2007	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	12/24/2007	
Diphenylamine *	BQL	10.0	1.53	1	12/24/2007	
Fluoranthene	BQL	10.0	1.41	1	12/24/2007	
Fluorene	3.00	10.0	1.22	1	12/24/2007	J
Hexachlorobenzene	BQL	10.0	1.22	1	12/24/2007	
Hexachlorobutadiene	BQL	10.0	1.58	1	12/24/2007	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	12/24/2007	
Hexachloroethane	BQL	10.0	1.58	1	12/24/2007	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	12/24/2007	
Isophorone	BQL	10.0	1.27	1	12/24/2007	
Naphthalene	BQL	10.0	1.08	1	12/24/2007	
Nitrobenzene	BQL	10.0	1.32	1	12/24/2007	
2-Nitrophenol	BQL	10.0	3.52	1	12/24/2007	
4-Nitrophenol	BQL	50.0	3.17	1	12/24/2007	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	12/24/2007	
Pentachlorophenol	BQL	50.0	2.83	1	12/24/2007	
Phenanthrene	BQL	10.0	1.38	1	12/24/2007	

Results for Semivolatiles
by GCMS 625

Client Sample ID: USTM232-236-MW21
Client Project ID: NV019
Lab Sample ID: G650-127-9H
Lab Project ID: G650-127

Analyzed By: DCS
Date Collected: 12/18/2007 14:48
Date Received: 12/20/2007
Date Extracted: 12/23/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Phenol	BQL	10.0	3.38	1	12/24/2007	
Pyrene	BQL	10.0	2.08	1	12/24/2007	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	12/24/2007	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	12/24/2007	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	7.5	75		
2-Fluorophenol		10	6.8	68		
Nitrobenzene-d5		10	7.5	75		
Phenol-d6		10	6.1	61		
2,4,6-Tribromophenol		10	8.3	83		
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: USTM232-236-MW21
Client Project ID: NV019
Lab Sample ID: G650-127-9H
Lab Project ID: G650-127
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: DES
Date Collected: 12/18/2007 14:48
Date Received: 12/20/2007
Date Extracted: 12/23/2007
Date Analyzed: 12/24/2007
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Naphthalene, 2,3-dimethyl-	6.41	000581-40-8	98	22
2	Unknown	7.13			16.9
3	Naphthalene, 2,6-dimethyl-	6.34	000581-42-0	97	16.2
4	Naphthalene, 2,6-dimethyl-	6.44	000581-42-0	98	12.3
5	Unknown	6.94			7.8
6	Naphthalene, 1-ethyl-	6.26	001127-76-0	94	7.5
7	Aromatic, Unknown	4.71			6.82
8	Aromatic, Unknown	5.63			6.82
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: USTM232-236-DUPLICATE

Client Project ID: NV019

Lab Sample ID: G650-127-10H

Lab Project ID: G650-127

Analyzed By: DCS

Date Collected: 12/18/2007 0:00

Date Received: 12/20/2007

Date Extracted: 12/23/2007

Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	12/24/2007	
Acenaphthylene	BQL	10.0	1.12	1	12/24/2007	
Anthracene	BQL	10.0	1.75	1	12/24/2007	
Benzo[a]anthracene	BQL	10.0	1.36	1	12/24/2007	
Benzo[a]pyrene	BQL	10.0	1.27	1	12/24/2007	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	12/24/2007	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	12/24/2007	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	12/24/2007	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	12/24/2007	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	12/24/2007	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	12/24/2007	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	12/24/2007	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	12/24/2007	
Butylbenzylphthalate	BQL	10.0	1.53	1	12/24/2007	
2-Chloronaphthalene	BQL	10.0	1.25	1	12/24/2007	
2-Chlorophenol	BQL	10.0	4.22	1	12/24/2007	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	12/24/2007	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	12/24/2007	
Chrysene	BQL	10.0	1.11	1	12/24/2007	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	12/24/2007	
Di-n-Butylphthalate	BQL	10.0	1.65	1	12/24/2007	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	12/24/2007	
2,4-Dichlorophenol	BQL	10.0	3.75	1	12/24/2007	
Diethylphthalate	BQL	10.0	1.48	1	12/24/2007	
Dimethylphthalate	BQL	10.0	1.04	1	12/24/2007	
2,4-Dimethylphenol	BQL	10.0	9.25	1	12/24/2007	
Di-n-octylphthalate	BQL	10.0	1.16	1	12/24/2007	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	12/24/2007	
2,4-Dinitrophenol	BQL	50.0	4.20	1	12/24/2007	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	12/24/2007	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	12/24/2007	
Diphenylamine *	BQL	10.0	1.53	1	12/24/2007	
Fluoranthene	BQL	10.0	1.41	1	12/24/2007	
Fluorene	BQL	10.0	1.22	1	12/24/2007	
Hexachlorobenzene	BQL	10.0	1.22	1	12/24/2007	
Hexachlorobutadiene	BQL	10.0	1.58	1	12/24/2007	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	12/24/2007	
Hexachloroethane	BQL	10.0	1.58	1	12/24/2007	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	12/24/2007	
Isophorone	BQL	10.0	1.27	1	12/24/2007	
Naphthalene	BQL	10.0	1.08	1	12/24/2007	
Nitrobenzene	BQL	10.0	1.32	1	12/24/2007	
2-Nitrophenol	BQL	10.0	3.52	1	12/24/2007	
4-Nitrophenol	BQL	50.0	3.17	1	12/24/2007	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	12/24/2007	
Pentachlorophenol	BQL	50.0	2.83	1	12/24/2007	
Phenanthrene	BQL	10.0	1.38	1	12/24/2007	

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTM232-236-DUPLICATE
Client Project ID: NV019
Lab Sample ID: G650-127-10H
Lab Project ID: G650-127

Analyzed By: DCS
Date Collected: 12/18/2007 0:00
Date Received: 12/20/2007
Date Extracted: 12/23/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Phenol	BQL	10.0	3.38	1	12/24/2007	
Pyrene	BQL	10.0	2.08	1	12/24/2007	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	12/24/2007	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	12/24/2007	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	7.3	73		
2-Fluorophenol		10	5.8	58		
Nitrobenzene-d5		10	7	70		
Phenol-d6		10	5.3	53		
2,4,6-Tribromophenol		10	6.8	68		
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: USTM232-236-DUPLICATE
Client Project ID: NV019
Lab Sample ID: G650-127-10H
Lab Project ID: G650-127
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: DES
Date Collected: 12/18/2007 0:00
Date Received: 12/20/2007
Date Extracted: 12/23/2007
Date Analyzed: 12/24/2007
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Unknown	7.13			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: 

Results for Semivolatiles
by GCMS 625Client Sample ID: USTM232-236-MW22
Client Project ID: NV019
Lab Sample ID: G650-127-111
Lab Project ID: G650-127Analyzed By: DCS
Date Collected: 12/18/2007 15:06
Date Received: 12/20/2007
Date Extracted: 12/24/2007
Matrix: VWater

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	2.60	10.0	1.22	1	12/27/2007	J
Acenaphthylene	BQL	10.0	1.12	1	12/27/2007	
Anthracene	BQL	10.0	1.75	1	12/27/2007	
Benzo[a]anthracene	BQL	10.0	1.36	1	12/27/2007	
Benzo[a]pyrene	BQL	10.0	1.27	1	12/27/2007	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	12/27/2007	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	12/27/2007	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	12/27/2007	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	12/27/2007	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	12/27/2007	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	12/27/2007	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	12/27/2007	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	12/27/2007	
Butylbenzylphthalate	BQL	10.0	1.53	1	12/27/2007	
2-Chloronaphthalene	BQL	10.0	1.25	1	12/27/2007	
2-Chlorophenol	BQL	10.0	4.22	1	12/27/2007	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	12/27/2007	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	12/27/2007	
Chrysene	BQL	10.0	1.11	1	12/27/2007	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	12/27/2007	
Di-n-Butylphthalate	BQL	10.0	1.65	1	12/27/2007	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	12/27/2007	
2,4-Dichlorophenol	BQL	10.0	3.75	1	12/27/2007	
Diethylphthalate	BQL	10.0	1.48	1	12/27/2007	
Dimethylphthalate	BQL	10.0	1.04	1	12/27/2007	
2,4-Dimethylphenol	BQL	10.0	9.25	1	12/27/2007	
Di-n-octylphthalate	BQL	10.0	1.16	1	12/27/2007	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	12/27/2007	
2,4-Dinitrophenol	BQL	50.0	4.20	1	12/27/2007	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	12/27/2007	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	12/27/2007	
Diphenylamine *	BQL	10.0	1.53	1	12/27/2007	
Fluoranthene	BQL	10.0	1.41	1	12/27/2007	
Fluorene	3.10	10.0	1.22	1	12/27/2007	J
Hexachlorobenzene	BQL	10.0	1.22	1	12/27/2007	
Hexachlorobutadiene	BQL	10.0	1.58	1	12/27/2007	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	12/27/2007	
Hexachloroethane	BQL	10.0	1.58	1	12/27/2007	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	12/27/2007	
Isophorone	BQL	10.0	1.27	1	12/27/2007	
Naphthalene	3.20	10.0	1.08	1	12/27/2007	J
Nitrobenzene	BQL	10.0	1.32	1	12/27/2007	
2-Nitrophenol	BQL	10.0	3.52	1	12/27/2007	
4-Nitrophenol	BQL	50.0	3.17	1	12/27/2007	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	12/27/2007	
Pentachlorophenol	BQL	50.0	2.83	1	12/27/2007	
Phenanthrene	2.40	10.0	1.38	1	12/27/2007	J

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTM232-236-MW22
Client Project ID: NV019
Lab Sample ID: G650-127-111
Lab Project ID: G650-127

Analyzed By: DCS
Date Collected: 12/18/2007 15:06
Date Received: 12/20/2007
Date Extracted: 12/24/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Phenol	BQL	10.0	3.38	1	12/27/2007	
Pyrene	BQL	10.0	2.08	1	12/27/2007	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	12/27/2007	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	12/27/2007	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	7.9	79		
2-Fluorophenol		10	7.4	74		
Nitrobenzene-d5		10	7.7	77		
Phenol-d6		10	6	60		
2,4,6-Tribromophenol		10	9.2	92		
4-Terphenyl-d14		10	9.1	91		

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: USTM232-236-MW22
Client Project ID: NV019
Lab Sample ID: G650-127-111
Lab Project ID: G650-127
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: DES
Date Collected: 12/18/2007 15:06
Date Received: 12/20/2007
Date Extracted: 12/24/2007
Date Analyzed: 12/27/2007
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Unknown	12.06			11.2
2	Naphthalene, 1,6-dimethyl-	10.98	000575-43-9	93	9.4
3	Benzene, (1-methyl-1-propenyl)-, (E)-	8.35	000768-00-3	90	7.26
4	Unknown	12.49			5.74
5	Aromatic acid, Unknown	10.16			4.44
6	Aromatic, Unknown	10.86			4.13
7	Unknown	8.84			4.04
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: USTM232-236-MW01
Client Project ID: NV019
Lab Sample ID: G650-127-12H
Lab Project ID: G650-127

Analyzed By: DCS
Date Collected: 12/18/2007 15:37
Date Received: 12/20/2007
Date Extracted: 12/23/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	12/24/2007	
Acenaphthylene	BQL	10.0	1.12	1	12/24/2007	
Anthracene	BQL	10.0	1.75	1	12/24/2007	
Benzo[a]anthracene	BQL	10.0	1.36	1	12/24/2007	
Benzo[a]pyrene	BQL	10.0	1.27	1	12/24/2007	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	12/24/2007	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	12/24/2007	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	12/24/2007	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	12/24/2007	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	12/24/2007	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	12/24/2007	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	12/24/2007	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	12/24/2007	
Butylbenzylphthalate	BQL	10.0	1.53	1	12/24/2007	
2-Chloronaphthalene	BQL	10.0	1.25	1	12/24/2007	
2-Chlorophenol	BQL	10.0	4.22	1	12/24/2007	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	12/24/2007	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	12/24/2007	
Chrysene	BQL	10.0	1.11	1	12/24/2007	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	12/24/2007	
Di-n-Butylphthalate	BQL	10.0	1.65	1	12/24/2007	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	12/24/2007	
2,4-Dichlorophenol	BQL	10.0	3.75	1	12/24/2007	
Diethylphthalate	BQL	10.0	1.48	1	12/24/2007	
Dimethylphthalate	BQL	10.0	1.04	1	12/24/2007	
2,4-Dimethylphenol	BQL	10.0	9.25	1	12/24/2007	
Di-n-octylphthalate	BQL	10.0	1.16	1	12/24/2007	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	12/24/2007	
2,4-Dinitrophenol	BQL	50.0	4.20	1	12/24/2007	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	12/24/2007	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	12/24/2007	
Diphenylamine *	BQL	10.0	1.53	1	12/24/2007	
Fluoranthene	BQL	10.0	1.41	1	12/24/2007	
Fluorene	BQL	10.0	1.22	1	12/24/2007	
Hexachlorobenzene	BQL	10.0	1.22	1	12/24/2007	
Hexachlorobutadiene	BQL	10.0	1.58	1	12/24/2007	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	12/24/2007	
Hexachloroethane	BQL	10.0	1.58	1	12/24/2007	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	12/24/2007	
Isophorone	BQL	10.0	1.27	1	12/24/2007	
Naphthalene	BQL	10.0	1.08	1	12/24/2007	
Nitrobenzene	BQL	10.0	1.32	1	12/24/2007	
2-Nitrophenol	BQL	10.0	3.52	1	12/24/2007	
4-Nitrophenol	BQL	50.0	3.17	1	12/24/2007	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	12/24/2007	
Pentachlorophenol	BQL	50.0	2.83	1	12/24/2007	
Phenanthrene	BQL	10.0	1.38	1	12/24/2007	

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTM232-236-MW01
Client Project ID: NV019
Lab Sample ID: G650-127-12H
Lab Project ID: G650-127

Analyzed By: DCS
Date Collected: 12/18/2007 15:37
Date Received: 12/20/2007
Date Extracted: 12/23/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Phenol	BQL	10.0	3.38	1	12/24/2007	
Pyrene	BQL	10.0	2.08	1	12/24/2007	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	12/24/2007	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	12/24/2007	

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	7.6	76
2-Fluorophenol	10	6.8	68
Nitrobenzene-d5	10	7.4	74
Phenol-d6	10	6.1	60
2,4,6-Tribromophenol	10	7.2	73
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: USTM232-236-MW01
Client Project ID: NV019
Lab Sample ID: G650-127-12H
Lab Project ID: G650-127
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: DES
Date Collected: 12/18/2007 15:37
Date Received: 12/20/2007
Date Extracted: 12/23/2007
Date Analyzed: 12/24/2007
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Unknown	7.13			10.7
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: PB10010
Lab Project ID:

Analyzed By: DCS
Date Collected:
Date Received:
Date Extracted: 12/23/2007
Matrix: WATER

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	12/24/2007	
Acenaphthylene	BQL	10.0	1.12	1	12/24/2007	
Anthracene	BQL	10.0	1.75	1	12/24/2007	
Benzo[a]anthracene	BQL	10.0	1.36	1	12/24/2007	
Benzo[a]pyrene	BQL	10.0	1.27	1	12/24/2007	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	12/24/2007	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	12/24/2007	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	12/24/2007	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	12/24/2007	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	12/24/2007	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	12/24/2007	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	12/24/2007	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	12/24/2007	
Butylbenzylphthalate	BQL	10.0	1.53	1	12/24/2007	
2-Chloronaphthalene	BQL	10.0	1.25	1	12/24/2007	
2-Chlorophenol	BQL	10.0	4.22	1	12/24/2007	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	12/24/2007	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	12/24/2007	
Chrysene	BQL	10.0	1.11	1	12/24/2007	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	12/24/2007	
Di-n-Butylphthalate	BQL	10.0	1.65	1	12/24/2007	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	12/24/2007	
2,4-Dichlorophenol	BQL	10.0	3.75	1	12/24/2007	
Diethylphthalate	BQL	10.0	1.48	1	12/24/2007	
Dimethylphthalate	BQL	10.0	1.04	1	12/24/2007	
2,4-Dimethylphenol	BQL	10.0	9.25	1	12/24/2007	
Di-n-octylphthalate	BQL	10.0	1.16	1	12/24/2007	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	12/24/2007	
2,4-Dinitrophenol	BQL	50.0	4.20	1	12/24/2007	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	12/24/2007	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	12/24/2007	
Diphenylamine *	BQL	10.0	1.53	1	12/24/2007	
Fluoranthene	BQL	10.0	1.41	1	12/24/2007	
Fluorene	BQL	10.0	1.22	1	12/24/2007	
Hexachlorobenzene	BQL	10.0	1.22	1	12/24/2007	
Hexachlorobutadiene	BQL	10.0	1.58	1	12/24/2007	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	12/24/2007	
Hexachloroethane	BQL	10.0	1.58	1	12/24/2007	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	12/24/2007	
Isophorone	BQL	10.0	1.27	1	12/24/2007	
Naphthalene	BQL	10.0	1.08	1	12/24/2007	
Nitrobenzene	BQL	10.0	1.32	1	12/24/2007	
2-Nitrophenol	BQL	10.0	3.52	1	12/24/2007	
4-Nitrophenol	BQL	50.0	3.17	1	12/24/2007	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	12/24/2007	
Pentachlorophenol	BQL	50.0	2.83	1	12/24/2007	
Phenanthrene	BQL	10.0	1.38	1	12/24/2007	

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID: PB10010
Lab Project ID:

Analyzed By: DCS
Date Collected:
Date Received:
Date Extracted: 12/23/2007
Matrix: WATER

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Phenol	BQL	10.0	3.38	1	12/24/2007	
Pyrene	BQL	10.0	2.08	1	12/24/2007	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	12/24/2007	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	12/24/2007	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	7.3	73		
2-Fluorophenol		10	6.5	65		
Nitrobenzene-d5		10	7	70		
Phenol-d6		10	5.9	59		
2,4,6-Tribromophenol		10	7.1	71		
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 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-10010-MS/MSD/LCS

Date Extracted: 12/23/07

Lab Project ID: G650-127-9H

Date Analyzed: 12/24/07

Matrix: WATER

Analyzed By: DES

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.	QC Limits		
								RPD	RPD	% Rec.
Acenaphthylene	BQL	238	193	80.9	238	197	82.7	2.20	30	62.0-119
4-Chloro-3-methylphenol	BQL	238	194	81.3	238	196	82.2	1.10	30	67.0-109
2-Chlorophenol	BQL	238	185	77.5	238	193	81.1	4.54	30	59.0-95.0
1,4-Dichlorobenzene	BQL	238	119	50.0	238	124	52.2	4.31	30	29.0-86.0
2,4-Dinitrotoluene	BQL	238	188	78.9	238	191	80.4	1.88	30	63.0-103
N-Nitrosodi-n-propylamine	BQL	238	191	80.4	238	197	82.7	2.82	30	67.0-107
4-Nitrophenol	BQL	238	178	74.6	238	183	76.9	3.04	30	49.0-146
Pentachlorophenol	BQL	238	173	72.6	238	178	74.9	3.12	30	43.0-106
Phenol	BQL	238	166	69.9	238	171	72.0	2.96	30	61.0-100
Pyrene	BQL	238	200	84.0	238	200	83.8	0.238	30	41.0-123
1,2,4-Trichlorobenzene	BQL	238	168	70.7	238	170	71.2	0.705	30	41.0-96.0

	Spiked Amount (µg/L)	LCS Conc. (µg/L)	LCS Spike %	QC Limits
				% Rec.
Acenaphthylene	100	87.2	87.2	52.1-145
4-Chloro-3-methylphenol	100	84.6	84.6	51.1-135
2-Chlorophenol	100	83.1	83.1	43.7-128
1,4-Dichlorobenzene	100	59.7	59.7	30.0-110
2,4-Dinitrotoluene	100	81.4	81.4	56.3-144
N-Nitrosodi-n-propylamine	100	83.6	83.6	55.9-143
4-Nitrophenol	100	65.9	65.9	47.8-148
Pentachlorophenol	100	66.6	66.6	43.9-118
Phenol	100	74.5	74.5	48.0-124
Pyrene	100	88.4	88.4	29.9-185
1,2,4-Trichlorobenzene	100	76.5	76.5	43.9-122

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: PB10014
Lab Project ID:

Analyzed By: DCS
Date Collected:
Date Received:
Date Extracted: 12/24/2007
Matrix: WATER

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	12/27/2007	
Acenaphthylene	BQL	10.0	1.12	1	12/27/2007	
Anthracene	BQL	10.0	1.75	1	12/27/2007	
Benzo[a]anthracene	BQL	10.0	1.36	1	12/27/2007	
Benzo[a]pyrene	BQL	10.0	1.27	1	12/27/2007	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	12/27/2007	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	12/27/2007	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	12/27/2007	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	12/27/2007	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	12/27/2007	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	12/27/2007	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	12/27/2007	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	12/27/2007	
Butylbenzylphthalate	BQL	10.0	1.53	1	12/27/2007	
2-Chloronaphthalene	BQL	10.0	1.25	1	12/27/2007	
2-Chlorophenol	BQL	10.0	4.22	1	12/27/2007	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	12/27/2007	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	12/27/2007	
Chrysene	BQL	10.0	1.11	1	12/27/2007	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	12/27/2007	
Di-n-Butylphthalate	BQL	10.0	1.65	1	12/27/2007	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	12/27/2007	
2,4-Dichlorophenol	BQL	10.0	3.75	1	12/27/2007	
Diethylphthalate	BQL	10.0	1.48	1	12/27/2007	
Dimethylphthalate	BQL	10.0	1.04	1	12/27/2007	
2,4-Dimethylphenol	BQL	10.0	9.25	1	12/27/2007	
Di-n-octylphthalate	BQL	10.0	1.16	1	12/27/2007	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	12/27/2007	
2,4-Dinitrophenol	BQL	50.0	4.20	1	12/27/2007	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	12/27/2007	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	12/27/2007	
Diphenylamine *	BQL	10.0	1.53	1	12/27/2007	
Fluoranthene	BQL	10.0	1.41	1	12/27/2007	
Fluorene	BQL	10.0	1.22	1	12/27/2007	
Hexachlorobenzene	BQL	10.0	1.22	1	12/27/2007	
Hexachlorobutadiene	BQL	10.0	1.58	1	12/27/2007	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	12/27/2007	
Hexachloroethane	BQL	10.0	1.58	1	12/27/2007	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	12/27/2007	
Isophorone	BQL	10.0	1.27	1	12/27/2007	
Naphthalene	BQL	10.0	1.08	1	12/27/2007	
Nitrobenzene	BQL	10.0	1.32	1	12/27/2007	
2-Nitrophenol	BQL	10.0	3.52	1	12/27/2007	
4-Nitrophenol	BQL	50.0	3.17	1	12/27/2007	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	12/27/2007	
Pentachlorophenol	BQL	50.0	2.83	1	12/27/2007	
Phenanthrene	BQL	10.0	1.38	1	12/27/2007	

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID: PB10014
Lab Project ID:

Analyzed By: DCS
Date Collected:
Date Received:
Date Extracted: 12/24/2007
Matrix: WATER

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Phenol	BQL	10.0	3.38	1	12/27/2007	
Pyrene	BQL	10.0	2.08	1	12/27/2007	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	12/27/2007	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	12/27/2007	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	8.5	85		
2-Fluorophenol		10	6.9	69		
Nitrobenzene-d5		10	8	80		
Phenol-d6		10	6.5	65		
2,4,6-Tribromophenol		10	7.3	73		
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 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-10014-MS/MSD/LCS

Lab Project ID: G128-2093-8E

Matrix: WATER

Prep Method: 3520

Date Collected:

Date Received:

Date Extracted: 12/24/07

Date Analyzed: 12/28/07

Analyzed By: DES

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.	QC Limits		
								RPD	RPD	% Rec.
Acenaphthylene	BQL	244	241	98.8	244	232	95.2	3.71	30	62.0-119
4-Chloro-3-methylphenol	BQL	244	242	99.4	244	238	97.7	1.73	30	67.0-109
2-Chlorophenol	BQL	244	240	98.5*	244	227	93.1	5.64	30	59.0-95.0
1,4-Dichlorobenzene	BQL	244	220	90.3*	244	153	62.6	36.2*	30	29.0-86.0
2,4-Dinitrotoluene	BQL	244	230	94.4	244	223	91.3	3.34	30	63.0-103
N-Nitrosodi-n-propylamine	BQL	244	241	98.8	244	235	96.4	2.46	30	67.0-107
4-Nitrophenol	BQL	244	237	97.2	244	225	92.1	5.39	30	49.0-146
Pentachlorophenol	BQL	244	228	93.4	244	228	93.6	0.214	30	43.0-106
Phenol	BQL	244	215	88.2	244	204	83.7	5.24	30	61.0-100
Pyrene	BQL	244	243	99.8	244	233	95.6	4.30	30	41.0-123
1,2,4-Trichlorobenzene	BQL	244	222	90.9	244	202	82.8	9.33	30	41.0-96.0

	Spiked Amount (µg/L)	LCS Conc. (µg/L)	LCS Spike %	QC Limits
				% Rec.
Acenaphthylene	100	98.8	98.8	52.1-145
4-Chloro-3-methylphenol	100	98.6	98.6	51.1-135
2-Chlorophenol	100	93.9	93.9	43.7-128
1,4-Dichlorobenzene	100	67.7	67.7	30.0-110
2,4-Dinitrotoluene	100	94.3	94.3	56.3-144
N-Nitrosodi-n-propylamine	100	98.1	98.1	55.9-143
4-Nitrophenol	100	89.3	89.3	47.8-148
Pentachlorophenol	100	79.9	79.9	43.9-118
Phenol	100	85.0	85.0	48.0-124
Pyrene	100	96.7	96.7	29.9-185
1,2,4-Trichlorobenzene	100	85.7	85.7	43.9-122

Comments:

Concentrations reflect the spiked sample amounts.

Flags:

* = Out of limits.

NA = Not applicable.

Reviewed By:



SGS

0794

1

CLIENT: Sovereign Consulting Inc.

CONTACT:

PHONE NO: (916) 358-0555

PROJECT: A1150

SITE/PWSID#: M232-236

REPORTS TO:

E-MAIL: cmurray@saicon.com

5:44 PM 7/1/2008

FAX NO.:(757)456-5095

QUOTE #

INVOICE TO: C. Murray
4425 Oak Meers Crescent Suite 1
NVA Beach VA 23802

2

P.O. NUMBER *1109*

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX
	U5TM232-236-MW16	12/18/07	1040	GLW
	U5TM232-236-MW109	12/18/07	1050	GLW
	U5TM232-236-FRIP BLANK	12/18/07	1100	TB
	U5TM232-236-MW03	12/18/07	1133	GLW
	U5TM232-236-MW108	12/18/07	1202	GLW
	U5TM232-236-MW18	12/18/07	1220	GLW
	U5TM232-236-MW20	12/18/07	1400	GLW
	U5TM232-236-MW05	12/18/07	1409	GLW
	U5TM232-236-MW21	12/18/07	1448	GLW
	U5TM232-236-Duplicate	12/18/07		GLW

Collected/Relinquished By: (1)	Date	Time	Received By:	Date	Time	Shipping Carrier:	Samples Received Cold? (Circle) YES NO
<i>[Signature]</i>	12/20/07	1100	<i>[Signature]</i>	12/20/07	1100	Shipping Ticket No:	Temperature (C): <u>on ice 3.8°C</u>
Relinquished By: (2)	Date	Time	Received By:	Date	Time	Special Deliverable Requirements:	Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT
						500 Format	
Relinquished By: (3)	Date	Time	Received By:	Date	Time	Special Instructions:	
						Email results "EOD Format" to: cmurphy@son.com / awehr@son.com	
Relinquished By: (4)	Date	Time	Received By:	Date	Time	Requested Turnaround Time:	
						☐ RUSH ☒ STD	Date Needed: <u>1/5</u>

☐ 200 W. Potter Drive Anchorage, AK 99518 Tel: (907) 562-2343 Fax: (907) 561-5301
☐ 5500 Business Drive Wilmington, NC 28405 Tel: (910) 350-1903 Fax: (910) 350-1557

□ 1270 Greenbrier Street Charleston, WV 25311 Tel: (304) 346-0725 Fax: (304) 346-0761

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

APPENDIX C

FIELD DATA



www.us.sgs.com

☐ 200 W. Peltier Drive Anchorage, AK 99518 Tel: (907) 562-2343 Fax: (907) 561-5501
☐ 5500 Business Drive Wilmington, NC 28405 Tel: (910) 350-1903 Fax: (910) 350-1557

☐ 1270 Greenbrier Street Charleston, WV 26311 Tel: (304) 346-0725 Fax: (304) 346-0761

Write - Retained by Lab
 Yellow - Returned with Repou
 Pink - Retained by Sample

[illegible]

GROUNDWATER MONITORING WELL GAUGING DATA

Date: 18 DEC 2007
 SITE: M232-236
 MCB Camp Lejeune and New River MCAS
 Gauged By: AMER/K. Riggs.

WELL NUMBER	DEPTH TO BOTTOM MEASURED FROM TOC		TIME OF GAUGING	DEPTH TO WATER FROM TOP OF CASING	DEPTH TO LNAPL FROM TOP OF CASING	LNAPL THICKNESS	COMMENTS
	Installed	Measured					
U51232-236-MW14		17.50	0745	14.16			
MW13		32.50	0750	14.38			
MW15		16.76	0756	13.50			
MW17		17.00	0800	10.82			
MW10		17.20	0804	12.79			
MW09		32.5	0809	13.26			
MW16		15.16	0815	13.75			
MW08		32.38	0820	15.11			
MW04		17.50	0824	14.95			
MW23		14.20	0830	7.57			strong odor / slight stream
MW19		14.76	0837	9.95			
MW07		17.50	0841	10.07			
MW08		32.50	0845	11.14			
MW12		32.00	0851	9.90			
MW11		17.00	0855	8.31			
MW05		32.00	0900	11.16			
MW06		17.20	0904	10.82			
MW20		14.70	0909	9.85			
MW21		14.50	0913	9.87			
MW22		14.50	0918	9.88			
MW01		17.50	0932	12.35			
MW02		32.50	0936	12.50			

Project Number: NVO19
Project Name: W232-236
Date: 12/18/07
Weather: clear 40s

Well ID: USTM232-236-MW01
Sample ID: USTM232-236-MW01
Well Condition: good

Protective Casing Diameter (inch): 4"

Inner Casing Diameter (inch): 2" (0.163)

Depth to Product from TOC (feet): —

Initial Depth to Water from TOC (feet): 12.53

Product Thickness (feet): —

Total Depth from TOC (feet): 17.50

Water Column (feet): 4.97
Casing Volume (gal): 0.810
Purge/Sample Method: Low Flow Method
Start Purge Date/Time: 12/18/02 1522
Total Volume Purged (gal): 2.0
Sample Time/Date: 12/18/02 1537
Sampler Name: AW/KR

[illegible]

Project Number	NV019	Well ID	USTM232-236-MW03
Project Name	M232-236	Sample ID	USTM232-236-MW03
Date	2/18/07	Well Condition	good
Weather	clear; 30s		

Protective Casing Diameter (inch):	4" Stand	Water Column (feet):	17.27
Inner Casing Diameter (inch):	2" (0.163)	Casing Volume (gal):	2.815
Depth to Product from TOC (feet):	-	Purge/Sample Method:	Low Flow Method
Initial Depth to Water from TOC (feet):	15.11	Start Purge Date/Time:	12/18/07 1102
Product Thickness (feet):	-	Total Volume Purged (gal):	3.25
Total Depth from TOC (feet):	32.38	Sample Time/Date:	12/18/07 1133
		Sampler Name:	AW/KR

[illegible]

* Collect USTM 232-236 - DUPLICATE

[illegible]

212107

[illegible]

nwo/

Observations During Sampling (e.g. slow recharge, turbidity, odor, sheen, PID/FID readings, or change in pump interval setting):

No odor

Analysis	Method
Volatile Organics	
EDB	
BNs/PAHs	
Total Metals	
Dissolved Metals	

Stabilization Ranges

Dissolved Oxygen: no greater than 20% of saturation the the field temp

Turbidity: no greater than 20 NTUs

Specific Conductance: +/- 5% of reading

Temperature: +/-2

pH: +/- 0.2 Standard Units

Project Number: NV019
Project Name: M232
Date: 6/21/07
Weather: Sunny & 95°

Well ID: MW009
Sample ID: USTM232-236-MW009
Well Condition: old rusted - well off

Protective Casing Diameter (inch): 4 1/2

Inner Casing Diameter (inch): 2 1/2

Depth to Product from TOC (feet): NP

Initial Depth to Water from TOC (feet): 13.29

Product Thickness (feet): NP

Total Depth from TOC (feet): 32.0

Water Column (feet): 19.71
Casing Volume (gal): 3.2
Purge/Sample Method: Low Flow Method
Start Purge Date/Time: 6/21/07 1010
Total Volume Purged (gal): 4.5
Sample Time/Date: 6/21/07 1100
Sampler Name: K. Rogers

Initial flow 500 ml/min DTW: 12.51' btoC
Duplicate collected - WSTN232-234-Duplicate

mw09

Observations During Sampling (e.g. slow recharge, turbidity, odor, sheen, PID/FID readings, or change in pump interval setting):

no odor

Analysis	Method
Volatile Organics	
EDB	
BNs/PAHs	
Total Metals	
Dissolved Metals	

Stabilization Ranges

Dissolved Oxygen: no greater than 20% of saturation the the field temp
Turbidity: no greater than 20 NTUs
Specific Conductance: +/- 5% of reading
Temperature: +/-2
pH: +/- 0.2 Standard Units

PURGING AND BAILING GROUNDWATER SAMPLING FORM
MCB Camp LeJeune and New River MCAS

Project Number:

Project Name:

Date:

Weather:

NV019

Well ID:

Sample ID:

Well Condition:

ALL DEPTHS ARE TO BE COLLECTED FROM THE TOP OF THE CASING.

Protective Casing Diameter (inch):

Inner Casing Diameter (inch):

Depth to Product from TOC (feet):

Initial Depth to Water from TOC (feet):

Product Thickness (feet):

Total Depth from TOC (feet):

Water Column (feet):

Casing Volume (gal):

Purge/Sample Method:

Start Purge Date/Time:

Total Volume Purged (gal):

Sample Time/Date

Sampler Name:

3.85

1.75

Low Flow Method

6/2/07 1130

6/21/07 12:15

L. Rogers

[illegible]

MWIS

Observations During Sampling (e.g. slow recharge, turbidity, odor, sheen, PID/FID readings, or change in pump interval setting):

no odor

Analysis	Method
Volatile Organics	
EDB	
BNS/PAHs	
Total Metals	
Dissolved Metals	

Stabilization Ranges

- Dissolved Oxygen: no greater than 20% of saturation the the field temp
- Turbidity: no greater than 20 NTUs
- Specific Conductance: +/- 5% of reading
- Temperature: +/-2
- pH: +/- 0.2 Standard Units

PURGING AND BAILING GROUNDWATER SAMPLING FORM
MCB Camp LeJeune and New River MCAS

Project Number:

Project Name:

Date:

Weather:

NV019

Well ID:

Sample ID:

Well Condition:

mw08

USTM 232-236 - MLOO 8

old - rusted

ALL DEPTHS ARE TO BE COLLECTED FROM THE TOP OF THE CASING.

Protective Casing Diameter (inch):

Inner Casing Diameter (inch):

Depth to Product from TOC (feet):

Initial Depth to Water from TOC (feet):

Product Thickness (feet):

Total Depth from TOC (feet):

Water Column (feet):

Casing Volume (gal):

Purge/Sample Method:

Start Purge Date/Time:

Total Volume Purged (gal):

Sample Time/Date

Sampler Name:

20.51

339

Low Flow Method

Q 124107 1426

426

12107 1510

L. Riggs

[illegible]

Initial flow = 500 ml/min DTW! 11.04' stop

11/1/18

Observations During Sampling (e.g. slow recharge, turbidity, odor, sheen, PID/FID readings, or change in pump interval setting):

slight hydrocarbon odor

Analysis	Method
Volatile Organics	
EDB	
BNs/PAHs	
Total Metals	
Dissolved Metals	

Stabilization Ranges

Dissolved Oxygen: no greater than 20% of saturation the the field temp

Turbidity: no greater than 20 NTUs

Specific Conductance: +/- 5% of reading

Temperature: +/-2

pH: +/- 0.2 Standard Units

Observations During Sampling (e.g. slow recharge, turbidity, odor, sheen, PID/FID readings, or change in pump interval setting):

Clear - no odor

MW05

Analysis	Method
Volatile Organics	
EDB	
BNs/PAHs	
Total Metals	
Dissolved Metals	

Stabilization Ranges

Dissolved Oxygen: no greater than 20% of saturation the the field temp

Turbidity: no greater than 20 NTUs

Specific Conductance: +/- 5% of reading

Temperature: +/-2

pH: +/- 0.2 Standard Units

GROUNDWATER SAMPLING DATA SHEET

Client: Sovereign
Location: A232
Event: NV019
Date: 6/22/07
Weather: Sunny 85°

Project Number: NV019
Well ID: MW22
Sample ID: USTM232-236-MW22
Sampling Team: K. Rags

Total Depth: 14.60 FT.(BTOT)
Depth to water: (H) 9.08 FT.(BTOT)
Water Column: 5.52 FT.
(X) 0.41 GAL/FT. *no product*
Well Volume: 2.23 GAL
Total Purge Vol.: 2.10 GAL

Measuring Device: Horiba U-22
Date and Time: 6/22/07

Purge Device: Penslabs Pump

Well Dia. (inches)	Volume (gallons/foot)
1	0.041
1.25	0.064
2	0.163
4	0.653
6	1.469

SAMPLE DATA								
Date:	Temp.	Cond.	DO	pH	ORP	Turbidity	Other:	Color / Odor / Comments
<u>6/22/07</u>	<u>°C</u>	<u>mS/cm</u>	<u>mg/L</u>	<u>SU</u>	<u>mV</u>	<u>NTU</u>		
Time: <u>0855</u>								
Method: <u>low flow</u>	<u>20.34</u>	<u>260</u>	<u>0.92</u>	<u>6.08</u>	<u>-11</u>	<u>3.14</u>		<u>clear</u>

FIELD PARAMETERS								
Time	Purge Vol. (gals)	Temp. °C	Cond. mS/cm	DO mg/L	pH SU	ORP mV	Turbidity NTU	Other: _____ Color / Odor / Comments
<u>0835</u>	<u>1.0</u>	<u>20.27</u>	<u>214</u>	<u>0.95</u>	<u>6.25</u>	<u>-30</u>	<u>2.70</u>	
<u>0838</u>	<u>-</u>	<u>20.29</u>	<u>205</u>	<u>0.90</u>	<u>6.20</u>	<u>-24</u>	<u>4.20</u>	<u>no odor</u>
<u>0841</u>	<u>-</u>	<u>20.27</u>	<u>202</u>	<u>0.91</u>	<u>6.17</u>	<u>-20</u>	<u>4.60</u>	<u>clear</u>
<u>0844</u>	<u>-</u>	<u>20.29</u>	<u>214</u>	<u>0.92</u>	<u>6.14</u>	<u>-17</u>	<u>4.71</u>	
<u>0847</u>	<u>-</u>	<u>20.32</u>	<u>240</u>	<u>0.92</u>	<u>6.12</u>	<u>-14</u>	<u>3.20</u>	
<u>0850</u>	<u>2.0</u>	<u>20.31</u>	<u>251</u>	<u>0.91</u>	<u>6.10</u>	<u>-12</u>	<u>3.18</u>	
<u>0853</u>	<u>-</u>	<u>20.33</u>	<u>258</u>	<u>0.94</u>	<u>6.09</u>	<u>-11</u>	<u>2.72</u>	<u>clear</u>

Sample information: method, container number, size, and type, preservative used.

Analysis	Preservative	Container requirements	No. of containers
<u>6202</u>	<u>HCL</u>	<u>40ml VOA</u>	<u>3</u>
<u>VPIH</u>	<u>HCL</u>	<u>40ml VOA</u>	<u>2</u>
<u>EPH</u>	<u>HCL</u>	<u>Amber filter</u>	<u>1</u>
<u>625</u>	<u>none</u>	<u>Amber filter</u>	<u>1</u>

Observations/Notes:

0825 - Initial flow 400ml/min

MS/MSD

Duplicate ID No.:

Signature(s):

GROUNDWATER SAMPLING DATA SHEET

Client: Sovereign
Location: M232
Event: NVO 19
Date: 6/22/07
Weather: Sunny & 85°

Project Number: NVO 19
Well ID: MW21
Sample ID: UST M232-236-MW21
Sampling Team: R. J. J. J.

Total Depth: 14.80 FT.(BTOC)
Depth to water: (-) 8.98 FT.(BTOC)
Water Column: 5.82 FT.
(x) 0.91 GAL/FT.
Well Volume: .23 GAL.
Total Purge Vol.: 2.0 GAL.

Measuring Device: Horiba U-22
Date and Time: 6/22/07

Purge Device: Peristaltic pump

Well Dia. (inches)	Volume (gallons/foot)
1	0.041
1.25	0.064
2	0.163
4	0.653
6	1.469

SAMPLE DATA

Date:	Temp.	Cond.	DO	pH	ORP	Turbidity	Other:	Color / Odor / Comments
<u>6/22/07</u>	°C	mS/cm	mg/L	SU	mV	NTU		
Time: <u>0930</u>								
Method: <u>Low Flow</u>	<u>26.2</u>	<u>1090</u>	<u>5.87</u>	<u>5.26</u>	<u>-3</u>	<u>2.71</u>		<u>clear</u>

FIELD PARAMETERS

Time	Purge Vol. (gals)	Temp. °C	Cond. mS/cm	DO mg/L	pH SU	ORP mV	Turbidity NTU	Other:	Color / Odor / Comments
<u>0918</u>	<u>1.20</u>	<u>22.32</u>	<u>1096</u>	<u>6.35</u>	<u>5.76</u>	<u>-23</u>	<u>2.86</u>		<u>clear</u>
<u>0921</u>	<u>-</u>	<u>21.82</u>	<u>1092</u>	<u>5.96</u>	<u>5.31</u>	<u>-3</u>	<u>1.88</u>		
<u>0924</u>	<u>-</u>	<u>21.71</u>	<u>1089</u>	<u>5.89</u>	<u>5.27</u>	<u>-2</u>	<u>1.60</u>		
<u>0927</u>	<u>2.0</u>	<u>21.65</u>	<u>1090</u>	<u>5.91</u>	<u>5.26</u>	<u>-2</u>	<u>1.82</u>		<u>clear</u>

Sample information: method, container number, size, and type, preservative used.

Analysis	Preservative	Container requirements	No. of containers
<u>CO2</u>	<u>HCl</u>	<u>40 ml VOA</u>	<u>3</u>
<u>VPA</u>	<u>HCl</u>	<u>40 ml VOA</u>	<u>2</u>
<u>EPA</u>	<u>HCl</u>	<u>1 liter Amber</u>	<u>1</u>
<u>625</u>	<u>none</u>	<u>1 liter Amber</u>	<u>1</u>
		<u>1 liter Amber</u>	<u>*</u>

Observations/Notes:

0902 - Initial flow = 400 ml/min

MS/MSD

Duplicate ID No.:

Signature(s):

[Signature]

Observations During Sampling (e.g. slow recharge, turbidity, odor, sheen, PID/FID readings, or change in pump interval setting):

11/03

no odor - water is light yellow/Amber

Analysis	Method
Volatile Organics	
EDB	
BNs/PAHs	
Total Metals	
Dissolved Metals	

Stabilization Ranges

Dissolved Oxygen: no greater than 20% of saturation the the field temp

Turbidity: no greater than 20 NTUs

Specific Conductance: +/- 5% of reading

Temperature: +/-2

pH: +/- 0.2 Standard Units

Project Number: NV019
Project Name: M232
Date: 6/21/07
Weather: Sunny & 85°

Well ID: MW20
Sample ID: USTM232-236-MW20
Well Condition: good

Protective Casing Diameter (inch): 8 1/2

Inner Casing Diameter (inch): 1 1/2

Depth to Product from TOC (feet): NP

Initial Depth to Water from TOC (feet): 8.74

Product Thickness (feet): NP

Total Depth from TOC (feet): 14.89

Water Column (feet): 6.15
Casing Volume (gal): 2.5
Purge/Sample Method: Low Flow Method
Start Purge Date/Time: 6/21/07 1600
Total Volume Purged (gal): 2.10
Sample Time/Date: 6/21/07 1630
Sampler Name: R Riggs

[illegible]

Observations During Sampling (e.g. slow recharge, turbidity, odor, sheen, PID/FID readings, or change in pump interval setting):

na20

sligh hydrocarbon odor

Analysis	Method
Volatile Organics	
EDB	
BNs/PAHs	
Total Metals	
Dissolved Metals	

Stabilization Ranges

Dissolved Oxygen: no greater than 20% of saturation the the field temp

Turbidity: no greater than 20 NTUs

Specific Conductance: +/- 5% of reading

Temperature: +/-2

pH: +/- 0.2 Standard Units

new 08

Observations During Sampling (e.g. slow recharge, turbidity, odor, sheen, PID/FID readings, or change in pump interval setting):

no odor

Analysis	Method
Volatile Organics	
EDB	
BNs/PAHs	
Total Metals	
Dissolved Metals	

Stabilization Ranges

Dissolved Oxygen: no greater than 20% of saturation the the field temp

Turbidity: no greater than 20 NTUs

Specific Conductance: +/- 5% of reading

Temperature: +/-2

pH: +/- 0.2 Standard Units

Project Number: NV019

Project Name: A232

Date: 4/21/07

Weather: Sunny - 85°

Well ID: MW05
Sample ID: USTM232-236-MW05
Well Condition: OK

Protective Casing Diameter (inch): 4"

Inner Casing Diameter (inch): 2"

Depth to Product from TOC (feet): N/P

Initial Depth to Water from TOC (feet): 10.69

Product Thickness (feet): N/P

Total Depth from TOC (feet): 29.80

Water Column (feet): 19.11
Casing Volume (gal): 3.11
Purge/Sample Method: Low Flow Method
Start Purge Date/Time: 6/21/07 1545
Total Volume Purged (gal): 5.0
Sample Time/Date: 6/21/07 1635
Sampler Name: K. R. 995

[illegible]

Initial Flow rate = 400 ml/min DTW: 11.51

Initial flow = 400 ml/min



CHAIN OF CUSTODY RECORD
SGS Environmental Services Inc.

- Locations Nationwide
- Alaska
 - Ohio
 - New Jersey
 - West Virginia
 - Hawaii
 - Maryland
 - North Carolina

www.us.sgs.com

074032

SGS Reference:

PAGE 1 OF 2

1 CLIENT: Government Consulting Inc.
CONTACT: Kurt Melik PHONE NO: (910) 358-0555
PROJECT: MB19 SITE/PWSID#: MB32-236
REPORTS TO: Curran@seacon.com E-MAIL: Curran@seacon.com
Quart@seacon.com FAX NO: (352) 451-5095
INVOICE TO: QUOTE #

2 For Contract P.O. NUMBER NV019

LAB NO. SAMPLE IDENTIFICATION DATE TIME MATRIX

No	SAMPLE TYPE	Preservative Used	Analysis Required	C= COMP	G= GRAB	C O N T A I N E R S	REMARKS
1						2	TR
2						7	CW
3						7	CW
4						7	CW
5						7	CW
6						7	CW
7						7	CW
8						7	CW
9						7	CW
10						7	CW
11						7	CW
12						7	CW
13						7	CW
14						7	CW
15						7	CW
16						7	CW
17						7	CW
18						7	CW
19						7	CW
20						7	CW
21						7	CW
22						7	CW
23						7	CW
24						7	CW
25						7	CW
26						7	CW
27						7	CW
28						7	CW
29						7	CW
30						7	CW
31						7	CW
32						7	CW
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34						7	CW
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39						7	CW
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87						7	CW
88						7	CW
89						7	CW
90						7	CW
91						7	CW
92						7	CW
93						7	CW
94						7	CW
95						7	CW
96						7	CW
97						7	CW
98						7	CW
99						7	CW
100						7	CW

3 Collected/Relinquished By: (1)

4

Relinquished By: (2)

Relinquished By: (3)

Relinquished By: (4)

Shipping Carrier:

Shipping Ticket No:

Samples Received Cold? (Circle) YES NO

Special Deliverable Requirements:

Chain of Custody Seal: (Circle)

Special Instructions:

INTACT

BROKEN

ABSENT

Requested Turnaround time:

☐ RUSH

Date Needed

☐ STD

200 W. Potter Drive Atherage, AK 99518 Tel: (907) 562-2343 Fax: (907) 561-5301
5500 Business Drive Wilmington, NC 28405 Tel: (910) 350-1903 Fax: (910) 350-1557
200 W. Potter Drive Wilmington, NC 28405 Tel: (910) 350-1903 Fax: (910) 350-1557

1270 Greenbrier Street Charleston, WV 25311 Tel: (304) 346-0725 Fax: (304) 346-0761

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



Locations Nationwide

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

Appendix 1

CLIENT: <u>Southern Consulting Inc.</u> CONTACT: <u>Paul M. Kile</u> PHONE NO: <u>(916) 358-0555</u> PROJECT: <u>MUN 19</u> SITE/PWSIC#: <u>M133-231</u> REPORTS TO: <u>C. Murray@SOUCONS.COM</u> E-MAIL: INVOICE TO: <u>AUSA, 550 CON C ORS</u> FAX NO: <u>(916) 546-5095</u> QUOTE # P.O. NUMBER <u>MUN 19</u>			
LAB NO. SAMPLE IDENTIFICATION DATE TIME MATRIX			
<u>1A57 M133-231-21002</u> <u>11/22/07</u> <u>0855</u> <u>AW</u> <u>1A57 M133-231-21002</u> <u>11/22/07</u> <u>0930</u> <u>AW</u>			
REMARKS			
SGS Reference:			
CONTAINER NO SAMPLE TYPE Preservatives Used Analysis Required			
<u>3</u> <u>GE</u> <u>COMP</u> <u>GRAS</u>			
<u>100 W/4/10/05</u> <u>1675 11/01/05</u> <u>MADER VPH</u> <u>EPH</u>			
REMARKS			
Shipping Carrier: Shipping Ticket No: Samples Received Cold? (Circle) YES NO Special Deliverable Requirements: Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT Special Instructions: Temperature (C): <u>5.8°C</u>			
Requested Turnaround Time: Date Needed			
☐ RUSH ☐ STD			

□ 200 W. Potter Drive
 5500 Business Drive
 Wilmington, NC 28405
 Tel: (919) 350-1903 Fax: (919) 350-1557
 Anchorage, AK 99518
 Tel: (907) 562-2343 Fax: (907) 561-5301

1270 Greenbrier Street Charleston, WV 25314 Tel: (304) 346-0725 Fax: (304) 346-0761

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



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079279

1

CLIENT: Seaton Construction Inc
CONTACT: Kurt Meltz PHONE NO: (410) 3580555
PROJECT: NV018 SITE/PWSID#: RL- M237-6
REPORTS TO: Seaton Construction Inc E-MAIL: seaton@seatoninc.com
VA Beach VA 2 FAX NO:
INVOICE TO: Seaton QUOTE # NV018

2

LAB NO. SAMPLE IDENTIFICATION DATE TIME MATRIX

No CONTAINERS

3

GRO
DRO
S-1-H

REMARKS

UST M233TB-SB01 8/22/07 0445 S-1

2

X X X

UST M233TB-SB02 0445

1

X X X

UST M233TB-SB03 0445

1

X X X

UST M233TB-SB04 0445

1

X X X

UST M233TB-SB05 1010

1

X X X

TRTP Blank

1

X

Collected/Relinquished By: (1) Seaton Date 8/22/07 Time 12:30 Received By: Meltz Date 8/24/07 Time 12:30

4

Shipping Carrier: Seaton

Shipping Ticket No:

Special Instructions: Seaton

Special Deliverable Requirements:

Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT

Relinquished By: (2) Seaton Date 8/22/07 Time 12:30 Received By: Meltz Date 8/24/07 Time 12:30

Relinquished By: (3) Seaton Date 8/22/07 Time 12:30 Received By: Meltz Date 8/24/07 Time 12:30

Relinquished By: (4) Seaton Date 8/22/07 Time 12:30 Received By: Meltz Date 8/24/07 Time 12:30

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CHAIN OF CUSTODY RECORD
SGS Environmental Services Inc.

Locations Nationwide
• Alaska • Hawaii
• Ohio • Maryland
• New Jersey • North Carolina
• West Virginia
www.sgs.com

078599

SGS Reference:

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1
CLIENT: Source on Consulting Inc.
CONTACT: Kurt J. M. H. PHONE NO: (910) 3580555
PROJECT: NC018 SITE/PWID: RL0 MD33-6
REPORTS TO: C. Murray EMAIL: Cmurray@sourceon.com
125 Calhoun Crescent Suite 100
VA Beach, VA 2 FAX NO: ()
INVOICE TO: Alm. A. H. H. QUOTE #
P.O. NUMBER NC018

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX	No	CONTAINERS	SAMPLE TYPE	Preservatives Used	Analysis Required	REMARKS
	USTM334TB-SPO1	8/21/07	1457	Soil	2	G	X	X	X	GRO DRO % Solids G25 w/24hr G25 + 10% VPH-EPH
	USTM334TB-SPO2		1530		2	G	X	X	X	
	USTM334TB-SPO3		1550		2	G	X	X	X	
	USTM334TB-SPO4		1610		2	G	X	X	X	
	USTM334TB-SPO5		1640		2	G	X	X	X	
	USTM336TB-SPO1	8/21/07	1435	GW	7	G	X	X	X	
	USTM334TB-TPO1		1325							
	USTM334TB-TPO1		1320							
	USTM334TB-TPO1									
	TR013/014			GW	2	G	X	X	X	

5
Collected/Relinquished By: (1) Mark H. H. Date: 8/21/07 Time: 1435 Received By: Mark H. H. Date: 8/21/07 Time: 1435

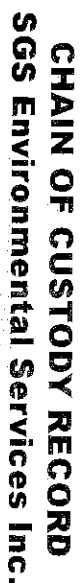
Relinquished By: (2) _____ Date: _____ Time: _____ Received By: _____ Date: _____ Time: _____

Relinquished By: (3) _____ Date: _____ Time: _____ Received By: _____ Date: _____ Time: _____

Relinquished By: (4) _____ Date: _____ Time: _____ Received By: _____ Date: _____ Time: _____

Shipping Carrier: _____ Shipping Ticket No: _____
Special Instructions: EBD Format
Special Deliverable Requirements: _____
Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT
Requested Turnaround Time: _____
☐ RUSH ☐ STD
Date Needed: _____

6
Samples Received Cold? (Circle) YES NO
Temperature (C): 41 F: 1



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White - Retained by Lab