FINAL
ANNUAL GROUNDWATER MONITORING REPORT 2005-2006
BUILDING 45

NCDENR Incident Number: 22890
Marine Corps Base
Camp Lejeune, North Carolina

June 19, 2006

Prepared for:



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LIST OF ACRONYMS

2000 Guidelines	Groundwater Section Guidelines for Investigation and Remediation of Soil and Groundwater
2001 Guidelines	Guidelines for Assessment and Corrective Action, North Carolina 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
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

The Building 45 site is located approximately one-half mile northwest of the main gate of Marine Corps Base (MCB) Camp Lejeune, North Carolina. The site is adjacent to and south of North Carolina Highway 24. It is an underground storage tank (UST) remediation site, as well as part of the Camp Lejeune Installation Restoration (IR) program Site 84, which is being addressed under Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). Building 45 was originally an electric substation that was converted to a heavy equipment and maintenance shop in 1965. The building was demolished in 1999. Previous investigations show it can be classified as an intermediate risk with industrial/commercial land use.

Several petroleum USTs were used at the site and served as the sources for the site's petroleum contamination. UST S-941-1 was a 6,000-gallon steel tank used for diesel and UST S-941-2 was a 550-gallon steel tank used for gasoline. These two tanks are the main source of petroleum contamination and were located near the front of the site, northeast of former Building 45. Two other USTs were located at the site, as well. A 1,000-gallon used-oil UST (UST-45-1) was removed from the site near the rear of the building, and the fourth tank, a 500-gallon heating oil UST, was located at the northwest corner of former Building 45. It was removed by J.A. Jones Environmental Services Inc. (J.A. Jones) in 1999.

Site assessments conducted of the gasoline, diesel, and used oil tank areas in the early 1990s identified soil and groundwater contamination at the site. These assessments were used to formulate a CAP in 1996. The CAP, developed by LAW, recommended an air sparge/soil vapor extraction system for soil and groundwater remediation. The system was installed by J.A. Jones and began operation in April 1998.

Monitoring and maintenance of the groundwater treatment system at the Bldg 45 site has continued from installation in 1998 to the present. The current monitoring program was initiated in September 2005 and continued through May 2006. Field activities included system inspections, monitoring, and maintenance of the system. Twenty site monitoring wells were also gauged monthly and sampled for petroleum contamination. Sampling events occurred in January and April 2006.

Free product was not present in any site well during the monitoring period and has not been observed at the site since 2001. Only benzene was detected in groundwater at the site in monitoring well MW-09, a deep well near former USTs 941-1 and 941-2, above groundwater standards. No semi-volatile compounds were detected at any site well during the current monitoring program. Lead was also not detected. The site was previously ranked as low risk. Based upon low contaminant levels which are outside the influence of the current remediation system, the system should be deactivated. Sovereign recommends that current program wells be gauged and sampled for the same constituents during the next monitoring period. Data should be reported in a Groundwater Monitoring Report.

Historical investigations indicate that soil sampling will be done in 2006 using Risk Based Corrective Action (RBCA) analyses. If free product does not re-occur, soil contaminant levels are below the applicable I/C MSCCs, and groundwater contaminants remain below GCLs, then

the site would qualify for No Further Action with Land Use Restrictions. Additional corrective action, however, would be required if free product returns, soils are above MSCC levels, or groundwater contaminant levels rebound.

1.0 TITLE PAGE

DATE OF REPORT: June 19, 2006
Facility I.D.: N/A UST Incident Number: 22890
Site Name: Building 45
Site Location: Marine Corps Base Camp Lejeune, North Carolina
Nearest City/Town: Camp Lejeune County: Onslow
Risk Classification: Intermediate Risk Land Use Classification: Industrial/Commercial

UST Owner: Commanding Officer – MCB Camp Lejeune
I&E/EMD/EQB
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: MCB Camp Lejeune, NC Phone: None

Consultant/Contractor: Sovereign Consulting Inc.
Address: 405 Oakmears Crescent, Suite 1
Virginia Beach, VA 23462 Phone: (757) 456-5093

Release Information

Date Discovered: October 23, 1992
Latitude: 34° 43' 53.04" N **Longitude:** 77° 21' 5.04" W
Estimated Quantity of Release: Unknown
Cause of Release: Leaking underground storage tank system
Source of Release (Piping/UST): UST and piping
Sizes and contents of UST system(s) from which the release occurred: The former system consisted of two tanks and associated piping. UST S-941-1 was a 6,000-gallon diesel steel tank and UST S-941-2 was a 550-gallon gasoline steel tank.

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



2.0 INTRODUCTION

The purpose of this report is to summarize data from recent groundwater gauging and sampling events at the Building 45 site aboard MCB Camp Lejeune, North Carolina. This data was collected from September 2005 through May 2006. The project's scope of work entailed monthly gauging of 20 site monitoring wells (each are proceeded with the prefix UST45/S941) – MW01/45, MW04/45, PW01R, MW02R, MW03R, MW04-MW09, MW12-MW-15, and MW17-MW21. Groundwater samples from the wells were also collected twice during the monitoring period as dictated by the scope of work – once in October/November and again in April. Analyses run included EPA Methods 602 + Xylenes, 625 + 10 largest non-target peaks, and Method 3030C. Results of Sovereign's 2005-2006 gauging and sampling events are presented in this report.

3.0 SITE HISTORY

Building 45 is located aboard MCB Camp Lejeune adjacent to and south of North Carolina Highway 24. The site is approximately one-half mile northwest of Camp Lejeune's main gate. Building 45 was originally an electric substation that was converted to a heavy equipment and maintenance shop in 1965. The building was demolished in 1999 and the foundation was removed separately in 2002.

Currently, the project site consists of the former Buildings 45 and 780, a former fueling area, and an active air sparge/soil vapor extraction remediation system. Groundwater monitoring wells are scattered over the site. As well as being a UST remediation site, Building 45 area is also a Installation Restoration (IR) site under the CERCLA program. The UST program is addressing petroleum groundwater contamination at the site, while the IR program addresses primarily non-petroleum soil contaminants. In this case, PCBs at a depth of 0-ft to 2-ft are the CERCLA contaminant of concern.

Two USTs and their associated piping were installed at the site in 1941: UST S-941-1 was a 6,000-gallon steel tank used for diesel and UST S-941-2 was a 550-gallon steel tank used for gasoline. In 1990, UST S-941-2 failed leak detection tests. Follow on soil and groundwater testing in 1991 showed the presence of petroleum constituents in site soil and groundwater. As a result, the two USTs and their associated piping were closed by removal in 1992.

In addition to the diesel and gasoline tanks, two other USTs were located at the Building 45 site. In 1993, a 1,000-gallon used-oil UST (UST-45-1) was removed from the site near the rear of the building. During the removal, surrounding soils appeared to be affected by petroleum products, so approximately 82 tons of soil were excavated and subsequently disposed of off site. Another UST, located at the northwest corner of former Building 45, was removed by J.A. Jones in 1999. It was a 500-gallon heating oil UST.

Site assessments conducted of the gasoline, diesel, and used oil tank areas in the early 1990s identified soil and groundwater contamination at the site. These assessments were used to formulate a CAP in 1996. The CAP, developed by LAW, recommended an air sparge/soil vapor extraction system for soil and groundwater remediation. The system was installed by J.A. Jones

and began operation in April 1998. Free product recovery was not addressed in the CAP as previous recovery efforts were deemed sufficient. Several Aggressive Fluid/Vapor Recovery (AFVR) events conducted between April 1999 and December 2001, however, recovered 426 gallons of free-phase product. The AFVR events were conducted at former wells MW-2, MW-3, and PW-1. These wells were removed during excavation in 2002 and replaced as MW-02R, MW-03R, and PW01R by EEI in February 2005. These wells are located in the vicinity of the former USTs.

Monitoring and maintenance of the groundwater treatment system at the Bldg 45 site has continued from installation in 1998 to the present. In 2002, the IR program conducted a non-time critical removal action of soils at the site to include the area of the former USTs. As part of the excavation, Shaw abandoned UST monitoring wells PW-1, MW-2, MW-3, MW-10, and AS/SVE wells 5 through 8. Excavation took place in the area of highest contamination and historical free product, so a reduction in petroleum constituents was expected. Only the monitoring wells were replaced after excavation, so the remediation system currently consists of AS/SVE wells 1-4. A second IR soil excavation was conducted in 2005 in the general area of the former Building 45. In conjunction with the excavation, well MW-16 appears to have been abandoned. A third IR excavation is planned to the northwest of the former building during June 2006. Once this excavation is complete, MCB Camp Lejeune plans to conduct RBCA soil sampling across the site, in areas of historical soil exceedences, to further delineate and quantify overall site soil contamination. Results of the sampling will be submitted under separate cover by MCB Camp Lejeune, and additional soil remedial alternatives will be recommended in the report, if the data warrants action. If soil data shows contamination levels are less than the applicable I/C MSCCs, then a No Further Action request could be pursued if free product remains absent and groundwater contaminant levels remain low. Land use restrictions would be required, however, if remaining levels are to a standard other than the 2L standards for groundwater or to the lower of the residential or soil-to-groundwater soil contaminant concentrations.

Monitoring and maintenance of the groundwater treatment system at the Bldg 45 site has continued from installation in 1998 to the present. The current program was initiated in September 2005 and continued through May 2006. Field activities included system inspections, monitoring, and maintenance of the system. This report outlines and describes such activities as performed by Sovereign during the monitoring period.

4.0 REMEDIATION SYSTEM OPERATION AND MAINTENANCE

The system originally included eight air sparge (AS) wells and eight soil vapor extraction (SVE) wells. As previously discussed, four AS/SVE wells (wells AS/SVE-5 through AS/SVE-8) were removed from the AS/SVE system during the 2002 IR excavation. The AS wells are two-inches in diameter and are screened from approximately 39.5 to 44.5 feet BLS. The well screens consist of five foot long, 0.02-inch slotted PVC, threaded to two-inch PVC casing. The SVE wells are six inches in diameter and extend to a depth of six feet BLS. The screened portion consists of three feet of 0.02-inch slotted PVC, screening an interval from 2.5 feet to 5.5 feet BLS. Compressed air is supplied to AS wells via 1.25-inch buried piping. The AS system consists of a rotary vane compressor, 80-gallon compressed air receiver, in-line filter, regulator, and flow

meters. The SVE system consists of two soil vapor headers (one currently inactive), a moisture separator, a particulate filter, a positive displacement vapor extraction blower, and an ambient air bypass valve (used to regulate total vacuum applied to the SVE well field). A 500-gallon vertical polyethylene tank is used to store condensate from the air receiver and to collect fluid from the moisture separator.

The system generally operated continuously except during equipment servicing/repair, power outages, and high level water alarms. The remediation system was temporarily deactivated prior to each groundwater gauging and sampling event and then re-started following field activities.

The air compressor received non-routine service repair calls in January and March 2006 by electrical and compressor subcontractors. The system, however, continued to operate during the repair visits and was not down due to any malfunction. System monitoring and maintenance was performed regularly, with site visits conducted at a minimum of three times per week. Instrument readings conducted during the site visits included AS flow rates, AS/SVE pressures/vacuums, temperatures, tank liquid levels, electricity usage, and motor run times. Servicing (oil changes, belt re-tensioning or replacement, filter changes, etc.) was conducted as per manufacturer's instructions or as needed upon system inspection. Emptying of the polyethylene holding tank was also conducted as needed.

Photoionization detector readings were recorded weekly during the monitoring period. Vapor velocity readings, vapor temperature, and vapor vacuum/pressure were also documented at the time the PID readings were recorded. The exhaust stack (SVE) was sampled monthly through April 2006. The air samples were submitted for laboratory analysis via Modified EPA Method 18. The collection of air samples ceased after April 2006, by direction of the Navy Technical Representative.

Well purge water, development water, and equipment decontamination water generated during field events were contained in a portable holding tank. Water that accumulated in the SVE system polyethylene hold tank was removed and transported in the portable holding tank and processed through a groundwater treatment system located at Lot 203 on MCB Camp Lejeune.

5.0 GAUGING AND SAMPLING RESULTS

The field program for the Building 45 site consisted of monthly gauging, as well as groundwater sampling. Activities were conducted in accordance with NCDENR guidance.

5.1 WELL GAUGING

Monitoring wells MW01/45, MW04/45, PW01R, MW02R, MW03R, MW04-MW09, MW12-MW-15, and MW17-MW21 were gauged monthly from September 2005 through May 2006. Gauging data is summarized in Tables 2 and 3. Wells were gauged using an interface probe to measure the depth to water and depth to product (if present). Depth to water at the site ranged from 2.52 feet to 17.65 feet below TOC. No measurable free product was detected at any site well designated for gauging during the 2005-2006 monitoring

program. Historical free product data is located in Appendix A within the EEI report information. Product has not been detected at the site since 2001.

5.2 GROUNDWATER SAMPLING

Groundwater sampling was also conducted at the site. Samples were collected during two sampling events – one in October/November 2005 and the other in April 2006. All 20 monitoring wells in the monitoring program were sampled at each event. Those wells were MW01/45, MW04/45, PW01R, MW02R, MW03R, MW04-MW09, MW12-MW-15, and MW17-MW21.

Duplicate samples were collected and trip blanks were provided by the laboratory. Prior to sampling, wells were purged of one well casing volume of water using a low-flow sampling pump with connected polyethylene discharge tubing. Water quality indicator parameters (pH, temperature, conductivity, oxidation-reduction potential, dissolved oxygen, and turbidity) were measured and recorded. If a well purged to dryness, the well was allowed to recharge before sampling. Samples were collected after purging using the laboratory-prepared sample bottles, placed on ice, and shipped under proper chain of custody to SGS/Paradigm Analytical Laboratories Inc. (SGS) in Wilmington, North Carolina (NC Certification Number 481). The lab tested the groundwater sample for volatiles via EPA method 602, semivolatiles using EPA method 625, and lead using Method 3030C. Laboratory reports and chain of custody documentation are included in Appendix B.

Two volatile compounds were detected in the groundwater at the site - benzene and MTBE. Monitoring well MW09 exhibited benzene during both the October/November and April sampling events at concentrations of 4.69 µg/L and 5.87 µg/L, respectively. The NCGWQS for benzene is 1 µg/L. MTBE was also detected in MW-09 during the two sampling events; however, concentrations were below the 2L standard of 200 µg/L. Monitoring well MW-09 is located near the former USTs and is currently outside the influence of the current system layout. EPA Method 602 results are summarized in Table 4.

No semi-volatile compounds were detected above laboratory quantitation limits at any site monitoring well. Unknown tentatively identified compounds (TICs) were detected in monitoring wells MW-05, MW-06, MW-07, MW-09, and MW-18. Table 5 summarizes semi-volatile lab results. Lead was also not detected above laboratory quantitation limits. Table 6 summarizes lead results. Finally, historical groundwater data for the site can be found in Appendix A within the EEI report information.

6.0 RECEPTOR SURVEY

Sovereign reassessed site conditions and concluded that the receptor survey previously completed by CATLIN in the DRAFT RAO & RCAP dated June 24, 2004 still applies. There has been no change in receptor impact, and there have been no changes to land use of the site or the surrounding areas. The draft CATLIN report should be finalized once the current IR excavation is complete and CATLIN conducts additional RBCA soil sampling in the Building 45 site area.

7.0 CONCLUSIONS AND RECOMMENDATIONS

Based on fieldwork and laboratory analytical data gathered during the 2005-2006 monitoring period, the following conclusions are presented:

1. Previous investigations indicated diesel and gasoline were released from former USTs 941-1 and 941-2, located in the eastern portion of the site. Contamination at the site may also be attributed to the former used oil tank in the central portion of the site and from past operations.
2. There are no active water supply wells within 1,500 feet of the site.
3. Shallow surficial aquifer groundwater flow is to the northwest.
4. Previously identified soil contamination will be further assessed using RBCA analyses, and results and follow-on recommendations will be submitted under separate cover.
5. No measurable free product was observed at any site well during the monitoring program, and no measurable free product has been observed at the site since 2001.
6. Only benzene was detected at the site in monitoring well MW-09, a deep well near former USTs 941-1 and 941-2, above groundwater standards. No semi-volatile compounds were detected at any site well during the current monitoring program. Lead was also not detected.

Previous remedial responses at the site included removal of USTs 941-1, 941-2, and 45-1; excavation of petroleum impacted soils, and the employment of AFVR events. On-going remedial response includes operation of an AS/SVE system. Corrective actions have been effective at removing free product and groundwater contamination at the site. The following recommendations are, therefore, presented for the next monitoring period.

1. Deactivate the AS/SVE system. Petroleum constituents remaining at the site are limited to groundwater contaminant concentrations at one well (MW-09). Benzene is present above 2L standards, but well below GCLs. MTBE is also present in the well, but at concentrations below the NCGWQS. In addition, the well is located outside the area of influence of the current configuration of the AS/SVE system.
2. Perform the previously discussed RBCA soil sampling. Present results in a Report of Findings in accordance with the 2001 Guidelines. Conduct additional soil remediation as necessary.
3. Continue groundwater gauging and sampling at site monitoring wells and report the findings in a Groundwater Monitoring Report.

If free product does not re-occur, soil contaminant levels are below the applicable I/C MSCCs, and groundwater contaminants remain below GCLs, then the site would qualify for No Further Action with Land Use Restrictions. Additional corrective action, however, would be required if free product returns, soils are above MSCC levels, or groundwater contaminant levels rebound.

8.0 REFERENCES

AH Environmental Consultants, *Final Report, Wellhead Protection Plan – 2002 Update, Marine Corps Base, Camp Lejeune,* August 2002.

ARM Environmental Services, Initial *Site Assessment Report, UST Closure by Removal, 1-1000 Gallon Used Oil Tank, Building 45-1, Camp Lejeune, North Carolina*, Undated.

ATEC Environmental Consultants, *Underground Storage Tank (UST) Site Check Investigation Report, Equipment and Maintenance Shop, Building 45, UST S-941-2, Camp Lejeune Marine Corps Base, Jacksonville, North Carolina*, February 18, 1992.

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Law Engineering, Inc., *Leaking Underground Storage Tank Site Assessment Report, Building 45 Equipment and Maintenance Shop UST S-941-2, Marine Corps Base Camp Lejeune, North Carolina*, May 12, 1994.

Law Engineering, Inc., *Corrective Action Plan for the Restoration of Petroleum Contaminated Soil and Groundwater, Building 45, USTs S-941-1 and 2, Equipment Maintenance Shop, Marine Corps Base Camp Lejeune, North Carolina*, February 21, 1996.

Shaw Environmental, Inc., *Final Annual Monitoring Report, Soil and Groundwater Remediation, Building 45 – USTs S-941-1 and 941-2, Marine Corps Base Camp Lejeune, North Carolina*, March 2004.

R.E. Wright Associates, Inc., *Five Well Site Check and Resample One Existing Well, Marine Corps Base Camp Lejeune, North Carolina, UST 45-1*, October 1994.

North Carolina Department of Environment and Natural Resources, Division of Waste Management, Underground Storage Tank Section, *Guidelines for Assessment and Corrective Action*, April 2001.

TABLES

TABLE 1
WELL CONSTRUCTION INFORMATION
Incident Number and Name: 22890 - Building 45

Monitoring Well	Date Installed	Measured Well Depth (feet below TOC)	Top of Casing Elevation (feet)	Hydrogeologic Zone
UST45/S941-MW01/45	6/21/1994	20.1	11.43	Shallow
UST45/S941-MW04/45	6/21/1994	22	7.11	Shallow
UST45/S941-PW01R[1]	2/23/2005	18	12.14	Shallow
UST45/S941-MW02R[2]	2/23/2005	14.5	11.07	Shallow
UST45/S941-MW03R[3]	2/23/2005	17.8	12.17	Shallow
UST45/S941-MW04	12/9/1992	22	14.83	Shallow
UST45/S941-MW05	12/11/1992	19.7	9.73	Shallow
UST45/S941-MW06	12/11/1992	48.2	10.71	Deep
UST45/S941-MW07	12/11/1992	23.1	10	Shallow
UST45/S941-MW08	12/11/1992	19.2	10.73	Shallow
UST45/S941-MW09	12/14/0992	48.2	10.27	Deep
UST45/S941-MW12	11/18/1993	15.4	Not Available	Shallow
UST45/S941-MW13	1993	12.2	8.32	Shallow
UST45/S941-MW14	1993	16.1	7.32	Shallow
UST45/S941-MW15	12/22/1993	15.9	8.26	Shallow
UST45/S941-MW17	12/21/1993	14.7	8.95	Shallow
UST45/S941-MW18	12/22/1993	15.4	10.8	Shallow
UST45/S941-MW19	12/1/1993	17.1	11.85	Shallow
UST45/S941-MW20	12/1/1993	15.7	10.64	Shallow
UST45/S941-MW21	1/5/1994	48.9	7.13	Deep

[1,2,3] = Wells previously reported as PW2, MW23, and MW24.

TABLE 2
GROUNDWATER ELEVATION DATA
SEPTEMBER 2005 – MAY 2006
Incident Number and Name: 22890 - Building 45

Monitoring Well	Top of Casing Elevation (feet)	Groundwater Elevation (feet)								
		9/21/2005	10/28/2005	11/18/2005	12/06/2005	1/10/2006	2/22/2006	3/14/2006	4/05/2006	5/2/2006
UST45/S941-MW01/45	11.43	0.33	2.01	1.19	0.84	1.05	0.88	0.86	0.16	0.19
UST45/S941-MW04/45	7.11	-6.89	-5.14	-6.37	-6.69	-6.72	-7.16	-7.25	-7.53	-7.61
UST45/S941-PW01R[1]	12.14	5.14	7.38	5.26	5.74	5.84	5.25	5.10	4.55	4.59
UST45/S941-MW02R[2]	11.07	6.46	7.49	5.56	6.00	6.24	5.61	5.49	4.76	4.92
UST45/S941-MW03R[3]	12.17	5.31	7.56	5.57	7.03	6.25	5.63	5.48	12.17	4.96
UST45/S941-MW04	14.83	5.60	9.76	8.16	8.50	8.74	8.16	7.92	7.16	6.94
UST45/S941-MW05	9.73	1.98	3.96	2.25	2.76	2.91	2.18	1.76	1.22	1.30
UST45/S941-MW06	10.71	-6.64	-5.51	-6.31	-6.57	-6.21	-6.58	-6.58	-6.94	-6.91
UST45/S941-MW07	10.00	5.40	7.48	5.49	5.93	6.13	5.49	5.37	4.87	4.92
UST45/S941-MW08	10.73	5.53	7.02	5.59	5.85	5.99	5.63	5.45	5.04	5.19
UST45/S941-MW09	10.27	-6.65	-5.48	-6.31	-6.68	-6.21	-6.60	-6.60	-6.60	-6.60
UST45/S941-MW12	Not Available	Not Calculated	Not Calculated	Not Calculated	Not Calculated	Not Calculated	Not Calculated	Not Calculated	Not Calculated	Not Calculated
UST45/S941-MW13	8.32	1.90	4.07	2.92	3.02	3.38	-0.24	2.94	2.09	1.19
UST45/S941-MW14	7.32	-1.01	0.17	-0.83	-1.03	-1.26	-1.67	-1.78	-4.06	-4.56
UST45/S941-MW15	8.26	-0.16	1.70	0.13	-0.44	-0.19	-0.31	-0.44	-1.33	-1.61
UST45/S941-MW17	8.95	3.43	5.53	3.35	3.64	3.75	3.14	2.91	2.21	2.44
UST45/S941-MW18	10.80	4.04	6.33	4.48	4.75	5.44	4.36	4.24	3.54	3.51
UST45/S941-MW19	11.85	6.22	8.87	6.98	7.48	7.78	Not Calculated	7.08	6.49	6.31
UST45/S941-MW20	10.64	5.93	8.04	6.04	6.53	6.79	10.64	6.06	5.56	5.55
UST45/S941-MW21	7.13	-6.22	-5.27	-6.37	-6.67	-6.62	Not Calculated	-7.09	-7.50	-7.44

[1,2,3] = Wells previously reported as PW2, MW23, and MW24.
NM = Well not measured; either not accessible or not designated as part of gauging program.
Not calculated due to insufficient data or well not measured.

TABLE 3
PRODUCT THICKNESS DATA
SEPTEMBER 2005 – MAY 2006
Incident Number and Name: 22890 - Building 45

Monitoring Well	Top of Casing Elevation (feet)	Product Thickness (feet)								
		9/21/2005	10/28/2005	11/18/2005	12/06/2005	1/10/2006	2/22/2006	3/14/2006	4/05/2006	5/2/2006
UST45/S941-MW01/45	11.43	--	--	--	--	--	--	--	--	--
UST45/S941-MW04/45	7.11	--	--	--	--	--	--	--	--	--
UST45/S941-PW01R[1]	12.14	--	--	--	--	--	--	--	--	--
UST45/S941-MW02R[2]	11.07	--	--	--	--	--	--	--	--	--
UST45/S941-MW03R[3]	12.17	--	--	--	--	--	--	--	NM	--
UST45/S941-MW04	14.83	--	--	--	--	--	--	--	--	--
UST45/S941-MW05	9.73	--	--	--	--	--	--	--	--	--
UST45/S941-MW06	10.71	--	--	--	--	--	--	--	--	--
UST45/S941-MW07	10	--	--	--	--	--	--	--	--	--
UST45/S941-MW08	10.73	--	--	--	--	--	--	--	--	--
UST45/S941-MW09	10.27	--	--	--	--	--	--	--	--	--
UST45/S941-MW12	Not Available	--	--	--	--	--	--	--	--	--
UST45/S941-MW13	8.32	--	--	--	--	--	--	--	--	--
UST45/S941-MW14	7.32	--	--	--	--	--	--	--	--	--
UST45/S941-MW15	8.26	--	--	--	--	--	--	--	--	--
UST45/S941-MW17	8.95	--	--	--	--	--	--	--	--	--
UST45/S941-MW18	10.8	--	--	--	--	--	--	--	--	--
UST45/S941-MW19	11.85	--	--	--	--	--	NM	--	--	--
UST45/S941-MW20	10.64	--	--	--	--	--	--	--	--	--
UST45/S941-MW21	7.13	--	--	--	--	--	NM	--	--	--

[1,2,3] = Wells previously reported as PW2, MW23, and MW24.
"--" = no measurable free product detected.
NM = well not measured; either not accessible or not designated as part of gauging program.

TABLE 4
SUMMARY OF GROUNDWATER SAMPLING RESULTS
Date: June 2006
Incident Number and Name: 22890 - Building 45
Facility ID#: N/A
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**						
UST45-MW01/45	UST45-MW01/45	10/27/2005 4/6/2006	BQL	BQL	BQL	BQL	BQL	BQL
UST45-MW02R	UST45-MW02R	11/3/2005 4/7/2006	BQL	BQL	BQL	BQL	BQL	BQL
UST45-MW03R	UST45-MW03R	11/3/2006 4/6/2006	BQL	BQL	BQL	BQL	BQL	BQL
UST45-MW04	UST45-MW04	11/4/2006 4/6/2006	BQL	BQL	BQL	BQL	BQL	BQL
UST45-MW04/45	UST45-MW04/45	10/27/2005 4/6/2006	BQL	BQL	BQL	BQL	BQL	BQL
UST45-MW05	UST45-MW05	11/4/2005 4/6/2006	BQL	BQL	BQL	BQL	BQL	BQL
UST45-MW06	UST45-MW06	11/2/2005 4/7/2006	BQL	BQL	BQL	BQL	BQL	BQL
UST45-MW07	UST45-MW07	11/2/2005 4/10/2006	BQL	BQL	BQL	BQL	BQL	BQL
UST45-MW08	UST45-MW08	11/2/2005 4/7/2006	BQL	BQL	BQL	BQL	BQL	BQL
UST45-MW09	UST45-MW09	11/2/2005 4/6/2006	**4.69** **5.87**	BQL	BQL	**4.39** **4.46**	BQL	BQL
UST45-MW12	UST45-MW12	11/4/2005 4/6/2006	BQL	BQL	BQL	BQL	BQL	BQL
UST45-MW13	UST45-MW13	10/27/2005 4/6/2006	BQL	BQL	BQL	BQL	BQL	BQL
UST45-MW14	UST45-MW14	10/28/2005 4/6/2006	BQL	BQL	BQL	BQL	BQL	BQL
UST45-MW15	UST45-MW15	10/28/2005 4/6/2006	BQL	BQL	BQL	BQL	BQL	BQL
UST45-MW17	UST45-MW17	11/4/2005 4/7/2006	BQL	BQL	BQL	BQL	BQL	BQL
UST45-MW18	UST45-MW18	11/3/2005 4/6/2006	BQL	BQL	BQL	BQL	BQL	BQL
UST45-MW19	UST45-MW19	11/3/2005 4/6/2006	BQL	BQL	BQL	BQL	BQL	BQL
UST45-MW20	UST45-MW20	11/4/2005 4/6/2006	BQL	BQL	BQL	BQL	BQL	BQL
UST45-MW21	UST45-MW21	10/27/2005 4/6/2006	BQL	BQL	BQL	BQL	BQL	BQL
UST45-PW01R	UST45-PW01R	11/3/2005 4/6/2006	BQL	BQL	BQL	BQL	BQL	BQL
2L Standard (µg/l)			1	70	550	200	1,000	530
GCL (µg/l)			5,000	70,000	84,500	200,000	257,500	87,500

- All results reported in µg/l
- µg/L =micrograms per liter
- GCL = gross contamination level
- BQL = Below Quantitation Limits
- **BOLD** and shaded = detected concentration above applicable standard

TABLE 5
SUMMARY OF GROUNDWATER SAMPLING RESULTS
Date: June 2006
Incident Number and Name: 22890 - Building 45
Facility ID#: N/A
Analytical Method: EPA Method 625

Contaminant of Concern			All Compounds
Well ID	**Sample ID**	**Date Collected**	
UST45-MW01/45	UST45-MW01/45	10/27/2005 4/6/2006	BQL
UST45-MW02R	UST45-MW02R	11/3/2005 4/7/2006	BQL
UST45-MW03R	UST45-MW03R	11/3/2006 4/6/2006	BQL
UST45-MW04	UST45-MW04	11/4/2006 4/6/2006	BQL
UST45-MW04/45	UST45-MW04/45	10/27/2005 4/6/2006	BQL
UST45-MW05	UST45-MW05	11/4/2005 4/6/2006	BQL
UST45-MW06	UST45-MW06	11/2/2005 4/7/2006	BQL
UST45-MW07	UST45-MW07	11/2/2005 4/10/2006	BQL
UST45-MW08	UST45-MW08	11/2/2005 4/7/2006	BQL
UST45-MW09	UST45-MW09	11/2/2005 4/6/2006	BQL
UST45-MW12	UST45-MW12	11/4/2005 4/6/2006	BQL
UST45-MW13	UST45-MW13	11/4/2005 4/6/2006	BQL
UST45-MW14	UST45-MW14	10/27/2005 4/6/2006	BQL
UST45-MW15	UST45-MW15	10/28/2005 4/6/2006	BQL
UST45-MW17	UST45-MW17	10/28/2005 4/6/2006	BQL
UST45-MW18	UST45-MW18	11/4/2005 4/7/2006	BQL
UST45-MW19	UST45-MW19	11/3/2005 4/6/2006	BQL
UST45-MW20	UST45-MW20	11/3/2005 4/6/2006	BQL
UST45-MW21	UST45-MW21	11/4/2005 4/6/2006	BQL
UST45-PW01R	UST45-PW01R	10/27/2005 4/6/2006	BQL
2L Standard (µg/l)			Varies
GCL (µg/l)			Varies

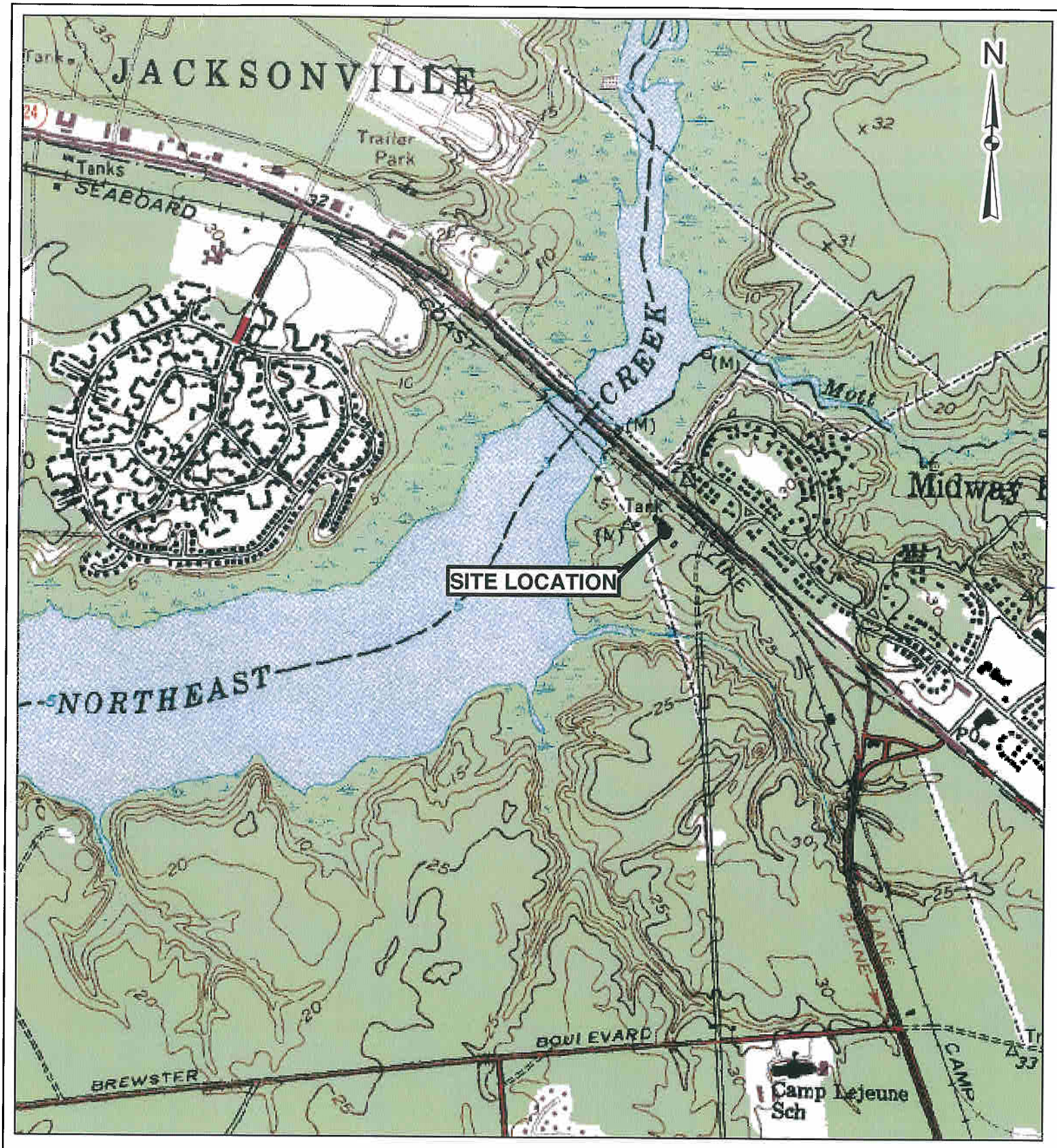
- Unknown TICs detected in MW05, MW-06, 07, 09, and 18 with no match probabilities.
- All results reported in µg/l
- µg/L =micrograms per liter
- GCL = gross contamination level
- BQL = Below Quantitation Limits

TABLE 6
SUMMARY OF GROUNDWATER SAMPLING RESULTS
Date: June 2006
Incident Number and Name: 22890 - Building 45
Facility ID#: N/A
Analytical Method: EPA Method 3030C (Lead)

Contaminant of Concern			Lead
Well ID	**Sample ID**	**Date Collected**	
UST45-MW01/45	UST45-MW01/45	10/27/2005 4/6/2006	BQL
UST45-MW02R	UST45-MW02R	11/3/2005 4/7/2006	BQL
UST45-MW03R	UST45-MW03R	11/3/2006 4/6/2006	BQL
UST45-MW04	UST45-MW04	11/4/2006 4/6/2006	BQL
UST45-MW04/45	UST45-MW04/45	10/27/2005 4/6/2006	BQL
UST45-MW05	UST45-MW05	11/4/2005 4/6/2006	BQL
UST45-MW06	UST45-MW06	11/2/2005 4/7/2006	BQL
UST45-MW07	UST45-MW07	11/2/2005 4/10/2006	BQL
UST45-MW08	UST45-MW08	11/2/2005 4/7/2006	BQL
UST45-MW09	UST45-MW09	11/2/2005 4/6/2006	BQL
UST45-MW12	UST45-MW12	11/4/2005 4/6/2006	BQL
UST45-MW13	UST45-MW13	11/4/2005 4/6/2006	BQL
UST45-MW14	UST45-MW14	10/27/2005 4/6/2006	BQL
UST45-MW15	UST45-MW15	10/28/2005 4/6/2006	BQL
UST45-MW17	UST45-MW17	10/28/2005 4/6/2006	BQL
UST45-MW18	UST45-MW18	11/4/2005 4/7/2006	BQL
UST45-MW19	UST45-MW19	11/3/2005 4/6/2006	BQL
UST45-MW20	UST45-MW20	11/3/2005 4/6/2006	BQL
UST45-MW21	UST45-MW21	11/4/2005 4/6/2006	BQL
UST45-PW01R	UST45-PW01R	10/27/2005 4/6/2006	BQL
2L Standard (µg/l)			15
GCL (µg/l)			15,000

- All results reported in µg/l
- µg/L =micrograms per liter
- GCL = gross contamination level
- BQL = Below Quantitation Limits

FIGURES



From: USGS Camp LeJeune, NC. Topographic Quadrangle (Dated 1971)

SOVEREIGN CONSULTING INC. NEWPORT NEWS, VIRGINIA	PROJECT BUILDING 45 MARINE CORPS BASE CAMP LEJEUNE, N.C.	TITLE **GENERAL VICINITY TOPOGRAPHIC SITE MAP**				**FIGURE** **1**
	JOB NO. 206-063	DATE JUNE 2006	SCALE 1"=400'	DRAWN BY LCJ	CHECKED BY CWR	

N

LEGEND

EXISTING	DESCRIPTION
	BUILDING
	TYPE I MONITORING WELL (EXISTING)
	TYPE II MONITORING WELL (EXISTING)
	TYPE II MONITORING WELL (ABANDONED)
	TYPE II MONITORING WELL (COULD NOT BE LOCATED)
	TYPE III MONITORING WELL (EXISTING)
	TYPE III MONITORING WELL (COULD NOT BE LOCATED)
	RECOVERY WELL
	RECOVERY WELL (ABANDONED)
	SVE/AIR SPARGE WELL CLUSTER
	SOIL VAPOR EXTRACTION LINE NO.1
	SOIL VAPOR EXTRACTION LINE NO.2
	AIR SPARGE COMPRESSED AIR LINE
	SVE/AIR SPARGE WELL CLUSTER (ABANDONED)
	SOIL VAPOR EXTRACTION LINE NO.1 (ABANDONED)
	SOIL VAPOR EXTRACTION LINE NO.2 (ABANDONED)
	AIR SPARGE COMPRESSED AIR LINE (ABANDONED)
	FENCE
	POWER LINE
	UNDERGROUND POWER LINE
	TELEPHONE LINE
	WATER LINE
	LIGHT POLE
	POWER POLE
	TREE LINE

IR84-MW-23
PIPE OUTLET
IR84-MW08
IR84-MW07
IR84-MW20
LAGOON
PIPE OUTLET
500-YEAR FLOOD PLAIN
WETLANDS
IR84-MW13
IR84-MW14
DIRT ROAD
PIPE
DRAINAGE INLET
EXISTING DRAINAGE INLET AND ENTIRE LENGH OF PIPE TO BE REMOVED
CP&L SUBSTATION
IR84-MW10
IR84-MW09
PIPE OUTLET
PIPE
IR84-MW05
IR84-MW06
IR84-MWB
IR84-MWA
GRAVEL ROAD
NC HWY 24
IR84-MW-16
FORMER AST 5781
IR84-MW17
IR84-MW02
IR84-MW01
UST45/S941-MW05
IR84-MW04
IR84-MW03
IR84-MW-22
UST45/S941-MW06
UST45/S941-MW08
UST45/S941-MW17
FORMER LOCATION OF BLDG. 45
6' CHAIN LINK FENCE
BUILDING
WASHRACK
CONC. PAD
UST45/S941-MW04/45
IR84-MW19
UST45/S941-MW15
UST45-MW-03/45
UST45/S941-MW01/45
IR84-MW21
UST45/S941-MW18
UST45/S941-MW03
UST45/S941-MW07
UST45/S941-MW20
UST45/S941-PW01R
UST45-MW-03
UST45/S941-MW03R
UST5941-2
UST45/S941-MW19
UST45/S941-MW02R
UST45-MW-02/45
UST45-MW-16
UST45-MW-01
DECONTAMINATION AREA
UST45-MW-21
UST45-MW22
UST45/S941-MW14
UST45/S941-MW21
SEPTIC TANK
UST45/S941-MW13
IR84-MW-18
UST45-MW-11
3" DIA. TANK
FORMER LOCATION OF BLDG. 750
UST45/S941-MW12
GATE
GRAVEL RD.
6' CHAIN LINK FENCE
REMEDIATION EQUIPMENT BUILDING
IR84-MW12
IR84-MW11
UST45/S941-MW04
LCH115
LCH108
LCH106
LCH113
LCH111
LCH109
LCH107
LCH105

80 40 0 80
SCALE IN FEET

1. LOCATIONS OF ABANDONED AND NOT LOCATED WELLS ARE APPROXIMATE.
2. LOCATION OF IR84-MW-10 IS APPROXIMATE.
3. BASE MAP ADAPTED FROM INFORMATION OBTAINED FROM JA JONES MONITORING REPORTS AND DRAWING PROVIDED BY BAKER ENVIRONMENTAL, INC.
4. EXISTING WELL LOCATIONS SURVEYED BY CATLIN PERSONNEL ON MAY 10, 2004 BY USE OF A GPS DEVICE WITH SUBMETER ACCURACY.
5. LOCATION OF UST45/S941-PW01R, UST45/S941-MW02R, UST45/S941-MW03R, AND UST45/S941-MW21 ARE APPROXIMATE.

SOVEREIGN CONSULTING INC.
NEWPORT NEWS, VIRGINIA

PROJECT: BUILDING 45
MARINE CORPS BASE
CAMP LEJEUNE, N.C.

JOB NO. 206-063 | DATE: JUNE 2006 | SCALE: 1"=80' | DRAWN BY: LCJ | CHECKED BY: MEM

TITLE: SITE MAP WITH MONITORING WELL LOCATIONS

FIGURE 2

206063-BLDG45-02

N

LEGEND

EXISTING	DESCRIPTION
	BUILDING
	TYPE I MONITORING WELL (EXISTING)
	TYPE II MONITORING WELL (EXISTING)
	TYPE II MONITORING WELL (ABANDONED)
	TYPE II MONITORING WELL (COULD NOT BE LOCATED)
	TYPE III MONITORING WELL (EXISTING)
	TYPE III MONITORING WELL (COULD NOT BE LOCATED)
	RECOVERY WELL
	RECOVERY WELL (ABANDONED)
	SVE/AIR SPARGE WELL CLUSTER
	SOIL VAPOR EXTRACTION LINE NO.1
	SOIL VAPOR EXTRACTION LINE NO.2
	AIR SPARGE COMPRESSED AIR LINE
	SVE/AIR SPARGE WELL CLUSTER (ABANDONED)
	SOIL VAPOR EXTRACTION LINE NO.1 (ABANDONED)
	SOIL VAPOR EXTRACTION LINE NO.2 (ABANDONED)
	AIR SPARGE COMPRESSED AIR LINE (ABANDONED)
	FENCE
	POWER LINE
	UNDERGROUND POWER LINE
	TELEPHONE LINE
	WATER LINE
	LIGHT POLE
	POWER POLE
	TREE LINE
( )	GROUNDWATER ELEVATIONS
(NC)	NOT CALCULATED

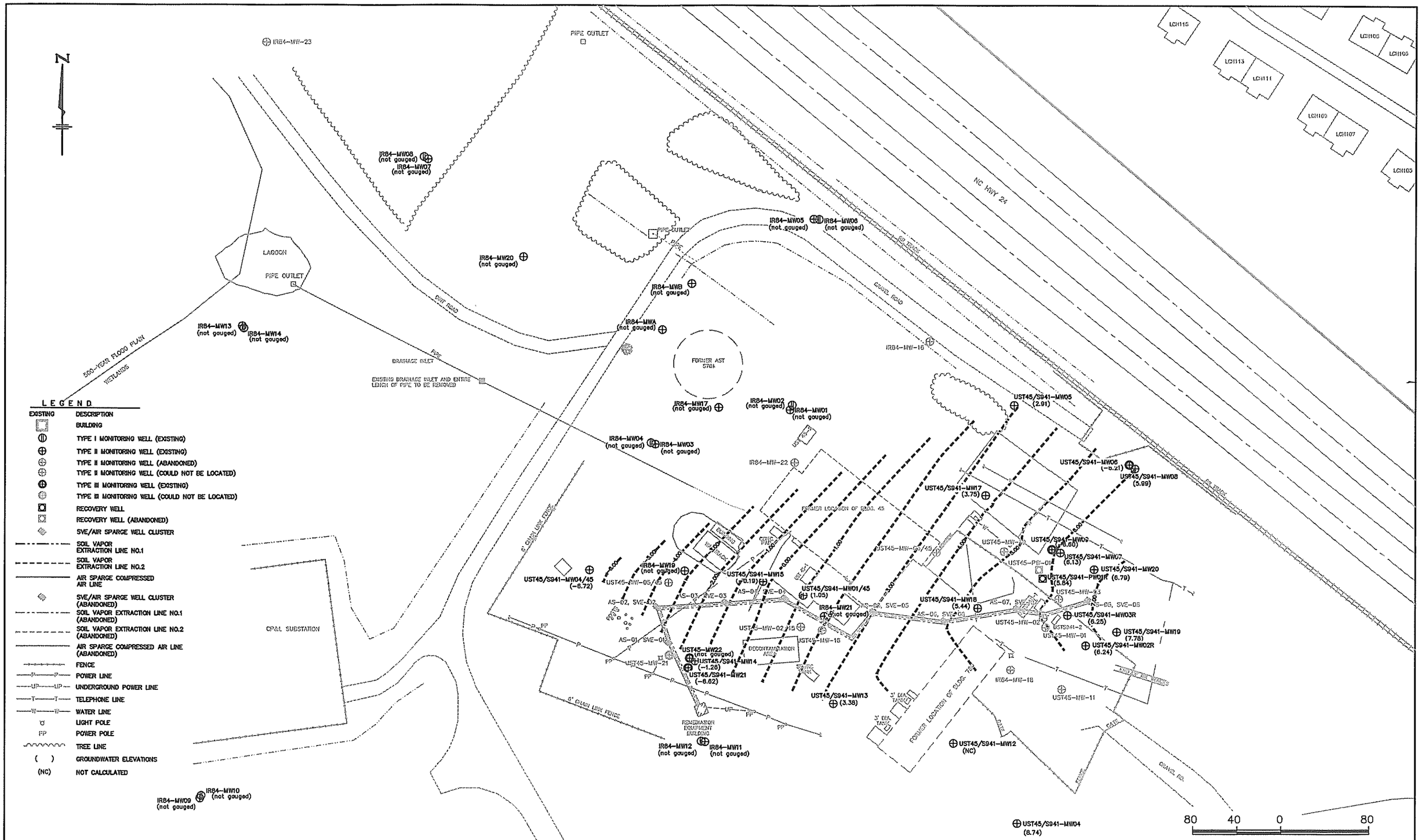
1. LOCATIONS OF ABANDONED AND NOT LOCATED WELLS ARE APPROXIMATE.
2. LOCATION OF IR84-MW-19 IS APPROXIMATE.
3. BASE MAP ADAPTED FROM INFORMATION OBTAINED FROM JA JONES MONITORING REPORTS AND DRAWING PROVIDED BY BAKER ENVIRONMENTAL, INC.
4. EXISTING WELL LOCATIONS SURVEYED BY CATLIN PERSONNEL ON MAY 10, 2004 BY USE OF A GPS DEVICE WITH SUBMETER ACCURACY.
5. LOCATION OF UST45/S941-PW01R, UST45/S941-MW02R, UST45/S941-MW03R, AND UST45/S941-MW21 ARE APPROXIMATE.
6. TYPE III WELLS NOT CONSIDERED FOR CONTOUR PURPOSES.

80 40 0 80

SCALE IN FEET

SOVEREIGN CONSULTING INC. NEWPORT NEWS, VIRGINIA	PROJECT: BUILDING 45 MARINE CORPS BASE CAMP LEJEUNE, N.C.	TITLE: SHALLOW WELL GROUNDWATER ELEVATIONS– SEPTEMBER 2005		FIGURE 3
	JOB NO. 206-063	DATE: JUNE 2006	SCALE: 1"=80'	DRAWN BY: LCJ / CHECKED BY: MEM

206063-BLDG45-03



LEGEND

EXISTING	DESCRIPTION
	BUILDING
	TYPE I MONITORING WELL (EXISTING)
	TYPE II MONITORING WELL (EXISTING)
	TYPE II MONITORING WELL (ABANDONED)
	TYPE II MONITORING WELL (COULD NOT BE LOCATED)
	TYPE III MONITORING WELL (EXISTING)
	TYPE III MONITORING WELL (COULD NOT BE LOCATED)
	RECOVERY WELL
	RECOVERY WELL (ABANDONED)
	SVE/AIR SPARGE WELL CLUSTER
	SOIL VAPOR EXTRACTION LINE NO.1
	SOIL VAPOR EXTRACTION LINE NO.2
	AIR SPARGE COMPRESSED AIR LINE
	SVE/AIR SPARGE WELL CLUSTER (ABANDONED)
	SOIL VAPOR EXTRACTION LINE NO.1 (ABANDONED)
	SOIL VAPOR EXTRACTION LINE NO.2 (ABANDONED)
	AIR SPARGE COMPRESSED AIR LINE (ABANDONED)
	FENCE
	POWER LINE
	UNDERGROUND POWER LINE
	TELEPHONE LINE
	WATER LINE
	LIGHT POLE
	POWER POLE
	TREE LINE
( )	GROUNDWATER ELEVATIONS
(NC)	NOT CALCULATED

1. LOCATIONS OF ABANDONED AND NOT LOCATED WELLS ARE APPROXIMATE.
2. LOCATION OF IR84-MW-19 IS APPROXIMATE.
3. BASE MAP ADAPTED FROM INFORMATION OBTAINED FROM JA JONES MONITORING REPORTS AND DRAWING PROVIDED BY BAKER ENVIRONMENTAL, INC.
4. EXISTING WELL LOCATIONS SURVEYED BY CATLIN PERSONNEL ON MAY 10, 2004 BY USE OF A GPS DEVICE WITH SUBMETER ACCURACY.
5. LOCATION OF UST45/S941-PW01R, UST45/S941-MW02R, UST45/S941-MW03R, AND UST45/S941-MW21 ARE APPROXIMATE.
6. TYPE III WELLS NOT CONSIDERED FOR CONTOUR PURPOSES.

SOVEREIGN CONSULTING INC.
NEWPORT NEWS, VIRGINIA

PROJECT: BUILDING 45
MARINE CORPS BASE
CAMP LEJEUNE, N.C.

JOB NO. 206-063 | DATE: JUNE 2006

TITLE: SHALLOW WELL GROUNDWATER ELEVATIONS– JANUARY 2006

SCALE: 1"=80' | DRAWN BY: LCJ | CHECKED BY: MEM

FIGURE 4

206063-BLDG45-04

N

IR84-MW-23

PIPE OUTLET

IR84-MW08 (not gauged)
IR84-MW07 (not gauged)

LAGOON

PIPE OUTLET

IR84-MW20 (not gauged)

IR84-MW05 (not gauged)
IR84-MW06 (not gauged)

PIPE OUTLET

PIPE

IR84-MW9 (not gauged)

IR84-MW13 (not gauged)
IR84-MW14 (not gauged)

IR84-MWA (not gauged)

DRAINAGE INLET

PIPE

EXISTING DRAINAGE INLET AND ENTIRE LENGH OF PIPE TO BE REMOVED

500-YEAR FLOOD PLAIN

WETLANDS

DIRT ROAD

GRAVEL ROAD

NC HWY 24

FORMER AST SITE

IR84-MW-16

IR84-MW17 (not gauged)

IR84-MW02 (not gauged)
IR84-MW01 (not gauged)

UST45/S941-MW05 (1.30)

IR84-MW04 (not gauged)
IR84-MW03 (not gauged)

IR84-MW-22

UST45/S941-MW06 (-6.91)
UST45/S941-MW08 (5.19)

UST45/S941-MW17 (2.44)

FORMER LOCATION OF BLDG. 45

6' CHAIN LINK FENCE

UST45/S941-MW09 (-6.60)
UST45/S941-MW07 (4.92)

UST45/S941-MW04/45 (-7.61)

IR84-MW (not gauged)

UST45/S941-MW15 (-1.07)

UST45/S941-MW01/45 (0.19)

UST45/S941-MW18 (3.51)

UST45/S941-MW20 (5.55)
UST45/S941-PW01R (4.59)

UST45/S941-MW03R (4.98)

UST45/S941-MW19 (6.31)

UST45/S941-MW02R (4.92)

IR84-MW21 (not gauged)

UST45-MW-22 (not gauged)
UST45/S941-MW1 (-4.56)

UST45/S941-MW21 (-7.44)

CONTAMINATION AREA

SEPTIC TANK

UST45/S941-MW13 (1.19)

3' DIA. TANK

3' DIA. TANK

FORMER LOCATION OF BLDG. 45

IR84-MW-18

UST45-MW-11

UST45/S941-MW12 (NC)

REMEDIATION EQUIPMENT BUILDING

IR84-MW12 (not gauged)
IR84-MW11 (not gauged)

CP&L SUBSTATION

IR84-MW09 (not gauged)
IR84-MW10 (not gauged)

UST45/S941-MW04 (6.84)

LCH115
LCH105
LCH103
LCH113
LCH111
LCH109
LCH107
LCH105

80 40 0 80

SCALE IN FEET

LEGEND

EXISTING	DESCRIPTION
	BUILDING
	TYPE I MONITORING WELL (EXISTING)
	TYPE II MONITORING WELL (EXISTING)
	TYPE II MONITORING WELL (ABANDONED)
	TYPE II MONITORING WELL (COULD NOT BE LOCATED)
	TYPE III MONITORING WELL (EXISTING)
	TYPE III MONITORING WELL (COULD NOT BE LOCATED)
	RECOVERY WELL
	RECOVERY WELL (ABANDONED)
	SVE/AIR SPARGE WELL CLUSTER
	SOIL VAPOR EXTRACTION LINE NO.1
	SOIL VAPOR EXTRACTION LINE NO.2
	AIR SPARGE COMPRESSED AIR LINE
	SVE/AIR SPARGE WELL CLUSTER (ABANDONED)
	SOIL VAPOR EXTRACTION LINE NO.1 (ABANDONED)
	SOIL VAPOR EXTRACTION LINE NO.2 (ABANDONED)
	AIR SPARGE COMPRESSED AIR LINE (ABANDONED)
	FENCE
	POWER LINE
	UNDERGROUND POWER LINE
	TELEPHONE LINE
	WATER LINE
	LIGHT POLE
	POWER POLE
	TREE LINE
( )	GROUNDWATER ELEVATIONS
(NC)	NOT CALCULATED

1. LOCATIONS OF ABANDONED AND NOT LOCATED WELLS ARE APPROXIMATE.
2. LOCATION OF IR84-MW-19 IS APPROXIMATE.
3. BASE MAP ADAPTED FROM INFORMATION OBTAINED FROM JA JONES MONITORING REPORTS AND DRAWING PROVIDED BY BAKER ENVIRONMENTAL, INC.
4. EXISTING WELL LOCATIONS SURVEYED BY CAYLIN PERSONNEL ON MAY 10, 2004 BY USE OF A GPS DEVICE WITH SUBMETER ACCURACY.
5. LOCATION OF UST45/S941-PW01R, UST45/S941-MW02R, UST45/S941-MW03R, AND UST45/S941-MW21 ARE APPROXIMATE.
6. TYPE III WELLS NOT CONSIDERED FOR CONTOUR PURPOSES.

SOVEREIGN CONSULTING INC.
NEWPORT NEWS, VIRGINIA

PROJECT: BUILDING 45
MARINE CORPS BASE
CAMP LEJEUNE, N.C.

TITLE: SHALLOW WELL GROUNDWATER ELEVATIONS– MAY 2006

FIGURE 5

JOB NO. 206-063 | DATE: JUNE 2006 | SCALE: 1"=80' | DRAWN BY: LCJ | CHECKED BY: MEM

206063-BLDG45-05

SUMMARY OF GROUNDWATER SAMPLING RESULTS

Date: June 2006
Incident Number and Name: 22890 - Building45
Facility ID#: N/A
Analytical Method: EPA Method 602

Contaminant of Concern								
Well ID	Sample ID	Date Collected	Benzene	Diisopropyl ether (DIPE)	Ethylbenzene	Methyltert butyl ether (MTBE)	Toluene	Total Xylenes
UST45/S941-MW01/45	UST45-MW01/45	10/27/2005	BQL	BQL	BQL	BQL	BQL	BQL
UST45/S941-MW02R	UST45-MW02R	11/3/2005	BQL	BQL	BQL	BQL	BQL	BQL
UST45/S941-MW03R	UST45-MW03R	11/3/2005	BQL	BQL	BQL	BQL	BQL	BQL
UST45/S941-MW04	UST45-MW04	11/4/2005	BQL	BQL	BQL	BQL	BQL	BQL
UST45/S941-MW04/45	UST45-MW04/45	10/27/2005	BQL	BQL	BQL	BQL	BQL	BQL
UST45/S941-MW05	UST45-MW05	11/4/2005	BQL	BQL	BQL	BQL	BQL	BQL
UST45/S941-MW06	UST45-MW06	11/2/2005	BQL	BQL	BQL	BQL	BQL	BQL
UST45/S941-MW07	UST45-MW07	11/2/2005	BQL	BQL	BQL	BQL	BQL	BQL
UST45/S941-MW08	UST45-MW08	11/2/2005	BQL	BQL	BQL	BQL	BQL	BQL
UST45/S941-MW09	UST45-MW09	11/2/2005	4.69	BQL	BQL	4.39	BQL	BQL
UST45/S941-MW12	UST45-MW12	11/4/2005	BQL	BQL	BQL	BQL	BQL	BQL
UST45/S941-MW13	UST45-MW13	10/27/2005	BQL	BQL	BQL	BQL	BQL	BQL
UST45/S941-MW14	UST45-MW14	10/28/2005	BQL	BQL	BQL	BQL	BQL	BQL
UST45/S941-MW15	UST45-MW15	10/28/2005	BQL	BQL	BQL	BQL	BQL	BQL
UST45/S941-MW17	UST45-MW17	11/4/2005	BQL	BQL	BQL	BQL	BQL	BQL
UST45/S941-MW18	UST45-MW18	11/3/2005	BQL	BQL	BQL	BQL	BQL	BQL
UST45/S941-MW19	UST45-MW19	11/3/2005	BQL	BQL	BQL	BQL	BQL	BQL
UST45/S941-MW20	UST45-MW20	11/4/2005	BQL	BQL	BQL	BQL	BQL	BQL
UST45/S941-MW21	UST45-MW21	10/27/2005	BQL	BQL	BQL	BQL	BQL	BQL
UST45/S941-PW01R	UST45-PW01R	11/3/2005	BQL	BQL	BQL	BQL	BQL	BQL
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 = grow contamination level
- BQL = Below Quantitation Limits
- BOLDand shaded = detected concentration above applicable standard

LEGEND

EXISTING	DESCRIPTION
	BUILDING
	TYPE I MONITORING WELL (EXISTING)
	TYPE II MONITORING WELL (EXISTING)
	TYPE II MONITORING WELL (ABANDONED)
	TYPE II MONITORING WELL (COULD NOT BE LOCATED)
	TYPE III MONITORING WELL (EXISTING)
	TYPE III MONITORING WELL (COULD NOT BE LOCATED)
	RECOVERY WELL
	RECOVERY WELL (ABANDONED)
	SVE/AIR SPARGE WELL CLUSTER
	SOIL VAPOR EXTRACTION LINE NO.1
	SOIL VAPOR EXTRACTION LINE NO.2
	AIR SPARGE COMPRESSED AIR LINE
	SVE/AIR SPARGE WELL CLUSTER (ABANDONED)
	SOIL VAPOR EXTRACTION LINE NO.1 (ABANDONED)
	SOIL VAPOR EXTRACTION LINE NO.2 (ABANDONED)
	AIR SPARGE COMPRESSED AIR LINE (ABANDONED)
	FENCE
	POWER LINE
	UNDERGROUND POWER LINE
	TELEPHONE LINE
	WATER LINE
	LIGHT POLE
	POWER POLE
	TREE LINE

1. LOCATIONS OF ABANDONED AND NOT LOCATED WELLS ARE APPROXIMATE.
2. LOCATION OF IR84-MW-19 IS APPROXIMATE.
3. BASE MAP ADAPTED FROM INFORMATION OBTAINED FROM JA JONES MONITORING REPORTS AND DRAWING PROVIDED BY BAKER ENVIRONMENTAL, INC.
4. EXISTING WELL LOCATIONS SURVEYED BY CATLIN PERSONNEL ON MAY 10, 2004 BY USE OF A GPS DEVICE WITH SUBMETER ACCURACY.
5. LOCATION OF UST45/S941-PW01R, UST45/S941-MW02R, UST45/S941-MW03R, AND UST45/S941-MW21 ARE APPROXIMATE.

SCALE IN FEET: 80 40 0 80

SOVEREIGN CONSULTING INC. NEWPORT NEWS, VIRGINIA	PROJECT: BUILDING 45 MARINE CORPS BASE CAMP LEJEUNE, N.C.	TITLE: SITE MAP WITH OCT/NOV 2005 GROUNDWATER RESULTS – EPA METHOD 602			FIGURE 6
	JOB NO. 206-063	DATE: JUNE 2006	SCALE: 1"=80'	DRAWN BY: LCJ	CHECKED BY: MEM

206063-BLDG45-06

SUMMARY OF GROUNDWATER SAMPLING RESULTS

Date: June 2006
Incident Number and Name: 22890 - Building 45
Facility ID#: N/A
Analytical Method: EPA Method 602

Contaminant of Concern								
Well ID	Sample ID	Date Collected	Benzene	Diisopropyl ether (DIPE)	Ethylbenzene	Methyltert butyl ether (MTBE)	Toluene	Total Xylenes
UST45/S941-MW01/45	UST45-MW01/45	4/6/2006	BQL	BQL	BQL	BQL	BQL	BQL
UST45/S941-MW02R	UST45-MW02R	4/7/2006	BQL	BQL	BQL	BQL	BQL	BQL
UST45/S941-MW03R	UST45-MW03R	4/6/2006	BQL	BQL	BQL	BQL	BQL	BQL
UST45/S941-MW04	UST45-MW04	4/6/2006	BQL	BQL	BQL	BQL	BQL	BQL
UST45/S941-MW04/45	UST45-MW04/45	4/6/2006	BQL	BQL	BQL	BQL	BQL	BQL
UST45/S941-MW05	UST45-MW05	4/6/2006	BQL	BQL	BQL	BQL	BQL	BQL
UST45/S941-MW06	UST45-MW06	4/7/2006	BQL	BQL	BQL	BQL	BQL	BQL
UST45/S941-MW07	UST45-MW07	4/10/2006	BQL	BQL	BQL	BQL	BQL	BQL
UST45/S941-MW08	UST45-MW08	4/7/2006	BQL	BQL	BQL	BQL	BQL	BQL
UST45/S941-MW09	UST45-MW09	4/6/2006	5.87	BQL	BQL	4.46	BQL	BQL
UST45/S941-MW12	UST45-MW12	4/6/2006	BQL	BQL	BQL	BQL	BQL	BQL
UST45/S941-MW13	UST45-MW13	4/6/2006	BQL	BQL	BQL	BQL	BQL	BQL
UST45/S941-MW14	UST45-MW14	4/6/2006	BQL	BQL	BQL	BQL	BQL	BQL
UST45/S941-MW15	UST45-MW15	4/6/2006	BQL	BQL	BQL	BQL	BQL	BQL
UST45/S941-MW17	UST45-MW17	4/7/2006	BQL	BQL	BQL	BQL	BQL	BQL
UST45/S941-MW18	UST45-MW18	4/6/2006	BQL	BQL	BQL	BQL	BQL	BQL
UST45/S941-MW19	UST45-MW19	4/6/2006	BQL	BQL	BQL	BQL	BQL	BQL
UST45/S941-MW20	UST45-MW20	4/6/2006	BQL	BQL	BQL	BQL	BQL	BQL
UST45/S941-MW21	UST45-MW21	4/6/2006	BQL	BQL	BQL	BQL	BQL	BQL
UST45/S941-PW01R	UST45-PW01R	4/6/2006	BQL	BQL	BQL	BQL	BQL	BQL
2L Standard (µg/l)			1	70	550	200	1,000	530
GCL (µg/l)			5,000	70,000	84,500	200,000	257,500	87,500

- All results reported in µg/l
- µg/L - micrograms per liter
- GCL = gross contamination level
- BQL = Below Quantitation Limits
- BOLD and shaded = detected concentration above applicable standard

LEGEND

EXISTING	DESCRIPTION
	BUILDING
	TYPE I MONITORING WELL (EXISTING)
	TYPE II MONITORING WELL (EXISTING)
	TYPE II MONITORING WELL (ABANDONED)
	TYPE II MONITORING WELL (COULD NOT BE LOCATED)
	TYPE III MONITORING WELL (EXISTING)
	TYPE III MONITORING WELL (COULD NOT BE LOCATED)
	RECOVERY WELL
	RECOVERY WELL (ABANDONED)
	SVE/AIR SPARGE WELL CLUSTER
	SOIL VAPOR EXTRACTION LINE NO.1
	SOIL VAPOR EXTRACTION LINE NO.2
	AIR SPARGE COMPRESSED AIR LINE
	SVE/AIR SPARGE WELL CLUSTER (ABANDONED)
	SOIL VAPOR EXTRACTION LINE NO.1 (ABANDONED)
	SOIL VAPOR EXTRACTION LINE NO.2 (ABANDONED)
	AIR SPARGE COMPRESSED AIR LINE (ABANDONED)
	FENCE
	POWER LINE
	UNDERGROUND POWER LINE
	TELEPHONE LINE
	WATER LINE
	LIGHT POLE
PP	POWER POLE
	TREE LINE

1. LOCATIONS OF ABANDONED AND NOT LOCATED WELLS ARE APPROXIMATE.
2. LOCATION OF IR84-MW-19 IS APPROXIMATE.
3. BASE MAP ADAPTED FROM INFORMATION OBTAINED FROM JA JONES MONITORING REPORTS AND DRAWING PROVIDED BY BAKER ENVIRONMENTAL, INC.
4. EXISTING WELL LOCATIONS SURVEYED BY CATLIN PERSONNEL ON MAY 10, 2004 BY USE OF A GPS DEVICE WITH SUBMETER ACCURACY.
5. LOCATION OF UST45/S941-PW01R, UST45/S941-MW02R, UST45/S941-MW03R, AND UST45/S941-MW21 ARE APPROXIMATE.

80 40 0 80
SCALE IN FEET

SOVEREIGN CONSULTING INC.
NEWPORT NEWS, VIRGINIA

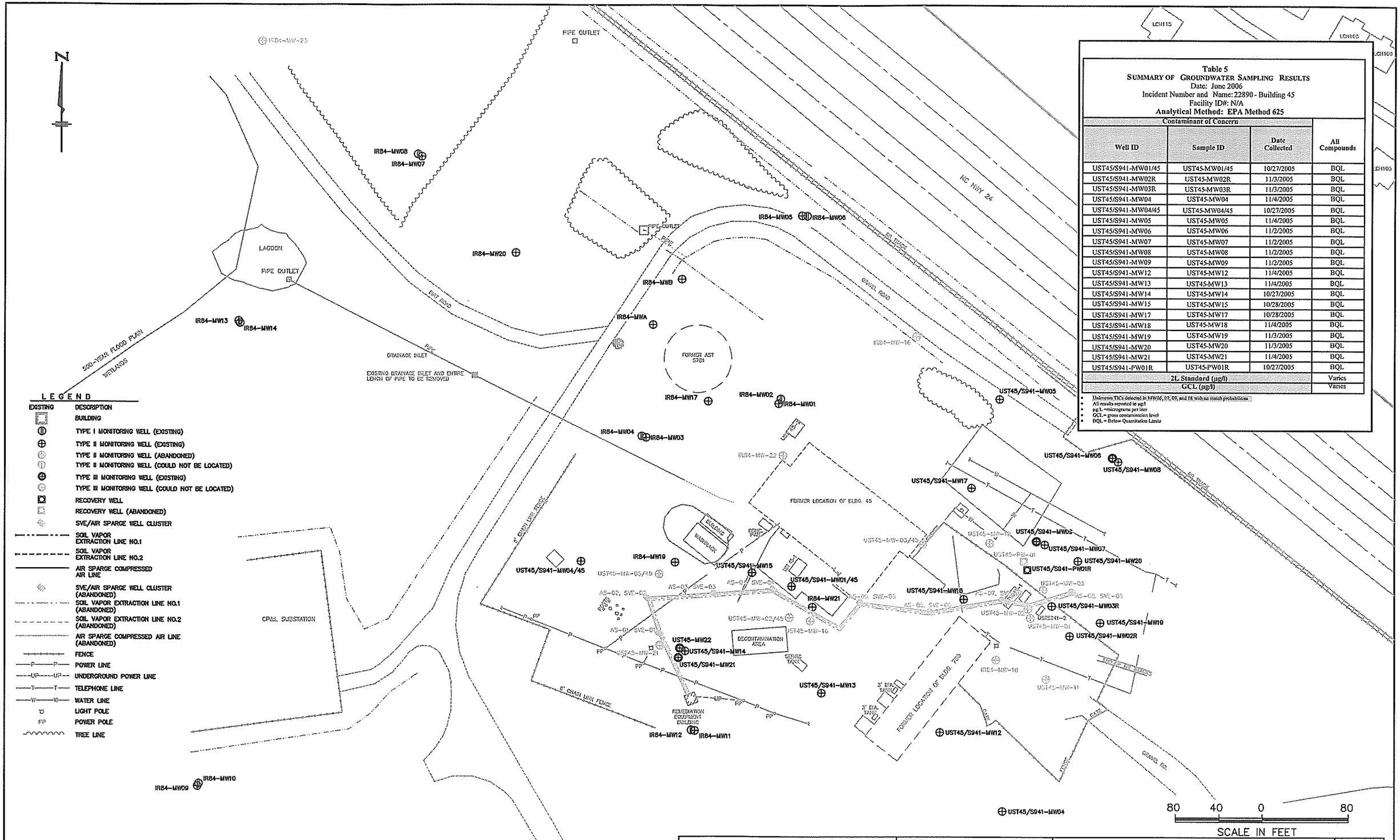
PROJECT: BUILDING 45
MARINE CORPS BASE
CAMP LEJEUNE, N.C.

TITLE: SITE MAP WITH APRIL 2006 GROUNDWATER RESULTS - EPA METHOD 602

FIGURE: 7

JOB NO. 206-063 | DATE: JUNE 2006 | SCALE: 1"=80' | DRAWN BY: LCJ | CHECKED BY: MEM

206063-BLDG45-07



LEGEND

EXISTING	DESCRIPTION
	BUILDING
	TYPE I MONITORING WELL (EXISTING)
	TYPE II MONITORING WELL (EXISTING)
	TYPE II MONITORING WELL (ABANDONED)
	TYPE II MONITORING WELL (COULD NOT BE LOCATED)
	TYPE III MONITORING WELL (EXISTING)
	TYPE III MONITORING WELL (COULD NOT BE LOCATED)
	RECOVERY WELL
	RECOVERY WELL (ABANDONED)
	SVE/AIR SPARGE WELL CLUSTER
	SOIL VAPOR EXTRACTION LINE NO.1
	SOIL VAPOR EXTRACTION LINE NO.2
	AIR SPARGE COMPRESSED AIR LINE
	SVE/AIR SPARGE WELL CLUSTER (ABANDONED)
	SOIL VAPOR EXTRACTION LINE NO.1 (ABANDONED)
	SOIL VAPOR EXTRACTION LINE NO.2 (ABANDONED)
	AIR SPARGE COMPRESSED AIR LINE (ABANDONED)
	FENCE
P	POWER LINE
UP	UNDERGROUND POWER LINE
T	TELEPHONE LINE
W	WATER LINE
	LIGHT POLE
PP	POWER POLE
	TREE LINE

Table 5
SUMMARY OF GROUNDWATER SAMPLING RESULTS
Date: June 2006
Incident Number and Name: 22890 - Building 45
Facility ID#: N/A
Analytical Method: EPA Method 625

Contaminant of Concern			
Well ID	Sample ID	Date Collected	All Compounds
UST45/S941-MW01/45	UST45-MW01/45	10/27/2005	BQL
UST45/S941-MW02R	UST45-MW02R	11/3/2005	BQL
UST45/S941-MW03R	UST45-MW03R	11/3/2005	BQL
UST45/S941-MW04	UST45-MW04	11/4/2005	BQL
UST45/S941-MW04/45	UST45-MW04/45	10/27/2005	BQL
UST45/S941-MW05	UST45-MW05	11/4/2005	BQL
UST45/S941-MW06	UST45-MW06	11/2/2005	BQL
UST45/S941-MW07	UST45-MW07	11/2/2005	BQL
UST45/S941-MW08	UST45-MW08	11/2/2005	BQL
UST45/S941-MW09	UST45-MW09	11/2/2005	BQL
UST45/S941-MW12	UST45-MW12	11/4/2005	BQL
UST45/S941-MW13	UST45-MW13	11/4/2005	BQL
UST45/S941-MW14	UST45-MW14	10/27/2005	BQL
UST45/S941-MW15	UST45-MW15	10/28/2005	BQL
UST45/S941-MW17	UST45-MW17	10/28/2005	BQL
UST45/S941-MW18	UST45-MW18	11/4/2005	BQL
UST45/S941-MW19	UST45-MW19	11/3/2005	BQL
UST45/S941-MW20	UST45-MW20	11/3/2005	BQL
UST45/S941-MW21	UST45-MW21	11/4/2005	BQL
UST45/S941-PW01R	UST45-PW01R	10/27/2005	BQL
2L Standard (µg/l)			Varies
GCL (µg/l)			Varies

- Unknown TICs detected in MW06, 07, 09, and 18 with no match probabilities
- All results reported in µg/l
- µg/L =micrograms per liter
- GCL = gross contamination level
- BQL = Below Quantitation Limits

1. LOCATIONS OF ABANDONED AND NOT LOCATED WELLS ARE APPROXIMATE.
2. LOCATION OF IR84-MW-19 IS APPROXIMATE.
3. BASE MAP ADAPTED FROM INFORMATION OBTAINED FROM JA JONES MONITORING REPORTS AND DRAWING PROVIDED BY BAKER ENVIRONMENTAL, INC.
4. EXISTING WELL LOCATIONS SURVEYED BY CATLIN PERSONNEL ON MAY 10, 2004 BY USE OF A GPS DEVICE WITH SUBMETER ACCURACY.
5. LOCATION OF UST45/S941-PW01R, UST45/S941-MW02R, UST45/S941-MW03R, AND UST45/S941-MW21 ARE APPROXIMATE.

SOVEREIGN CONSULTING INC.
NEWPORT NEWS, VIRGINIA

PROJECT	TITLE	FIGURE
BUILDING 45 MARINE CORPS BASE CAMP LEJEUNE, N.C.	SITE MAP WITH OCT/NOV 2005 GROUNDWATER RESULTS – EPA METHOD 625	8

JOB NO.	DATE	SCALE	DRAWN BY:	CHECKED BY:
206-063	JUNE 2006	1"=80'	LCJ	MEM

206063-BLDG45-08

N

LEGEND

EXISTING	DESCRIPTION
	BUILDING
	TYPE I MONITORING WELL (EXISTING)
	TYPE II MONITORING WELL (EXISTING)
	TYPE II MONITORING WELL (ABANDONED)
	TYPE II MONITORING WELL (COULD NOT BE LOCATED)
	TYPE III MONITORING WELL (EXISTING)
	TYPE III MONITORING WELL (COULD NOT BE LOCATED)
	RECOVERY WELL
	RECOVERY WELL (ABANDONED)
	SVE/AIR SPARGE WELL CLUSTER
	SOIL VAPOR EXTRACTION LINE NO.1
	SOIL VAPOR EXTRACTION LINE NO.2
	AIR SPARGE COMPRESSED AIR LINE
	SVE/AIR SPARGE WELL CLUSTER (ABANDONED)
	SOIL VAPOR EXTRACTION LINE NO.1 (ABANDONED)
	SOIL VAPOR EXTRACTION LINE NO.2 (ABANDONED)
	AIR SPARGE COMPRESSED AIR LINE (ABANDONED)
	FENCE
	POWER LINE
	UNDERGROUND POWER LINE
	TELEPHONE LINE
	WATER LINE
	LIGHT POLE
PP	POWER POLE
	TREE LINE

1. LOCATIONS OF ABANDONED AND NOT LOCATED WELLS ARE APPROXIMATE.
2. LOCATION OF IR84-MW-19 IS APPROXIMATE.
3. BASE MAP ADAPTED FROM INFORMATION OBTAINED FROM JA JONES MONITORING REPORTS AND DRAWING PROVIDED BY BAKER ENVIRONMENTAL, INC.
4. EXISTING WELL LOCATIONS SURVEYED BY CATLIN PERSONNEL ON MAY 10, 2004 BY USE OF A GPS DEVICE WITH SUBMETER ACCURACY.
5. LOCATION OF UST45/S941-PW01R, UST45/S941-MW02R, UST45/S941-MW03R, AND UST45/S941-MW21 ARE APPROXIMATE.

Table 5
SUMMARY OF GROUNDWATER SAMPLING RESULTS
Date: June 2006
Incident Number and Name: 22890 - Building 45
Facility ID#: N/A
Analytical Method: EPA Method 625

Contaminant of Concern			
Well ID	Sample ID	Date Collected	All Compounds
UST45/S941-MW01/45	UST45-MW01/45	4/6/2006	BQL
UST45/S941-MW02R	UST45-MW02R	4/7/2006	BQL
UST45/S941-MW03R	UST45-MW03R	4/6/2006	BQL
UST45/S941-MW04	UST45-MW04	4/6/2006	BQL
UST45/S941-MW04/45	UST45-MW04/45	4/6/2006	BQL
UST45/S941-MW05	UST45-MW05	4/6/2006	BQL
UST45/S941-MW06	UST45-MW06	4/7/2006	BQL
UST45/S941-MW07	UST45-MW07	4/10/2006	BQL
UST45/S941-MW08	UST45-MW08	4/6/2006	BQL
UST45/S941-MW09	UST45-MW09	4/6/2006	BQL
UST45/S941-MW12	UST45-MW12	4/6/2006	BQL
UST45/S941-MW13	UST45-MW13	4/6/2006	BQL
UST45/S941-MW14	UST45-MW14	4/6/2006	BQL
UST45/S941-MW15	UST45-MW15	4/6/2006	BQL
UST45/S941-MW17	UST45-MW17	4/6/2006	BQL
UST45/S941-MW18	UST45-MW18	4/7/2006	BQL
UST45/S941-MW19	UST45-MW19	4/6/2006	BQL
UST45/S941-MW20	UST45-MW20	4/6/2006	BQL
UST45/S941-MW21	UST45-MW21	4/6/2006	BQL
UST45/S941-PW01R	UST45-PW01R	4/6/2006	BQL
2L Standard (µg/l)			Varies
GCL (µg/l)			Varies

- Unknown TICs detected in MW06, 07, 09, and 18 with no match probabilities
- All results reported in µg/l
- µg/L =micrograms per liter
- GCL = gross contamination level
- BQL = Below Quantitation Limits

80 40 0 80
SCALE IN FEET

SOVEREIGN CONSULTING INC. NEWPORT NEWS, VIRGINIA	PROJECT: BUILDING 45 MARINE CORPS BASE CAMP LEJEUNE, N.C.	TITLE: SITE MAP WITH APRIL 2006 GROUNDWATER RESULTS – EPA METHOD 625			FIGURE 9
	JOB NO. 206-063	DATE: JUNE 2006	SCALE: 1"=80'	DRAWN BY: LCJ	CHECKED BY: MEM

206063-BLDG45-09

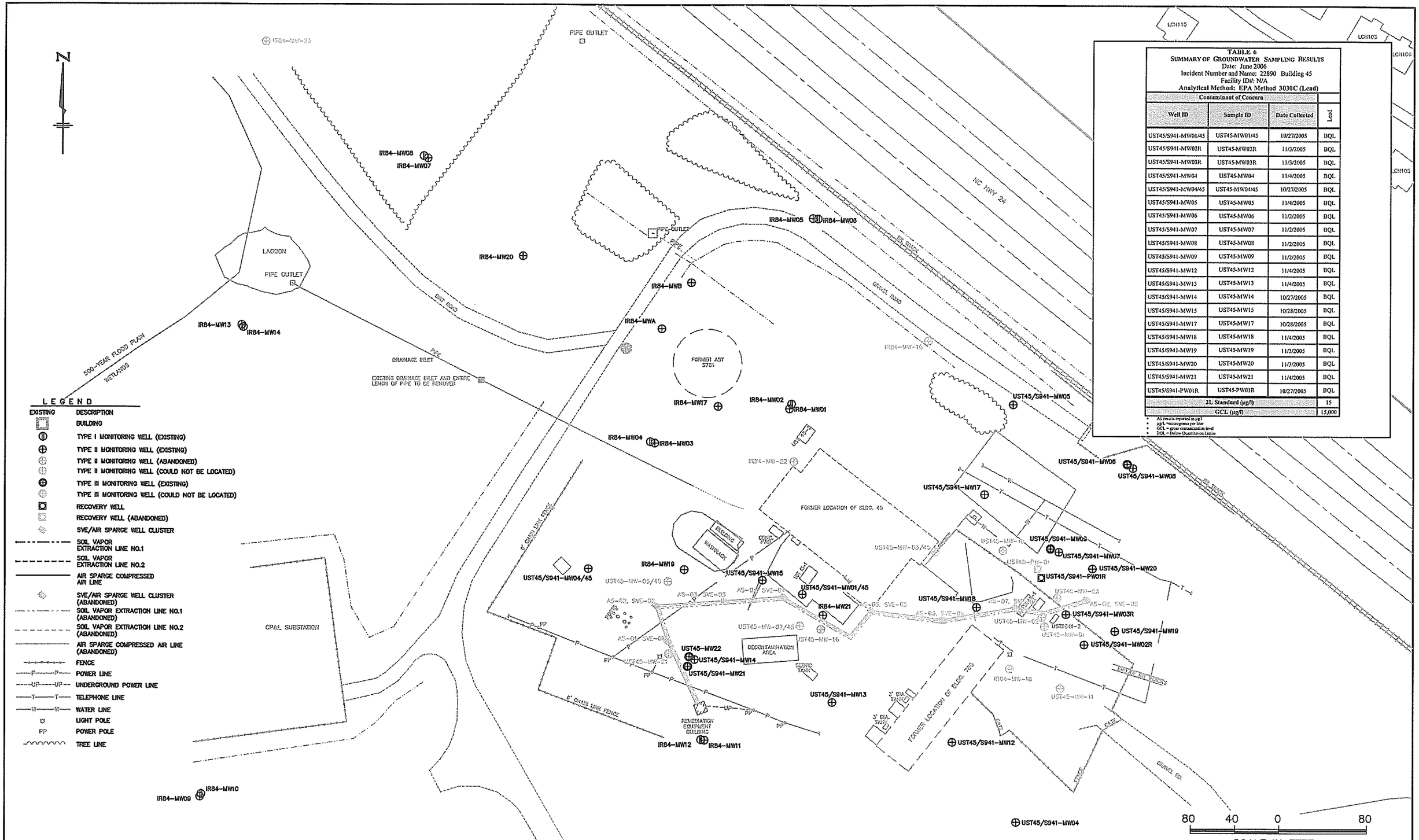


TABLE 6
SUMMARY OF GROUNDWATER SAMPLING RESULTS
Date: June 2006
Incident Number and Name: 22890 Building 45
Facility ID#: N/A
Analytical Method: EPA Method 3030C (Lead)

			Contaminant of Concern
Well ID	Sample ID	Date Collected	Lead
UST45/S941-MW01/45	UST45-MW01/45	10/27/2005	BQL
UST45/S941-MW02R	UST45-MW02R	11/3/2005	BQL
UST45/S941-MW03R	UST45-MW03R	11/3/2005	BQL
UST45/S941-MW04	UST45-MW04	11/4/2005	BQL
UST45/S941-MW04/45	UST45-MW04/45	10/27/2005	BQL
UST45/S941-MW05	UST45-MW05	11/4/2005	BQL
UST45/S941-MW06	UST45-MW06	11/2/2005	BQL
UST45/S941-MW07	UST45-MW07	11/2/2005	BQL
UST45/S941-MW08	UST45-MW08	11/2/2005	BQL
UST45/S941-MW09	UST45-MW09	11/2/2005	BQL
UST45/S941-MW12	UST45-MW12	11/4/2005	BQL
UST45/S941-MW13	UST45-MW13	11/4/2005	BQL
UST45/S941-MW14	UST45-MW14	10/27/2005	BQL
UST45/S941-MW15	UST45-MW15	10/28/2005	BQL
UST45/S941-MW17	UST45-MW17	10/28/2005	BQL
UST45/S941-MW18	UST45-MW18	11/4/2005	BQL
UST45/S941-MW19	UST45-MW19	11/3/2005	BQL
UST45/S941-MW20	UST45-MW20	11/3/2005	BQL
UST45/S941-MW21	UST45-MW21	11/4/2005	BQL
UST45/S941-PW01R	UST45-PW01R	10/27/2005	BQL
2L Standard (µg/l)			15
GCL (µg/l)			15,000

- All result is reported in µg/l
- µg/L =microgress per liter
- GCL = gross contamination level
- BQL = Below Quantitation Limits

LEGEND

EXISTING	DESCRIPTION
	BUILDING
	TYPE I MONITORING WELL (EXISTING)
	TYPE II MONITORING WELL (EXISTING)
	TYPE II MONITORING WELL (ABANDONED)
	TYPE II MONITORING WELL (COULD NOT BE LOCATED)
	TYPE III MONITORING WELL (EXISTING)
	TYPE III MONITORING WELL (COULD NOT BE LOCATED)
	RECOVERY WELL
	RECOVERY WELL (ABANDONED)
	SVE/AIR SPARGE WELL CLUSTER
	SOIL VAPOR EXTRACTION LINE NO.1
	SOIL VAPOR EXTRACTION LINE NO.2
	AIR SPARGE COMPRESSED AIR LINE
	SVE/AIR SPARGE WELL CLUSTER (ABANDONED)
	SOIL VAPOR EXTRACTION LINE NO.1 (ABANDONED)
	SOIL VAPOR EXTRACTION LINE NO.2 (ABANDONED)
	AIR SPARGE COMPRESSED AIR LINE (ABANDONED)
	FENCE
	POWER LINE
	UNDERGROUND POWER LINE
	TELEPHONE LINE
	WATER LINE
	LIGHT POLE
	POWER POLE
	TREE LINE

1. LOCATIONS OF ABANDONED AND NOT LOCATED WELLS ARE APPROXIMATE.
2. LOCATION OF IR84-MW-19 IS APPROXIMATE.
3. BASE MAP ADAPTED FROM INFORMATION OBTAINED FROM JA JONES MONITORING REPORTS AND DRAWING PROVIDED BY BAKER ENVIRONMENTAL, INC.
4. EXISTING WELL LOCATIONS SURVEYED BY CATLIN PERSONNEL ON MAY 10, 2004 BY USE OF A GPS DEVICE WITH SUBMETER ACCURACY.
5. LOCATION OF UST45/S941-PW01R, UST45/S941-MW02R, UST45/S941-MW03R, AND UST45/S941-MW21 ARE APPROXIMATE.

SOVEREIGN CONSULTING INC.
NEWPORT NEWS, VIRGINIA

PROJECT: BUILDING 45
MARINE CORPS BASE
CAMP LEJEUNE, N.C.

TITLE: SITE MAP WITH OCT/NOV 2005 GROUNDWATER RESULTS – EPA METHOD 3030C

FIGURE 10

JOB NO. 206-063 | DATE: JUNE 2006 | SCALE: 1"=80' | DRAWN BY: LCJ | CHECKED BY: MEM

206063-BLDG45-10

N

LEGEND

EXISTING	DESCRIPTION
	BUILDING
	TYPE I MONITORING WELL (EXISTING)
	TYPE II MONITORING WELL (EXISTING)
	TYPE II MONITORING WELL (ABANDONED)
	TYPE II MONITORING WELL (COULD NOT BE LOCATED)
	TYPE III MONITORING WELL (EXISTING)
	TYPE III MONITORING WELL (COULD NOT BE LOCATED)
	RECOVERY WELL
	RECOVERY WELL (ABANDONED)
	SVE/AIR SPARGE WELL CLUSTER
	SOIL VAPOR EXTRACTION LINE NO.1
	SOIL VAPOR EXTRACTION LINE NO.2
	AIR SPARGE COMPRESSED AIR LINE
	SVE/AIR SPARGE WELL CLUSTER (ABANDONED)
	SOIL VAPOR EXTRACTION LINE NO.1 (ABANDONED)
	SOIL VAPOR EXTRACTION LINE NO.2 (ABANDONED)
	AIR SPARGE COMPRESSED AIR LINE (ABANDONED)
	FENCE
	POWER LINE
	UNDERGROUND POWER LINE
	TELEPHONE LINE
	WATER LINE
	LIGHT POLE
	POWER POLE
	TREE LINE

1. LOCATIONS OF ABANDONED AND NOT LOCATED WELLS ARE APPROXIMATE.
2. LOCATION OF IR84-MW-19 IS APPROXIMATE.
3. BASE MAP ADAPTED FROM INFORMATION OBTAINED FROM JA JONES MONITORING REPORTS AND DRAWING PROVIDED BY BAKER ENVIRONMENTAL, INC.
4. EXISTING WELL LOCATIONS SURVEYED BY CATLIN PERSONNEL ON MAY 10, 2004 BY USE OF A GPS DEVICE WITH SUBMETER ACCURACY.
5. LOCATION OF UST45/S941-PW01R, UST45/S941-MW02R, UST45/S941-MW03R, AND UST45/S941-MW21 ARE APPROXIMATE.

TABLE 6
SUMMARY OF GROUNDWATER SAMPLING RESULTS
Date: June 2006
Incident Number and Name: 22890 Building 45
Facility ID#: N/A
Analytical Method: EPA Method 3030C (Lead)

Contaminant of Concern			
Well ID	Sample ID	Date Collected	Lead
UST45/S941-MW01/45	UST45-MW01/45	4/6/2006	BQL
UST45/S941-MW02R	UST45-MW02R	4/7/2006	BQL
UST45/S941-MW03R	UST45-MW03R	4/6/2006	BQL
UST45/S941-MW04	UST45-MW04	4/6/2006	BQL
UST45/S941- MW04/45	UST45-MW04/45	4/6/2006	BQL
UST45/S941-MW05	UST45-MW05	4/6/2006	BQL
UST45/S941-MW06	UST45-MW06	4/7/2006	BQL
UST45/S941-MW07	UST45-MW07	4/10/2006	BQL
UST45/S941-MW08	UST45-MW08	4/7/2006	BQL
UST45/S941-MW09	UST45-MW09	4/6/2006	BQL
UST45/S941-MW12	UST45-MW12	4/6/2006	BQL
UST45/S941-MW13	UST45-MW13	4/6/2006	BQL
UST45/S941-MW14	UST45-MW14	4/6/2006	BQL
UST45/S941-MW15	UST45-MW15	4/6/2006	BQL
UST45/S941-MW17	UST45-MW17	4/6/2006	BQL
UST45/S941-MW18	UST45-MW18	4/7/2006	BQL
UST45/S941-MW19	UST45-MW19	4/6/2006	BQL
UST45/S941-MW20	UST45-MW20	4/6/2006	BQL
UST45/S941-MW21	UST45-MW21	4/6/2006	BQL
UST45/S941-PW01R	UST45-PW01R	4/6/2006	BQL
2L Standard (µg/l)			15
GCL (µg/l)			15,000

- All results reported in µg/l
- µg/L =micrograms per liter
- GCL = gross contamination level
- BQL = Below Quantitation Limits

80 40 0 80
SCALE IN FEET

SOVEREIGN CONSULTING INC. NEWPORT NEWS, VIRGINIA	PROJECT: BUILDING 45 MARINE CORPS BASE CAMP LEJEUNE, N.C.	TITLE: SITE MAP WITH APRIL 2006 GROUNDWATER RESULTS – EPA METHOD 3030C			FIGURE 11
	JOB NO. 206-063	DATE: JUNE 2006	SCALE: 1"=80'	DRAWN BY: LCJ	CHECKED BY: MEM

206063-BLDG45-11

APPENDIX A

HISTORICAL SOIL AND GROUNDWATER DATA AND FIGURES

TABLES

TABLE 3-1
Monitoring Well Construction Summary
Building 45 Site

Well Identification	Date Installed	Inner Casing Diameter (inches)	Outer Casing Diameter (inches)	Elevations[1] Ground Surface (feet MSL)	Elevations[1] Top of Casing (feet MSL)	Outer Casing Depth (feet BGS)	Total Well Depth (feet BGS)	Total Well Depth (feet BTOC)	Filter Pack Depth Interval (feet BGS) From	Filter Pack Depth Interval (feet BGS) To	Seal Depth Interval (feet BGS) From	Seal Depth Interval (feet BGS) To	Screened Interval Length (feet)	Screened Interval Depth (feet BGS) From	Screened Interval Depth (feet BGS) To	Screened Interval Elevation (feet MSL) From	Screened Interval Elevation (feet MSL) To	Formation Screened	Hydrogeologic Zone
MW1	08/26/91	InD	NA	12.2	11.69	NA	15.0	14.5	1.5	15.0	1.0	1.5	12.5	2.5	15.0	9.7	-2.8	Silty f-SAND, f-m SAND, f Sandy CLAY below 12 feet bgs	Shallow
MW2	08/26/91	InD	NA	11.3	10.84	NA	15.0	14.5	1.5	15.0	1.0	1.5	12.5	2.5	15.0	8.8	-3.7	Silty f-m SAND, f-m SAND, CLAY with trace Sand below 12 feet bgs	Shallow
MW3	08/26/91	InD	NA	9.0	11.02	NA	20.0	22.0	2.0	20.0	1.0	2.0	17.0	3.0	20.0	6.0	-11.0	Silty SAND, f-m SAND	Shallow
MW4	12/09/92	2	NA	12.8	14.83	NA	21.5	23.5	4.0	21.5	2.5	4.0	15.0	6.0	21.0	6.8	-8.2	Clayey f SAND, f-m SAND, Silty f SAND, Clayey SAND	Shallow
MW5	12/11/92	2	NA	7.7	9.73	NA	20.0	22.0	3.5	20.0	2.0	3.5	15.0	4.5	19.5	3.2	-11.8	Silty f-m SAND, with CLAY at 14.5 feet bgs to 16.5 feet bgs	Shallow
MW6	12/11/92	2	6	8.7	10.71	34.5	50.5	52.5	43.0	50.5	37.0	43.0	5.0	45.0	50.0	-36.3	-41.3	f-m SAND	Deep
MW7	12/11/92	2	NA	8.0	10.00	NA	23.5	25.5	2.0	23.5	1.5	2.0	20.0	3.0	23.0	5.0	-15.0	Silty f-m SAND, CLAY (8.5 feet bgs to 18.5 feet bgs), Sandy SILT	Shallow
MW8	12/11/92	2	NA	8.7	10.73	NA	19.5	21.5	3.0	19.5	2.0	3.0	15.0	4.0	19.0	4.7	-10.3	f-m SAND, Sandy CLAY below 13.5 feet bgs	Shallow
MW9	12/14/92	2	6	8.3	10.27	35.0	50.5	52.5	43.0	50.5	35.0	43.0	5.0	45.0	50.0	-36.7	-41.7	f SAND	Deep
MW10	12/14/92	2	NA	9.5	11.49	NA	18.5	20.5	2.0	18.5	1.0	2.0	15.0	3.0	18.0	6.5	-8.5	Silty f SAND, f-m SAND, slightly Sandy CLAY at 18.5 feet bgs	Shallow
MW11	1993	InD	NA	InD	InD	NA	15.5	15.0	InD	15.5	InD	InD	10.0	5.5	15.5	InD	InD	InD	Shallow
MW12	11/18/93	2	NA	InD	InD	NA	16.5	16.0	InD	16.5	InD	InD	10.0	6.5	16.5	InD	InD	InD	Shallow
MW13	1993	2	NA	InD	8.32	NA	InD	InD	InD	InD	InD	InD	InD	InD	InD	InD	InD	InD	Shallow
MW14	1993	2	NA	InD	7.32	NA	InD	InD	InD	InD	InD	InD	InD	InD	InD	InD	InD	InD	Shallow
MW15	12/22/93	2	NA	8.8	8.26	NA	16.4	15.9	4.5	16.4	2.5	4.5	10.0	6.0	16.0	2.8	-7.2	InD	Shallow
MW16	1993	InD	NA	9.3	8.77	NA	16.0	15.5	InD	16.0	InD	InD	10.0	6.0	16.0	3.3	-6.7	InD	Shallow
MW17	12/21/93	2	NA	9.5	8.95	NA	15.0	14.5	InD	15.0	InD	InD	10.0	5.0	15.0	4.5	-5.6	InD	Shallow
MW18	12/22/93	2	NA	11.3	10.80	NA	16.5	16.0	InD	16.5	InD	InD	10.0	6.0	16.0	5.3	-4.7	InD	Shallow
MW19	12/01/93	2	NA	9.9	11.85	NA	14.5	16.5	InD	14.5	InD	InD	10.0	4.5	14.5	5.4	-4.6	InD	Shallow
MW20	12/01/93	2	NA	9.1	10.64	NA	13.5	15.0	InD	13.5	InD	InD	10.0	3.5	13.5	5.6	-4.4	InD	Shallow
MW21	01/05/94	2	InD	7.6	7.13	InD	50.5	50.0	InD	50.5	InD	InD	5.0	45.5	50.5	-37.9	-42.9	InD	Deep
MW22	1994	InD	InD	InD	InD	InD	50.7	InD	InD	50.7	InD	InD	5.0	45.7	50.7	InD	InD	InD	Deep
MW23	02/23/05	2	NA	11.5	11.07	NA	15.0	14.6	2.7	15.0	1.2	2.7	10.0	4.7	14.7	6.8	-3.2	f-m SAND with little Silt, f SAND and SILT	Shallow
MW24	02/23/05	2	NA	9.3	12.17	NA	15.0	17.9	2.7	15.0	1.2	2.7	10.0	4.7	14.7	4.6	-5.4	f-m SAND with little Silt, f SAND and SILT	Shallow
PW1	12/15/92	6	NA	8.1	10.08	NA	23.5	25.5	2.0	23.5	1.0	2.0	20.0	3.0	23.0	5.1	-14.9	slightly Clayey f SAND, f SAND, Sandy CLAY to Silty f Sandy CLAY	Shallow
PW2	02/23/05	2	NA	9.4	12.14	NA	15.0	17.7	2.7	15.0	1.2	2.7	10.0	4.7	14.7	4.7	-5.3	f-m SAND with little Silt, f SAND and SILT	Shallow
MW1/45	06/21/94	4	NA	9.1	11.43	NA	17.4	19.7	5.0	17.4	3.0	5.0	10.0	7.1	17.1	2.0	-8.0	Clayey SILT, f SAND, Silty f SAND	Shallow
MW2/45	06/21/94	4	NA	InD	InD	NA	19.0	18.7	5.0	19.0	3.0	5.0	10.0	8.7	18.7	InD	InD	Silty vf SAND	Shallow
MW3/45	06/21/94	4	NA	InD	InD	NA	17.3	16.8	5.0	17.3	3.0	5.0	10.0	7.0	17.0	InD	InD	vf SAND and SILT, f SAND	Shallow
MW4/45	06/21/94	4	NA	InD	InD	NA	19.0	21.4	7.0	19.0	3.0	7.0	9.0	8.7	17.7	InD	InD	vf-f SAND, m-c SAND	Shallow
MW5/45	06/21/94	4	NA	InD	InD	NA	19.2	19.0	5.0	19.2	3.0	5.0	10.0	8.9	18.9	InD	InD	vf SAND with some Clay, Silty m-c SAND	Shallow

[1] Top of Casing elevations expresed in feet/above/below mean sea level; ground surface elevations (and all associated BGS depths) estimtated

MSL - mean sea level
BGS - below ground surface
BTOC - below top of casing

NA: Not applicablle
InD: Insufficient data or data unavailable

f - fine
m - medium
c - coarse
v - very

TABLE 3-2 (page 1 of 5)
Groundwater Elevation Data Over Time
Building 45 Site

Location	Top of Casing Elevation[1]	Screen Zone	Groundwater Elevation (feet MSL)																							
			7/6/1998	7/16/1998	7/22/1998	8/11/1998	9/21/1998	10/14/1998	11/2/1998	12/8/1998	1/14/1999	2/8/1999	3/19/1999	4/9/1999	4/9/1999	4/13/1999	4/22/1999	4/22/1999	5/11/1999	5/11/1999	6/22/1999	6/22/1999	6/29/1999	6/29/1999	7/12/1999	7/19/1999
MW2	10.84	Shallow	4.87	4.43	4.11	5.03	6.06	4.77	4.43	3.64	4.73	5.73	5.58	5.48	NM	4.70	5.06	2.60	5.49	4.99	4.99	2.31	4.30	2.12	3.27	3.58
MW3	11.02	Shallow	4.75	4.29	3.69	4.11	5.52	4.70	4.00	3.14	4.18	5.38	5.35	3.91	0.78	4.06	NM	1.10	5.12	1.98	4.29	0.20	3.95	0.00	3.21	3.28
MW4	14.83	Shallow	5.88	5.19	0.03	5.50	8.42	9.94	5.91	4.79	6.65	8.08	7.27	7.52	7.51	7.25	6.97	6.96	7.61	7.61	6.45	6.48	5.97	5.96	5.02	4.83
MW5	9.73	Shallow	0.38	-0.09	-0.07	0.38	2.06	1.05	0.50	-0.26	0.67	1.68	1.24	1.06	1.05	0.95	0.94	0.92	1.58	1.57	1.08	1.08	0.76	0.76	0.28	-0.08
MW6	10.71	Deep	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
MW7	10.00	Shallow	4.77	4.35	4.28	4.65	5.85	4.80	4.46	3.85	4.93	5.80	5.63	5.47	4.78	-7.92	5.28	3.41	5.42	3.12	4.92	2.96	4.34	2.42	3.60	3.69
MW8	10.73	Shallow	4.50	4.07	4.10	4.28	5.77	5.06	4.51	4.32	5.15	5.78	5.55	5.16	5.14	4.77	4.10	5.03	5.53	5.50	5.29	5.23	4.70	4.69	4.16	4.43
MW9	10.27	Deep	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
MW10	11.49	Shallow	3.68	3.29	3.16	3.62	4.89	3.93	3.48	2.59	3.70	4.69	4.50	4.44	4.04	-6.98	4.06	2.57	4.50	3.29	3.88	2.45	3.36	2.21	2.76	2.66
MW12	InD	Shallow	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW13	8.32	Shallow	NM	1.83	1.84	1.51	3.08	2.72	1.89	-0.51	2.83	3.50	3.53	3.59	3.60	2.88	2.45	2.34	2.45	2.47	1.77	1.50	1.59	1.56	1.28	1.15
MW14	7.32	Shallow	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
MW15	8.26	Shallow	-0.04	-0.79	-0.50	-0.74	NM	-0.03	-0.10	-1.38	-0.88	0.02	0.29	-0.45	-0.41	-0.92	-0.06	-0.38	-0.06	-0.39	NM	NM	NM	NM	NM	NM
MW16	8.77	Shallow	NM	0.33	0.58	0.26	1.79	1.41	1.13	0.42	0.39	1.94	2.89	2.27	2.35	2.02	2.03	2.02	2.02	2.02	1.20	1.11	1.63	1.66	1.26	0.89
MW17	8.95	Shallow	NM	1.62	1.94	NM	3.22	2.40	1.94	1.06	2.00	2.76	3.77	2.63	2.63	2.37	2.27	2.25	2.72	2.70	2.05	2.04	1.81	1.84	1.50	1.48
MW18	10.80	Shallow	2.94	2.42	2.89	2.50	4.29	3.37	2.92	NM	2.64	3.88	3.90	3.99	3.70	3.72	3.60	3.25	3.89	3.56	2.73	2.27	2.88	2.65	2.31	NM
MW19	11.85	Shallow	5.70	5.14	5.14	5.71	7.18	6.22	5.51	4.93	6.36	7.11	6.73	6.72	6.66	5.95	6.25	6.06	6.71	6.50	6.16	5.91	5.58	5.35	4.72	4.77
MW20	10.64	Shallow	5.11	4.70	4.63	5.05	6.46	5.31	4.78	4.24	5.54	6.20	6.06	5.89	5.86	-4.96	5.32	3.88	5.91	4.33	5.47	4.05	4.86	3.50	4.02	4.17
MW21	7.13	Deep	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
MW22	InD	Deep	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW23	11.07	Shallow	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW24	12.17	Shallow	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
PW1	10.08	Shallow	NM	4.09	4.02	4.46	5.65	4.85	4.21	4.53	4.52	5.49	5.16	5.17	4.19	-15.26	4.77	1.05	4.89	2.03	3.85	0.53	3.51	-0.23	2.32	2.51
PW2	12.14	Shallow	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW1/45	11.43	Shallow	0.62	0.02	0.19	0.00	1.09	0.65	0.47	-0.27	-0.19	1.13	1.31	0.94	5.54	0.57	1.04	0.99	0.92	0.92	0.21	0.11	1.29	1.30	0.22	0.24
MW3/45	InD	Shallow	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC

Top of casing elevation expressed in feet above/below MSL
MSL: mean sea level
Groundwater elevations corrected for free product as needed by adding (0.8 x product thickness) to uncorrected groundwater elevation

ABD: Abandoned; well abandonded at time of measurement
INA: Inaccessible; well inaccessible at time of measurement (under water, surrounded by water, or covered by soil)
NC: Insufficient data to calcuate groundwater elevation or product thickness
NF: Not Found; well could not be found

NI: Not Installed; well not installed at the time of measurement
NL: Not Listed; well not listed in source document
NM: Not Measured; well not measured, reason not stated

TABLE 3-2 (page 2 of 5)
Groundwater Elevation Data Over Time
Building 45 Site

Location	Top of Casing Elevation[1]	Screen Zone	Groundwater Elevation (feet MSL)																						
			7/19/1999	7/27/1999	7/27/1999	8/18/1999	8/18/1999	8/26/1999	8/26/1999	9/2/1999	9/2/1999	10/12/1999	11/22/1999	1/26/2000	3/16/2000	4/7/2000	5/16/2000	6/15/2000	6/16/2000	6/19/2000	7/18/2000	7/19/2000	8/31/2000	8/31/2000	9/11/2000
MW2	10.84	Shallow	1.52	3.46	1.11	2.63	0.90	2.51	0.84	4.12	1.54	5.31	4.75	5.65	5.25	4.82	5.47	3.72	3.83	0.93	2.23	0.51	6.40	1.88	6.02
MW3	11.02	Shallow	1.48	3.05	0.10	2.28	-0.79	2.18	-0.59	3.67	0.48	4.36	4.87	NM	4.87	4.11	5.12	3.77	3.51	-0.11	1.77	-1.76	6.42	0.76	5.75
MW4	14.83	Shallow	4.80	4.52	4.48	3.75	3.73	3.73	3.63	5.67	5.68	6.00	8.63	7.83	7.12	8.19	7.25	5.21	5.03	5.01	3.68	3.65	7.10	7.14	7.99
MW5	9.73	Shallow	0.40	0.32	0.32	-0.40	-0.40	-0.27	-0.29	0.83	0.83	1.29	2.16	1.05	0.95	1.90	1.69	0.52	0.40	0.33	-0.51	-0.52	2.55	2.58	2.98
MW6	10.71	Deep	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
MW7	10.00	Shallow	2.76	3.56	1.95	2.69	1.41	2.60	1.30	4.12	2.30	5.47	5.40	NM	5.04	4.79	5.25	4.02	3.77	1.38	2.49	0.95	6.89	2.99	6.04
MW8	10.73	Shallow	4.34	4.35	4.31	3.48	3.46	3.63	3.62	4.92	4.88	5.83	5.58	5.99	5.12	4.80	5.22	4.33	4.09	4.06	3.20	3.10	6.55	6.48	6.13
MW9	10.27	Deep	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
MW10	11.49	Shallow	2.04	2.53	1.57	1.76	1.03	1.64	0.83	4.09	2.94	5.55	5.36	7.19	4.00	3.77	4.46	3.06	2.83	1.52	1.45	1.49	7.33	6.63	6.10
MW12	InD	Shallow	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW13	8.32	Shallow	1.11	1.01	1.00	0.53	0.43	0.47	0.47	1.57	1.57	3.52	1.90	1.32	1.90	1.70	2.85	1.70	1.57	1.52	0.50	0.35	NM	NM	3.59
MW14	7.32	Shallow	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
MW15	8.26	Shallow	NM	-0.98	NM	-1.00	-0.97	NM	NM	NM	NM	0.45	NM	NM	0.00	-0.93	0.70	-0.53	-0.84	-0.97	-2.08	-2.01	1.10	-0.68	0.95
MW16	8.77	Shallow	0.89	0.72	0.70	0.47	-0.57	0.27	0.37	1.49	1.48	NM	NM	NM	1.25	0.86	2.25	1.27	1.08	1.11	0.03	-0.63	NM	NM	NM
MW17	8.95	Shallow	1.35	1.37	1.25	0.66	0.65	0.75	0.69	2.17	2.05	NM	NM	NM	2.21	2.26	3.20	1.80	1.60	1.51	0.70	0.50	5.02	4.98	4.84
MW18	10.80	Shallow	NM	3.20	1.84	NM	NM	NM	NM	NM	NM	NM	NM	NM	3.74	3.29	4.30	3.01	2.60	2.14	1.30	0.77	4.55	4.10	5.17
MW19	11.85	Shallow	4.58	4.54	4.35	3.70	3.59	3.71	3.54	5.21	4.98	7.36	7.22	7.74	6.43	6.22	6.29	5.07	4.80	4.47	3.64	3.40	7.59	7.05	7.22
MW20	10.64	Shallow	3.43	4.03	2.88	3.14	2.28	3.15	2.21	4.59	3.33	6.13	6.04	NM	5.52	5.33	5.55	4.43	4.19	2.61	3.39	1.93	7.14	4.64	6.46
MW21	7.13	Deep	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
MW22	InD	Deep	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW23	11.07	Shallow	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW24	12.17	Shallow	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
PW1	10.08	Shallow	1.08	2.53	-0.68	1.58	-0.97	0.99	-1.18	2.70	-0.58	4.16	4.12	NM	4.43	4.01	4.77	3.45	3.22	-0.51	1.38	-0.87	6.18	-0.22	4.66
PW2	12.14	Shallow	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW1/45	11.43	Shallow	0.30	0.14	0.14	-0.15	-0.15	-0.14	-0.14	1.82	1.81	1.86	1.20	-0.47	0.62	-0.08	1.36	0.30	0.09	0.10	-1.12	-1.12	1.28	1.28	1.98
MW3/45	InD	Shallow	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC

Top of casing elevation expressed in feet above/below MSL
MSL: mean sea level
Groundwater elevations corrected for free product as needed by adding (0.8 x product thickness) to uncorrected groundwater elevation

ABD: Abandoned; well abandoned at time of measurement
INA: Inaccessible; well inaccessible at time of measurement (under water, surrounded by water, or covered by soil)
NC: Insufficient data to calcuate groundwater elevation or product thickness
NF: Not Found; well could not be found

NI: Not Installed; well not installed at the time of measurement
NL: Not Listed; well not listed in source document
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TABLE 3-2 (page 3 of 5)
Groundwater Elevation Data Over Time
Building 45 Site

Location	Top of Casing Elevation[1]	Screen Zone	10/11/2000	11/13/2000	11/20/2000	12/5/2000	12/21/2000	12/21/2000	1/18/2001	1/18/2001	1/31/2001	2/20/2001	3/1/2001	3/1/2001	3/20/2001	4/16/2001	4/26/2001	4/26/2001	5/9/2001	5/9/2001	5/30/2001	5/30/2001	6/14/2001	6/14/2001	6/20/2001
MW2	10.84	Shallow	5.11	4.82	4.64	6.43	5.90	3.02	5.10	2.48	4.60	5.24	5.64	2.98	5.55	5.08	4.96	1.59	4.18	2.81	3.59	1.08	4.03	1.02	4.53
MW3	11.02	Shallow	4.65	4.26	4.72	6.58	5.66	0.90	5.12	-1.91	4.30	5.08	5.19	1.99	5.32	4.60	4.87	-2.28	3.76	-2.58	3.19	-3.68	3.61	-3.14	4.14
MW4	14.83	Shallow	8.61	6.79	6.59	8.99	8.79	8.86	7.80	7.79	7.41	7.67	7.88	7.91	8.20	7.29	NM	NM	NM	NM	5.67	5.68	5.46	5.48	6.41
MW5	9.73	Shallow	2.67	1.10	1.24	2.59	2.58	2.60	1.71	1.71	1.10	1.70	1.92	1.92	2.02	1.72	1.75	1.78	1.10	1.10	0.89	0.89	0.85	0.95	1.70
MW6	10.71	Deep	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
MW7	10.00	Shallow	5.28	4.53	5.05	7.11	6.02	3.98	5.49	2.97	4.98	5.45	5.93	3.88	5.72	5.34	5.27	3.02	4.18	1.64	3.66	1.57	4.15	2.02	4.93
MW8	10.73	Shallow	5.64	4.84	5.68	6.67	5.83	5.89	5.72	5.70	5.28	5.73	5.98	5.96	5.77	5.28	5.67	5.68	4.55	4.51	4.92	4.94	4.88	4.98	5.24
MW9	10.27	Deep	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
MW10	11.49	Shallow	4.24	3.51	3.56	7.26	5.04	4.10	4.06	2.87	3.56	4.12	4.47	4.23	4.61	4.37	4.19	NM	4.22	2.03	2.57	1.51	3.76	2.44	4.36
MW12	InD	Shallow	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW13	8.32	Shallow	3.28	2.11	1.86	NM	3.32	3.27	2.22	2.24	-4.76	2.10	2.20	2.20	2.72	2.94	3.07	2.52	3.02	2.05	1.57	1.49	NM	NM	2.10
MW14	7.32	Shallow	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
MW15	8.26	Shallow	3.22	-0.29	-0.27	1.18	0.43	0.07	-0.44	-0.70	-0.20	-0.56	-0.49	-0.89	0.24	-0.38	-0.04	-0.30	-0.36	-0.76	-0.41	-1.01	-0.16	-0.54	0.30
MW16	8.77	Shallow	2.59	2.01	1.98	NM	2.57	2.61	2.02	1.93	1.77	2.08	2.10	1.99	2.34	1.43	1.85	1.52	1.82	1.71	1.43	1.35	1.16	1.44	1.43
MW17	8.95	Shallow	4.02	2.18	2.11	5.09	3.78	3.80	2.41	2.38	2.00	2.30	2.53	2.57	3.01	3.19	2.70	2.65	2.03	2.02	1.47	1.47	2.10	2.13	3.20
MW18	10.80	Shallow	4.50	3.75	3.47	5.26	4.90	4.87	3.87	3.28	3.36	3.80	4.01	3.47	4.38	4.23	4.10	3.53	3.44	2.84	2.82	2.25	3.20	2.40	3.68
MW19	11.85	Shallow	6.93	5.90	6.65	8.40	7.52	7.16	7.07	6.13	6.67	6.94	7.47	7.00	7.17	6.82	6.87	6.39	5.74	5.30	5.31	4.98	5.27	4.92	6.05
MW20	10.64	Shallow	5.72	5.02	5.69	7.54	6.50	4.93	6.10	4.16	-4.38	5.99	6.60	4.92	6.23	5.79	5.81	4.14	4.78	2.82	4.33	2.84	4.64	3.09	5.38
MW21	7.13	Deep	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
MW22	InD	Deep	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW23	11.07	Shallow	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW24	12.17	Shallow	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
PW1	10.08	Shallow	3.53	3.65	3.88	6.12	5.17	2.34	4.66	1.08	4.15	4.75	5.18	2.51	5.07	4.36	4.53	0.28	2.80	-0.62	2.38	-0.91	3.05	0.12	3.87
PW2	12.14	Shallow	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW1/45	11.43	Shallow	1.48	0.65	0.42	1.75	1.29	1.39	0.37	0.36	-0.06	0.30	0.28	0.33	0.79	0.73	1.31	0.93	0.33	0.37	0.03	0.03	-0.16	-0.21	0.28
MW3/45	InD	Shallow	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC

Top of casing elevation expressed in feet above/below MSL
MSL: mean sea level
Groundwater elevations corrected for free product as needed by adding (0.8 x product thickness) to uncorrected groundwater elevation

ABD: Abandoned; well abandonded at time of measurement
INA: Inaccessible; well inaccessible at time of measurement (under water, surrounded by water, or covered by soil)
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TABLE 3-2 (page 4 of 5)
Groundwater Elevation Data Over Time
Building 45 Site

Location	Top of Casing Elevation[(1)]	Screen Zone	6/26/2001	6/26/2001	7/17/2001	8/9/2001	8/16/2001	8/16/2001	8/29/2001	8/29/2001	9/10/2001	10/3/2001	10/3/2001	10/16/2001	10/30/2001	10/30/2001	11/5/2001	11/27/2001	11/27/2001	12/3/2001	12/13/2001	12/13/2001	1/16/2002	2/19/2002	3/21/2002
MW2	10.84	Shallow	4.32	1.92	3.75	2.94	2.95	0.36	2.58	1.34	3.81	2.57	2.19	2.05	1.92	2.24	1.44	1.26	0.34	1.00	0.96	0.29	1.04	2.78	4.40
MW3	11.02	Shallow	4.85	-3.11	3.28	2.62	2.62	-5.67	2.39	1.05	3.70	2.22	-4.80	1.46	1.62	-5.63	1.15	1.09	-3.29	0.95	1.01	-4.52	0.71	2.71	4.31
MW4	14.83	Shallow	6.43	6.43	5.20	4.27	NM	NM	NM	NM	3.87	3.39	3.39	3.12	2.85	2.82	2.71	2.46	2.46	2.41	NM	NM	3.63	3.41	5.46
MW5	9.73	Shallow	1.91	1.91	1.06	0.65	0.49	0.48	NM	0.09	0.63	-0.17	-0.22	1.30	-0.94	-0.95	-1.23	-1.42	-1.42	-1.55	NM	NM	-1.37	-0.12	0.95
MW6	10.71	Deep	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
MW7	10.00	Shallow	5.86	3.35	3.86	3.27	2.93	1.35	2.80	1.93	4.54	2.72	1.22	1.99	2.02	0.84	1.67	1.45	0.70	1.30	1.26	0.60	1.25	2.90	4.47
MW8	10.73	Shallow	5.13	5.58	4.26	3.98	4.03	3.99	3.85	3.83	4.66	3.28	3.26	2.76	2.62	2.60	2.31	2.13	2.13	2.02	NM	NM	2.08	3.41	4.66
MW9	10.27	Deep	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
MW10	11.49	Shallow	6.95	6.26	3.04	2.23	2.33	1.40	1.89	1.31	6.01	1.84	0.99	1.11	1.02	0.25	0.48	0.34	-0.07	0.20	0.12	-0.27	0.04	1.86	3.64
MW12	InD	Shallow	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW13	8.32	Shallow	NM	NM	1.74	1.00	NM	NM	NM	NM	0.82	NM	NM	-0.17	NM	NM	-0.62	-0.91	-0.88	-1.00	NM	NM	-1.64	2.69	1.40
MW14	7.32	Shallow	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
MW15	8.26	Shallow	0.38	-0.13	-0.18	-0.79	NM	NM	-0.75	-1.10	-0.82	NM	NM	-2.47	NM	NM	-2.99	-3.06	-2.99	-3.42	NM	NM	-4.12	-2.19	-0.34
MW16	8.77	Shallow	1.77	1.95	1.35	0.81	NM	NM	0.76	0.75	0.62	NM	NM	-0.53	NM	NM	-1.68	-1.68	-1.46	-1.76	NM	NM	-2.65	2.03	0.32
MW17	8.95	Shallow	5.00	4.63	2.17	1.46	1.32	1.28	0.85	0.80	3.31	0.75	0.65	-1.81	-0.12	-0.15	-0.39	-0.77	-0.75	-0.87	-0.95	-0.99	-0.89	0.54	2.17
MW18	10.80	Shallow	4.24	3.70	3.05	1.87	2.37	1.95	2.55	1.57	2.55	1.58	0.95	1.45	0.89	0.22	0.35	0.27	0.11	0.15	0.13	-0.26	-0.41	1.31	3.18
MW19	11.85	Shallow	6.54	6.01	4.96	4.32	4.06	3.79	3.81	3.57	4.59	3.54	3.33	3.16	2.89	2.80	2.70	2.35	2.31	2.31	2.21	2.12	2.36	3.63	5.31
MW20	10.64	Shallow	6.11	3.99	4.29	3.74	3.47	2.15	3.21	2.59	4.59	3.08	1.94	2.52	2.39	1.48	2.08	1.83	1.29	1.70	1.66	1.14	1.82	3.39	4.81
MW21	7.13	Deep	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
MW22	InD	Deep	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW23	11.07	Shallow	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW24	12.17	Shallow	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
PW1	10.08	Shallow	4.98	1.88	2.89	2.28	2.28	-0.38	2.01	0.60	4.07	2.04	-0.03	1.40	1.49	-0.65	1.09	0.87	-0.26	0.78	0.70	-0.47	0.85	2.47	4.08
PW2	12.14	Shallow	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW1/45	11.43	Shallow	0.33	0.70	0.48	-0.28	NM	NM	-0.45	-0.12	-0.16	NM	NM	-1.41	NM	NM	-1.87	-1.61	-1.53	-1.95	NM	NM	-2.77	-1.08	0.14
MW3/45	InD	Shallow	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC

Top of casing elevation expressed in feet above/below MSL
MSL: mean sea level
Groundwater elevations corrected for free product as needed by adding (0.8 x product thickness) to uncorrected groundwater elevation

ABD: Abandoned; well abandonded at time of measurement
INA: Inaccessible; well inaccessible at time of measurement (under water, surrounded by water, or covered by soil)
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TABLE 3-2 (page 5 of 5)
Groundwater Elevation Data Over Time
Building 45 Site

Location	Top of Casing Elevation[1]	Screen Zone	4/17/2002	5/15/2002	7/17/2002	9/29/2003	12/23/2003	1/15/2004	2/9/2004	3/8/2004	4/6/2004	5/3/2004	6/11/2004	7/14/2004	8/14/2004	9/13/2004	10/5/2004	12/20/2004	1/6/2005	2/1/2005	3/3/2005	4/22/2005	5/26/2005	6/14/2005	7/27/2005	8/4/2005
MW2	10.84	Shallow	3.57	3.33	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD
MW3	11.02	Shallow	3.48	3.22	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD
MW4	14.83	Shallow	5.25	4.27	3.67	NM	9.95	8.67	8.63	9.29	8.01	9.35	6.46	5.33	6.90	12.23	8.55	5.58	5.73	6.30	6.86	7.72	7.93	7.03	6.51	5.91
MW5	9.73	Shallow	0.28	0.18	0.89	NM	3.48	2.34	2.26	3.47	1.68	2.68	1.59	1.43	2.71	3.98	3.09	0.60	0.56	0.83	2.21	1.73	2.78	1.60	2.31	1.77
MW6	10.71	Deep	NL	NL	NL	NM	-5.19	-6.06	-6.51	-3.94	-6.86	-6.02	-6.74	-6.98	-6.55	-5.27	-5.72	-7.33	-7.31	-7.04	-6.91	-6.39	-6.48	-6.97	-6.75	-6.90
MW7	10.00	Shallow	3.60	3.42	4.68	NM	7.72	5.87	5.88	6.89	5.22	INA	5.17	5.00	6.48	7.62	6.08	4.13	4.28	4.70	5.10	5.34	5.99	5.20	5.43	4.82
MW8	10.73	Shallow	3.97	3.83	4.12	3.27	6.41	5.69	5.64	6.05	4.97	7.27	5.19	4.98	6.10	6.40	5.88	4.43	4.60	5.13	5.23	5.18	5.88	5.13	5.37	4.89
MW9	10.27	Deep	NL	NL	NL	-6.95	-5.13	-6.08	-6.59	-5.72	-6.93	INA	-6.78	-6.99	-6.59	-5.31	-5.74	-7.38	-7.38	-7.12	-6.93	-6.43	-6.53	-6.58	-6.76	-6.93
MW10	11.49	Shallow	2.46	2.34	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD
MW12	InD	Shallow	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW13	8.32	Shallow	0.97	0.81	0.61	3.60	4.74	2.97	2.68	4.00	2.74	INA	INA	NM	INA	4.28	3.66	1.77	1.55	1.92	1.91	2.51	2.72	2.57	2.57	2.64
MW14	7.32	Shallow	NL	NL	NL	-1.50	-0.04	-1.20	-1.79	-0.61	-1.38	-0.79	-1.91	-4.18	-1.31	0.10	-0.63	-6.11	-6.30	-5.75	-5.58	-1.48	-0.94	-1.28	-1.29	-1.43
MW15	8.26	Shallow	-1.61	-1.01	-0.08	-0.21	0.88	0.38	-0.37	0.84	-0.57	INA	-0.66	-1.31	-0.59	0.86	0.74	-1.72	-1.76	-2.42	-1.89	-0.62	-0.22	-0.97	0.22	-0.71
MW16	8.77	Shallow	-0.24	0.19	-0.12	1.24	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD
MW17	8.95	Shallow	1.25	1.06	3.47	4.33	5.46	3.44	3.45	5.16	3.05	5.57	3.05	3.15	4.54	5.70	4.30	1.62	1.60	1.94	2.70	2.90	4.15	3.22	3.45	2.73
MW18	10.80	Shallow	2.10	2.10	3.19	5.05	6.52	4.65	4.51	6.15	4.22	5.48	4.15	3.50	4.47	6.58	5.38	2.48	2.40	2.66	3.20	4.11	4.88	4.30	4.45	3.80
MW19	11.85	Shallow	4.86	4.31	4.49	7.22	8.94	7.54	7.49	8.39	6.77	8.90	6.25	5.77	7.17	8.71	7.34	5.53	5.65	6.25	6.60	6.80	7.33	6.48	6.44	5.90
MW20	10.64	Shallow	4.17	3.78	4.69	6.59	8.13	6.44	6.48	7.38	5.81	INA	5.63	5.35	6.92	8.37	6.51	4.69	4.89	5.41	5.78	5.91	6.54	5.77	5.87	5.31
MW21	7.13	Deep	NL	NL	NL	NM	-5.39	-6.79	-6.90	-6.05	-7.07	-6.50	-7.15	-7.46	-6.87	-5.30	-5.88	-7.77	-7.79	-7.37	-7.39	-6.81	-6.63	-7.00	-6.97	-7.14
MW22	InD	Deep	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
MW23	11.07	Shallow	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	4.74	5.37	6.06	5.37	5.44	4.83
MW24	12.17	Shallow	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	4.85	5.39	6.07	5.37	5.47	4.86
PW1	10.08	Shallow	2.15	2.94	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD
PW2	12.14	Shallow	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	4.64	5.08	5.84	5.11	5.14	4.54
MW1/45	11.43	Shallow	-0.48	0.27	0.11	0.73	2.06	0.97	0.51	1.18	0.90	1.33	0.63	-2.42	0.41	1.95	1.03	-0.77	-1.07	-0.75	-1.09	0.38	0.93	0.91	0.96	0.70
MW3/45	InD	Shallow	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC

[1] Top of casing elevation expressed in feet above/below MSL
MSL: mean sea level
Groundwater elevations corrected for free product as needed by adding (0.8 x product thickness) to uncorrected groundwater elevation

ABD: Abandoned; well abandonded at time of measurement
INA: Inaccessible; well inaccessible at time of measurement (under water, surrounded by water, or covered by soil)
NC: Insufficient data to calcuate groundwater elevation or product thickness
NF: Not Found; well could not be found

NI: Not Installed; well not installed at the time of measurement
NL: Not Listed; well not listed in source document
NM: Not Measured; well not measured, reason not stated

TABLE 3-3
Horizontal Hydraulic Gradients and Average Linear Velocities
Building 45 Site

Zone	Shallow					Shallow					Averages for Date	
Well Pair	MW4 to MW13					MW7 to MW17						
Horizontal Distance (feet)	199					84						
Date Measured	Groundwater Elevation (feet MSL) MW4	MW13	Flow Direction	Horizontal Gradient *i*	Linear Velocity (feet/day)	Groundwater Elevation (feet MSL) MW7	MW17	Flow Direction	Horizontal Gradient *i*	Linear Velocity (feet/day)	Horizontal Gradient *i*	Average Linear Velocity (feet/day)
9/29/2003	NM	3.60				NM	4.33					
12/23/2003	9.95	4.74	NW	0.0262	0.194	7.72	5.46	NW	0.0269	0.199	0.0265	0.196
1/15/2004	8.67	2.97	NW	0.0286	0.212	5.87	3.44	NW	0.0289	0.214	0.0288	0.213
2/9/2004	8.63	2.68	NW	0.0299	0.221	5.88	3.45	NW	0.0289	0.214	0.0294	0.218
3/8/2004	9.29	4.00	NW	0.0266	0.197	6.89	5.16	NW	0.0206	0.152	0.0236	0.175
4/6/2004	8.01	2.74	NW	0.0265	0.196	5.22	3.05	NW	0.0258	0.191	0.0262	0.194
5/3/2004	9.35	INA				INA	5.57					
6/11/2004	6.46	INA				5.17	3.05	NW	0.0252	0.187	0.0252	0.187
7/14/2004	5.33	NM				5.00	3.15	NW	0.0220	0.163	0.0220	0.163
8/14/2004	6.90	INA				6.48	4.54	NW	0.0231	0.171	0.0231	0.171
9/13/2004	12.23	4.28	NW	0.0399	0.296	7.62	5.70	NW	0.0229	0.169	0.0314	0.232
10/5/2004	8.55	3.66	NW	0.0246	0.182	6.08	4.30	NW	0.0212	0.157	0.0229	0.169
12/20/2004	5.58	1.77	NW	0.0191	0.142	4.13	1.62	NW	0.0299	0.221	0.0245	0.181
1/6/2005	5.73	1.55	NW	0.0210	0.155	4.28	1.60	NW	0.0319	0.236	0.0265	0.196
2/1/2005	6.30	1.92	NW	0.0220	0.163	4.70	1.94	NW	0.0329	0.243	0.0274	0.203
3/3/2005	6.86	1.91	NW	0.0249	0.184	5.10	2.70	NW	0.0286	0.211	0.0267	0.198
4/22/2005	7.72	2.51	NW	0.0262	0.194	5.34	2.90	NW	0.0290	0.215	0.0276	0.204
5/26/2005	7.93	2.72	NW	0.0262	0.194	5.99	4.15	NW	0.0219	0.162	0.0240	0.178
6/14/2005	7.03	2.57	NW	0.0224	0.166	5.20	3.22	NW	0.0236	0.174	0.0230	0.170
7/27/2005	6.51	2.57	NW	0.0198	0.147	5.43	3.45	NW	0.0236	0.174	0.0217	0.160
8/4/2005	5.91	2.64	NW	0.0164	0.122	4.82	2.73	NW	0.0249	0.184	0.0207	0.153
Pair Average				0.0250	0.185				0.0259	0.192		

Shallow Zone Average Horizontal Gradient: 0.0255 (dimensionless)

Shallow Zone Average Linear Velocity: 0.189 foot/day

Horizontal hydraulic conductivity, shallow zone (K_{H_SHA} 1.48 feet/day

Effective porosity,shallow zone (n_{e_SHAL}): 0.20 (dimensionless)

Horizontal hydraulic conductivity, intermediate zone (K_{H_INT}):

Effective porosity,intermediate zone (n_{e_INT}):

MSL - mean sea level

Blank entries indicate there are insufficient gauging data for to calculate horiztonal gradient

INA: Inaccessible; well inaccessible at time of measurement

Average linear velocity = $K_H\ i\ /\ n_e$; assumes homogeneous isotropic porous aquifer

veers: 11/28/2005
Bld45_Welldata.xls

TABLE 3-4
Vertical Hydraulic Gradients
Building 45 Site

Well Pair	MW7	to	MW9	MW8	to	MW6	
Zone	Shallow	|	Deep	Shallow	|	Deep	
Screen Midpoint Distance (feet)	34.2			36.0			
Date Measured	Groundwater Elevation (feet MSL) MW7	MW9	Vertical Gradient *i*	Groundwater Elevation (feet MSL) MW8	MW6	Vertical Gradient *i*	Average for Date *i*
9/29/2003	NM	-6.95		3.27	NM		
12/23/2003	7.72	-5.13	0.375	6.41	-5.19	0.322	0.349
1/15/2004	5.87	-6.08	0.349	5.69	-6.06	0.326	0.338
2/9/2004	5.88	-6.59	0.364	5.64	-6.51	0.337	0.351
3/8/2004	6.89	-5.72	0.368	6.05	-3.94	0.277	0.323
4/6/2004	5.22	-6.93	0.355	4.97	-6.86	0.328	0.342
5/3/2004	INA	INA		7.27	-6.02	0.369	0.369
6/11/2004	5.17	-6.78	0.349	5.19	-6.74	0.331	0.340
7/14/2004	5.00	-6.99	0.350	4.98	-6.98	0.332	0.341
8/14/2004	6.48	-6.59	0.382	6.10	-6.55	0.351	0.367
9/13/2004	7.62	-5.31	0.378	6.40	-5.27	0.324	0.351
10/5/2004	6.08	-5.74	0.345	5.88	-5.72	0.322	0.334
12/20/2004	4.13	-7.38	0.336	4.43	-7.33	0.326	0.331
1/6/2005	4.28	-7.38	0.341	4.60	-7.31	0.331	0.336
2/1/2005	4.70	-7.12	0.345	5.13	-7.04	0.338	0.342
3/3/2005	5.10	-6.93	0.351	5.23	-6.91	0.337	0.344
4/22/2005	5.34	-6.43	0.344	5.18	-6.39	0.321	0.333
5/26/2005	5.99	-6.53	0.366	5.88	-6.48	0.343	0.354
6/14/2005	5.20	-6.58	0.344	5.13	-6.97	0.336	0.340
7/27/2005	5.43	-6.76	0.356	5.37	-6.75	0.336	0.346
8/4/2005	4.82	-6.93	0.343	4.89	-6.90	0.327	0.335
Pair Average			0.355			0.331	
Shallow to Deep Average			0.343	(dimensionless)			

Blank entries indicate there are insufficient gauging data for to calculate vertical gradient

MSL - mean sea level

INA: Inaccessible; well inaccessible at time of measurement

NC: Insufficient data to calculate groundwater elevation (e.g., top of casing elvevation datum not availa

Table 4-1 (Page 1 of 8)

Volatile and Semi-Volatile Organic Compounds Detected in Groundwater - Building 45

September 2003

Marine Corps Base Camp Lejeune, North Carolina

Sample Location / Date Sampled	NCGWQS	MW8 09/29/03	MW9 09/29/03	MW13 09/30/03	MW14 09/30/03	MW15 09/30/03	MW16 09/30/03	MW17 09/29/03
VOCs (ug/L) / Method		EPA 602	EPA 602	EPA 602	EPA 602	EPA 602	EPA 602	EPA 602
Benzene	1	<1.0	**16.6**	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	620	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	29	<1.0	**0.72 J**	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes (total)	530	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Methyl Tert Butyl Ether	200	<1.0	**15.2**	<1.0	<1.0	<1.0	<1.0	<1.0
Total BTEX		ND	**17.32**	ND	ND	ND	ND	ND
PAHs (ug/L) / Method		EPA 610	EPA 610	EPA 610	EPA 610	EPA 610	EPA 610	EPA 610
Acenaphthene	80	<5.1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Acenaphthylene	210	<5.1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Anthracene	2100	<5.1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bis(2-Ethylhexyl)phthalate	3	NR	NR	NR	NR	NR	NR	NR
Fluorene	280	<5.1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1-Methylnaphthalene	RL	<5.1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Methylnaphthalene	14	<5.1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Naphthalene	21	<5.1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Phenanthrene	210	<5.1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Pyrene	210	<5.1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0

Sample Location / Date Sampled	NCGWQS	MW18 09/30/03	MW19 09/30/03	MW20 09/30/03	MW1/45 09/30/03	MW1/45 Duplicate 09/30/03	MW4/45 09/30/03
VOCs (ug/L) / Method		EPA 602	EPA 602	EPA 602	EPA 602	EPA 602	EPA 602
Benzene	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	620	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	29	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes (total)	530	<3.0	<3.0	<3.0	<3.0	<1.0	<3.0
Methyl Tert Butyl Ether	200	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0
Total BTEX	0	ND	ND	ND	ND	ND	ND
PAHs (ug/L) / Method	0	EPA 610	EPA 610	EPA 610	EPA 610	EPA 610	EPA 610
Acenaphthene	80	<5.1	<5.0	<5.0	<5.0	<5.1	<5.1
Acenaphthylene	210	<5.1	<5.0	<5.0	<5.0	<5.1	<5.1
Anthracene	2100	<5.1	<5.0	<5.0	<5.0	<5.1	<5.1
Bis(2-Ethylhexyl)phthalate	3	NR	NR	NR	NR	NR	NR
Fluorene	280	<5.1	<5.0	<5.0	<5.0	<5.1	NR
1-Methylnaphthalene	RL	<5.1	<5.0	<5.0	<5.0	<5.1	<5.1
2-Methylnaphthalene	14	<5.1	<5.0	<5.0	<5.0	<5.1	<5.1
Naphthalene	21	<5.1	<5.0	<5.0	<5.0	<5.1	<5.1
Phenanthrene	210	<5.1	<5.0	<5.0	<5.0	<5.1	<5.1
Pyrene	210	<5.1	<5.0	<5.0	<5.0	<5.1	<5.1

NCGWQS: North Carolina Groundwater Quality Standard

RL: Reporting Limit, no NCGWQS established for the consitituent; thereffore, the NCGWQS for the constituent is the reporting limit

Total BTEX: Sum of detected concentrations of benzene, toluene, ethylbenzene, and xylene isomers

ND: None detected; no benzene, toluene, ethylbenzene, or xylene isomers were detected

ug/L: micrograms per liter

<#: not detected at the indicated reporting limit

J: estimated concentration less than reporting limit

Bold type indicates detectable concentrations.

Shaded area indicates detectable concentration above the North Carolina Groundwater Quality Standards

Table 4-1 (Page 2 of 8)

Volatile and Semi-Volatile Organic Compounds Detected in Groundwater - Building 45

December 2003

Marine Corps Base Camp Lejeune, North Carolina

Sample Location / Date Sampled	NCGWQS	MW8 12/12/03	MW9 12/15/03	MW13 12/12/03	MW14 12/15/03	MW15 12/15/03	MW17 12/12/03
VOCs (ug/L) / Method		EPA 602	EPA 602	EPA 602	EPA 602	EPA 602	EPA 602
Benzene	1	<1.0	**16.4**	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	620	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	29	<1.0	**0.78 J**	<1.0	<1.0	<1.0	<1.0
Toluene	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes (total)	530	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Methyl Tert Butyl Ether	200	<1.0	**17.0**	<1.0	<1.0	<1.0	<1.0
Total BTEX		ND	**17.18**	ND	ND	ND	ND
PAHs (ug/L) / Method		EPA 610	EPA 610	EPA 610	EPA 610	EPA 610	EPA 610
Acenaphthene	80	<5.0	<5.0	<5.0	<5.0	<5.0	<5.1
Acenaphthylene	210	<5.0	<5.0	<5.0	<5.0	<5.0	<5.1
Anthracene	2100	<5.0	<5.0	<5.0	<5.0	<5.0	<5.1
Bis(2-Ethylhexyl)phthalate	3	NR	NR	NR	NR	NR	NR
Fluorene	280	<5.0	<5.0	<5.0	<5.0	<5.0	<5.1
1-Methylnaphthalene	RL	<5.0	<5.0	<5.0	<5.0	<5.0	<5.1
2-Methylnaphthalene	14	<5.0	<5.0	<5.0	<5.0	<5.0	<5.1
Naphthalene	21	<5.0	<5.0	<5.0	<5.0	<5.0	<5.1
Phenanthrene	210	<5.0	<5.0	<5.0	<5.0	<5.0	<5.1
Pyrene	210	<5.0	<5.0	<5.0	<5.0	<5.0	<5.1

Sample Location / Date Sampled	NCGWQS	MW18 12/12/03	MW19 12/12/03	MW20 12/15/03	MW1/45 12/15/03	MW4/45 12/15/03	MW4/45 Duplicate 12/15/03
VOCs (ug/L) / Method		EPA 602	EPA 602	EPA 602	EPA 602	EPA 602	EPA 602
Benzene	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	620	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	29	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes (total)	530	<3.0	<3.0	<3.0	<3.0	<3.0	<1.0
Methyl Tert Butyl Ether	200	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0
Total BTEX	0	ND	ND	ND	ND	ND	ND
PAHs (ug/L) / Method	0	EPA 610	EPA 610	EPA 610	EPA 610	EPA 610	EPA 610
Acenaphthene	80	<5.0	<5.3	<5.0	<5.0	<5.1	<5.0
Acenaphthylene	210	<5.0	<5.3	<5.0	<5.0	<5.1	<5.0
Anthracene	2100	<5.0	<5.3	<5.0	<5.0	<5.1	<5.0
Bis(2-Ethylhexyl)phthalate	3	NR	NR	NR	NR	NR	NR
Fluorene	280	<5.0	<5.3	<5.0	<5.0	<5.1	<5.0
1-Methylnaphthalene	RL	<5.0	<5.3	<5.0	<5.0	<5.1	<5.0
2-Methylnaphthalene	14	<5.0	<5.3	<5.0	<5.0	<5.1	<5.0
Naphthalene	21	<5.0	<5.3	<5.0	<5.0	<5.1	<5.0
Phenanthrene	210	<5.0	<5.3	<5.0	<5.0	<5.1	<5.0
Pyrene	210	<5.0	<5.3	<5.0	<5.0	<5.1	<5.0

NCGWQS: North Carolina Groundwater Quality Standard

RL: Reporting Limit, no NCGWQS established for the consituent; thereffore, the NCGWQS for the constituent is the reporting limit

Total BTEX: Sum of detected concentrations of benzene, toluene, ethylbenzene, and xylene isomers

ND: None detected; no benzene, toluene, ethylbenzene, or xylene isomers were detected

ug/L: micrograms per liter

<#: not detected at the indicated reporting limit

J: estimated concentration less than reporting limit

Bold type indicates detectable concentrations.

Shaded area indicates detectable concentration above the North Carolina Groundwater Quality Standards

Table 4-1 (Page 3 of 8)

Volatile and Semi-Volatile Organic Compounds Detected in Groundwater - Building 45

March 2004

Marine Corps Base Camp Lejeune, North Carolina

Sample Location Date Sampled	NCGWQS	MW8 03/08/04	MW9 04/29/04	MW13 03/08/04	MW14 03/09/04	MW15 03/09/04	MW17 03/08/04
VOCs (ug/L) / Method		EPA 602	EPA 602	EPA 602	EPA 602	EPA 602	EPA 602
Benzene	1	<1.0	**12.4**	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	620	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	29	<1.0	**2.0**	<1.0	<1.0	<1.0	<1.0
Toluene	1000	<1.0	**0.57 J**	<1.0	<1.0	<1.0	<1.0
Xylenes (total)	530	<3.0	**3.3**	<3.0	<3.0	<3.0	<3.0
Methyl Tert Butyl Ether	200	<1.0	**22.7**	<1.0	<1.0	<1.0	<1.0
Total BTEX		ND	**18.27**	ND	ND	ND	ND
PAHs (ug/L) / Method		EPA 610	EPA 610	EPA 610	EPA 610	EPA 610	EPA 610
Acenaphthene	80	<5.1	<5.0	<5.1	<5.1	<5.2	<5.0
Acenaphthylene	210	<5.1	<5.0	<5.1	<5.1	<5.2	<5.0
Anthracene	2100	<5.1	<5.0	<5.1	<5.1	<5.2	<5.0
Bis(2-Ethylhexyl)phthalate	3	NR	NR	NR	NR	NR	NR
Fluorene	280	<5.1	<5.0	<5.1	<5.1	<5.2	<5.0
1-Methylnaphthalene	RL	<5.1	<5.0	<5.1	<5.1	<5.2	<5.0
2-Methylnaphthalene	14	<5.1	<5.0	<5.1	<5.1	<5.2	<5.0
Naphthalene	21	<5.1	<5.0	<5.1	<5.1	<5.2	<5.0
Phenanthrene	210	<5.1	<5.0	<5.1	<5.1	<5.2	<5.0
Pyrene	210	<5.1	<5.0	<5.1	<5.1	<5.2	<5.0

Sample Location Date Sampled	NCGWQS	MW18 03/08/04	MW19 03/08/04	MW20 03/08/04	MW1/45 03/09/04	MW1/45 Duplicate 03/09/04	MW4/45 03/09/04
VOCs (ug/L) / Method		EPA 602	EPA 602	EPA 602	EPA 602	EPA 602	EPA 602
Benzene	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	620	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	29	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes (total)	530	<3.0	<3.0	<3.0	<3.0	<1.0	<3.0
Methyl Tert Butyl Ether	200	<1.0	<1.0	<1.0	<1.0	<3.0	<1.0
Total BTEX	0	ND	ND	ND	ND	ND	ND
PAHs (ug/L) / Method	0	EPA 610	EPA 610	EPA 610	EPA 610	EPA 610	EPA 610
Acenaphthene	80	<5.1	<5.1	<5.0	<5.0	<5.0	<5.2
Acenaphthylene	210	<5.1	<5.1	<5.0	<5.0	<5.0	<5.2
Anthracene	2100	<5.1	<5.1	<5.0	<5.0	<5.0	<5.2
Bis(2-Ethylhexyl)phthalate	3	NR	NR	NR	NR	NR	NR
Fluorene	280	<5.1	<5.1	<5.0	<5.0	<5.0	<5.2
1-Methylnaphthalene	RL	<5.1	<5.1	<5.0	<5.0	<5.0	<5.2
2-Methylnaphthalene	14	<5.1	<5.1	<5.0	<5.0	<5.0	<5.2
Naphthalene	21	<5.1	<5.1	<5.0	<5.0	<5.0	<5.2
Phenanthrene	210	<5.1	<5.1	<5.0	<5.0	<5.0	<5.2
Pyrene	210	<5.1	<5.1	<5.0	<5.0	<5.0	<5.2

NCGWQS: North Carolina Groundwater Quality Standard

RL: Reporting Limit, no NCGWQS established for the consitituent; thereffore, the NCGWQS for the constituent is the reporting limit

Total BTEX: Sum of detected concentrations of benzene, toluene, ethylbenzene, and xylene isomers

ND: None detected; no benzene, toluene, ethylbenzene, or xylene isomers were detected

ug/L: micrograms per liter

<#: not detected at the indicated reporting limit

J: estimated concentration less than reporting limit

Bold type indicates detectable concentrations.

Shaded area indicates detectable concentration above the North Carolina Groundwater Quality Standards

Table 4-1 (Page 4 of 8)

Volatile and Semi-Volatile Organic Compounds Detected in Groundwater - Building 45

July 2004

Marine Corps Base Camp Lejeune, North Carolina

Sample Location Date Sampled	NCGWQS	MW7 07/14/04	MW8 07/14/04	MW9 07/14/04	MW9 Duplicate 07/14/04	MW13 07/15/04	MW14 07/15/04	MW15 07/15/04
VOCs (ug/L) / Method		EPA 602	EPA 602	EPA 602	EPA 602	EPA 602	EPA 602	EPA 602
Benzene	1	<1.0	<1.0	**9.1**	**9.3**	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	620	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	29	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes (total)	530	<3.0	<3.0	<3.0	<1.0	<3.0	<3.0	<3.0
Methyl Tert Butyl Ether	200	<1.0	<1.0	**21.7**	**22.0**	<1.0	<1.0	<1.0
Total BTEX		ND	ND	**9.1**	**9.3**	ND	ND	ND
PAHs (ug/L) / Method		EPA 610	EPA 610	EPA 610	EPA 610	EPA 610	EPA 610	EPA 610
Acenaphthene	80	<4.8	<4.9	<4.8	<4.9	<4.8	<4.9	<5.1
Acenaphthylene	210	<4.8	<4.9	<4.8	<4.9	<4.8	<4.9	<5.1
Anthracene	2100	<4.8	<4.9	<4.8	<4.9	<4.8	<4.9	<5.1
Bis(2-Ethylhexyl)phthalate	3	NR	NR	NR	NR	NR	NR	NR
Fluorene	280	NR	<4.9	<4.8	<4.9	<4.8	<4.9	<5.1
1-Methylnaphthalene	RL	<4.8	<4.9	<4.8	<4.9	<4.8	<4.9	<5.1
2-Methylnaphthalene	14	<4.8	<4.9	<4.8	<4.9	<4.8	<4.9	<5.1
Naphthalene	21	<4.8	<4.9	<4.8	<4.9	<4.8	<4.9	<5.1
Phenanthrene	210	<4.8	<4.9	<4.8	<4.9	<4.8	<4.9	<5.1
Pyrene	210	<4.8	<4.9	<4.8	<4.9	<4.8	<4.9	<5.1

Sample Location Date Sampled	NCGWQS	MW17 07/14/04	MW18 07/15/04	MW19 07/15/04	MW20 07/15/04	MW21 07/15/04	MW1/45 07/15/04	MW4/45 07/15/04
VOCs (ug/L) / Method		EPA 602	EPA 602	EPA 602	EPA 602	EPA 602	EPA 602	EPA 602
Benzene	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	620	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	29	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes (total)	530	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Methyl Tert Butyl Ether	200	<1.0	**0.80 J**	<1.0	<1.0	<1.0	<1.0	<1.0
Total BTEX	0	ND	ND	ND	ND	ND	ND	ND
PAHs (ug/L) / Method	0	EPA 610	EPA 610	EPA 610	EPA 610	EPA 610	EPA 610	EPA 610
Acenaphthene	80	<4.8	<4.9	<4.8	<4.8	<5.2	<5.3	<5.0
Acenaphthylene	210	<4.8	<4.9	<4.8	<4.8	<5.2	<5.3	<5.0
Anthracene	2100	<4.8	<4.9	<4.8	<4.8	<5.2	<5.3	<5.0
Bis(2-Ethylhexyl)phthalate	3	NR	NR	NR	NR	NR	NR	NR
Fluorene	280	<4.8	<4.9	<4.8	<4.8	<5.2	<5.3	<5.0
1-Methylnaphthalene	RL	<4.8	<4.9	<4.8	<4.8	<5.2	<5.3	<5.0
2-Methylnaphthalene	14	<4.8	<4.9	<4.8	<4.8	<5.2	<5.3	<5.0
Naphthalene	21	<4.8	<4.9	<4.8	<4.8	<5.2	<5.3	<5.0
Phenanthrene	210	<4.8	<4.9	<4.8	<4.8	<5.2	<5.3	<5.0
Pyrene	210	<4.8	<4.9	<4.8	<4.8	<5.2	<5.3	<5.0

NCGWQS: North Carolina Groundwater Quality Standard

RL: Reporting Limit, no NCGWQS established for the consitituent; thereffore, the NCGWQS for the constituent is the reporting limit

Total BTEX: Sum of detected concentrations of benzene, toluene, ethylbenzene, and xylene isomers

ND: None detected; no benzene, toluene, ethylbenzene, or xylene isomers were detected

ug/L: micrograms per liter

<#: not detected at the indicated reporting limit

J: estimated concentration less than reporting limit

Bold type indicates detectable concentrations.

Shaded area indicates detectable concentration above the North Carolina Groundwater Quality Standards

Table 4-1 (Page 5 of 8)

Volatile and Semi-Volatile Organic Compounds Detected in Groundwater - Building 45

September 2004

Marine Corps Base Camp Lejeune, North Carolina

Sample Location	NCGWQS	MW7	MW8	MW9	MW9 Duplicate	MW13	MW14	MW15
Date Sampled		09/13/04	09/22/04	09/13/04	09/13/04	09/22/04	09/13/04	09/22/04
VOCs (ug/L) / Method		EPA 602	EPA 602	EPA 602	EPA 602	EPA 602	EPA 602	EPA 602
Benzene	1	<1.0	<1.0	**8.2**	**8.1**	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	620	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	29	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes (total)	530	<3.0	<3.0	<3.0	<1.0	<3.0	<3.0	<3.0
Methyl Tert Butyl Ether	200	<1.0	<1.0	**20.2**	**21.0**	<1.0	<1.0	<1.0
Total BTEX		ND	ND	**8.2**	**8.1**	ND	ND	ND
PAHs (ug/L) / Method		EPA 610	EPA 610	EPA 610	EPA 610	EPA 610	EPA 610	EPA 610
Acenaphthene	80	<4.8	<4.8	<4.8	<4.9	<4.8	<4.8	<4.8
Acenaphthylene	210	<4.8	<4.8	<4.8	<4.9	<4.8	<4.8	<4.8
Anthracene	2100	<4.8	<4.8	<4.8	<4.9	<4.8	<4.8	<4.8
Bis(2-Ethylhexyl)phthalate	3	NR	NR	NR	NR	NR	NR	NR
Fluorene	280	NR	<4.8	<4.8	<4.9	<4.8	<4.8	<4.8
1-Methylnaphthalene	RL	<4.8	<4.8	<4.8	<4.9	<4.8	<4.8	<4.8
2-Methylnaphthalene	14	<4.8	<4.8	<4.8	<4.9	<4.8	<4.8	<4.8
Naphthalene	21	<4.8	<4.8	<4.8	<4.9	<4.8	<4.8	<4.8
Phenanthrene	210	<4.8	<4.8	<4.8	<4.9	<4.8	<4.8	<4.8
Pyrene	210	<4.8	<4.8	<4.8	<4.9	<4.8	<4.8	<4.8

Sample Location	NCGWQS	MW17	MW18	MW19	MW20	MW21	MW1/45	MW4/45
Date Sampled		09/13/04	09/22/04	09/13/04	09/13/04	09/13/04	09/22/04	09/22/04
VOCs (ug/L) / Method		EPA 602	EPA 602	EPA 602	EPA 602	EPA 602	EPA 602	EPA 602
Benzene	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	620	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	29	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes (total)	530	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Methyl Tert Butyl Ether	200	<1.0	**1.1**	<1.0	<1.0	<1.0	<1.0	<1.0
Total BTEX	0	ND	ND	ND	ND	ND	ND	ND
PAHs (ug/L) / Method	0	EPA 610	EPA 610	EPA 610	EPA 610	EPA 610	EPA 610	EPA 610
Acenaphthene	80	<5.1	<4.8	<4.8	<4.8	<5.0	<4.8	<5.0
Acenaphthylene	210	<5.1	<4.8	<4.8	<4.8	<5.0	<4.8	<5.0
Anthracene	2100	<5.1	<4.8	<4.8	<4.8	<5.0	<4.8	<5.0
Bis(2-Ethylhexyl)phthalate	3	NR	NR	NR	NR	NR	NR	NR
Fluorene	280	<5.1	<4.8	<4.8	<4.8	<5.0	<4.8	<5.0
1-Methylnaphthalene	RL	<5.1	<4.8	<4.8	<4.8	<5.0	<4.8	<5.0
2-Methylnaphthalene	14	<5.1	<4.8	<4.8	<4.8	<5.0	<4.8	<5.0
Naphthalene	21	<5.1	<4.8	<4.8	<4.8	<5.0	<4.8	<5.0
Phenanthrene	210	<5.1	<4.8	<4.8	<4.8	<5.0	<4.8	<5.0
Pyrene	210	<5.1	<4.8	<4.8	<4.8	<5.0	<4.8	<5.0

NCGWQS: North Carolina Groundwater Quality Standard

RL: Reporting Limit, no NCGWQS established for the consitituent; thereffore, the NCGWQS for the constituent is the reporting limit

Total BTEX: Sum of detected concentrations of benzene, toluene, ethylbenzene, and xylene isomers

ND: None detected; no benzene, toluene, ethylbenzene, or xylene isomers were detected

ug/L: micrograms per liter

<#: not detected at the indicated reporting limit

J: estimated concentration less than reporting limit

Bold type indicates detectable concentrations.

Shaded area indicates detectable concentration above the North Carolina Groundwater Quality Standards

Table 4-1 (Page 6 of 8)

Volatile and Semi-Volatile Organic Compounds Detected in Groundwater - Building 45

December 2004

Marine Corps Base Camp Lejeune, North Carolina

Sample Location / Date Sampled	NCGWQS	MW7 12/21/04	MW8 12/21/04	MW9 12/21/04	MW13 12/20/04	MW14 12/20/04	MW15 12/20/04	MW17 12/21/04
VOCs (ug/L) / Method		EPA 602	EPA 602	EPA 602	EPA 602	EPA 602	EPA 602	EPA 602
Benzene	1	<1.0	<1.0	**6.7**	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	620	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	29	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes (total)	530	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Methyl Tert Butyl Ether	200	<1.0	<1.0	**21.6**	<1.0	<1.0	<1.0	<1.0
Total BTEX		ND	ND	**6.7**	ND	ND	ND	ND
PAHs (ug/L) / Method		EPA 610	EPA 610	EPA 610	EPA 610	EPA 610	EPA 610	EPA 610
Acenaphthene	80	<4.8	<4.8	<4.8	<5.2	<5.5	<4.8	<4.8
Acenaphthylene	210	<4.8	<4.8	<4.8	<5.2	<5.5	<4.8	<4.8
Anthracene	2100	<4.8	<4.8	<4.8	<5.2	<5.5	<4.8	<4.8
Bis(2-Ethylhexyl)phthalate	3	NR	NR	NR	NR	NR	NR	NR
Fluorene	280	NR	<4.8	<4.8	<5.2	<5.5	<4.8	<4.8
1-Methylnaphthalene	RL	<4.8	<4.8	<4.8	<5.2	<5.5	<4.8	<4.8
2-Methylnaphthalene	14	<4.8	<4.8	<4.8	<5.2	<5.5	<4.8	<4.8
Naphthalene	21	<4.8	<4.8	<4.8	<5.2	<5.5	<4.8	<4.8
Phenanthrene	210	<4.8	<4.8	<4.8	<5.2	<5.5	<4.8	<4.8
Pyrene	210	<4.8	<4.8	<4.8	<5.2	<5.5	<4.8	<4.8

Sample Location / Date Sampled	NCGWQS	MW18 12/20/04	MW19 12/20/04	MW20 12/21/04	MW21 12/20/04	MW21 Duplicate 12/20/04	MW1_45 12/20/04	MW4_45 12/21/04
VOCs (ug/L) / Method		EPA 602	EPA 602	EPA 602	EPA 602	EPA 602	EPA 602	EPA 602
Benzene	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	620	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	29	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes (total)	530	<3.0	<3.0	<3.0	<3.0	<1.0	<3.0	<3.0
Methyl Tert Butyl Ether	200	**1.1**	<1.0	<1.0	<1.0	<3.0	<1.0	<1.0
Total BTEX	0	ND	ND	ND	ND	ND	ND	ND
PAHs (ug/L) / Method	0	EPA 610	EPA 610	EPA 610	EPA 610	EPA 610	EPA 610	EPA 610
Acenaphthene	80	<5.6	<5.9	<4.8	<4.8	<6.0	<5.0	<5.1
Acenaphthylene	210	<5.6	<5.9	<4.8	<4.8	<6.0	<5.0	<5.1
Anthracene	2100	<5.6	<5.9	<4.8	<4.8	<6.0	<5.0	<5.1
Bis(2-Ethylhexyl)phthalate	3	NR	NR	NR	NR	NR	NR	NR
Fluorene	280	<5.6	<5.9	<4.8	<4.8	<6.0	<5.0	<5.1
1-Methylnaphthalene	RL	<5.6	<5.9	<4.8	<4.8	<6.0	<5.0	<5.1
2-Methylnaphthalene	14	<5.6	<5.9	<4.8	<4.8	<6.0	<5.0	<5.1
Naphthalene	21	<5.6	<5.9	<4.8	<4.8	<6.0	<5.0	<5.1
Phenanthrene	210	<5.6	<5.9	<4.8	<4.8	<6.0	<5.0	<5.1
Pyrene	210	<5.6	<5.9	<4.8	<4.8	<6.0	<5.0	<5.1

NCGWQS: North Carolina Groundwater Quality Standard

RL: Reporting Limit, no NCGWQS established for the consitituent; thereffore, the NCGWQS for the constituent is the reporting limit

Total BTEX: Sum of detected concentrations of benzene, toluene, ethylbenzene, and xylene isomers

ND: None detected; no benzene, toluene, ethylbenzene, or xylene isomers were detected

ug/L: micrograms per liter

<#: not detected at the indicated reporting limit

J: estimated concentration less than reporting limit

Bold type indicates detectable concentrations.

Shaded area indicates detectable concentration above the North Carolina Groundwater Quality Standards

Table 4-1 (Page 7 of 8)

Volatile and Semi-Volatile Organic Compounds Detected in Groundwater - Building 45

March 2005

Marine Corps Base Camp Lejeune, North Carolina

Sample Location / Date Sampled	NCGWQS	MW7 03/03/05	MW8 03/04/05	MW9 03/03/05	MW9 Duplicate 03/04/05	MW13 03/03/05	MW14 03/03/05	MW15 03/03/05	MW17 03/03/05	MW18 03/04/05
VOCs (ug/L) / Method		EPA 602	EPA 602	EPA 602	EPA 602	EPA 602	EPA 602	EPA 602	EPA 602	EPA 602
Benzene	1	<1.0	<1.0	**5.0**	**5.0**	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	620	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	29	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes (total)	530	<3.0	<3.0	<3.0	<1.0	<3.0	<3.0	<3.0	<3.0	<3.0
Methyl Tert Butyl Ether	200	<1.0	<1.0	**20.2**	**20.2**	<1.0	<1.0	<1.0	<1.0	**1.1**
Total BTEX		ND	ND	**5**	**5**	ND	ND	ND	ND	ND
PAHs (ug/L) / Method		EPA 610	EPA 610	EPA 610	EPA 610	EPA 610	EPA 610	EPA 610	EPA 610	EPA 610
Acenaphthene	80	<5.2	<4.8	<5.0	<4.9	<5.0	<4.8	<5.4	<4.8	<5.6
Acenaphthylene	210	<5.2	<4.8	<5.0	<4.9	<5.0	<4.8	<5.4	<4.8	<5.6
Anthracene	2100	<5.2	<4.8	<5.0	<4.9	<5.0	<4.8	<5.4	<4.8	<5.6
Bis(2-Ethylhexyl)phthalate	3	NR	NR	NR	NR	NR	NR	NR	NR	NR
Fluorene	280	NR	<4.8	<5.0	<4.9	<5.0	<4.8	<5.4	<4.8	<5.6
1-Methylnaphthalene	RL	<5.2	<4.8	<5.0	<4.9	<5.0	<4.8	<5.4	<4.8	<5.6
2-Methylnaphthalene	14	<5.2	<4.8	<5.0	<4.9	<5.0	<4.8	<5.4	<4.8	<5.6
Naphthalene	21	<5.2	<4.8	<5.0	<4.9	<5.0	<4.8	<5.4	<4.8	<5.6
Phenanthrene	210	<5.2	<4.8	<5.0	<4.9	<5.0	<4.8	<5.4	<4.8	<5.6
Pyrene	210	<5.2	<4.8	<5.0	<4.9	<5.0	<4.8	<5.4	<4.8	<5.6

Sample Location / Date Sampled	NCGWQS	MW19 03/03/05	MW20 03/03/05	MW21 03/03/05	MW23 03/04/05	MW24 03/04/05	MW1/45 03/02/05	MW4/45 03/02/05	PW2 03/04/05
VOCs (ug/L) / Method		EPA 602	EPA 602	EPA 602	EPA 602	EPA 602	EPA 602	EPA 602	EPA 602
Benzene	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	620	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	29	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes (total)	530	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Methyl Tert Butyl Ether	200	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Total BTEX	0	ND	ND	ND	ND	ND	ND	ND	ND
PAHs (ug/L) / Method	0	EPA 610	EPA 610	EPA 610	EPA 610	EPA 610	EPA 610	EPA 610	EPA 610
Acenaphthene	80	<4.8	<4.9	<4.8	<4.8	<5.0	<5.0	<4.9	<5.0
Acenaphthylene	210	<4.8	<4.9	<4.8	<4.8	<5.0	<5.0	<4.9	<5.0
Anthracene	2100	<4.8	<4.9	<4.8	<4.8	<5.0	<5.0	<4.9	<5.0
Bis(2-Ethylhexyl)phthalate	3	NR	NR	NR	NR	NR	NR	NR	NR
Fluorene	280	<4.8	<4.9	<4.8	<4.8	<5.0	<5.0	<4.9	<5.0
1-Methylnaphthalene	RL	<4.8	<4.9	<4.8	<4.8	<5.0	<5.0	<4.9	<5.0
2-Methylnaphthalene	14	<4.8	<4.9	<4.8	<4.8	<5.0	<5.0	<4.9	<5.0
Naphthalene	21	<4.8	<4.9	<4.8	<4.8	<5.0	<5.0	<4.9	<5.0
Phenanthrene	210	<4.8	<4.9	<4.8	<4.8	<5.0	<5.0	<4.9	<5.0
Pyrene	210	<4.8	<4.9	<4.8	<4.8	<5.0	<5.0	<4.9	<5.0

NCGWQS: North Carolina Groundwater Quality Standard

RL: Reporting Limit, no NCGWQS established for the consitituent; thereffore, the NCGWQS for the constituent is the reporting limit

Total BTEX: Sum of detected concentrations of benzene, toluene, ethylbenzene, and xylene isomers

ND: None detected; no benzene, toluene, ethylbenzene, or xylene isomers were detected

ug/L: micrograms per liter

<#: not detected at the indicated reporting limit

J: estimated concentration less than reporting limit

Bold type indicates detectable concentrations.

Shaded area indicates detectable concentration above the North Carolina Groundwater Quality Standards

Table 4-1 (Page 8 of 8)

Volatile and Semi-Volatile Organic Compounds Detected in Groundwater - Building 45

June 2005

Marine Corps Base Camp Lejeune, North Carolina

Sample Location Date Sampled	NCGWQS	MW7 06/14/05	MW8 06/14/05	MW9 06/14/05	MW9 Duplicate 06/14/05	MW13 06/14/05	MW14 06/14/05	MW15 06/14/05	MW17 06/14/05	MW18 06/14/05
VOCs (ug/L) / Method		EPA 602	EPA 602	EPA 602	EPA 602	EPA 602	EPA 602	EPA 602	EPA 602	EPA 602
Benzene	1	<1.0	<1.0	**4.6**	**4.5**	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	620	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	29	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes (total)	530	<3.0	<3.0	<3.0	<1.0	<3.0	<3.0	<3.0	<3.0	<3.0
Methyl Tert Butyl Ether	200	<1.0	<1.0	**13.9**	**13.5**	<1.0	<1.0	<1.0	<1.0	**1.0**
Total BTEX		ND	ND	**4.6**	**4.5**	ND	ND	ND	ND	ND
PAHs (ug/L) / Method		EPA 610	EPA 610	EPA 610	EPA 610	EPA 610	EPA 610	EPA 610	EPA 610	EPA 610
Acenaphthene	80	<4.8	<5.2	<5.1	<5.2	<5.0	<5.0	<5.0	<4.8	<5.0
Acenaphthylene	210	<4.8	<5.2	<5.1	<5.2	<5.0	<5.0	<5.0	<4.8	<5.0
Anthracene	2100	<4.8	<5.2	<5.1	<5.2	<5.0	<5.0	<5.0	<4.8	<5.0
Bis(2-Ethylhexyl)phthalate	3	NR	NR	NR	NR	NR	NR	NR	NR	NR
Fluorene	280	NR	<5.2	<5.1	<5.2	<5.0	<5.0	<5.0	<4.8	<5.0
1-Methylnaphthalene	RL	<4.8	<5.2	<5.1	<5.2	<5.0	<5.0	<5.0	<4.8	<5.0
2-Methylnaphthalene	14	<4.8	<5.2	<5.1	<5.2	<5.0	<5.0	<5.0	<4.8	<5.0
Naphthalene	21	<4.8	<5.2	<5.1	<5.2	<5.0	<5.0	<5.0	<4.8	<5.0
Phenanthrene	210	<4.8	<5.2	<5.1	<5.2	<5.0	<5.0	<5.0	<4.8	<5.0
Pyrene	210	<4.8	<5.2	<5.1	<5.2	<5.0	<5.0	<5.0	<4.8	<5.0

Sample Location Date Sampled	NCGWQS	MW19 06/14/05	MW20 06/14/05	MW21 06/14/05	MW23 06/14/05	MW24 06/14/05	MW1_45 06/14/05	MW4_45 06/14/05	PW2 06/14/05
VOCs (ug/L) / Method		EPA 602	EPA 602	EPA 602	EPA 602	EPA 602	EPA 602	EPA 602	EPA 602
Benzene	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	620	<1.0	<1.0	<1.0	**0.54 J**	<1.0	<1.0	<1.0	**0.57 J**
Ethylbenzene	29	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes (total)	530	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Methyl Tert Butyl Ether	200	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Total BTEX	0	ND	ND	ND	ND	ND	ND	ND	ND
PAHs (ug/L) / Method	0	EPA 610	EPA 610	EPA 610	EPA 610	EPA 610	EPA 610	EPA 610	EPA 610
Acenaphthene	80	<5.1	<5.2	<5.0	<4.9	<4.8	<5.0	<5.1	<5.1
Acenaphthylene	210	<5.1	<5.2	<5.0	<4.9	<4.8	<5.0	<5.1	<5.1
Anthracene	2100	<5.1	<5.2	<5.0	<4.9	<4.8	<5.0	<5.1	<5.1
Bis(2-Ethylhexyl)phthalate	3	NR	NR	NR	NR	NR	NR	NR	NR
Fluorene	280	<5.1	<5.2	<5.0	<4.9	<4.8	<5.0	<5.1	<5.1
1-Methylnaphthalene	RL	<5.1	<5.2	<5.0	<4.9	<4.8	<5.0	<5.1	<5.1
2-Methylnaphthalene	14	<5.1	<5.2	<5.0	<4.9	<4.8	<5.0	<5.1	<5.1
Naphthalene	21	<5.1	<5.2	<5.0	<4.9	<4.8	<5.0	<5.1	<5.1
Phenanthrene	210	<5.1	<5.2	<5.0	<4.9	<4.8	<5.0	<5.1	<5.1
Pyrene	210	<5.1	<5.2	<5.0	<4.9	<4.8	<5.0	<5.1	<5.1

NCGWQS: North Carolina Groundwater Quality Standard

RL: Reporting Limit, no NCGWQS established for the consitituent; thereffore, the NCGWQS for the constituent is the reporting limit

Total BTEX: Sum of detected concentrations of benzene, toluene, ethylbenzene, and xylene isomers

ND: None detected; no benzene, toluene, ethylbenzene, or xylene isomers were detected

ug/L: micrograms per liter

<#: not detected at the indicated reporting limit

J: estimated concentration less than reporting limit

Bold type indicates detectable concentrations.

Shaded area indicates detectable concentration above the North Carolina Groundwater Quality Standards

APPENDIX A

FIELD RECORDS

Current and Historical Gauging Tables

TABLE A-1 (page 1 of 5)
Depth to Groundwater Data Over Time
Building 45 Site

Location	Top of Casing Elevation[1]	Screen Zone	Depth to Water (feet BTOC)																							
			7/6/1998	7/16/1998	7/22/1998	8/11/1998	9/21/1998	10/14/1998	11/2/1998	12/8/1998	1/14/1999	2/8/1999	3/19/1999	4/9/1999	4/9/1999	4/13/1999	4/22/1999	4/22/1999	5/11/1999	5/11/1999	6/22/1999	6/22/1999	6/29/1999	6/29/1999	7/12/1999	7/19/1999
MW2	10.84	Shallow	5.98	6.42	6.74	5.81	5.08	6.07	6.64	7.37	6.34	5.15	5.30	5.40	NM	6.20	5.98	8.24	5.36	5.85	6.59	8.53	6.94	8.72	7.84	7.44
MW3	11.02	Shallow	6.27	6.75	7.34	6.91	5.52	6.32	7.05	8.02	6.86	5.70	5.70	7.14	10.24	6.96	NM	9.94	6.05	9.04	6.92	10.82	7.15	11.02	7.91	7.82
MW4	14.83	Shallow	8.95	9.64	14.80	9.33	6.41	4.89	8.92	10.04	8.18	6.75	7.56	7.31	7.32	7.58	7.86	7.87	7.22	7.22	8.38	8.35	8.86	8.87	9.81	10.00
MW5	9.73	Shallow	9.35	9.82	9.80	9.35	7.67	8.68	9.23	9.99	9.06	8.05	8.49	8.67	8.68	8.78	8.79	8.81	8.15	8.16	8.65	8.65	8.97	8.97	9.45	9.81
MW6	10.71	Deep	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
MW7	10.00	Shallow	5.23	5.65	5.72	5.35	4.15	5.20	5.54	6.15	5.07	4.20	4.37	4.53	5.22	17.92	4.72	6.59	4.58	6.88	5.08	7.04	5.66	7.58	6.40	6.31
MW8	10.73	Shallow	6.23	6.66	6.63	6.45	4.96	5.67	6.22	6.41	5.58	4.95	5.18	5.57	5.59	5.96	6.63	5.70	5.20	5.23	5.44	5.50	6.03	6.04	6.57	6.30
MW9	10.27	Deep	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
MW10	11.49	Shallow	7.81	8.20	8.33	7.87	6.60	7.56	8.01	8.90	7.79	6.80	6.99	7.05	7.45	18.30	7.46	8.92	6.99	8.20	7.61	9.04	8.13	9.28	8.73	8.83
MW12	InD	Shallow	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
MW13	8.32	Shallow	NM	6.49	6.48	6.81	5.24	5.60	6.43	8.83	5.49	4.82	4.79	4.73	4.72	5.44	5.87	5.98	5.87	5.85	6.55	6.82	6.73	6.76	7.04	7.17
MW14	7.32	Shallow	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
MW15	8.26	Shallow	8.30	9.05	8.76	9.00	NM	8.29	8.36	9.64	9.14	8.24	7.97	8.71	8.67	9.18	8.32	8.64	8.32	8.65	NM	NM	NM	NM	NM	NM
MW16	8.77	Shallow	NM	8.44	8.19	8.51	6.98	7.36	7.64	8.35	8.38	6.83	5.88	6.50	6.42	6.75	6.74	6.75	6.75	6.75	7.57	7.66	7.14	7.11	7.51	7.88
MW17	8.95	Shallow	NM	7.33	7.01	NM	5.73	6.55	7.01	7.89	6.95	6.19	5.18	6.32	6.32	6.58	6.68	6.70	6.23	6.25	6.90	6.91	7.14	7.11	7.45	7.47
MW18	10.80	Shallow	7.86	8.38	7.91	8.30	6.51	7.43	7.88	NM	8.16	6.92	6.90	6.81	7.10	7.08	7.20	7.56	6.91	7.24	8.07	8.53	7.92	8.15	8.49	NM
MW19	11.85	Shallow	6.15	6.71	6.71	6.14	4.67	5.63	6.34	6.92	5.49	4.74	5.12	5.13	5.19	5.90	5.60	5.79	5.14	5.35	5.69	5.94	6.27	6.50	7.13	7.08
MW20	10.64	Shallow	5.53	5.94	6.01	5.59	4.18	5.33	5.86	6.40	5.10	4.44	4.58	4.75	4.78	15.60	5.32	6.76	4.73	6.31	5.17	6.59	5.78	7.14	6.62	6.47
MW21	7.13	Deep	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
MW22	InD	Deep	18.82	19.04	18.83	18.78	17.23	18.84	18.50	18.87	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW23	11.07	Shallow	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW24	12.17	Shallow	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
PW1	10.08	Shallow	NM	5.99	6.06	5.62	4.43	5.25	5.87	5.55	5.57	4.59	4.98	4.91	5.89	25.52	5.35	9.03	5.19	8.05	6.23	9.55	6.57	10.31	7.76	7.57
PW2	12.14	Shallow	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW1/45	11.43	Shallow	10.81	11.41	11.24	11.43	10.34	10.78	10.96	11.70	11.62	10.30	10.12	10.49	5.89	10.86	10.39	10.44	10.51	10.51	11.22	11.32	10.14	10.13	11.21	11.19
MW4/45	InD	Shallow	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL

Top of casing elevation expressed in feet above/below MSL
BTOC - below top of casing
MSL - mean sea level

ABD: Abandoned; well abandonded at time of measurement
INA: Inaccessible; well inaccessible at time of measurement (under water, surrounded by water, or covered by soil)
NC: Insufficient data to calcuate groundwater elevation or product thickness
NF: Not Found; well could not be found

NI: Not Installed; well not installed at the time of measurement
NL: Not Listed; well not listed in source document
NM: Not Measured; well not measured, reason not stated

TABLE A-1 (page 2 of 5)
Depth to Groundwater Data Over Time
Building 45 Site

Location	Top of Casing Elevation [1]	Screen Zone	Depth to Water (feet BTOC)																					
			7/19/1999	7/27/1999	7/27/1999	8/18/1999	8/18/1999	8/26/1999	8/26/1999	9/2/1999	9/2/1999	10/12/1999	11/22/1999	1/26/2000	3/16/2000	4/7/2000	5/16/2000	6/15/2000	6/16/2000	6/19/2000	7/18/2000	7/19/2000	8/31/2000	8/31/2000	9/11/2000
MW2	10.84	Shallow	9.32	7.55	9.73	8.45	9.94	8.45	10.00	6.99	9.30	5.81	9.15	5.33	5.33	6.42	5.40	7.12	7.25	9.91	8.61	10.33	4.58	8.96	4.82
MW3	11.02	Shallow	9.54	8.04	10.92	8.76	11.81	8.85	11.61	7.35	10.54	7.68	6.22	NM	6.15	6.91	5.99	7.25	7.51	11.13	9.25	12.78	4.60	10.26	5.27
MW4	14.83	Shallow	10.03	10.31	10.35	11.08	11.10	11.10	11.20	9.16	9.15	8.83	6.20	7.00	7.71	6.64	7.58	9.62	9.80	9.82	11.15	11.18	7.73	7.69	6.84
MW5	9.73	Shallow	9.33	9.41	9.41	10.13	10.13	10.00	10.02	8.90	8.90	8.44	7.57	8.68	8.78	7.83	8.04	9.21	9.33	9.40	10.24	10.25	7.18	7.15	6.75
MW6	10.71	Deep	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
MW7	10.00	Shallow	7.24	6.44	8.05	7.31	8.59	7.40	8.70	5.88	7.70	4.53	4.60	NM	4.96	5.21	4.75	5.98	6.23	8.62	7.51	9.05	3.11	7.01	3.96
MW8	10.73	Shallow	6.39	6.38	6.42	7.25	7.27	7.10	7.11	5.81	5.85	4.90	5.15	4.74	5.61	5.93	5.51	6.40	6.64	6.67	7.53	7.63	4.18	4.25	4.60
MW9	10.27	Deep	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	-- NL	NL
MW10	11.49	Shallow	9.45	8.96	9.92	9.73	10.46	9.85	10.66	7.40	8.55	6.02	6.98	4.30	7.49	7.72	7.03	8.43	8.66	9.97	10.04	10.00	4.16	4.86	5.39
MW12	InD	Shallow	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
MW13	8.32	Shallow	7.21	7.31	7.32	7.79	7.89	7.85	7.85	6.75	6.75	4.80	6.42	7.00	6.42	6.62	5.47	6.62	6.75	6.80	7.82	7.97	NM	NM	4.73
MW14	7.32	Shallow	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
MW15	8.26	Shallow	NM	9.24	NM	9.26	9.23	NM	NM	NM	NM	7.81	NM	NM	8.26	9.19	7.56	8.79	9.10	9.23	10.34	10.27	7.16	8.94	7.31
MW16	8.77	Shallow	7.88	8.05	8.07	8.30	9.34	8.50	8.40	7.28	7.29	NM	NM	NM	7.52	7.91	6.52	7.50	7.69	7.66	8.74	9.40	NM	NM	NM
MW17	8.95	Shallow	7.60	7.58	7.70	8.29	8.30	8.20	8.26	6.78	6.90	NM	NM	NM	6.74	6.69	5.75	7.15	7.35	7.44	8.25	8.45	3.93	3.97	4.11
MW18	10.80	Shallow	NM	7.60	8.96	NM	NM	NM	NM	NM	NM	NM	NM	NM	7.06	7.51	6.50	7.79	8.20	8.66	9.50	10.03	6.25	6.70	5.63
MW19	11.85	Shallow	7.27	7.31	7.50	8.15	8.26	8.14	8.31	6.64	6.87	4.49	4.63	4.11	5.42	5.63	5.56	6.78	7.05	7.38	8.21	8.45	4.26	4.80	4.63
MW20	10.64	Shallow	7.21	6.61	7.76	7.50	8.36	7.49	8.43	6.05	7.31	4.51	4.60	NM	5.12	5.31	5.09	6.21	6.45	8.03	7.25	8.71	3.50	6.00	4.18
MW21	7.13	Deep	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
MW22	InD	Deep	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW23	11.07	Shallow	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW24	12.17	Shallow	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
PW1	10.08	Shallow	9.00	7.55	10.76	8.50	11.05	9.09	11.26	7.38	10.66	5.92	5.96	NM	5.65	6.07	5.31	6.63	6.86	10.59	8.70	10.95	3.90	10.30	5.42
PW2	12.14	Shallow	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW1/45	11.43	Shallow	11.13	11.29	11.29	11.58	11.58	11.57	11.57	9.61	9.62	9.57	10.23	11.90	10.81	11.51	10.07	11.13	11.34	11.33	12.55	12.55	10.15	10.15	9.45
MW4/45	InD	Shallow	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL

Top of casing elevation expressed in feet above/below MSL
BTOC - below top of casing
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TABLE A-1 (page 3 of 5)
Depth to Groundwater Data Over Time
Building 45 Site

Location	Top of Casing Elevation [1]	Screen Zone	10/11/2000	11/13/2000	11/20/2000	12/5/2000	12/21/2000	12/21/2000	1/18/2001	1/18/2001	1/31/2001	2/20/2001	3/1/2001	3/1/2001	3/20/2001	4/16/2001	4/26/2001	4/26/2001	5/9/2001	5/9/2001	5/30/2001	5/30/2001	6/14/2001	6/14/2001	6/20/2001
MW2	10.84	Shallow	5.82	6.20	6.25	4.50	5.03	7.82	6.03	8.36	6.33	5.74	5.20	7.86	5.52	5.90	6.00	9.25	6.92	8.03	7.28	9.76	6.85	9.82	6.34
MW3	11.02	Shallow	6.45	6.76	6.30	4.58	5.62	10.12	6.12	12.93	6.72	6.01	5.49	9.03	5.76	6.51	6.15	13.30	7.30	13.60	7.85	14.70	7.41	14.16	6.88
MW4	14.83	Shallow	6.22	8.04	8.24	5.84	6.04	5.97	7.03	7.04	7.42	7.16	6.95	6.92	6.63	7.54	NM	NM	NM	NM	9.16	9.15	9.37	9.35	8.42
MW5	9.73	Shallow	7.06	8.63	8.49	7.14	7.15	7.13	8.02	8.02	8.63	8.03	7.81	7.81	7.71	8.01	7.98	7.95	8.63	8.63	8.84	8.84	8.88	8.78	8.03
MW6	10.71	Deep	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
MW7	10.00	Shallow	4.72	5.47	4.95	2.89	3.98	6.02	4.51	7.03	5.02	4.55	4.07	6.12	4.28	4.66	4.73	6.98	5.82	8.36	6.34	8.43	5.85	7.98	5.07
MW8	10.73	Shallow	5.09	5.89	5.05	4.06	4.90	4.84	5.01	5.03	5.45	5.00	4.75	4.77	4.96	5.45	5.06	5.05	6.18	6.22	5.81	5.79	5.85	5.75	5.49
MW9	10.27	Deep	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
MW10	11.49	Shallow	7.25	7.98	7.93	4.23	6.45	7.39	7.43	8.62	7.93	7.37	7.02	7.26	6.88	7.12	7.30	NM	7.27	9.46	8.92	9.98	7.73	9.05	7.13
MW12	InD	Shallow	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
MW13	8.32	Shallow	5.04	6.21	6.46	NM	5.00	5.05	6.10	6.08	13.08	6.22	6.12	6.12	5.60	5.38	5.25	5.80	5.30	6.27	6.75	6.83	NM	NM	6.22
MW14	7.32	Shallow	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
MW15	8.26	Shallow	5.04	8.55	8.53	7.08	7.83	8.19	8.70	8.96	8.46	8.82	8.75	9.15	8.02	8.64	8.30	8.56	8.62	9.02	8.67	9.27	8.42	8.80	7.96
MW16	8.77	Shallow	6.18	6.76	6.79	NM	6.20	6.16	6.75	6.84	7.00	6.69	6.67	6.78	6.43	7.34	6.92	7.25	6.95	7.06	7.34	7.42	7.61	7.33	7.34
MW17	8.95	Shallow	4.93	6.77	6.84	3.86	5.17	5.15	6.54	6.57	6.95	6.65	6.42	6.38	5.94	5.76	6.25	6.30	6.92	6.93	7.48	7.48	6.85	6.82	5.75
MW18	10.80	Shallow	6.30	7.05	7.33	5.54	5.90	5.93	6.93	7.52	7.44	7.00	6.79	7.33	6.42	6.57	6.70	7.27	7.36	7.96	7.98	8.55	7.60	8.40	7.12
MW19	11.85	Shallow	4.92	5.95	5.20	3.45	4.33	4.69	4.78	5.72	5.18	4.91	4.38	4.85	4.68	5.03	4.98	5.46	6.11	6.55	6.54	6.87	6.58	6.93	5.80
MW20	10.64	Shallow	4.92	5.62	4.95	3.10	4.14	5.71	4.54	6.48	15.02	4.65	4.04	5.72	4.41	4.85	4.83	6.50	5.86	7.82	6.31	7.80	6.00	7.55	5.26
MW21	7.13	Deep	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
MW22	InD	Deep	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW23	11.07	Shallow	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW24	12.17	Shallow	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
PW1	10.08	Shallow	6.55	6.43	6.20	3.96	4.91	7.74	5.42	9.00	5.93	5.33	4.90	7.57	5.01	5.72	5.55	9.80	7.28	10.70	7.70	10.99	7.03	9.96	6.21
PW2	12.14	Shallow	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW1/45	11.43	Shallow	9.95	10.78	11.01	9.68	10.14	10.04	11.06	11.07	11.49	11.13	11.15	11.10	10.64	10.70	10.12	10.50	11.10	11.06	11.40	11.40	11.59	11.64	11.15
MW4/45	InD	Shallow	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL

Top of casing elevation expressed in feet above/below MSL
BTOC - below top of casing
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TABLE A-1 (page 4 of 5)
Depth to Groundwater Data Over Time
Building 45 Site

Location	Top of Casing Elevatiion [1]	Screen Zone	6/26/2001	6/26/2001	7/17/2001	8/9/2001	8/16/2001	8/16/2001	8/29/2001	8/29/2001	9/10/2001	10/3/2001	10/3/2001	10/16/2001	10/30/2001	10/30/2001	11/5/2001	11/27/2001	11/27/2001	12/3/2001	12/13/2001	12/13/2001	1/16/2002	2/19/2002	3/21/2002
MW2	10.84	Shallow	5.40	8.92	7.33	8.00	7.93	10.48	8.29	9.50	7.08	8.33	10.25	8.44	9.02	10.01	9.40	9.58	10.50	9.84	9.88	10.55	9.80	8.06	6.44
MW3	11.02	Shallow	6.17	14.13	7.74	8.42	8.40	16.69	8.63	9.97	7.32	8.80	15.82	9.56	9.40	16.65	9.87	9.93	14.31	10.07	10.01	15.54	10.31	8.31	6.71
MW4	14.83	Shallow	8.40	8.40	9.63	10.56	NM	NM	NM	NM	10.96	11.44	11.44	11.71	11.98	12.01	12.12	12.37	12.37	12.42	NM	NM	11.20	11.42	9.37
MW5	9.73	Shallow	7.82	7.82	8.67	9.08	9.24	9.25	NM	9.64	9.10	9.90	9.95	8.43	10.67	10.68	10.96	11.15	11.15	11.28	NM	NM	11.10	9.85	8.78
MW6	10.71	Deep	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
MW7	10.00	Shallow	4.14	6.65	6.14	6.73	7.07	8.65	7.20	8.07	5.46	7.28	8.78	8.01	7.98	9.16	8.33	8.55	9.30	8.70	8.74	9.40	8.75	7.10	5.53
MW8	10.73	Shallow	5.60	5.15	6.47	6.75	6.70	6.74	6.88	6.90	6.07	7.45	7.47	7.97	8.11	8.13	8.42	8.60	8.60	8.71	NM	NM	8.65	7.32	6.07
MW9	10.27	Deep	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
MW10	11.49	Shallow	4.54	5.23	8.45	9.26	9.16	10.09	9.60	10.18	5.48	9.65	10.50	10.38	10.47	11.24	11.01	11.15	11.56	11.29	11.37	11.76	11.45	9.63	7.85
MW12	InD	Shallow	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
MW13	8.32	Shallow	NM	NM	6.58	7.32	NM	NM	NM	NM	7.50	NM	NM	8.49	NM	NM	8.94	9.23	9.20	9.32	NM	NM	9.96	5.63	6.92
MW14	7.32	Shallow	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
MW15	8.26	Shallow	7.88	8.39	8.44	9.05	NM	NM	9.01	9.36	9.08	NM	NM	10.73	NM	NM	11.25	11.32	11.25	11.68	NM	NM	12.38	10.45	8.60
MW16	8.77	Shallow	7.00	6.82	7.42	7.96	NM	NM	8.01	8.02	8.15	NM	NM	9.30	NM	NM	10.45	10.45	10.23	10.53	NM	NM	11.42	6.74	8.45
MW17	8.95	Shallow	3.95	4.32	6.78	7.49	7.63	7.67	8.10	8.15	5.64	8.20	8.30	10.76	9.07	9.10	9.34	9.72	9.70	9.82	9.90	9.94	9.84	8.41	6.78
MW18	10.80	Shallow	6.56	7.10	7.75	8.93	8.43	8.85	8.25	9.23	8.25	9.22	9.85	9.35	9.91	10.58	10.45	10.53	10.69	10.65	10.67	11.06	11.21	9.49	7.62
MW19	11.85	Shallow	5.31	5.84	6.89	7.53	7.79	8.06	8.04	8.28	7.26	8.31	8.52	8.69	8.96	9.05	9.15	9.50	9.54	9.54	9.64	9.73	9.49	8.22	6.54
MW20	10.64	Shallow	4.53	6.65	6.35	6.90	7.17	8.49	7.43	8.05	6.05	7.56	8.70	8.12	8.25	9.16	8.56	8.81	9.35	8.94	8.98	9.50	8.82	7.25	5.83
MW21	7.13	Deep	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
MW22	InD	Deep	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW23	11.07	Shallow	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW24	12.17	Shallow	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
PW1	10.08	Shallow	5.10	8.20	7.19	7.80	7.80	10.46	8.07	9.48	6.01	8.04	10.11	8.68	8.59	10.73	8.99	9.21	10.34	9.30	9.38	10.55	9.23	7.61	6.00
PW2	12.14	Shallow	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW1/45	11.43	Shallow	11.10	10.73	10.95	11.71	NM	NM	11.88	11.55	11.59	NM	NM	12.84	NM	NM	13.30	13.04	12.96	13.38	NM	NM	14.20	12.51	11.29
MW4/45	InD	Shallow	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL

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TABLE A-1 (page 5 of 5)
Depth to Groundwater Data Over Time
Building 45 Site

Location	Top of Casing Elevatiion [1]	Screen Zone	4/17/2002	5/15/2002	7/17/2002	9/29/2003	12/23/2003	1/15/2004	2/9/2004	3/8/2004	4/6/2004	5/3/2004	6/11/2004	7/14/2004	8/14/2004	9/13/2004	10/5/2004	12/20/2004	1/6/2005	2/1/2005	3/3/2005	4/22/2005	5/26/2005	6/14/2005	7/27/2005	8/4/2D05
MW2	10.84	Shallow	7.27	7.51	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD
MW3	11.02	Shallow	7.54	7.80	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD
MW4	14.83	Shallow	9.58	10.56	11.16	NM	4.88	6.16	6.20	5.54	6.82	5.48	8.37	9.50	7.93	2.60	6.28	9.25	9.10	8.53	7.97	7.11	6.90	7.80	8.32	8.92
MW5	9.73	Shallow	9.45	9.55	8.84	NM	6.25	7.39	7.47	6.26	8.05	7.05	8.14	8.30	7.02	5.75	6.64	9.13	9.17	8.90	7.52	8.00	6.95	8.13	7.42	7.96
MW6	10.71	Deep	NL	NL	NL	NM	15.90	16.77	17.22	14.65	17.57	16.73	17.45	17.69	17.26	15.98	16.43	18.04	18.02	17.75	17.62	17.10	17.19	17.68	17.46	17.61
MW7	10.00	Shallow	6.40	6.58	5.32	NM	2.28	4.13	4.12	3.11	4.78	INA	4.83	5.00	3.52	2.38	3.92	5.87	5.72	5.30	4.90	4.66	4.01	4.80	4.57	5.18
MW8	10.73	Shallow	6.76	6.90	6.61	7.46	4.32	5.04	5.09	4.68	5.76	3.46	5.54	5.75	4.63	4.33	4.85	6.30	6.13	5.60	5.50	5.55	4.85	5.60	5.36	5.84
MW9	10.27	Deep	NL	NL	NL	17.22	15.40	16.35	16.86	15.99	17.20	INA	17.05	17.26	16.86	15.58	16.01	17.65	17.65	17.39	17.20	16.70	16.80	16.85	17.03	17.20
MW10	11.49	Shallow	9.03	9.15	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD
MW12	InD	Shallow	NL	NL	NL	NM	NM	NM	NM	NM	4.23	INA	NM	NM	3.21	5.47	3.50	6.12	6.10	5.80	5.95	4.36	4.00	4.63	4.60	5.25
MW13	8.32	Shallow	7.35	7.51	7.71	4.72	3.58	5.35	5.64	4.32	5.58	INA	INA	NM	INA	4.04	4.66	6.55	6.77	6.40	6.41	5.81	5.60	5.75	5.75	5.68
MW14	7.32	Shallow	NL	NL	NL	8.82	7.36	8.52	9.11	7.93	8.70	8.11	9.23	11.50	8.63	7.22	7.95	13.43	13.62	13.07	12.90	8.80	8.26	8.60	8.61	8.75
MW15	8.26	Shallow	9.87	9.27	8.34	8.47	7.38	7.88	8.63	7.42	8.83	INA	8.92	9.57	8.85	7.40	7.52	9.98	10.02	10.68	10.15	8.88	8.48	9.23	8.04	8.97
MW16	8.77	Shallow	9.01	8.58	8.89	7.53	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD
MW17	8.95	Shallow	7.70	7.89	5.48	4.62	3.49	5.51	5.50	3.79	5.90	3.38	5.90	5.80	4.41	3.25	4.65	7.33	7.35	7.01	6.25	6.05	4.80	5.73	5.50	6.22
MW18	10.80	Shallow	8.70	8.70	7.61	5.75	4.28	6.15	6.29	4.65	6.58	5.32	6.65	7.30	6.33	4.22	5.42	8.32	8.40	8.14	7.60	6.69	5.92	6.50	6.35	7.00
MW19	11.85	Shallow	6.99	7.54	7.36	4.63	2.91	4.31	4.36	3.46	5.08	2.95	5.60	6.08	4.68	3.14	4.51	6.32	6.20	5.60	5.25	5.05	4.52	5.37	5.41	5.95
MW20	10.64	Shallow	6.47	6.86	5.95	4.05	2.51	4.20	4.16	3.26	4.83	INA	5.01	5.29	3.72	2.27	4.13	5.95	5.75	5.23	4.86	4.73	4.10	4.87	4.77	5.33
MW21	7.13	Deep	NL	NL	NL	NM	12.52	13.92	14.03	13.18	14.20	13.63	14.28	14.59	14.00	12.43	13.01	14.90	14.92	14.50	14.52	13.94	13.76	14.13	14.10	14.27
MW22	InD	Deep	NM	15.72	NM	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF
MW23	11.07	Shallow	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	6.33	5.70	5.01	5.70	5.63	6.24
MW24	12.17	Shallow	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	7.32	6.78	6.10	6.80	6.70	7.31
PW1	10.08	Shallow	7.93	7.14	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD
PW2	12.14	Shallow	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	7.50	7.06	6.30	7.03	7.00	7.60
MW1/45	11.43	Shallow	11.91	11.16	11.32	10.70	9.37	10.46	10.92	10.25	10.53	10.10	10.80	13.85	11.02	9.48	10.40	12.20	12.50	12.18	12.52	11.05	10.50	10.52	10.47	10.73
MW4/45	InD	Shallow	NL	NL	NL	14.11	12.51	13.74	14.10	13.23	14.13	13.85	14.40	8.46	14.13	12.42	13.02	14.98	14.99	14.76	14.62	14.03	13.77	14.12	14.05	14.30

Top of casing elevation expressed in feet above/below MSL
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vers: 11/28/2005
Bld45_Welldata.xls

TABLE A-2 (page 1 of 5)
Depth to Product Data Over Time
Building 45 Site

Location	Top of Casing Elevation[1]	Screen Zone	Depth to Product (feet BTOC)																							
			7/6/1998	7/16/1998	7/22/1998	8/11/1998	9/21/1998	10/14/1998	11/2/1998	12/8/1998	1/14/1999	2/8/1999	3/19/1999	4/9/1999	4/9/1999	4/13/1999	4/22/1999	4/22/1999	5/11/1999	5/11/1999	6/22/1999	6/22/1999	6/29/1999	6/29/1999	7/12/1999	7/19/1999
MW2	10.84	Shallow	5.97	6.41	6.73	Trace	4.70	--	6.35	7.16	6.05	5.10	5.25	5.35	NM	6.12	5.73	Trace	5.35	--	5.66	--	6.44	--	7.50	7.21
MW3	11.02	Shallow	--	6.72	7.33	Trace	5.50	--	7.01	7.84	6.83	5.62	5.66	7.10	--	--	NM	9.91	5.86	--	6.68	--	7.05	--	7.79	7.72
MW4	14.83	Shallow	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW5	9.73	Shallow	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW6	10.71	Deep	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
MW7	10.00	Shallow	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	Trace	--	--	--	--	--	--	--	--
MW8	10.73	Shallow	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	NL	NL	NL	NL	NL	NL	NL	NL	NL
MW9	10.27	Deep	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	18.51	7.42	--	--	--	--	--	--	--	--	--
MW10	11.49	Shallow	--	--	--	--	--	--	--	--	--	--	--	--	--	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
MW12	InD	Shallow	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	--	--	--	--	--	--	--	--	--	--	--
MW13	8.32	Shallow	NM	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW14	7.32	Shallow	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
MW15	8.26	Shallow	--	--	--	--	NM	--	--	--	--	--	--	--	--	--	--	--	--	--	NM	NM	NM	NM	NM	NM
MW16	8.77	Shallow	NM	--	--	--	--	--	--	--	--	--	--	--	--	Trace	--	--	--	--	--	--	--	--	--	--
MW17	8.95	Shallow	NM	--	--	NM	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW18	10.80	Shallow	--	--	--	--	--	--	--	NM	--	--	--	--	--	--	--	7.55	--	--	--	--	--	--	--	NM
MW19	11.85	Shallow	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW20	10.64	Shallow	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW21	7.13	Deep	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
MW22	InD	Deep	--	--	--	--	--	--	--	--	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW23	11.07	Shallow	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW24	12.17	Shallow	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
PW1	10.08	Shallow	NM	--	--	--	--	5.23	--	--	5.56	--	4.90	--	--	25.30	5.30	--	--	--	--	--	--	--	--	--
PW2	12.14	Shallow	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW1/45	11.43	Shallow	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW4/45	InD	Shallow	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL

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TABLE A-2 (page 2 of 5)
Depth to Product Data Over Time
Building 45 Site

Location	Top of Casing Elevation [1]	Screen Zone	Depth to Product (feet BTOC)																					
			7/19/1999	7/27/1999	7/27/1999	8/18/1999	8/18/1999	8/26/1999	8/26/1999	9/2/1999	9/2/1999	10/12/1999	11/22/1999	1/26/2000	3/16/2000	4/7/2000	5/16/2000	6/15/2000	6/16/2000	6/19/2000	7/18/2000	7/19/2000	8/31/2000	8/31/2000	9/11/2000
MW2	10.84	Shallow	--	7.34	--	8.15	--	8.30	--	6.65	--	5.46	5.33	5.16	5.65	5.92	5.36	--	6.95	--	--	--	4.40	--	--
MW3	11.02	Shallow	--	7.95	--	8.73	--	8.84	--	Trace	--	6.40	6.13	NM	--	--	5.88	--	--	--	--	--	--	--	--
MW4	14.83	Shallow	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW5	9.73	Shallow	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW6	10.71	Deep	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
MW7	10.00	Shallow	--	--	--	--	--	--	--	--	--	--	--	NM	--	--	--	--	--	--	--	--	--	--	--
MW8	10.73	Shallow	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW9	10.27	Deep	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
MW10	11.49	Shallow	--	--	--	--	--	--	--	--	--	5.92	5.92	--	--	--	--	--	--	--	--	--	--	--	--
MW12	InD	Shallow	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
MW13	8.32	Shallow	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	NM	NM	--
MW14	7.32	Shallow	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
MW15	8.26	Shallow	NM	--	NM	--	--	NM	NM	NM	NM	--	NM	NM	--	--	--	--	--	--	--	--	--	--	--
MW16	8.77	Shallow	--	--	--	--	--	--	--	--	--	NM	NM	NM	--	--	--	--	--	--	--	--	NM	NM	NM
MW17	8.95	Shallow	--	--	--	--	--	--	--	--	--	NM	NM	NM	--	--	--	--	--	--	--	--	--	--	--
MW18	10.80	Shallow	NM	--	--	NM	NM	NM	NM	NM	NM	NM	NM	NM	--	--	--	--	--	--	--	--	--	--	--
MW19	11.85	Shallow	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW20	10.64	Shallow	--	--	--	--	--	--	--	--	--	--	--	NM	--	--	--	--	--	--	--	--	--	--	--
MW21	7.13	Deep	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
MW22	InD	Deep	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW23	11.07	Shallow	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW24	12.17	Shallow	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
PW1	10.08	Shallow	--	--	--	--	--	--	--	--	--	--	--	NM	--	--	--	--	Trace	--	--	--	--	--	--
PW2	12.14	Shallow	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW1/45	11.43	Shallow	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW4/45	InD	Shallow	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL

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TABLE A-2 (page 3 of 5)
Depth to Product Data Over Time
Building 45 Site

Location	Top of Casing Elevatiion [1]	Screen Zone	10/11/2000	11/13/2000	11/20/2000	12/5/2000	12/21/2000	12/21/2000	1/18/2001	1/18/2001	1/31/2001	2/20/2001	3/1/2001	3/1/2001	3/20/2001	4/16/2001	4/26/2001	4/26/2001	5/9/2001	5/9/2001	5/30/2001	5/30/2001	6/14/2001	6/14/2001	6/20/2001
MW2	10.84	Shallow	5.71	5.98	6.19	4.39	4.92	--	5.67	--	6.22	5.57	--	--	5.23	5.72	5.85	--	6.60	--	7.24	--	6.80	--	6.30
MW3	11.02	Shallow	6.35	--	--	4.40	5.30	--	5.85	--	--	5.92	5.92	--	5.68	6.40	--	--	7.25	--	7.83	--	--	--	--
MW4	14.83	Shallow	--	--	--	--	--	--	--	--	--	--	--	--	--	--	NM	NM	NM	NM	--	--	--	--	--
MW5	9.73	Shallow	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW6	10.71	Deep	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
MW7	10.00	Shallow	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW8	10.73	Shallow	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW9	10.27	Deep	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
MW10	11.49	Shallow	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	NM	--	--	--	--	--	--	--
MW12	InD	Shallow	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
MW13	8.32	Shallow	--	--	--	NM	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	NM	NM	--
MW14	7.32	Shallow	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
MW15	8.26	Shallow	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW16	8.77	Shallow	--	--	--	NM	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW17	8.95	Shallow	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW18	10.80	Shallow	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW19	11.85	Shallow	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW20	10.64	Shallow	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW21	7.13	Deep	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
MW22	InD	Deep	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW23	11.07	Shallow	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW24	12.17	Shallow	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
PW1	10.08	Shallow	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PW2	12.14	Shallow	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW1/45	11.43	Shallow	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW4/45	InD	Shallow	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL

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TABLE A-2 (page 4 of 5)
Depth to Product Data Over Time
Building 45 Site

Location	Top of Casing Elevation [1]	Screen Zone	6/26/2001	6/26/2001	7/17/2001	8/9/2001	8/16/2001	8/16/2001	8/29/2001	8/29/2001	9/10/2001	10/3/2001	10/3/2001	10/16/2001	10/30/2001	10/30/2001	11/5/2001	11/27/2001	11/27/2001	12/3/2001	12/13/2001	12/13/2001	1/16/2002	2/19/2002	3/21/2002
MW2	10.84	Shallow	6.80	--	7.03	7.88	7.88	--	8.25	--	7.02	8.25	8.25	8.88	8.90	8.25	Trace	Trace	--	--	--	--	--	--	--
MW3	11.02	Shallow	--	--	--	8.40	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW4	14.83	Shallow	--	--	--	--	NM	NM	NM	NM	--	--	--	--	--	--	--	--	--	--	NM	NM	--	--	--
MW5	9.73	Shallow	--	--	--	--	--	--	NM	--	--	--	--	--	--	--	--	--	--	--	NM	NM	--	--	--
MW6	10.71	Deep	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
MW7	10.00	Shallow	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW8	10.73	Shallow	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	NM	NM	--	--	--
MW9	10.27	Deep	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
MW10	11.49	Shallow	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW12	InD	Shallow	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
MW13	8.32	Shallow	NM	NM	--	--	NM	NM	NM	NM	--	NM	NM	--	NM	NM	--	--	--	--	NM	NM	--	--	--
MW14	7.32	Shallow	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
MW15	8.26	Shallow	--	--	--	--	NM	NM	--	--	--	NM	NM	--	NM	NM	--	--	--	--	NM	NM	--	--	--
MW16	8.77	Shallow	--	--	--	--	NM	NM	--	--	--	NM	NM	--	NM	NM	--	--	--	--	NM	NM	--	--	--
MW17	8.95	Shallow	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW18	10.80	Shallow	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW19	11.85	Shallow	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW20	10.64	Shallow	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW21	7.13	Deep	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL
MW22	InD	Deep	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
MW23	11.07	Shallow	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW24	12.17	Shallow	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
PW1	10.08	Shallow	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PW2	12.14	Shallow	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI
MW1/45	11.43	Shallow	--	--	--	--	NM	NM	--	--	--	NM	NM	--	NM	NM	--	--	--	--	NM	NM	--	--	--
MW4/45	InD	Shallow	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL	NL

Top of casing elevation expressed in feet above/below MSL
BTOC - below top of casing
MSL - mean sea level
"--": indicates no measurable product detected

ABD: Abandoned; well abandonded at time of measurement
INA: Inaccessible; well inaccessible at time of measurement (under water, surrounded by water, or covered by soil)
NC: Insufficient data to calcuate groundwater elevation or product thickness
NF: Not Found; well could not be found

NI: Not Installed; well not installed at the time of measurement
NL: Not Listed; well not listed in source document
NM: Not Measured; well not measured, reason not stated

TABLE A-2 (page 5 of 5)
Depth to Product Data Over Time
Building 45 Site

Location	Top of Casing Elevatiion [1]	Screen Zone	4/17/2002	5/15/2002	7/17/2002	9/29/2003	12/23/2003	1/15/2004	2/9/2004	3/8/2004	4/6/2004	5/3/2004	6/11/2004	7/14/2004	8/14/2004	9/13/2004	10/5/2004	12/20/2004	1/6/2005	2/1/2005	3/3/2005	4/22/2005	5/26/2005	6/14/2005	7/27/2005	8/4/2005
MW2	10.84	Shallow	--	--	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD
MW3	11.02	Shallow	--	--	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD
MW4	14.83	Shallow	--	--	--	NM	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW5	9.73	Shallow	--	--	--	NM	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW6	10.71	Deep	NL	NL	NL	NM	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW7	10.00	Shallow	--	--	--	NM	--	--	--	--	--	INA	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW8	10.73	Shallow	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW9	10.27	Deep	NL	NL	NL	--	--	--	--	--	--	INA	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW10	11.49	Shallow	--	--	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD
MW12	InD	Shallow	NL	NL	NL	NM	NM	NM	NM	NM	--	INA	NM	NM	--	--	--	--	--	--	--	--	--	--	--	--
MW13	8.32	Shallow	--	--	--	--	--	--	--	--	--	INA	INA	NM	INA	--	--	--	--	--	--	--	--	--	--	--
MW14	7.32	Shallow	NL	NL	NL	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW15	8.26	Shallow	--	--	--	--	--	--	--	--	--	INA	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW16	8.77	Shallow	--	--	--	--	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD
MW17	8.95	Shallow	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW18	10.80	Shallow	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW19	11.85	Shallow	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW20	10.64	Shallow	--	--	--	--	--	--	--	--	--	INA	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW21	7.13	Deep	NL	NL	NL	NM	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW22	InD	Deep	NM	--	NM	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF	NF
MW23	11.07	Shallow	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	--	--	--	--	--	--
MW24	12.17	Shallow	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	--	--	--	--	--	--
PW1	10.08	Shallow	--	--	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD	ABD
PW2	12.14	Shallow	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	NI	--	--	--	--	--	--
MW1/45	11.43	Shallow	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW4/45	InD	Shallow	NL	NL	NL	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Top of casing elevation expressed in feet above/below MSL
BTOC - below top of casing
MSL - mean sea level
"--": indicates no measurable product detected

ABD: Abandoned; well abandonded at time of measurement
INA: Inaccessible; well inaccessible at time of measurement (under water, surrounded by water, or covered by soil)
NC: Insufficient data to calcuate groundwater elevation or product thickness
NF: Not Found; well could not be found

NI: Not Installed; well not installed at the time of measurement
NL: Not Listed; well not listed in source document
NM: Not Measured; well not measured, reason not stated

APPENDIX B

LABORATORY REPORTS AND CHAIN OF CUSTODY DOCUMENTATION FROM 2005 AND 2006 SAMPLING EVENTS

Mr. Chris Murray
Sovereign Consulting
606 Thimble Shoals Rd.
Suite A1
Newport-News VA 23606
Report Number: G650-5

Client Project: Bldg 45

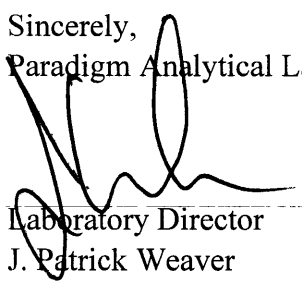
Dear Mr. Murray:

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

Thank you for using 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,
Paradigm Analytical Laboratories, Inc.



11/14/05

Laboratory Director — Date
J. Patrick Weaver

Results for Volatiles in Air

by GC/MS

Client Sample ID: UST45-EFF
Client Project ID: Bldg 45
Lab Sample ID: G650-5-1
Lab Project ID: G650-5

Analyzed By: MRC
Date Collected: 10/28/2005 13:30
Date Received: 10/28/2005
Matrix: Air

Compound	Result mg/m3	Quantitation Limit mg/m3	Dilution Factor	Date Analyzed
Benzene	BQL	200	1	11/11/2005
Ethylbenzene	BQL	200	1	11/11/2005
Toluene	**388**	200	1	11/11/2005
m-,p-Xylene	BQL	400	1	11/11/2005
o-Xylene	BQL	200	1	11/11/2005

Comments:

Quantitation at 25°C and 1 atm.

Flags:

BQL = Below quantitation limit.

Reviewed By: mc

Results for Volatiles
by GC 602

Client Sample ID: UST45/S941-MW04/45
Client Project ID: Bldg 45
Lab Sample ID: G650-5-2A
Lab Project ID: G650-5

Analyzed By: MJC
Date Collected: 10/27/05 15:10
Date Received: 10/28/05
Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.316	1	11/2/05	
Diisopropyl ether (DIPE)	BQL	1.00	0.294	1	11/2/05	
Ethylbenzene	BQL	1.00	0.299	1	11/2/05	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.588	1	11/2/05	
Toluene	BQL	1.00	0.302	1	11/2/05	
m/p-Xylene	BQL	2.00	0.608	1	11/2/05	
o-Xylene	BQL	2.00	0.596	1	11/2/05	

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	40.0	100

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

Reviewed By: _____
GC_LIMS_v2.0.XLS

Results for Volatiles
by GC 602

Client Sample ID: UST45/S941-MW01/45
Client Project ID: Bldg 45
Lab Sample ID: G650-5-3A
Lab Project ID: G650-5

Analyzed By: MJC
Date Collected: 10/27/05 16:15
Date Received: 10/28/05
Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.316	1	11/7/05	
Diisopropyl ether (DIPE)	BQL	1.00	0.294	1	11/7/05	
Ethylbenzene	BQL	1.00	0.299	1	11/7/05	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.588	1	11/7/05	
Toluene	BQL	1.00	0.302	1	11/7/05	
m/p-Xylene	BQL	2.00	0.608	1	11/7/05	
o-Xylene	BQL	2.00	0.596	1	11/7/05	

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_LIMS_v2.0.XLS

Results for Volatiles
by GC 602

Client Sample ID: UST45/S941-MW13
Client Project ID: Bldg 45
Lab Sample ID: G650-5-4A
Lab Project ID: G650-5

Analyzed By: MJC
Date Collected: 10/27/05 17:10
Date Received: 10/28/05
Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.316	1	11/7/05	
Diisopropyl ether (DIPE)	BQL	1.00	0.294	1	11/7/05	
Ethylbenzene	BQL	1.00	0.299	1	11/7/05	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.588	1	11/7/05	
Toluene	BQL	1.00	0.302	1	11/7/05	
m/p-Xylene	BQL	2.00	0.608	1	11/7/05	
o-Xylene	BQL	2.00	0.596	1	11/7/05	

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	40.6	102

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

Reviewed By: _____
GC_LIMS_v2.0.XLS

Results for Volatiles

by GC 602

Client Sample ID: UST45/S941-MW15
Client Project ID: Bldg 45
Lab Sample ID: G650-5-5A
Lab Project ID: G650-5

Analyzed By: MJC
Date Collected: 10/28/05 14:50
Date Received: 10/28/05
Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.316	1	11/7/05	
Diisopropyl ether (DIPE)	BQL	1.00	0.294	1	11/7/05	
Ethylbenzene	BQL	1.00	0.299	1	11/7/05	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.588	1	11/7/05	
Toluene	BQL	1.00	0.302	1	11/7/05	
m/p-Xylene	BQL	2.00	0.608	1	11/7/05	
o-Xylene	BQL	2.00	0.596	1	11/7/05	

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	40.5	101

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

Reviewed By: _____
GC_LIMS_v2.0.XLS

Results for Volatiles

by GC 602

Client Sample ID: UST45/S941-MW14
Client Project ID: Bldg 45
Lab Sample ID: G650-5-6A
Lab Project ID: G650-5

Analyzed By: MJC
Date Collected: 10/28/05 14:20
Date Received: 10/28/05
Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.316	1	11/7/05	
Diisopropyl ether (DIPE)	BQL	1.00	0.294	1	11/7/05	
Ethylbenzene	BQL	1.00	0.299	1	11/7/05	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.588	1	11/7/05	
Toluene	BQL	1.00	0.302	1	11/7/05	
m/p-Xylene	BQL	2.00	0.608	1	11/7/05	
o-Xylene	BQL	2.00	0.596	1	11/7/05	

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	40.5	101

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

Reviewed By: _____
GC_LIMS_v2.0.XLS

Results for Volatiles
by GC 602

Client Sample ID: UST45/S941-MW21
Client Project ID: Bldg 45
Lab Sample ID: G650-5-7A
Lab Project ID: G650-5

Analyzed By: MJC
Date Collected: 10/27/05 12:55
Date Received: 10/28/05
Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.316	1	11/7/05	
Diisopropyl ether (DIPE)	BQL	1.00	0.294	1	11/7/05	
Ethylbenzene	BQL	1.00	0.299	1	11/7/05	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.588	1	11/7/05	
Toluene	BQL	1.00	0.302	1	11/7/05	
m/p-Xylene	BQL	2.00	0.608	1	11/7/05	
o-Xylene	BQL	2.00	0.596	1	11/7/05	

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	40.6	101

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

Reviewed By: _____
GC_LIMS_v2.0.XLS

Results for Semivolatiles
by GCMS 625

Client Sample ID: UST45/S941-MW04/45
Client Project ID: Bldg 45
Lab Sample ID: G650-5-2F
Lab Project ID: G650-5

Analyzed By: MRC
Date Collected: 10/27/2005 15:10
Date Received: 10/28/2005
Date Extracted: 11/1/2005
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	Dilution Factor	Date Analyzed
Acenaphthene	BQL	10.0	1	11/3/2005
Acenaphthylene	BQL	10.0	1	11/3/2005
Anthracene	BQL	10.0	1	11/3/2005
Benzo[a]anthracene	BQL	10.0	1	11/3/2005
Benzo[a]pyrene	BQL	10.0	1	11/3/2005
Benzo[b]fluoranthene	BQL	10.0	1	11/3/2005
Benzo[g,h,i]perylene	BQL	10.0	1	11/3/2005
Benzo[k]fluoranthene	BQL	10.0	1	11/3/2005
Bis(2-chloroethoxy)methane	BQL	10.0	1	11/3/2005
Bis(2-chloroethyl)ether	BQL	10.0	1	11/3/2005
Bis(2-chloroisopropyl)ether	BQL	10.0	1	11/3/2005
Bis(2-ethylhexyl)phthalate	BQL	10.0	1	11/3/2005
4-bromophenyl phenyl ether	BQL	10.0	1	11/3/2005
Butylbenzylphthalate	BQL	10.0	1	11/3/2005
2-Chloronaphthalene	BQL	10.0	1	11/3/2005
2-Chlorophenol	BQL	10.0	1	11/3/2005
4-Chloro-3-methylphenol	BQL	10.0	1	11/3/2005
4-Chlorophenyl phenyl ether	BQL	10.0	1	11/3/2005
Chrysene	BQL	10.0	1	11/3/2005
Dibenzo[a,h]anthracene	BQL	10.0	1	11/3/2005
Di-n-Butylphthalate	BQL	10.0	1	11/3/2005
1,2-Dichlorobenzene	BQL	10.0	1	11/3/2005
1,3-Dichlorobenzene	BQL	10.0	1	11/3/2005
1,4-Dichlorobenzene	BQL	10.0	1	11/3/2005
3,3'-Dichlorobenzidine	BQL	20.0	1	11/3/2005
2,4-Dichlorophenol	BQL	10.0	1	11/3/2005
Diethylphthalate	BQL	10.0	1	11/3/2005
Dimethylphthalate	BQL	10.0	1	11/3/2005
2,4-Dimethylphenol	BQL	10.0	1	11/3/2005
Di-n-octylphthalate	BQL	10.0	1	11/3/2005
4,6-Dinitro-2-methylphenol	BQL	50.0	1	11/3/2005
2,4-Dinitrophenol	BQL	50.0	1	11/3/2005
2,4-Dinitrotoluene	BQL	10.0	1	11/3/2005
2,6-Dinitrotoluene	BQL	10.0	1	11/3/2005
Diphenylamine *	BQL	10.0	1	11/3/2005
Fluoranthene	BQL	10.0	1	11/3/2005
Fluorene	BQL	10.0	1	11/3/2005
Hexachlorobenzene	BQL	10.0	1	11/3/2005
Hexachlorobutadiene	BQL	10.0	1	11/3/2005
Hexachlorocyclopentadiene	BQL	20.0	1	11/3/2005
Hexachloroethane	BQL	10.0	1	11/3/2005
Indeno(1,2,3-c,d)pyrene	BQL	10.0	1	11/3/2005

Results for Semivolatiles
by GCMS 625

Client Sample ID: UST45/S941-MW04/45
Client Project ID: Bldg 45
Lab Sample ID: G650-5-2F
Lab Project ID: G650-5

Analyzed By: MRC
Date Collected: 10/27/2005 15:10
Date Received: 10/28/2005
Date Extracted: 11/1/2005
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	Dilution Factor	Date Analyzed
Isophorone	BQL	10.0	1	11/3/2005
Naphthalene	BQL	10.0	1	11/3/2005
Nitrobenzene	BQL	10.0	1	11/3/2005
2-Nitrophenol	BQL	10.0	1	11/3/2005
4-Nitrophenol	BQL	50.0	1	11/3/2005
N-Nitrosodi-n-propylamine	BQL	10.0	1	11/3/2005
Pentachlorophenol	BQL	50.0	1	11/3/2005
Phenanthrene	BQL	10.0	1	11/3/2005
Phenol	BQL	10.0	1	11/3/2005
Pyrene	BQL	10.0	1	11/3/2005
1,2,4-Trichlorobenzene	BQL	10.0	1	11/3/2005
2,4,6-Trichlorophenol	BQL	10.0	1	11/3/2005

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	8.9	88
2-Fluorophenol	10	8	80
Nitrobenzene-d5	10	8.6	86
Phenol-d6	10	8.5	85
2,4,6-Tribromophenol	10	8.5	85
4-Terphenyl-d14	10	10.4	104

Comments:

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

Flags:

BQL = Below Quantitation Limits.

Reviewed By: _____

Results for Semivolatiles
by GCMS 625

Client Sample ID: UST45/S941-MW01/45
Client Project ID: Bldg 45
Lab Sample ID: G650-5-3F
Lab Project ID: G650-5

Analyzed By: MRC
Date Collected: 10/27/2005 16:15
Date Received: 10/28/2005
Date Extracted: 11/1/2005
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	Dilution Factor	Date Analyzed
Acenaphthene	BQL	10.0	1	11/3/2005
Acenaphthylene	BQL	10.0	1	11/3/2005
Anthracene	BQL	10.0	1	11/3/2005
Benzo[a]anthracene	BQL	10.0	1	11/3/2005
Benzo[a]pyrene	BQL	10.0	1	11/3/2005
Benzo[b]fluoranthene	BQL	10.0	1	11/3/2005
Benzo[g,h,i]perylene	BQL	10.0	1	11/3/2005
Benzo[k]fluoranthene	BQL	10.0	1	11/3/2005
Bis(2-chloroethoxy)methane	BQL	10.0	1	11/3/2005
Bis(2-chloroethyl)ether	BQL	10.0	1	11/3/2005
Bis(2-chloroisopropyl)ether	BQL	10.0	1	11/3/2005
Bis(2-ethylhexyl)phthalate	BQL	10.0	1	11/3/2005
4-bromophenyl phenyl ether	BQL	10.0	1	11/3/2005
Butylbenzylphthalate	BQL	10.0	1	11/3/2005
2-Chloronaphthalene	BQL	10.0	1	11/3/2005
2-Chlorophenol	BQL	10.0	1	11/3/2005
4-Chloro-3-methylphenol	BQL	10.0	1	11/3/2005
4-Chlorophenyl phenyl ether	BQL	10.0	1	11/3/2005
Chrysene	BQL	10.0	1	11/3/2005
Dibenzo[a,h]anthracene	BQL	10.0	1	11/3/2005
Di-n-Butylphthalate	BQL	10.0	1	11/3/2005
1,2-Dichlorobenzene	BQL	10.0	1	11/3/2005
1,3-Dichlorobenzene	BQL	10.0	1	11/3/2005
1,4-Dichlorobenzene	BQL	10.0	1	11/3/2005
3,3'-Dichlorobenzidine	BQL	20.0	1	11/3/2005
2,4-Dichlorophenol	BQL	10.0	1	11/3/2005
Diethylphthalate	BQL	10.0	1	11/3/2005
Dimethylphthalate	BQL	10.0	1	11/3/2005
2,4-Dimethylphenol	BQL	10.0	1	11/3/2005
Di-n-octylphthalate	BQL	10.0	1	11/3/2005
4,6-Dinitro-2-methylphenol	BQL	50.0	1	11/3/2005
2,4-Dinitrophenol	BQL	50.0	1	11/3/2005
2,4-Dinitrotoluene	BQL	10.0	1	11/3/2005
2,6-Dinitrotoluene	BQL	10.0	1	11/3/2005
Diphenylamine *	BQL	10.0	1	11/3/2005
Fluoranthene	BQL	10.0	1	11/3/2005
Fluorene	BQL	10.0	1	11/3/2005
Hexachlorobenzene	BQL	10.0	1	11/3/2005
Hexachlorobutadiene	BQL	10.0	1	11/3/2005
Hexachlorocyclopentadiene	BQL	20.0	1	11/3/2005
Hexachloroethane	BQL	10.0	1	11/3/2005
Indeno(1,2,3-c,d)pyrene	BQL	10.0	1	11/3/2005

Results for Semivolatiles
by GCMS 625

Client Sample ID: UST45/S941-MW01/45
Client Project ID: Bldg 45
Lab Sample ID: G650-5-3F
Lab Project ID: G650-5

Analyzed By: MRC
Date Collected: 10/27/2005 16:15
Date Received: 10/28/2005
Date Extracted: 11/1/2005
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	Dilution Factor	Date Analyzed
Isophorone	BQL	10.0	1	11/3/2005
Naphthalene	BQL	10.0	1	11/3/2005
Nitrobenzene	BQL	10.0	1	11/3/2005
2-Nitrophenol	BQL	10.0	1	11/3/2005
4-Nitrophenol	BQL	50.0	1	11/3/2005
N-Nitrosodi-n-propylamine	BQL	10.0	1	11/3/2005
Pentachlorophenol	BQL	50.0	1	11/3/2005
Phenanthrene	BQL	10.0	1	11/3/2005
Phenol	BQL	10.0	1	11/3/2005
Pyrene	BQL	10.0	1	11/3/2005
1,2,4-Trichlorobenzene	BQL	10.0	1	11/3/2005
2,4,6-Trichlorophenol	BQL	10.0	1	11/3/2005

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	8.6	86
2-Fluorophenol	10	7.9	79
Nitrobenzene-d5	10	8.3	83
Phenol-d6	10	8.4	84
2,4,6-Tribromophenol	10	8.6	86
4-Terphenyl-d14	10	9.5	94

Comments:

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

Flags:

BQL = Below Quantitation Limits.

Reviewed By: _____

Results for Semivolatiles
by GCMS 625

Client Sample ID: UST45/S941-MW13
Client Project ID: Bldg 45
Lab Sample ID: G650-5-4F
Lab Project ID: G650-5

Analyzed By: MRC
Date Collected: 10/27/2005 17:10
Date Received: 10/28/2005
Date Extracted: 11/1/2005
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	Dilution Factor	Date Analyzed
Acenaphthene	BQL	10.0	1	11/3/2005
Acenaphthylene	BQL	10.0	1	11/3/2005
Anthracene	BQL	10.0	1	11/3/2005
Benzo[a]anthracene	BQL	10.0	1	11/3/2005
Benzo[a]pyrene	BQL	10.0	1	11/3/2005
Benzo[b]fluoranthene	BQL	10.0	1	11/3/2005
Benzo[g,h,i]perylene	BQL	10.0	1	11/3/2005
Benzo[k]fluoranthene	BQL	10.0	1	11/3/2005
Bis(2-chloroethoxy)methane	BQL	10.0	1	11/3/2005
Bis(2-chloroethyl)ether	BQL	10.0	1	11/3/2005
Bis(2-chloroisopropyl)ether	BQL	10.0	1	11/3/2005
Bis(2-ethylhexyl)phthalate	BQL	10.0	1	11/3/2005
4-bromophenyl phenyl ether	BQL	10.0	1	11/3/2005
Butylbenzylphthalate	BQL	10.0	1	11/3/2005
2-Chloronaphthalene	BQL	10.0	1	11/3/2005
2-Chlorophenol	BQL	10.0	1	11/3/2005
4-Chloro-3-methylphenol	BQL	10.0	1	11/3/2005
4-Chlorophenyl phenyl ether	BQL	10.0	1	11/3/2005
Chrysene	BQL	10.0	1	11/3/2005
Dibenzo[a,h]anthracene	BQL	10.0	1	11/3/2005
Di-n-Butylphthalate	BQL	10.0	1	11/3/2005
1,2-Dichlorobenzene	BQL	10.0	1	11/3/2005
1,3-Dichlorobenzene	BQL	10.0	1	11/3/2005
1,4-Dichlorobenzene	BQL	10.0	1	11/3/2005
3,3'-Dichlorobenzidine	BQL	20.0	1	11/3/2005
2,4-Dichlorophenol	BQL	10.0	1	11/3/2005
Diethylphthalate	BQL	10.0	1	11/3/2005
Dimethylphthalate	BQL	10.0	1	11/3/2005
2,4-Dimethylphenol	BQL	10.0	1	11/3/2005
Di-n-octylphthalate	BQL	10.0	1	11/3/2005
4,6-Dinitro-2-methylphenol	BQL	50.0	1	11/3/2005
2,4-Dinitrophenol	BQL	50.0	1	11/3/2005
2,4-Dinitrotoluene	BQL	10.0	1	11/3/2005
2,6-Dinitrotoluene	BQL	10.0	1	11/3/2005
Diphenylamine *	BQL	10.0	1	11/3/2005
Fluoranthene	BQL	10.0	1	11/3/2005
Fluorene	BQL	10.0	1	11/3/2005
Hexachlorobenzene	BQL	10.0	1	11/3/2005
Hexachlorobutadiene	BQL	10.0	1	11/3/2005
Hexachlorocyclopentadiene	BQL	20.0	1	11/3/2005
Hexachloroethane	BQL	10.0	1	11/3/2005
Indeno(1,2,3-c,d)pyrene	BQL	10.0	1	11/3/2005

Results for Semivolatiles
by GCMS 625

Client Sample ID: UST45/S941-MW13
Client Project ID: Bldg 45
Lab Sample ID: G650-5-4F
Lab Project ID: G650-5

Analyzed By: MRC
Date Collected: 10/27/2005 17:10
Date Received: 10/28/2005
Date Extracted: 11/1/2005
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	Dilution Factor	Date Analyzed
Isophorone	BQL	10.0	1	11/3/2005
Naphthalene	BQL	10.0	1	11/3/2005
Nitrobenzene	BQL	10.0	1	11/3/2005
2-Nitrophenol	BQL	10.0	1	11/3/2005
4-Nitrophenol	BQL	50.0	1	11/3/2005
N-Nitrosodi-n-propylamine	BQL	10.0	1	11/3/2005
Pentachlorophenol	BQL	50.0	1	11/3/2005
Phenanthrene	BQL	10.0	1	11/3/2005
Phenol	BQL	10.0	1	11/3/2005
Pyrene	BQL	10.0	1	11/3/2005
1,2,4-Trichlorobenzene	BQL	10.0	1	11/3/2005
2,4,6-Trichlorophenol	BQL	10.0	1	11/3/2005

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	8.9	89
2-Fluorophenol	10	8.3	83
Nitrobenzene-d5	10	8.7	87
Phenol-d6	10	8.6	86
2,4,6-Tribromophenol	10	8.4	84
4-Terphenyl-d14	10	11.1	111

Comments:

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

Flags:

BQL = Below Quantitation Limits.

Reviewed By: _____

Results for Semivolatiles
by GCMS 625

Client Sample ID: UST45/S941-MW15
Client Project ID: Bldg 45
Lab Sample ID: G650-5-5F
Lab Project ID: G650-5

Analyzed By: MRC
Date Collected: 10/28/2005 14:50
Date Received: 10/28/2005
Date Extracted: 11/1/2005
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	Dilution Factor	Date Analyzed
Acenaphthene	BQL	10.0	1	11/3/2005
Acenaphthylene	BQL	10.0	1	11/3/2005
Anthracene	BQL	10.0	1	11/3/2005
Benzo[a]anthracene	BQL	10.0	1	11/3/2005
Benzo[a]pyrene	BQL	10.0	1	11/3/2005
Benzo[b]fluoranthene	BQL	10.0	1	11/3/2005
Benzo[g,h,i]perylene	BQL	10.0	1	11/3/2005
Benzo[k]fluoranthene	BQL	10.0	1	11/3/2005
Bis(2-chloroethoxy)methane	BQL	10.0	1	11/3/2005
Bis(2-chloroethyl)ether	BQL	10.0	1	11/3/2005
Bis(2-chloroisopropyl)ether	BQL	10.0	1	11/3/2005
Bis(2-ethylhexyl)phthalate	BQL	10.0	1	11/3/2005
4-bromophenyl phenyl ether	BQL	10.0	1	11/3/2005
Butylbenzylphthalate	BQL	10.0	1	11/3/2005
2-Chloronaphthalene	BQL	10.0	1	11/3/2005
2-Chlorophenol	BQL	10.0	1	11/3/2005
4-Chloro-3-methylphenol	BQL	10.0	1	11/3/2005
4-Chlorophenyl phenyl ether	BQL	10.0	1	11/3/2005
Chrysene	BQL	10.0	1	11/3/2005
Dibenzo[a,h]anthracene	BQL	10.0	1	11/3/2005
Di-n-Butylphthalate	BQL	10.0	1	11/3/2005
1,2-Dichlorobenzene	BQL	10.0	1	11/3/2005
1,3-Dichlorobenzene	BQL	10.0	1	11/3/2005
1,4-Dichlorobenzene	BQL	10.0	1	11/3/2005
3,3'-Dichlorobenzidine	BQL	20.0	1	11/3/2005
2,4-Dichlorophenol	BQL	10.0	1	11/3/2005
Diethylphthalate	BQL	10.0	1	11/3/2005
Dimethylphthalate	BQL	10.0	1	11/3/2005
2,4-Dimethylphenol	BQL	10.0	1	11/3/2005
Di-n-octylphthalate	BQL	10.0	1	11/3/2005
4,6-Dinitro-2-methylphenol	BQL	50.0	1	11/3/2005
2,4-Dinitrophenol	BQL	50.0	1	11/3/2005
2,4-Dinitrotoluene	BQL	10.0	1	11/3/2005
2,6-Dinitrotoluene	BQL	10.0	1	11/3/2005
Diphenylamine *	BQL	10.0	1	11/3/2005
Fluoranthene	BQL	10.0	1	11/3/2005
Fluorene	BQL	10.0	1	11/3/2005
Hexachlorobenzene	BQL	10.0	1	11/3/2005
Hexachlorobutadiene	BQL	10.0	1	11/3/2005
Hexachlorocyclopentadiene	BQL	20.0	1	11/3/2005
Hexachloroethane	BQL	10.0	1	11/3/2005
Indeno(1,2,3-c,d)pyrene	BQL	10.0	1	11/3/2005

Results for Semivolatiles
by GCMS 625

Client Sample ID: UST45/S941-MW15
Client Project ID: Bldg 45
Lab Sample ID: G650-5-5F
Lab Project ID: G650-5

Analyzed By: MRC
Date Collected: 10/28/2005 14:50
Date Received: 10/28/2005
Date Extracted: 11/1/2005
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	Dilution Factor	Date Analyzed
Isophorone	BQL	10.0	1	11/3/2005
Naphthalene	BQL	10.0	1	11/3/2005
Nitrobenzene	BQL	10.0	1	11/3/2005
2-Nitrophenol	BQL	10.0	1	11/3/2005
4-Nitrophenol	BQL	50.0	1	11/3/2005
N-Nitrosodi-n-propylamine	BQL	10.0	1	11/3/2005
Pentachlorophenol	BQL	50.0	1	11/3/2005
Phenanthrene	BQL	10.0	1	11/3/2005
Phenol	BQL	10.0	1	11/3/2005
Pyrene	BQL	10.0	1	11/3/2005
1,2,4-Trichlorobenzene	BQL	10.0	1	11/3/2005
2,4,6-Trichlorophenol	BQL	10.0	1	11/3/2005

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	7.9	79
2-Fluorophenol	10	7.2	73
Nitrobenzene-d5	10	7.8	78
Phenol-d6	10	7.7	78
2,4,6-Tribromophenol	10	7.4	74
4-Terphenyl-d14	10	10.4	104

Comments:

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

Flags:

BQL = Below Quantitation Limits.

Reviewed By: _____

Results for Semivolatiles
by GCMS 625

Client Sample ID: UST45/S941-MW14
Client Project ID: Bldg 45
Lab Sample ID: G650-5-6F
Lab Project ID: G650-5

Analyzed By: MRC
Date Collected: 10/28/2005 14:20
Date Received: 10/28/2005
Date Extracted: 11/1/2005
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	Dilution Factor	Date Analyzed
Acenaphthene	BQL	10.0	1	11/3/2005
Acenaphthylene	BQL	10.0	1	11/3/2005
Anthracene	BQL	10.0	1	11/3/2005
Benzo[a]anthracene	BQL	10.0	1	11/3/2005
Benzo[a]pyrene	BQL	10.0	1	11/3/2005
Benzo[b]fluoranthene	BQL	10.0	1	11/3/2005
Benzo[g,h,i]perylene	BQL	10.0	1	11/3/2005
Benzo[k]fluoranthene	BQL	10.0	1	11/3/2005
Bis(2-chloroethoxy)methane	BQL	10.0	1	11/3/2005
Bis(2-chloroethyl)ether	BQL	10.0	1	11/3/2005
Bis(2-chloroisopropyl)ether	BQL	10.0	1	11/3/2005
Bis(2-ethylhexyl)phthalate	BQL	10.0	1	11/3/2005
4-bromophenyl phenyl ether	BQL	10.0	1	11/3/2005
Butylbenzylphthalate	BQL	10.0	1	11/3/2005
2-Chloronaphthalene	BQL	10.0	1	11/3/2005
2-Chlorophenol	BQL	10.0	1	11/3/2005
4-Chloro-3-methylphenol	BQL	10.0	1	11/3/2005
4-Chlorophenyl phenyl ether	BQL	10.0	1	11/3/2005
Chrysene	BQL	10.0	1	11/3/2005
Dibenzo[a,h]anthracene	BQL	10.0	1	11/3/2005
Di-n-Butylphthalate	BQL	10.0	1	11/3/2005
1,2-Dichlorobenzene	BQL	10.0	1	11/3/2005
1,3-Dichlorobenzene	BQL	10.0	1	11/3/2005
1,4-Dichlorobenzene	BQL	10.0	1	11/3/2005
3,3'-Dichlorobenzidine	BQL	20.0	1	11/3/2005
2,4-Dichlorophenol	BQL	10.0	1	11/3/2005
Diethylphthalate	BQL	10.0	1	11/3/2005
Dimethylphthalate	BQL	10.0	1	11/3/2005
2,4-Dimethylphenol	BQL	10.0	1	11/3/2005
Di-n-octylphthalate	BQL	10.0	1	11/3/2005
4,6-Dinitro-2-methylphenol	BQL	50.0	1	11/3/2005
2,4-Dinitrophenol	BQL	50.0	1	11/3/2005
2,4-Dinitrotoluene	BQL	10.0	1	11/3/2005
2,6-Dinitrotoluene	BQL	10.0	1	11/3/2005
Diphenylamine *	BQL	10.0	1	11/3/2005
Fluoranthene	BQL	10.0	1	11/3/2005
Fluorene	BQL	10.0	1	11/3/2005
Hexachlorobenzene	BQL	10.0	1	11/3/2005
Hexachlorobutadiene	BQL	10.0	1	11/3/2005
Hexachlorocyclopentadiene	BQL	20.0	1	11/3/2005
Hexachloroethane	BQL	10.0	1	11/3/2005
Indeno(1,2,3-c,d)pyrene	BQL	10.0	1	11/3/2005

Results for Semivolatiles
by GCMS 625

Client Sample ID: UST45/S941-MW14
Client Project ID: Bldg 45
Lab Sample ID: G650-5-6F
Lab Project ID: G650-5

Analyzed By: MRC
Date Collected: 10/28/2005 14:20
Date Received: 10/28/2005
Date Extracted: 11/1/2005
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	Dilution Factor	Date Analyzed
Isophorone	BQL	10.0	1	11/3/2005
Naphthalene	BQL	10.0	1	11/3/2005
Nitrobenzene	BQL	10.0	1	11/3/2005
2-Nitrophenol	BQL	10.0	1	11/3/2005
4-Nitrophenol	BQL	50.0	1	11/3/2005
N-Nitrosodi-n-propylamine	BQL	10.0	1	11/3/2005
Pentachlorophenol	BQL	50.0	1	11/3/2005
Phenanthrene	BQL	10.0	1	11/3/2005
Phenol	BQL	10.0	1	11/3/2005
Pyrene	BQL	10.0	1	11/3/2005
1,2,4-Trichlorobenzene	BQL	10.0	1	11/3/2005
2,4,6-Trichlorophenol	BQL	10.0	1	11/3/2005

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	7.6	76
2-Fluorophenol	10	6.5	65
Nitrobenzene-d5	10	7.3	73
Phenol-d6	10	7.2	72
2,4,6-Tribromophenol	10	7.4	74
4-Terphenyl-d14	10	10.5	105

Comments:

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

Flags:

BQL = Below Quantitation Limits.

Reviewed By: _____

Results for Semivolatiles
by GCMS 625

Client Sample ID: UST45/S941-MW21
Client Project ID: Bldg 45
Lab Sample ID: G650-5-7F
Lab Project ID: G650-5

Analyzed By: MRC
Date Collected: 10/27/2005 12:55
Date Received: 10/28/2005
Date Extracted: 11/1/2005
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	Dilution Factor	Date Analyzed
Acenaphthene	BQL	10.0	1	11/4/2005
Acenaphthylene	BQL	10.0	1	11/4/2005
Anthracene	BQL	10.0	1	11/4/2005
Benzo[a]anthracene	BQL	10.0	1	11/4/2005
Benzo[a]pyrene	BQL	10.0	1	11/4/2005
Benzo[b]fluoranthene	BQL	10.0	1	11/4/2005
Benzo[g,h,i]perylene	BQL	10.0	1	11/4/2005
Benzo[k]fluoranthene	BQL	10.0	1	11/4/2005
Bis(2-chloroethoxy)methane	BQL	10.0	1	11/4/2005
Bis(2-chloroethyl)ether	BQL	10.0	1	11/4/2005
Bis(2-chloroisopropyl)ether	BQL	10.0	1	11/4/2005
Bis(2-ethylhexyl)phthalate	BQL	10.0	1	11/4/2005
4-bromophenyl phenyl ether	BQL	10.0	1	11/4/2005
Butylbenzylphthalate	BQL	10.0	1	11/4/2005
2-Chloronaphthalene	BQL	10.0	1	11/4/2005
2-Chlorophenol	BQL	10.0	1	11/4/2005
4-Chloro-3-methylphenol	BQL	10.0	1	11/4/2005
4-Chlorophenyl phenyl ether	BQL	10.0	1	11/4/2005
Chrysene	BQL	10.0	1	11/4/2005
Dibenzo[a,h]anthracene	BQL	10.0	1	11/4/2005
Di-n-Butylphthalate	BQL	10.0	1	11/4/2005
1,2-Dichlorobenzene	BQL	10.0	1	11/4/2005
1,3-Dichlorobenzene	BQL	10.0	1	11/4/2005
1,4-Dichlorobenzene	BQL	10.0	1	11/4/2005
3,3'-Dichlorobenzidine	BQL	20.0	1	11/4/2005
2,4-Dichlorophenol	BQL	10.0	1	11/4/2005
Diethylphthalate	BQL	10.0	1	11/4/2005
Dimethylphthalate	BQL	10.0	1	11/4/2005
2,4-Dimethylphenol	BQL	10.0	1	11/4/2005
Di-n-octylphthalate	BQL	10.0	1	11/4/2005
4,6-Dinitro-2-methylphenol	BQL	50.0	1	11/4/2005
2,4-Dinitrophenol	BQL	50.0	1	11/4/2005
2,4-Dinitrotoluene	BQL	10.0	1	11/4/2005
2,6-Dinitrotoluene	BQL	10.0	1	11/4/2005
Diphenylamine *	BQL	10.0	1	11/4/2005
Fluoranthene	BQL	10.0	1	11/4/2005
Fluorene	BQL	10.0	1	11/4/2005
Hexachlorobenzene	BQL	10.0	1	11/4/2005
Hexachlorobutadiene	BQL	10.0	1	11/4/2005
Hexachlorocyclopentadiene	BQL	20.0	1	11/4/2005
Hexachloroethane	BQL	10.0	1	11/4/2005
Indeno(1,2,3-c,d)pyrene	BQL	10.0	1	11/4/2005

Results for Semivolatiles
by GCMS 625

Client Sample ID: UST45/S941-MW21
Client Project ID: Bldg 45
Lab Sample ID: G650-5-7F
Lab Project ID: G650-5

Analyzed By: MRC
Date Collected: 10/27/2005 12:55
Date Received: 10/28/2005
Date Extracted: 11/1/2005
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	Dilution Factor	Date Analyzed
Isophorone	BQL	10.0	1	11/4/2005
Naphthalene	BQL	10.0	1	11/4/2005
Nitrobenzene	BQL	10.0	1	11/4/2005
2-Nitrophenol	BQL	10.0	1	11/4/2005
4-Nitrophenol	BQL	50.0	1	11/4/2005
N-Nitrosodi-n-propylamine	BQL	10.0	1	11/4/2005
Pentachlorophenol	BQL	50.0	1	11/4/2005
Phenanthrene	BQL	10.0	1	11/4/2005
Phenol	BQL	10.0	1	11/4/2005
Pyrene	BQL	10.0	1	11/4/2005
1,2,4-Trichlorobenzene	BQL	10.0	1	11/4/2005
2,4,6-Trichlorophenol	BQL	10.0	1	11/4/2005

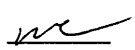
	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	8.2	82
2-Fluorophenol	10	7.5	75
Nitrobenzene-d5	10	8.2	82
Phenol-d6	10	8.1	81
2,4,6-Tribromophenol	10	7.8	78
4-Terphenyl-d14	10	9.9	99

Comments:

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

Flags:

BQL = Below Quantitation Limits.

Reviewed By: 

Results for Metals

Client Sample ID:	UST45/S941-MW04/45	Analyzed By:	RML
Client Project ID:	Bldg 45	Date Collected:	10/27/2005 15:10
Lab Sample ID:	G650-5-2	Date Received:	10/28/05
Lab Project ID:	G650-5	Matrix:	WATER
Batch ID:	3937		

Metals	Result	RL	DF	Units	Method	Date Analyzed
Lead	BQL	5.00	25	UG/L	6020	11/7/05

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
B= Amount in Prep Blank > RL
Samples Prepared by 3030C

Reviewed By: _____
MET_LIMS_3.3

Results for Metals

Client Sample ID:	UST45/S941-MW01/45	Analyzed By:	RML
Client Project ID:	Bldg 45	Date Collected:	10/27/2005 16:15
Lab Sample ID:	G650-5-3	Date Received:	10/28/05
Lab Project ID:	G650-5	Matrix:	WATER
Batch ID:	3937		

Metals	Result	RL	DF	Units	Method	Date Analyzed
Lead	BQL	5.00	25	UG/L	6020	11/7/05

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
B= Amount in Prep Blank > RL
Samples Prepared by 3030C

Reviewed By: _____
MET_LIMS_3 3

Results for Metals

Client Sample ID:	UST45/S941-MW13	Analyzed By:	RML
Client Project ID:	Bldg 45	Date Collected:	10/27/2005 17:10
Lab Sample ID:	G650-5-4	Date Received:	10/28/05
Lab Project ID:	G650-5	Matrix:	WATER
Batch ID:	3937		

Metals	Result	RL	DF	Units	Method	Date Analyzed
Lead	BQL	5.00	25	UG/L	6020	11/7/05

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
B= Amount in Prep Blank > RL
Samples Prepared by 3030C

Reviewed By: _____
MET_LIMS_3 3

Results for Metals

Client Sample ID:	UST45/S941-MW15	Analyzed By:	RML
Client Project ID:	Bldg 45	Date Collected:	10/28/2005 14:50
Lab Sample ID:	G650-5-5	Date Received:	10/28/05
Lab Project ID:	G650-5	Matrix:	WATER
Batch ID:	3937		

Metals	Result	RL	DF	Units	Method	Date Analyzed
Lead	BQL	5.00	25	UG/L	6020	11/7/05

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
B= Amount in Prep Blank > RL
Samples Prepared by 3030C

Reviewed By: _____
MET_LIMS_3 3

Results for Metals

Client Sample ID:	UST45/S941-MW14	Analyzed By:	RML
Client Project ID:	Bldg 45	Date Collected:	10/28/2005 14:20
Lab Sample ID:	G650-5-6	Date Received:	10/28/05
Lab Project ID:	G650-5	Matrix:	WATER
Batch ID:	3937		

Metals	Result	RL	DF	Units	Method	Date Analyzed
Lead	BQL	5.00	25	UG/L	6020	11/7/05

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
B= Amount in Prep Blank > RL
Samples Prepared by 3030C

Reviewed By: _____
MET_LIMS_3.3

Results for Metals

Client Sample ID:	UST45/S941-MW21	Analyzed By:	RML
Client Project ID:	Bldg 45	Date Collected:	10/27/2005 12:55
Lab Sample ID:	G650-5-7	Date Received:	10/28/05
Lab Project ID:	G650-5	Matrix:	WATER
Batch ID:	3937		

Metals	Result	RL	DF	Units	Method	Date Analyzed
Lead	BQL	5.00	25	UG/L	6020	11/7/05

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
B= Amount in Prep Blank > RL
Samples Prepared by 3030C

Reviewed By: _____
MET_LIMS_3 3

List of Reporting Abbreviations and Data Qualifiers

B = Compound also detected in batch blank

BQL = Below Quantitation Limit

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

% soilds = 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.

MI34.092205.2

PARADIGM ANALYTICAL LABORATORIES, INC.
5500 Business Drive, Wilmington, NC 28405
Phone: (910)-350-1903 FAX: (910)-350-1557

Chain-of Custody Record & Analytical Request

COC# 52166

Page _____ **of** _____

Client: SOVEREIGN Consulting **Project ID:** Bldg 45 **Date:** 10/28/05 **Report To:** Chris Murray@ SOVCON.com

Address: 606 THIMBLE SHOALS RD **Contact:** Chris Murray (PM) **Turnaround:** STANDARD

Address: SUITE A1, NEWPORT NEWS VA 23606 **Phone:** (757) 594-0980 **Job Number:** NV007

Quote #: _____ **Fax:** (757) 594-9227 **P.O. Number:** _____ **Invoice To:** Chris Murray

Sample ID	Date	Time	Matrix	Preservatives: None	HCL	HNO3		Analyses: Modified Method 18	602	625	8021 (PID)							Comments: Please specify any special reporting requirements
																		G650-5
UST 45 - EFF	10/28/05	1330/1639	AIR	2				X										AIR SAMPLED @ .25 ML/Min (Flowrate)
UST 45/5941 - MW04/45	10/27/05	1510	GW	1	3	1			X	X	X							for 2 HOURS -
UST 45/5941 - MW01/45	10/27/05	1615	GW	1	3	1			X	X	X							
UST 45/5941 - MW13	10/27/05	1710	GW	1	3	1			X	X	X							
UST 45/5941 - MW15	10/28/05	1450	GW	1	3	1			X	X	X							
UST 45/5941 - MW14	10/28/05	1420	GW	1	3	1			X	X	X							
UST 45/5941 - MW21	10/27/05	1255	GW	1	3	1			X	X	X							

Relinquished By	Date	Time	Received By	Date	Time	Temperature	State Certification Requested
[signature]	10/28/05	1645	[signature]	10/28/05	1645	ambient	NC _____ SC _____ Other _____
						5.8°C	SEE REVERSE FOR TERMS AND CONDITIONS

ORIGINAL

PARADIGM ANALYTICAL LABORATORIES, INC.

N.C. CERTIFICATION #481

Mr. Chris Murray
Sovereign Consulting
606 Thimble Shoals Rd.
Suite A1
Newport-News VA 23606
Report Number: G650-6

Client Project: Bldg 45
Report Revised: December 21, 2005

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

Thank you for using 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,
Paradigm Analytical Laboratories, Inc.

12/21/05

Laboratory Director — Date
J. Patrick Weaver

CASE NARRATIVE

Date: December 21, 2005

Sovereign Consulting Project ID: Bldg 45
Paradigm Analytical ID: G650-6

Enclosed are the revised analytical results for the project listed above.

Some of the dates of analysis for the 602 results in the original report were incorrect. The enclosed report shows the correct dates of analysis.

Results for Volatiles

by GC 602

Client Sample ID:	UST45/S941-MW09	Analyzed By:	MJC
Client Project ID:	Bldg 45	Date Collected:	11/2/05 11:10
Lab Sample ID:	G650-6-1A	Date Received:	11/3/05
Lab Project ID:	G650-6	Matrix:	Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	**4.69**	1.00	0.316	1	11/9/05	
Diisopropyl ether (DIPE)	BQL	1.00	0.294	1	11/9/05	
Ethylbenzene	BQL	1.00	0.299	1	11/9/05	
Methyl-tert butyl ether (MTBE)	**4.39**	2.00	0.588	1	11/9/05	
Toluene	BQL	1.00	0.302	1	11/9/05	
m/p-Xylene	BQL	2.00	0.608	1	11/9/05	
o-Xylene	BQL	2.00	0.596	1	11/9/05	

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	39.9	99.7

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

Reviewed By: _____

Results for Volatiles
by GC 602

Client Sample ID: UST45/S941-MW07
Client Project ID: Bldg 45
Lab Sample ID: G650-6-2A
Lab Project ID: G650-6

Analyzed By: MJC
Date Collected: 11/2/05 12:25
Date Received: 11/3/05
Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.316	1	11/9/05	
Diisopropyl ether (DIPE)	BQL	1.00	0.294	1	11/9/05	
Ethylbenzene	BQL	1.00	0.299	1	11/9/05	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.588	1	11/9/05	
Toluene	BQL	1.00	0.302	1	11/9/05	
m/p-Xylene	BQL	2.00	0.608	1	11/9/05	
o-Xylene	BQL	2.00	0.596	1	11/9/05	

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	40.7	102

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

Reviewed By: _____

Results for Volatiles

by GC 602

Client Sample ID: UST45/S941-MW06
Client Project ID: Bldg 45
Lab Sample ID: G650-6-3A
Lab Project ID: G650-6

Analyzed By: MJC
Date Collected: 11/2/05 17:45
Date Received: 11/3/05
Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.316	1	11/9/05	
Diisopropyl ether (DIPE)	BQL	1.00	0.294	1	11/9/05	
Ethylbenzene	BQL	1.00	0.299	1	11/9/05	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.588	1	11/9/05	
Toluene	BQL	1.00	0.302	1	11/9/05	
m/p-Xylene	BQL	2.00	0.608	1	11/9/05	
o-Xylene	BQL	2.00	0.596	1	11/9/05	

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	41.1	103

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

Reviewed By: _____

Results for Volatiles

by GC 602

Client Sample ID: UST45/S941-MW08
Client Project ID: Bldg 45
Lab Sample ID: G650-6-4A
Lab Project ID: G650-6

Analyzed By: MJC
Date Collected: 11/2/05 18:15
Date Received: 11/3/05
Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.316	1	11/9/05	
Diisopropyl ether (DIPE)	BQL	1.00	0.294	1	11/9/05	
Ethylbenzene	BQL	1.00	0.299	1	11/9/05	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.588	1	11/9/05	
Toluene	BQL	1.00	0.302	1	11/9/05	
m/p-Xylene	BQL	2.00	0.608	1	11/9/05	
o-Xylene	BQL	2.00	0.596	1	11/9/05	

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	40.6	101

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

Reviewed By: _____

Results for Volatiles

by GC 602

Client Sample ID: UST45/S941-PW01-R
Client Project ID: Bldg 45
Lab Sample ID: G650-6-5A
Lab Project ID: G650-6

Analyzed By: MJC
Date Collected: 11/3/05 10:00
Date Received: 11/3/05
Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.316	1	11/9/05	
Diisopropyl ether (DIPE)	BQL	1.00	0.294	1	11/9/05	
Ethylbenzene	BQL	1.00	0.299	1	11/9/05	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.588	1	11/9/05	
Toluene	BQL	1.00	0.302	1	11/9/05	
m/p-Xylene	BQL	2.00	0.608	1	11/9/05	
o-Xylene	BQL	2.00	0.596	1	11/9/05	

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	41.0	103

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

Reviewed By: _____

Results for Volatiles

by GC 602

Client Sample ID: UST45/S941-MW03-R
Client Project ID: Bldg 45
Lab Sample ID: G650-6-6A
Lab Project ID: G650-6

Analyzed By: MJC
Date Collected: 11/3/05 10:40
Date Received: 11/3/05
Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.316	1	11/9/05	
Diisopropyl ether (DIPE)	BQL	1.00	0.294	1	11/9/05	
Ethylbenzene	BQL	1.00	0.299	1	11/9/05	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.588	1	11/9/05	
Toluene	BQL	1.00	0.302	1	11/9/05	
m/p-Xylene	BQL	2.00	0.608	1	11/9/05	
o-Xylene	BQL	2.00	0.596	1	11/9/05	

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	40.2	100

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

Reviewed By: _____

Results for Volatiles

by GC 602

Client Sample ID: UST45/S941-MW02-R
Client Project ID: Bldg 45
Lab Sample ID: G650-6-7A
Lab Project ID: G650-6

Analyzed By: MJC
Date Collected: 11/3/05 11:25
Date Received: 11/3/05
Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.316	1	11/9/05	
Diisopropyl ether (DIPE)	BQL	1.00	0.294	1	11/9/05	
Ethylbenzene	BQL	1.00	0.299	1	11/9/05	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.588	1	11/9/05	
Toluene	BQL	1.00	0.302	1	11/9/05	
m/p-Xylene	BQL	2.00	0.608	1	11/9/05	
o-Xylene	BQL	2.00	0.596	1	11/9/05	

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	40.3	101

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

Reviewed By: _____
GC_LIMS_v2.0.XLS

Results for Volatiles
by GC 602

Client Sample ID: UST45/S941-MW18
Client Project ID: Bldg 45
Lab Sample ID: G650-6-8A
Lab Project ID: G650-6

Analyzed By: MJC
Date Collected: 11/3/05 14:10
Date Received: 11/3/05
Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.316	1	11/9/05	
Diisopropyl ether (DIPE)	BQL	1.00	0.294	1	11/9/05	
Ethylbenzene	BQL	1.00	0.299	1	11/9/05	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.588	1	11/9/05	
Toluene	BQL	1.00	0.302	1	11/9/05	
m/p-Xylene	BQL	2.00	0.608	1	11/9/05	
o-Xylene	BQL	2.00	0.596	1	11/9/05	

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:

Results for Volatiles
by GC 602

Client Sample ID: UST45/S941-MW19
Client Project ID: Bldg 45
Lab Sample ID: G650-6-9A
Lab Project ID: G650-6

Analyzed By: MJC
Date Collected: 11/3/05 14:55
Date Received: 11/3/05
Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.316	1	11/9/05	
Diisopropyl ether (DIPE)	BQL	1.00	0.294	1	11/9/05	
Ethylbenzene	BQL	1.00	0.299	1	11/9/05	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.588	1	11/9/05	
Toluene	BQL	1.00	0.302	1	11/9/05	
m/p-Xylene	BQL	2.00	0.608	1	11/9/05	
o-Xylene	BQL	2.00	0.596	1	11/9/05	

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	40.2	101

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

Reviewed By:

Results for Volatiles
by GC 602

Client Sample ID: Trip Blank
Client Project ID: Bldg 45
Lab Sample ID: G650-6-10A
Lab Project ID: G650-6

Analyzed By: MJC
Date Collected: 11/3/05 0:00
Date Received: 11/3/05
Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.316	1	11/9/05	
Diisopropyl ether (DIPE)	BQL	1.00	0.294	1	11/9/05	
Ethylbenzene	BQL	1.00	0.299	1	11/9/05	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.588	1	11/9/05	
Toluene	BQL	1.00	0.302	1	11/9/05	
m/p-Xylene	BQL	2.00	0.608	1	11/9/05	
o-Xylene	BQL	2.00	0.596	1	11/9/05	

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	41.3	103

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

Reviewed By: _____
GC_LIMS_v2.0.XLS

Results for Volatiles
by GC 602

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID: VBLK1110905A
Lab Project ID:

Analyzed By: MJC
Date Collected:
Date Received:
Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.316	1	11/9/05	
Diisopropyl ether (DIPE)	BQL	1.00	0.294	1	11/9/05	
Ethylbenzene	BQL	1.00	0.299	1	11/9/05	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.588	1	11/9/05	
Toluene	BQL	1.00	0.302	1	11/9/05	
m/p-Xylene	BQL	2.00	0.608	1	11/9/05	
o-Xylene	BQL	2.00	0.596	1	11/9/05	

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	41.0	103

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

Reviewed By: _____

Control Limits for QC Check / Laboratory Control Spike

Method: 602 **Spike[ppb] :** 10
Instrument : gc1
Filename : 110905\005r0101.txt

				QC Limits			LCS Limits	
	Compound	ppb	Q(%)	Lower	Upper	P_s(%)	Lower	Upper
	Benzene	10.1	101.4	77.0	123.0	101	39	150
	Chlorobenzene	10.1	100.9	80.5	119.5	101	55	135
	1,2-Dichlorobenzene	10.1	101.5	68.0	132.0	101	37	154
	1,3-Dichlorobenzene	10.2	101.6	72.5	127.5	102	50	141
	1,4-Dichlorobenzene	10.2	102.3	69.5	130.5	102	42	143
◆	Diisopropyl ether	10.3	102.9	43.1	156.9	103	30	170
	Ethylbenzene	10.2	102.5	63.0	137.0	102	32	160
◆	MTBE	10.2	101.6	46.8	153.2	102	35	165
	Toluene	10.2	101.5	77.5	127.0	102	46	148
◆	m,p-Xylene	20.5	102.5	11.2	188.8	103	D	239
◆	o-Xylene	10.2	101.9	47.6	152.4	102	36	164

Flags :

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

Reviewed by: _____

Control Limits for MS-MSD

Method: 602 **Spike[ppb] :** 10
Instrument : gc1
Sample : 110905\022r0101.txt
MS : 110905\023r0101.txt
MSD : 110905\024r0101.txt

		µg/L		P(%)		P Limits	
	Compound	Sam.	MS	MSD	MS	MSD	Lower	Upper
	Benzene	ND	10.2	10.3	102	103	39	150
	Chlorobenzene	ND	9.3	9.5	93	95	55	135
	1,2-Dichlorobenzene	ND	8.3	8.6	83	86	37	154
	1,3-Dichlorobenzene	ND	8.5	8.8	85	88	50	141
	1,4-Dichlorobenzene	ND	6.3	6.5	63	65	42	143
◆	Diisopropyl ether	ND	9.4	9.4	94	94	30	170
	Ethylbenzene	ND	9.5	9.7	95	97	32	160
◆	MTBE	ND	10.8	10.8	108	108	35	165
	Toluene	ND	9.8	9.9	98	99	46	148
◆	m,p-Xylene	ND	18.7	19.1	93	95	D	239
◆	o-Xylene	ND	8.9	9.2	89	92	36	164

Flags :

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

Reviewed by: _____

Results for Volatiles

by GC 602

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID: VBLK3110905A
Lab Project ID:

Analyzed By: MJC
Date Collected:
Date Received:
Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.316	1	11/9/05	
Diisopropyl ether (DIPE)	BQL	1.00	0.294	1	11/9/05	
Ethylbenzene	BQL	1.00	0.299	1	11/9/05	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.588	1	11/9/05	
Toluene	BQL	1.00	0.302	1	11/9/05	
m/p-Xylene	BQL	2.00	0.608	1	11/9/05	
o-Xylene	BQL	2.00	0.596	1	11/9/05	

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	40.3	101

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

Reviewed By:

Control Limits for QC Check / Laboratory Control Spike

Method: 602 **Spike[ppb] :** 10
Instrument : gc3
Filename : 110905\005r0101.txt

				QC Limits			LCS Limits	
	Compound	ppb	Q(%)	Lower	Upper	P_s(%)	Lower	Upper
	Benzene	9.9	99.2	77.0	123.0	99	39	150
	Chlorobenzene	9.8	97.9	80.5	119.5	98	55	135
	1,2-Dichlorobenzene	10.1	100.8	68.0	132.0	101	37	154
	1,3-Dichlorobenzene	9.7	97.0	72.5	127.5	97	50	141
	1,4-Dichlorobenzene	9.8	98.3	69.5	130.5	98	42	143
◆	Diisopropyl ether	9.5	95.1	43.1	156.9	95	30	170
	Ethylbenzene	10.2	101.6	63.0	137.0	102	32	160
◆	MTBE	9.7	97.0	46.8	153.2	97	35	165
	Toluene	10.0	99.6	77.5	127.0	100	46	148
◆	m,p-Xylene	20.4	101.8	11.2	188.8	102	D	239
◆	o-Xylene	10.0	99.5	47.6	152.4	100	36	164

Flags :

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

Reviewed by:

Control Limits for MS-MSD

Method: 602 **Spike[ppb]:** 10
Instrument: gc3
Sample: 110905\022r0101.txt
MS: 110905\023r0101.txt
MSD: 110905\024r0101.txt

		µg/L		P(%)		P Limits	
	Compound	Sam.	MS	MSD	MS	MSD	Lower	Upper
	Benzene	ND	10.2	10.1	102	101	39	150
	Chlorobenzene	ND	9.7	9.6	97	96	55	135
	1,2-Dichlorobenzene	ND	9.2	8.9	92	89	37	154
	1,3-Dichlorobenzene	ND	6.5	6.2	65	62	50	141
	1,4-Dichlorobenzene	ND	9.0	8.8	90	88	42	143
•	Diisopropyl ether	ND	9.1	8.9	91	89	30	170
	Ethylbenzene	ND	10.3	10.1	103	101	32	160
•	MTBE	ND	9.8	9.7	98	97	35	165
	Toluene	ND	10.1	10.1	101	101	46	148
•	m,p-Xylene	ND	20.4	20.0	102	100	D	239
•	o-Xylene	ND	9.7	9.5	97	95	36	164

Flags:

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

Reviewed by: _____

Results for Semivolatiles
by GCMS 625

Client Sample ID: UST45/S941-MW09
Client Project ID: Bldg 45
Lab Sample ID: G650-6-1I
Lab Project ID: G650-6

Analyzed By: MRC
Date Collected: 11/2/2005 11:10
Date Received: 11/3/2005
Date Extracted: 11/7/2005
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	11/9/2005	
Acenaphthylene	BQL	10.0	1.12	1	11/9/2005	
Anthracene	BQL	10.0	1.75	1	11/9/2005	
Benzo[a]anthracene	BQL	10.0	1.36	1	11/9/2005	
Benzo[a]pyrene	BQL	10.0	1.27	1	11/9/2005	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	11/9/2005	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	11/9/2005	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	11/9/2005	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	11/9/2005	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	11/9/2005	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	11/9/2005	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	11/9/2005	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	11/9/2005	
Butylbenzylphthalate	BQL	10.0	1.53	1	11/9/2005	
2-Chloronaphthalene	BQL	10.0	1.25	1	11/9/2005	
2-Chlorophenol	BQL	10.0	4.22	1	11/9/2005	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	11/9/2005	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	11/9/2005	
Chrysene	BQL	10.0	1.11	1	11/9/2005	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	11/9/2005	
Di-n-Butylphthalate	BQL	10.0	1.65	1	11/9/2005	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	11/9/2005	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	11/9/2005	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	11/9/2005	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	11/9/2005	
2,4-Dichlorophenol	BQL	10.0	3.75	1	11/9/2005	
Diethylphthalate	BQL	10.0	1.48	1	11/9/2005	
Dimethylphthalate	BQL	10.0	1.04	1	11/9/2005	
2,4-Dimethylphenol	BQL	10.0	9.25	1	11/9/2005	
Di-n-octylphthalate	BQL	10.0	1.16	1	11/9/2005	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	11/9/2005	
2,4-Dinitrophenol	BQL	50.0	4.20	1	11/9/2005	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	11/9/2005	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	11/9/2005	
Diphenylamine *	BQL	10.0	1.53	1	11/9/2005	
Fluoranthene	BQL	10.0	1.41	1	11/9/2005	
Fluorene	BQL	10.0	1.22	1	11/9/2005	
Hexachlorobenzene	BQL	10.0	1.22	1	11/9/2005	
Hexachlorobutadiene	BQL	10.0	1.58	1	11/9/2005	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	11/9/2005	
Hexachloroethane	BQL	10.0	1.58	1	11/9/2005	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	11/9/2005	

Results for Semivolatiles
by GCMS 625

Client Sample ID: UST45/S941-MW09
Client Project ID: Bldg 45
Lab Sample ID: G650-6-1l
Lab Project ID: G650-6

Analyzed By: MRC
Date Collected: 11/2/2005 11:10
Date Received: 11/3/2005
Date Extracted: 11/7/2005
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Isophorone	BQL	10.0	1.27	1	11/9/2005	
Naphthalene	BQL	10.0	1.08	1	11/9/2005	
Nitrobenzene	BQL	10.0	1.32	1	11/9/2005	
2-Nitrophenol	BQL	10.0	3.52	1	11/9/2005	
4-Nitrophenol	BQL	50.0	3.17	1	11/9/2005	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	11/9/2005	
Pentachlorophenol	BQL	50.0	2.83	1	11/9/2005	
Phenanthrene	BQL	10.0	1.38	1	11/9/2005	
Phenol	BQL	10.0	3.38	1	11/9/2005	
Pyrene	BQL	10.0	2.08	1	11/9/2005	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	11/9/2005	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	11/9/2005	

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	5.6	56
2-Fluorophenol	10	4.7	47
Nitrobenzene-d5	10	5	50
Phenol-d6	10	5.9	59
2,4,6-Tribromophenol	10	7.1	71
4-Terphenyl-d14	10	9.8	98

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: UST45/S941-MW09
Client Project ID: Bldg 45
Lab Sample ID: G650-6-1I
Lab Project ID: G650-6
Sample Wt/Vol: 500 ML
Dilution: 1

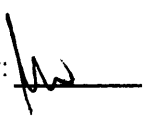
Analyzed By: MRC
Date Collected: 11/2/2005 11:10
Date Received: 11/3/2005
Date Extracted: 11/7/2005
Date Analyzed: 11/9/2005
Matrix: Water

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

Comment:

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

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

Reviewed by: 

Results for Semivolatiles
by GCMS 625

Client Sample ID: UST45/S941-MW07
Client Project ID: Bldg 45
Lab Sample ID: G650-6-2G
Lab Project ID: G650-6

Analyzed By: MRC
Date Collected: 11/2/2005 12:25
Date Received: 11/3/2005
Date Extracted: 11/7/2005
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	11/9/2005	
Acenaphthylene	BQL	10.0	1.12	1	11/9/2005	
Anthracene	BQL	10.0	1.75	1	11/9/2005	
Benzo[a]anthracene	BQL	10.0	1.36	1	11/9/2005	
Benzo[a]pyrene	BQL	10.0	1.27	1	11/9/2005	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	11/9/2005	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	11/9/2005	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	11/9/2005	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	11/9/2005	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	11/9/2005	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	11/9/2005	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	11/9/2005	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	11/9/2005	
Butylbenzylphthalate	BQL	10.0	1.53	1	11/9/2005	
2-Chloronaphthalene	BQL	10.0	1.25	1	11/9/2005	
2-Chlorophenol	BQL	10.0	4.22	1	11/9/2005	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	11/9/2005	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	11/9/2005	
Chrysene	BQL	10.0	1.11	1	11/9/2005	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	11/9/2005	
Di-n-Butylphthalate	BQL	10.0	1.65	1	11/9/2005	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	11/9/2005	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	11/9/2005	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	11/9/2005	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	11/9/2005	
2,4-Dichlorophenol	BQL	10.0	3.75	1	11/9/2005	
Diethylphthalate	BQL	10.0	1.48	1	11/9/2005	
Dimethylphthalate	BQL	10.0	1.04	1	11/9/2005	
2,4-Dimethylphenol	BQL	10.0	9.25	1	11/9/2005	
Di-n-octylphthalate	BQL	10.0	1.16	1	11/9/2005	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	11/9/2005	
2,4-Dinitrophenol	BQL	50.0	4.20	1	11/9/2005	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	11/9/2005	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	11/9/2005	
Diphenylamine *	BQL	10.0	1.53	1	11/9/2005	
Fluoranthene	BQL	10.0	1.41	1	11/9/2005	
Fluorene	BQL	10.0	1.22	1	11/9/2005	
Hexachlorobenzene	BQL	10.0	1.22	1	11/9/2005	
Hexachlorobutadiene	BQL	10.0	1.58	1	11/9/2005	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	11/9/2005	
Hexachloroethane	BQL	10.0	1.58	1	11/9/2005	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	11/9/2005	

Results for Semivolatiles
by GCMS 625

Client Sample ID: UST45/S941-MW07
Client Project ID: Bldg 45
Lab Sample ID: G650-6-2G
Lab Project ID: G650-6

Analyzed By: MRC
Date Collected: 11/2/2005 12:25
Date Received: 11/3/2005
Date Extracted: 11/7/2005
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Isophorone	BQL	10.0	1.27	1	11/9/2005	
Naphthalene	BQL	10.0	1.08	1	11/9/2005	
Nitrobenzene	BQL	10.0	1.32	1	11/9/2005	
2-Nitrophenol	BQL	10.0	3.52	1	11/9/2005	
4-Nitrophenol	BQL	50.0	3.17	1	11/9/2005	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	11/9/2005	
Pentachlorophenol	BQL	50.0	2.83	1	11/9/2005	
Phenanthrene	BQL	10.0	1.38	1	11/9/2005	
Phenol	BQL	10.0	3.38	1	11/9/2005	
Pyrene	BQL	10.0	2.08	1	11/9/2005	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	11/9/2005	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	11/9/2005	

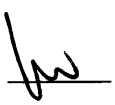
	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	8.4	84
2-Fluorophenol	10	8.2	82
Nitrobenzene-d5	10	8	80
Phenol-d6	10	8.6	86
2,4,6-Tribromophenol	10	7.7	77
4-Terphenyl-d14	10	9.2	92

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: UST45/S941-MW07
Client Project ID: Bldg 45
Lab Sample ID: G650-6-2G
Lab Project ID: G650-6
Sample Wt/Vol: 500 ML
Dilution: 1

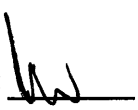
Analyzed By: MRC
Date Collected: 11/2/2005 12:25
Date Received: 11/3/2005
Date Extracted: 11/7/2005
Date Analyzed: 11/9/2005
Matrix: Water

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

Comment:

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

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

Reviewed by: 

Results for Semivolatiles
by GCMS 625

Client Sample ID: UST45/S941-MW06
Client Project ID: Bldg 45
Lab Sample ID: G650-6-3G
Lab Project ID: G650-6

Analyzed By: MRC
Date Collected: 11/2/2005 17:45
Date Received: 11/3/2005
Date Extracted: 11/7/2005
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	11/9/2005	
Acenaphthylene	BQL	10.0	1.12	1	11/9/2005	
Anthracene	BQL	10.0	1.75	1	11/9/2005	
Benzo[a]anthracene	BQL	10.0	1.36	1	11/9/2005	
Benzo[a]pyrene	BQL	10.0	1.27	1	11/9/2005	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	11/9/2005	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	11/9/2005	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	11/9/2005	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	11/9/2005	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	11/9/2005	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	11/9/2005	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	11/9/2005	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	11/9/2005	
Butylbenzylphthalate	BQL	10.0	1.53	1	11/9/2005	
2-Chloronaphthalene	BQL	10.0	1.25	1	11/9/2005	
2-Chlorophenol	BQL	10.0	4.22	1	11/9/2005	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	11/9/2005	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	11/9/2005	
Chrysene	BQL	10.0	1.11	1	11/9/2005	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	11/9/2005	
Di-n-Butylphthalate	BQL	10.0	1.65	1	11/9/2005	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	11/9/2005	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	11/9/2005	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	11/9/2005	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	11/9/2005	
2,4-Dichlorophenol	BQL	10.0	3.75	1	11/9/2005	
Diethylphthalate	BQL	10.0	1.48	1	11/9/2005	
Dimethylphthalate	BQL	10.0	1.04	1	11/9/2005	
2,4-Dimethylphenol	BQL	10.0	9.25	1	11/9/2005	
Di-n-octylphthalate	BQL	10.0	1.16	1	11/9/2005	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	11/9/2005	
2,4-Dinitrophenol	BQL	50.0	4.20	1	11/9/2005	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	11/9/2005	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	11/9/2005	
Diphenylamine *	BQL	10.0	1.53	1	11/9/2005	
Fluoranthene	BQL	10.0	1.41	1	11/9/2005	
Fluorene	BQL	10.0	1.22	1	11/9/2005	
Hexachlorobenzene	BQL	10.0	1.22	1	11/9/2005	
Hexachlorobutadiene	BQL	10.0	1.58	1	11/9/2005	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	11/9/2005	
Hexachloroethane	BQL	10.0	1.58	1	11/9/2005	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	11/9/2005	

Results for Semivolatiles
by GCMS 625

Client Sample ID: UST45/S941-MW06
Client Project ID: Bldg 45
Lab Sample ID: G650-6-3G
Lab Project ID: G650-6

Analyzed By: MRC
Date Collected: 11/2/2005 17:45
Date Received: 11/3/2005
Date Extracted: 11/7/2005
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Isophorone	BQL	10.0	1.27	1	11/9/2005	
Naphthalene	BQL	10.0	1.08	1	11/9/2005	
Nitrobenzene	BQL	10.0	1.32	1	11/9/2005	
2-Nitrophenol	BQL	10.0	3.52	1	11/9/2005	
4-Nitrophenol	BQL	50.0	3.17	1	11/9/2005	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	11/9/2005	
Pentachlorophenol	BQL	50.0	2.83	1	11/9/2005	
Phenanthrene	BQL	10.0	1.38	1	11/9/2005	
Phenol	BQL	10.0	3.38	1	11/9/2005	
Pyrene	BQL	10.0	2.08	1	11/9/2005	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	11/9/2005	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	11/9/2005	

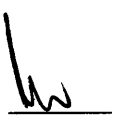
	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	5.7	57
2-Fluorophenol	10	5.2	52
Nitrobenzene-d5	10	5.2	52
Phenol-d6	10	5.8	58
2,4,6-Tribromophenol	10	5.2	52
4-Terphenyl-d14	10	8.8	88

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: UST45/S941-MW06
Client Project ID: Bldg 45
Lab Sample ID: G650-6-3G
Lab Project ID: G650-6
Sample Wt/Vol: 500 ML
Dilution: 1

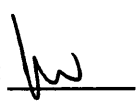
Analyzed By: MRC
Date Collected: 11/2/2005 17:45
Date Received: 11/3/2005
Date Extracted: 11/7/2005
Date Analyzed: 11/9/2005
Matrix: Water

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

Comment:

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

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

Reviewed by: 

Results for Semivolatiles
by GCMS 625

Client Sample ID: UST45/S941-MW08
Client Project ID: Bldg 45
Lab Sample ID: G650-6-4G
Lab Project ID: G650-6

Analyzed By: MRC
Date Collected: 11/2/2005 18:15
Date Received: 11/3/2005
Date Extracted: 11/7/2005
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	11/9/2005	
Acenaphthylene	BQL	10.0	1.12	1	11/9/2005	
Anthracene	BQL	10.0	1.75	1	11/9/2005	
Benzo[a]anthracene	BQL	10.0	1.36	1	11/9/2005	
Benzo[a]pyrene	BQL	10.0	1.27	1	11/9/2005	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	11/9/2005	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	11/9/2005	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	11/9/2005	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	11/9/2005	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	11/9/2005	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	11/9/2005	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	11/9/2005	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	11/9/2005	
Butylbenzylphthalate	BQL	10.0	1.53	1	11/9/2005	
2-Chloronaphthalene	BQL	10.0	1.25	1	11/9/2005	
2-Chlorophenol	BQL	10.0	4.22	1	11/9/2005	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	11/9/2005	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	11/9/2005	
Chrysene	BQL	10.0	1.11	1	11/9/2005	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	11/9/2005	
Di-n-Butylphthalate	BQL	10.0	1.65	1	11/9/2005	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	11/9/2005	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	11/9/2005	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	11/9/2005	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	11/9/2005	
2,4-Dichlorophenol	BQL	10.0	3.75	1	11/9/2005	
Diethylphthalate	BQL	10.0	1.48	1	11/9/2005	
Dimethylphthalate	BQL	10.0	1.04	1	11/9/2005	
2,4-Dimethylphenol	BQL	10.0	9.25	1	11/9/2005	
Di-n-octylphthalate	BQL	10.0	1.16	1	11/9/2005	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	11/9/2005	
2,4-Dinitrophenol	BQL	50.0	4.20	1	11/9/2005	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	11/9/2005	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	11/9/2005	
Diphenylamine *	BQL	10.0	1.53	1	11/9/2005	
Fluoranthene	BQL	10.0	1.41	1	11/9/2005	
Fluorene	BQL	10.0	1.22	1	11/9/2005	
Hexachlorobenzene	BQL	10.0	1.22	1	11/9/2005	
Hexachlorobutadiene	BQL	10.0	1.58	1	11/9/2005	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	11/9/2005	
Hexachloroethane	BQL	10.0	1.58	1	11/9/2005	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	11/9/2005	

Results for Semivolatiles
by GCMS 625

Client Sample ID: UST45/S941-MW08
Client Project ID: Bldg 45
Lab Sample ID: G650-6-4G
Lab Project ID: G650-6

Analyzed By: MRC
Date Collected: 11/2/2005 18:15
Date Received: 11/3/2005
Date Extracted: 11/7/2005
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Isophorone	BQL	10.0	1.27	1	11/9/2005	
Naphthalene	BQL	10.0	1.08	1	11/9/2005	
Nitrobenzene	BQL	10.0	1.32	1	11/9/2005	
2-Nitrophenol	BQL	10.0	3.52	1	11/9/2005	
4-Nitrophenol	BQL	50.0	3.17	1	11/9/2005	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	11/9/2005	
Pentachlorophenol	BQL	50.0	2.83	1	11/9/2005	
Phenanthrene	BQL	10.0	1.38	1	11/9/2005	
Phenol	BQL	10.0	3.38	1	11/9/2005	
Pyrene	BQL	10.0	2.08	1	11/9/2005	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	11/9/2005	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	11/9/2005	

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	7.3	73
2-Fluorophenol	10	6.6	66
Nitrobenzene-d5	10	6.7	67
Phenol-d6	10	7.3	73
2,4,6-Tribromophenol	10	6.5	65
4-Terphenyl-d14	10	9.2	92

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: UST45/S941-MW08
Client Project ID: Bldg 45
Lab Sample ID: G650-6-4G
Lab Project ID: G650-6
Sample Wt/Vol: 500 ML
Dilution: 1

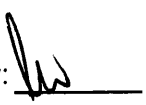
Analyzed By: MRC
Date Collected: 11/2/2005 18:15
Date Received: 11/3/2005
Date Extracted: 11/7/2005
Date Analyzed: 11/9/2005
Matrix: Water

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

Comment:

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

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

Reviewed by: 

Results for Semivolatiles
by GCMS 625

Client Sample ID: UST45/S941-PW01-R
Client Project ID: Bldg 45
Lab Sample ID: G650-6-5G
Lab Project ID: G650-6

Analyzed By: MRC
Date Collected: 11/3/2005 10:00
Date Received: 11/3/2005
Date Extracted: 11/7/2005
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	11/9/2005	
Acenaphthylene	BQL	10.0	1.12	1	11/9/2005	
Anthracene	BQL	10.0	1.75	1	11/9/2005	
Benzo[a]anthracene	BQL	10.0	1.36	1	11/9/2005	
Benzo[a]pyrene	BQL	10.0	1.27	1	11/9/2005	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	11/9/2005	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	11/9/2005	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	11/9/2005	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	11/9/2005	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	11/9/2005	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	11/9/2005	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	11/9/2005	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	11/9/2005	
Butylbenzylphthalate	BQL	10.0	1.53	1	11/9/2005	
2-Chloronaphthalene	BQL	10.0	1.25	1	11/9/2005	
2-Chlorophenol	BQL	10.0	4.22	1	11/9/2005	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	11/9/2005	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	11/9/2005	
Chrysene	BQL	10.0	1.11	1	11/9/2005	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	11/9/2005	
Di-n-Butylphthalate	BQL	10.0	1.65	1	11/9/2005	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	11/9/2005	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	11/9/2005	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	11/9/2005	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	11/9/2005	
2,4-Dichlorophenol	BQL	10.0	3.75	1	11/9/2005	
Diethylphthalate	BQL	10.0	1.48	1	11/9/2005	
Dimethylphthalate	BQL	10.0	1.04	1	11/9/2005	
2,4-Dimethylphenol	BQL	10.0	9.25	1	11/9/2005	
Di-n-octylphthalate	BQL	10.0	1.16	1	11/9/2005	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	11/9/2005	
2,4-Dinitrophenol	BQL	50.0	4.20	1	11/9/2005	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	11/9/2005	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	11/9/2005	
Diphenylamine *	BQL	10.0	1.53	1	11/9/2005	
Fluoranthene	BQL	10.0	1.41	1	11/9/2005	
Fluorene	BQL	10.0	1.22	1	11/9/2005	
Hexachlorobenzene	BQL	10.0	1.22	1	11/9/2005	
Hexachlorobutadiene	BQL	10.0	1.58	1	11/9/2005	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	11/9/2005	
Hexachloroethane	BQL	10.0	1.58	1	11/9/2005	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	11/9/2005	

Results for Semivolatiles
by GCMS 625

Client Sample ID: UST45/S941-PW01-R
Client Project ID: Bldg 45
Lab Sample ID: G650-6-5G
Lab Project ID: G650-6

Analyzed By: MRC
Date Collected: 11/3/2005 10:00
Date Received: 11/3/2005
Date Extracted: 11/7/2005
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Isophorone	BQL	10.0	1.27	1	11/9/2005	
Naphthalene	BQL	10.0	1.08	1	11/9/2005	
Nitrobenzene	BQL	10.0	1.32	1	11/9/2005	
2-Nitrophenol	BQL	10.0	3.52	1	11/9/2005	
4-Nitrophenol	BQL	50.0	3.17	1	11/9/2005	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	11/9/2005	
Pentachlorophenol	BQL	50.0	2.83	1	11/9/2005	
Phenanthrene	BQL	10.0	1.38	1	11/9/2005	
Phenol	BQL	10.0	3.38	1	11/9/2005	
Pyrene	BQL	10.0	2.08	1	11/9/2005	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	11/9/2005	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	11/9/2005	

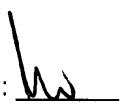
	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	8.2	82
2-Fluorophenol	10	7.7	77
Nitrobenzene-d5	10	8	80
Phenol-d6	10	8.7	87
2,4,6-Tribromophenol	10	8.6	86
4-Terphenyl-d14	10	9.6	96

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: UST45/S941-PW01-R
Client Project ID: Bldg 45
Lab Sample ID: G650-6-5G
Lab Project ID: G650-6
Sample Wt/Vol: 500 ML
Dilution: 1

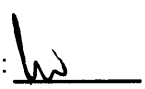
Analyzed By: MRC
Date Collected: 11/3/2005 10:00
Date Received: 11/3/2005
Date Extracted: 11/7/2005
Date Analyzed: 11/9/2005
Matrix: Water

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

Comment:

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

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

Reviewed by: 

Results for Semivolatiles
by GCMS 625

Client Sample ID: UST45/S941-MW03-R
Client Project ID: Bldg 45
Lab Sample ID: G650-6-6G
Lab Project ID: G650-6

Analyzed By: MRC
Date Collected: 11/3/2005 10:40
Date Received: 11/3/2005
Date Extracted: 11/7/2005
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	11/9/2005	
Acenaphthylene	BQL	10.0	1.12	1	11/9/2005	
Anthracene	BQL	10.0	1.75	1	11/9/2005	
Benzo[a]anthracene	BQL	10.0	1.36	1	11/9/2005	
Benzo[a]pyrene	BQL	10.0	1.27	1	11/9/2005	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	11/9/2005	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	11/9/2005	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	11/9/2005	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	11/9/2005	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	11/9/2005	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	11/9/2005	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	11/9/2005	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	11/9/2005	
Butylbenzylphthalate	BQL	10.0	1.53	1	11/9/2005	
2-Chloronaphthalene	BQL	10.0	1.25	1	11/9/2005	
2-Chlorophenol	BQL	10.0	4.22	1	11/9/2005	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	11/9/2005	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	11/9/2005	
Chrysene	BQL	10.0	1.11	1	11/9/2005	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	11/9/2005	
Di-n-Butylphthalate	BQL	10.0	1.65	1	11/9/2005	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	11/9/2005	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	11/9/2005	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	11/9/2005	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	11/9/2005	
2,4-Dichlorophenol	BQL	10.0	3.75	1	11/9/2005	
Diethylphthalate	BQL	10.0	1.48	1	11/9/2005	
Dimethylphthalate	BQL	10.0	1.04	1	11/9/2005	
2,4-Dimethylphenol	BQL	10.0	9.25	1	11/9/2005	
Di-n-octylphthalate	BQL	10.0	1.16	1	11/9/2005	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	11/9/2005	
2,4-Dinitrophenol	BQL	50.0	4.20	1	11/9/2005	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	11/9/2005	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	11/9/2005	
Diphenylamine *	BQL	10.0	1.53	1	11/9/2005	
Fluoranthene	BQL	10.0	1.41	1	11/9/2005	
Fluorene	BQL	10.0	1.22	1	11/9/2005	
Hexachlorobenzene	BQL	10.0	1.22	1	11/9/2005	
Hexachlorobutadiene	BQL	10.0	1.58	1	11/9/2005	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	11/9/2005	
Hexachloroethane	BQL	10.0	1.58	1	11/9/2005	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	11/9/2005	

Results for Semivolatiles
by GCMS 625

Client Sample ID: UST45/S941-MW03-R
Client Project ID: Bldg 45
Lab Sample ID: G650-6-6G
Lab Project ID: G650-6

Analyzed By: MRC
Date Collected: 11/3/2005 10:40
Date Received: 11/3/2005
Date Extracted: 11/7/2005
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Isophorone	BQL	10.0	1.27	1	11/9/2005	
Naphthalene	BQL	10.0	1.08	1	11/9/2005	
Nitrobenzene	BQL	10.0	1.32	1	11/9/2005	
2-Nitrophenol	BQL	10.0	3.52	1	11/9/2005	
4-Nitrophenol	BQL	50.0	3.17	1	11/9/2005	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	11/9/2005	
Pentachlorophenol	BQL	50.0	2.83	1	11/9/2005	
Phenanthrene	BQL	10.0	1.38	1	11/9/2005	
Phenol	BQL	10.0	3.38	1	11/9/2005	
Pyrene	BQL	10.0	2.08	1	11/9/2005	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	11/9/2005	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	11/9/2005	

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	8	80
2-Fluorophenol	10	7.8	78
Nitrobenzene-d5	10	7.8	78
Phenol-d6	10	8.5	85
2,4,6-Tribromophenol	10	7.2	72
4-Terphenyl-d14	10	9.6	96

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: UST45/S941-MW03-R
Client Project ID: Bldg 45
Lab Sample ID: G650-6-6G
Lab Project ID: G650-6
Sample Wt/Vol: 500 ML
Dilution: 1

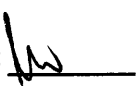
Analyzed By: MRC
Date Collected: 11/3/2005 10:40
Date Received: 11/3/2005
Date Extracted: 11/7/2005
Date Analyzed: 11/9/2005
Matrix: Water

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

Comment:

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

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

Reviewed by: 

Results for Semivolatiles
by GCMS 625

Client Sample ID: UST45/S941-MW02-R
Client Project ID: Bldg 45
Lab Sample ID: G650-6-7G
Lab Project ID: G650-6

Analyzed By: MRC
Date Collected: 11/3/2005 11:25
Date Received: 11/3/2005
Date Extracted: 11/7/2005
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	11/9/2005	
Acenaphthylene	BQL	10.0	1.12	1	11/9/2005	
Anthracene	BQL	10.0	1.75	1	11/9/2005	
Benzo[a]anthracene	BQL	10.0	1.36	1	11/9/2005	
Benzo[a]pyrene	BQL	10.0	1.27	1	11/9/2005	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	11/9/2005	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	11/9/2005	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	11/9/2005	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	11/9/2005	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	11/9/2005	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	11/9/2005	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	11/9/2005	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	11/9/2005	
Butylbenzylphthalate	BQL	10.0	1.53	1	11/9/2005	
2-Chloronaphthalene	BQL	10.0	1.25	1	11/9/2005	
2-Chlorophenol	BQL	10.0	4.22	1	11/9/2005	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	11/9/2005	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	11/9/2005	
Chrysene	BQL	10.0	1.11	1	11/9/2005	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	11/9/2005	
Di-n-Butylphthalate	BQL	10.0	1.65	1	11/9/2005	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	11/9/2005	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	11/9/2005	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	11/9/2005	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	11/9/2005	
2,4-Dichlorophenol	BQL	10.0	3.75	1	11/9/2005	
Diethylphthalate	BQL	10.0	1.48	1	11/9/2005	
Dimethylphthalate	BQL	10.0	1.04	1	11/9/2005	
2,4-Dimethylphenol	BQL	10.0	9.25	1	11/9/2005	
Di-n-octylphthalate	BQL	10.0	1.16	1	11/9/2005	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	11/9/2005	
2,4-Dinitrophenol	BQL	50.0	4.20	1	11/9/2005	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	11/9/2005	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	11/9/2005	
Diphenylamine *	BQL	10.0	1.53	1	11/9/2005	
Fluoranthene	BQL	10.0	1.41	1	11/9/2005	
Fluorene	BQL	10.0	1.22	1	11/9/2005	
Hexachlorobenzene	BQL	10.0	1.22	1	11/9/2005	
Hexachlorobutadiene	BQL	10.0	1.58	1	11/9/2005	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	11/9/2005	
Hexachloroethane	BQL	10.0	1.58	1	11/9/2005	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	11/9/2005	

Results for Semivolatiles
by GCMS 625

Client Sample ID: UST45/S941-MW02-R
Client Project ID: Bldg 45
Lab Sample ID: G650-6-7G
Lab Project ID: G650-6

Analyzed By: MRC
Date Collected: 11/3/2005 11:25
Date Received: 11/3/2005
Date Extracted: 11/7/2005
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Isophorone	BQL	10.0	1.27	1	11/9/2005	
Naphthalene	BQL	10.0	1.08	1	11/9/2005	
Nitrobenzene	BQL	10.0	1.32	1	11/9/2005	
2-Nitrophenol	BQL	10.0	3.52	1	11/9/2005	
4-Nitrophenol	BQL	50.0	3.17	1	11/9/2005	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	11/9/2005	
Pentachlorophenol	BQL	50.0	2.83	1	11/9/2005	
Phenanthrene	BQL	10.0	1.38	1	11/9/2005	
Phenol	BQL	10.0	3.38	1	11/9/2005	
Pyrene	BQL	10.0	2.08	1	11/9/2005	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	11/9/2005	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	11/9/2005	

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	8.6	86
2-Fluorophenol	10	8.5	85
Nitrobenzene-d5	10	8.5	85
Phenol-d6	10	9	90
2,4,6-Tribromophenol	10	8.4	84
4-Terphenyl-d14	10	9.8	98

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: UST45/S941-MW02-R
Client Project ID: Bldg 45
Lab Sample ID: G650-6-7G
Lab Project ID: G650-6
Sample Wt/Vol: 500 ML
Dilution: 1

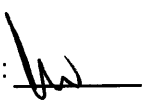
Analyzed By: MRC
Date Collected: 11/3/2005 11:25
Date Received: 11/3/2005
Date Extracted: 11/7/2005
Date Analyzed: 11/9/2005
Matrix: Water

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

Comment:

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

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

Reviewed by: 

Results for Semivolatiles
by GCMS 625

Client Sample ID: UST45/S941-MW18
Client Project ID: Bldg 45
Lab Sample ID: G650-6-8G
Lab Project ID: G650-6

Analyzed By: MRC
Date Collected: 11/3/2005 14:10
Date Received: 11/3/2005
Date Extracted: 11/7/2005
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	11/9/2005	
Acenaphthylene	BQL	10.0	1.12	1	11/9/2005	
Anthracene	BQL	10.0	1.75	1	11/9/2005	
Benzo[a]anthracene	BQL	10.0	1.36	1	11/9/2005	
Benzo[a]pyrene	BQL	10.0	1.27	1	11/9/2005	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	11/9/2005	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	11/9/2005	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	11/9/2005	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	11/9/2005	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	11/9/2005	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	11/9/2005	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	11/9/2005	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	11/9/2005	
Butylbenzylphthalate	BQL	10.0	1.53	1	11/9/2005	
2-Chloronaphthalene	BQL	10.0	1.25	1	11/9/2005	
2-Chlorophenol	BQL	10.0	4.22	1	11/9/2005	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	11/9/2005	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	11/9/2005	
Chrysene	BQL	10.0	1.11	1	11/9/2005	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	11/9/2005	
Di-n-Butylphthalate	BQL	10.0	1.65	1	11/9/2005	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	11/9/2005	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	11/9/2005	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	11/9/2005	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	11/9/2005	
2,4-Dichlorophenol	BQL	10.0	3.75	1	11/9/2005	
Diethylphthalate	BQL	10.0	1.48	1	11/9/2005	
Dimethylphthalate	BQL	10.0	1.04	1	11/9/2005	
2,4-Dimethylphenol	BQL	10.0	9.25	1	11/9/2005	
Di-n-octylphthalate	BQL	10.0	1.16	1	11/9/2005	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	11/9/2005	
2,4-Dinitrophenol	BQL	50.0	4.20	1	11/9/2005	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	11/9/2005	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	11/9/2005	
Diphenylamine *	BQL	10.0	1.53	1	11/9/2005	
Fluoranthene	BQL	10.0	1.41	1	11/9/2005	
Fluorene	BQL	10.0	1.22	1	11/9/2005	
Hexachlorobenzene	BQL	10.0	1.22	1	11/9/2005	
Hexachlorobutadiene	BQL	10.0	1.58	1	11/9/2005	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	11/9/2005	
Hexachloroethane	BQL	10.0	1.58	1	11/9/2005	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	11/9/2005	

Results for Semivolatiles
by GCMS 625

Client Sample ID: UST45/S941-MW18
Client Project ID: Bldg 45
Lab Sample ID: G650-6-8G
Lab Project ID: G650-6

Analyzed By: MRC
Date Collected: 11/3/2005 14:10
Date Received: 11/3/2005
Date Extracted: 11/7/2005
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Isophorone	BQL	10.0	1.27	1	11/9/2005	
Naphthalene	BQL	10.0	1.08	1	11/9/2005	
Nitrobenzene	BQL	10.0	1.32	1	11/9/2005	
2-Nitrophenol	BQL	10.0	3.52	1	11/9/2005	
4-Nitrophenol	BQL	50.0	3.17	1	11/9/2005	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	11/9/2005	
Pentachlorophenol	BQL	50.0	2.83	1	11/9/2005	
Phenanthrene	BQL	10.0	1.38	1	11/9/2005	
Phenol	BQL	10.0	3.38	1	11/9/2005	
Pyrene	BQL	10.0	2.08	1	11/9/2005	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	11/9/2005	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	11/9/2005	

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	6.6	66
2-Fluorophenol	10	6.2	62
Nitrobenzene-d5	10	6.3	63
Phenol-d6	10	6.9	69
2,4,6-Tribromophenol	10	7.3	73
4-Terphenyl-d14	10	8.1	81

Comments:

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

Flags:

BQL = Below Quantitation Limits.
J = Detected below the quantitation limit.

Reviewed By:

Results of Library Search for Semivolatile Compounds

by GCMS

Client Sample ID: UST45/S941-MW18
Client Project ID: Bldg 45
Lab Sample ID: G650-6-8G
Lab Project ID: G650-6
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: MRC
Date Collected: 11/3/2005 14:10
Date Received: 11/3/2005
Date Extracted: 11/7/2005
Date Analyzed: 11/9/2005
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Alcohol, Unknown	11.32			14.3
2	Unknown	13.14			6.82
3	Unknown	10.95			6.2
4	Unknown	12.68			5.61
5	Unknown	11.57			5.46
6	Unknown	11.80			4.64
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: UST45/S941-MW19
Client Project ID: Bldg 45
Lab Sample ID: G650-6-9H
Lab Project ID: G650-6

Analyzed By: MRC
Date Collected: 11/3/2005 14:55
Date Received: 11/3/2005
Date Extracted: 11/7/2005
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	11/9/2005	
Acenaphthylene	BQL	10.0	1.12	1	11/9/2005	
Anthracene	BQL	10.0	1.75	1	11/9/2005	
Benzo[a]anthracene	BQL	10.0	1.36	1	11/9/2005	
Benzo[a]pyrene	BQL	10.0	1.27	1	11/9/2005	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	11/9/2005	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	11/9/2005	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	11/9/2005	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	11/9/2005	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	11/9/2005	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	11/9/2005	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	11/9/2005	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	11/9/2005	
Butylbenzylphthalate	BQL	10.0	1.53	1	11/9/2005	
2-Chloronaphthalene	BQL	10.0	1.25	1	11/9/2005	
2-Chlorophenol	BQL	10.0	4.22	1	11/9/2005	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	11/9/2005	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	11/9/2005	
Chrysene	BQL	10.0	1.11	1	11/9/2005	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	11/9/2005	
Di-n-Butylphthalate	BQL	10.0	1.65	1	11/9/2005	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	11/9/2005	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	11/9/2005	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	11/9/2005	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	11/9/2005	
2,4-Dichlorophenol	BQL	10.0	3.75	1	11/9/2005	
Diethylphthalate	BQL	10.0	1.48	1	11/9/2005	
Dimethylphthalate	BQL	10.0	1.04	1	11/9/2005	
2,4-Dimethylphenol	BQL	10.0	9.25	1	11/9/2005	
Di-n-octylphthalate	BQL	10.0	1.16	1	11/9/2005	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	11/9/2005	
2,4-Dinitrophenol	BQL	50.0	4.20	1	11/9/2005	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	11/9/2005	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	11/9/2005	
Diphenylamine *	BQL	10.0	1.53	1	11/9/2005	
Fluoranthene	BQL	10.0	1.41	1	11/9/2005	
Fluorene	BQL	10.0	1.22	1	11/9/2005	
Hexachlorobenzene	BQL	10.0	1.22	1	11/9/2005	
Hexachlorobutadiene	BQL	10.0	1.58	1	11/9/2005	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	11/9/2005	
Hexachloroethane	BQL	10.0	1.58	1	11/9/2005	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	11/9/2005	

Results for Semivolatiles
by GCMS 625

Client Sample ID: UST45/S941-MW19
Client Project ID: Bldg 45
Lab Sample ID: G650-6-9H
Lab Project ID: G650-6

Analyzed By: MRC
Date Collected: 11/3/2005 14:55
Date Received: 11/3/2005
Date Extracted: 11/7/2005
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Isophorone	BQL	10.0	1.27	1	11/9/2005	
Naphthalene	BQL	10.0	1.08	1	11/9/2005	
Nitrobenzene	BQL	10.0	1.32	1	11/9/2005	
2-Nitrophenol	BQL	10.0	3.52	1	11/9/2005	
4-Nitrophenol	BQL	50.0	3.17	1	11/9/2005	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	11/9/2005	
Pentachlorophenol	BQL	50.0	2.83	1	11/9/2005	
Phenanthrene	BQL	10.0	1.38	1	11/9/2005	
Phenol	BQL	10.0	3.38	1	11/9/2005	
Pyrene	BQL	10.0	2.08	1	11/9/2005	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	11/9/2005	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	11/9/2005	

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	9.1	91
2-Fluorophenol	10	9.2	92
Nitrobenzene-d5	10	8.9	89
Phenol-d6	10	9.7	97
2,4,6-Tribromophenol	10	7.8	78
4-Terphenyl-d14	10	10.5	105

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: UST45/S941-MW19
Client Project ID: Bldg 45
Lab Sample ID: G650-6-9H
Lab Project ID: G650-6
Sample Wt/Vol: 500 ML
Dilution: 1

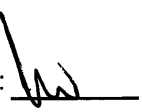
Analyzed By: MRC
Date Collected: 11/3/2005 14:55
Date Received: 11/3/2005
Date Extracted: 11/7/2005
Date Analyzed: 11/9/2005
Matrix: Water

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

Comment:

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

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

Reviewed by: 

Results for Semivolatiles
by GCMS 625

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID: PB3947
Lab Project ID:

Analyzed By: MRC
Date Collected:
Date Received:
Date Extracted: 11/3/2005
Matrix: WATER

Compound	Result ug/L	Quantitation Limit ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	11/8/2005	
Acenaphthylene	BQL	10.0	1.12	1	11/8/2005	
Anthracene	BQL	10.0	1.75	1	11/8/2005	
Benzo[a]anthracene	BQL	10.0	1.36	1	11/8/2005	
Benzo[a]pyrene	BQL	10.0	1.27	1	11/8/2005	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	11/8/2005	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	11/8/2005	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	11/8/2005	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	11/8/2005	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	11/8/2005	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	11/8/2005	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	11/8/2005	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	11/8/2005	
Butylbenzylphthalate	BQL	10.0	1.53	1	11/8/2005	
2-Chloronaphthalene	BQL	10.0	1.25	1	11/8/2005	
2-Chlorophenol	BQL	10.0	4.22	1	11/8/2005	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	11/8/2005	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	11/8/2005	
Chrysene	BQL	10.0	1.11	1	11/8/2005	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	11/8/2005	
Di-n-Butylphthalate	BQL	10.0	1.65	1	11/8/2005	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	11/8/2005	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	11/8/2005	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	11/8/2005	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	11/8/2005	
2,4-Dichlorophenol	BQL	10.0	3.75	1	11/8/2005	
Diethylphthalate	BQL	10.0	1.48	1	11/8/2005	
Dimethylphthalate	BQL	10.0	1.04	1	11/8/2005	
2,4-Dimethylphenol	BQL	10.0	9.25	1	11/8/2005	
Di-n-octylphthalate	BQL	10.0	1.16	1	11/8/2005	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	11/8/2005	
2,4-Dinitrophenol	BQL	50.0	4.20	1	11/8/2005	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	11/8/2005	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	11/8/2005	
Diphenylamine *	BQL	10.0	1.53	1	11/8/2005	
Fluoranthene	BQL	10.0	1.41	1	11/8/2005	
Fluorene	BQL	10.0	1.22	1	11/8/2005	
Hexachlorobenzene	BQL	10.0	1.22	1	11/8/2005	
Hexachlorobutadiene	BQL	10.0	1.58	1	11/8/2005	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	11/8/2005	
Hexachloroethane	BQL	10.0	1.58	1	11/8/2005	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	11/8/2005	

Results for Semivolatiles
by GCMS 625

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID: PB3947
Lab Project ID:

Analyzed By: MRC
Date Collected:
Date Received:
Date Extracted: 11/3/2005
Matrix: WATER

Compound	Result ug/L	Quantitation Limit ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Isophorone	BQL	10.0	1.27	1	11/8/2005	
Naphthalene	BQL	10.0	1.08	1	11/8/2005	
Nitrobenzene	BQL	10.0	1.32	1	11/8/2005	
2-Nitrophenol	BQL	10.0	3.52	1	11/8/2005	
4-Nitrophenol	BQL	50.0	3.17	1	11/8/2005	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	11/8/2005	
Pentachlorophenol	BQL	50.0	2.83	1	11/8/2005	
Phenanthrene	BQL	10.0	1.38	1	11/8/2005	
Phenol	BQL	10.0	3.38	1	11/8/2005	
Pyrene	BQL	10.0	2.08	1	11/8/2005	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	11/8/2005	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	11/8/2005	

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	9.2	92
2-Fluorophenol	10	8.4	84
Nitrobenzene-d5	10	8.8	88
Phenol-d6	10	8.4	84
2,4,6-Tribromophenol	10	5.5	55
4-Terphenyl-d14	10	10.6	106

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 Sample ID:
Lab Sample ID: Batch-3947-MS/MSD/LCS
Lab Project ID:
Matrix: WATER
Prep Method: 3520

Date Collected:
Date Received:
Date Extracted: 11/03/05
Date Analyzed: 11/08/05
Analyzed By: MRC
Dilution: 1

	Sample Amount (µg/L)	MS Spike (µg/L)	MS Conc. (µg/L)	MS Spike % Rec.	MSD Spike (µg/L)	MSD Conc. (µg/L)	MSD Conc. % Rec.	RPD	QC Limits RPD	QC Limits % Rec.
Acenaphthylene	BQL	222	212	95.3	222	245	110.0	14.5	30	62.0-119
4-Chloro-3-methylphenol	BQL	222	191	86.1	222	212	95.2	10.0	30	67.0-109
2-Chlorophenol	BQL	222	163	73.3	222	186	83.7	13.2	30	53.0-111
1,4-Dichlorobenzene	BQL	222	126	56.7	222	160	72.0	23.8	30	29.0-86.0
2,4-Dinitrotoluene	BQL	222	208	93.7	222	229	103*	9.65	30	63.0-103
N-Nitrosodi-n-propylamine	BQL	222	201	90.3	222	226	102.0	11.9	30	67.0-107
4-Nitrophenol	BQL	222	175	78.8	222	205	92.3	15.8	30	49.0-146
Pentachlorophenol	BQL	222	88.7	39.9*	222	104	46.9	16.1	30	43.0-106
Phenol	BQL	222	177	79.7	222	197	88.6	10.6	30	61.0-100
Pyrene	BQL	222	193	86.8	222	235	106.0	19.6	30	41.0-123
1,2,4-Trichlorobenzene	BQL	222	157	70.7	222	186	83.7	16.8	30	41.0-96.0

	Spiked Amount (µg/L)	LCS Conc. (µg/L)	LCS Spike %	QC Limits % Rec.
Acenaphthylene	100	99.7	99.7	66.1-116
4-Chloro-3-methylphenol	100	87.4	87.4	64.3-128
2-Chlorophenol	100	80.2	80.2	56.9-93.4
1,4-Dichlorobenzene	100	63.4	63.4	20.6-82.8
2,4-Dinitrotoluene	100	91.9	91.9	63.7-116
N-Nitrosodi-n-propylamine	100	93.4	93.4	62.6-108
4-Nitrophenol	100	69.1	69.1	53.7-143
Pentachlorophenol	100	33.4	33.4	31.0-102
Phenol	100	83.2	83.2	57.4-99.5
Pyrene	100	90.7	90.7	44.1-124
1,2,4-Trichlorobenzene	100	78.1	78.1	37.6-97.9

Comments:

Concentrations reflect the spiked sample amounts.

Flags:

* = Out of limits.
NA = Not applicable.

Reviewed By:

Results for Metals

Client Sample ID:	UST45/S941-MW09	Analyzed By:	RML
Client Project ID:	Bldg 45	Date Collected:	11/2/2005 11:10
Lab Sample ID:	G650-6-1	Date Received:	11/3/05
Lab Project ID:	G650-6	Matrix:	WATER
Batch ID:	3958		

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Lead	BQL	5.00	0.470	25	UG/L	6020	11/7/05	

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
B= Amount in Prep Blank > RL
Samples Prepared by 3030C

Reviewed By: MET_LIMS_3 3

Results for Metals

Client Sample ID:	UST45/S941-MW07	Analyzed By:	RML
Client Project ID:	Bldg 45	Date Collected:	11/2/2005 12:25
Lab Sample ID:	G650-6-2	Date Received:	11/3/05
Lab Project ID:	G650-6	Matrix:	WATER
Batch ID:	3958		

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Lead	BQL	5.00	0.470	25	UG/L	6020	11/7/05	

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
B= Amount in Prep Blank > RL
Samples Prepared by 3030C

Reviewed By:
MET_LIMS_3.3

Results for Metals

Client Sample ID:	UST45/S941-MW06	Analyzed By:	RML
Client Project ID:	Bldg 45	Date Collected:	11/2/2005 17:45
Lab Sample ID:	G650-6-3	Date Received:	11/3/05
Lab Project ID:	G650-6	Matrix:	WATER
Batch ID:	3958		

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Lead	BQL	5.00	0.470	25	UG/L	6020	11/7/05	

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
B= Amount in Prep Blank > RL
Samples Prepared by 3030C

Reviewed By:
MET_LIMS_3.3

Results for Metals

Client Sample ID:	UST45/S941-MW08	Analyzed By:	RML
Client Project ID:	Bldg 45	Date Collected:	11/2/2005 18:15
Lab Sample ID:	G650-6-4	Date Received:	11/3/05
Lab Project ID:	G650-6	Matrix:	WATER
Batch ID:	3958		

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Lead	BQL	5.00	0.470	25	UG/L	6020	11/7/05	

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
B= Amount in Prep Blank > RL
Samples Prepared by 3030C

Reviewed By:
MET_LIMS_3.3

Results for Metals

Client Sample ID:	UST45/S941-PW01-R	Analyzed By:	RML
Client Project ID:	Bldg 45	Date Collected:	11/3/2005 10:00
Lab Sample ID:	G650-6-5	Date Received:	11/3/05
Lab Project ID:	G650-6	Matrix:	WATER
Batch ID:	3958		

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Lead	BQL	5.00	0.470	25	UG/L	6020	11/7/05	

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
B= Amount in Prep Blank > RL
Samples Prepared by 3030C

Reviewed By: _____
MET_LIMS_3.3

Results for Metals

Client Sample ID:	UST45/S941-MW03-R	Analyzed By:	RML
Client Project ID:	Bldg 45	Date Collected:	11/3/2005 10:40
Lab Sample ID:	G650-6-6	Date Received:	11/3/05
Lab Project ID:	G650-6	Matrix:	WATER
Batch ID:	3958		

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Lead	BQL	5.00	0.470	25	UG/L	6020	11/7/05	

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
B= Amount in Prep Blank > RL
Samples Prepared by 3030C

Reviewed By:
MET_LIMS_3.3

Results for Metals

Client Sample ID:	UST45/S941-MW02-R	Analyzed By:	RML
Client Project ID:	Bldg 45	Date Collected:	11/3/2005 11:25
Lab Sample ID:	G650-6-7	Date Received:	11/3/05
Lab Project ID:	G650-6	Matrix:	WATER
Batch ID:	3958		

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Lead	BQL	5.00	0.470	25	UG/L	6020	11/7/05	

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
B= Amount in Prep Blank > RL
Samples Prepared by 3030C

Reviewed By:
MET_LIMS_3.3

Results for Metals

Client Sample ID:	UST45/S941-MW18	Analyzed By:	RML
Client Project ID:	Bldg 45	Date Collected:	11/3/2005 14:10
Lab Sample ID:	G650-6-8	Date Received:	11/3/05
Lab Project ID:	G650-6	Matrix:	WATER
Batch ID:	3958		

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Lead	BQL	5.00	0.470	25	UG/L	6020	11/7/05	

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
B= Amount in Prep Blank > RL
Samples Prepared by 3030C

Reviewed By:
MET_LIMS_3 3

Results for Metals

Client Sample ID:	UST45/S941-MW19	Analyzed By:	RML
Client Project ID:	Bldg 45	Date Collected:	11/3/2005 14:55
Lab Sample ID:	G650-6-9	Date Received:	11/3/05
Lab Project ID:	G650-6	Matrix:	WATER
Batch ID:	3958		

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Lead	BQL	5.00	0.470	25	UG/L	6020	11/7/05	

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
B= Amount in Prep Blank > RL
Samples Prepared by 3030C

Reviewed By: MET_LIMS_3.3

Results for Metals

Client Sample ID:	Lab Blank	Analyzed By:	RML
Client Project ID:		Date Collected:	
Lab Sample ID:	pb3958	Date Received:	
Lab Project ID:		Matrix:	WATER
Batch ID:	3958		

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Lead	BQL	5.00	0.470	25	UG/L	6020	11/7/05	

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
B= Amount in Prep Blank > RL
Samples Prepared by 3030C

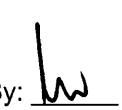
Reviewed By: MET_LIMS_3 3

METALS Results for LCS/LCD

ICP Batch: 3958
HG Batch:
Other:

Matrix: WATER
Units: MG/L

Analyte	TRUE Value	LCS	LCS %REC	LCD	LCD %REC	Limit Lower	Limit Upper	RPD	RPD Limit
Lead	0.400	0.357	89.3	0.350	87.5	80	120	1.98	20

Reviewed By: 

MS/MSD Results for METALS

Lab ID: G650-6-1
MS Lab ID: G650-6-1
MSD Lab ID: G650-6-1
ICP Batch: 3958
HG Batch:
Other:

Analyzed By: RML
Matrix: Water
Units: MG/L

Analyte	Sample Result	SA MS	MS Result	MS %REC	SA MSD	MSD Result	MSD %REC	Limit Lower	Limit Upper	RPD	RPD Limit
Lead	BQL	0.400	0.367	91.8	0.400	0.374	93.5	75	125	1.89	20

Comments

*=Out of Limits
NA = Not applicable, due to sample concentration greater than three times spike concentration

Reviewed By:

List of Reporting Abbreviations and Data Qualifiers

B = Compound also detected in batch blank

BQL = Below Quantitation Limit

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

% soilds = 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.

MI34 092205.2

PARADIGM ANALYTICAL LABORATORIES, INC.
5500 Business Drive, Wilmington, NC 28405
Phone: (910)-350-1903 FAX: (910)-350-1557

Chain-of Custody Record & Analytical Request

COC# 51416

Page 1 **of** 1

Client: Sovereign Consulting **Project ID:** Bldg 45 **Date:** 11/3/05 **Report To:** Chris Murray@sovcon.com
Address: 606 Thimble Shoals Rd **Contact:** Theresa Ellerman **Turnaround:** STANDARD (757) 594-0980
Address: Ste A-1, Newport News VA 23606 **Phone:** (910)526-3941 **Job Number:** NV0007 FAX (757) 594-9227
Quote #: **Fax:** (757) 594-9227 **P.O. Number:** **Invoice To:** Chris Murray@

Sample ID	Date	Time	Matrix	Preservatives: HCL	NONE	HNO3		Analyses: 602	625 + TIC (8270)	3030C							Comments: Please specify any special reporting requirements
																	G650-6
UST45/5941-MW09	11/2/05	1110	GW	X	X	X		3	1	1							Email Results EDD Format
UST45/5941-MW07	11/2/05	1225		X	X	X		3	1	1							To CMURRAY@SOVCON.COM
UST45/5941-MW06	11/2/05	1745		X	X	X		3	1	1							
UST45/5941-MW08	11/2/05	1815		X	X	X		3	1	1							
UST45/5941-PW01-R	11/3/05	1000		X	X	X		3	1	1							
UST45/5941-MW03-R	11/3/05	1040		X	X	X		3	1	1							
UST45/5941-MW02-R	11/3/05	1125		X	X	X		3	1	1							
UST45/5941-MW18	11/3/05	1410		X	X	X		3	1	1							
UST45/5941-MW19	11/3/05	1455		X	X	X		3	1	1							
TRIP BLANK	11/3/05			X				1									

Relinquished By	Date	Time	Received By	Date	Time	Temperature	State Certification Requested
	11/3/05	1640		11/3/05	1640	ambient 4.1°C	NC ____ SC ____ Other ____
							SEE REVERSE FOR TERMS AND CONDITIONS

ORIGINAL

PARADIGM ANALYTICAL LABORATORIES, INC.

N.C. CERTIFICATION #481

Mr. Chris Murray
Sovereign Consulting
606 Thimble Shoals Rd.
Suite A1
Newport-News VA 23606
Report Number: G650-7

Client Project: Bldg 45

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

Thank you for using 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,
Paradigm Analytical Laboratories, Inc.

11/15/05

Laboratory Director Date
J. Patrick Weaver

Results for Volatiles

by GC 602

Client Sample ID: UST45/S941-MW12
Client Project ID: Bldg 45
Lab Sample ID: G650-7-1A
Lab Project ID: G650-7

Analyzed By: MJC
Date Collected: 11/4/2005 9:50
Date Received: 11/4/2005
Matrix: Water

Analyte	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
Benzene	BQL	1.00	1	11/11/2005
Diisopropyl ether (DIPE)	BQL	1.00	1	11/11/2005
Ethylbenzene	BQL	1.00	1	11/11/2005
Methyl-tert butyl ether (MTBE)	BQL	2.00	1	11/11/2005
Toluene	BQL	1.00	1	11/11/2005
m/p-Xylene	BQL	2.00	1	11/11/2005
o-Xylene	BQL	2.00	1	11/11/2005

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	40.7	102

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

Reviewed By:

Results for Volatiles
by GC 602

Client Sample ID: UST45/S941-MW04
Client Project ID: Bldg 45
Lab Sample ID: G650-7-2A
Lab Project ID: G650-7

Analyzed By: MJC
Date Collected: 11/4/2005 12:05
Date Received: 11/4/2005
Matrix: Water

Analyte	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
Benzene	BQL	1.00	1	11/11/2005
Diisopropyl ether (DIPE)	BQL	1.00	1	11/11/2005
Ethylbenzene	BQL	1.00	1	11/11/2005
Methyl-tert butyl ether (MTBE)	BQL	2.00	1	11/11/2005
Toluene	BQL	1.00	1	11/11/2005
m/p-Xylene	BQL	2.00	1	11/11/2005
o-Xylene	BQL	2.00	1	11/11/2005

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	40.7	102

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

Reviewed By:

Results for Volatiles
by GC 602

Client Sample ID: UST45/S941-MW20
Client Project ID: Bldg 45
Lab Sample ID: G650-7-3A
Lab Project ID: G650-7

Analyzed By: MJC
Date Collected: 11/4/2005 12:45
Date Received: 11/4/2005
Matrix: Water

Analyte	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
Benzene	BQL	1.00	1	11/11/2005
Diisopropyl ether (DIPE)	BQL	1.00	1	11/11/2005
Ethylbenzene	BQL	1.00	1	11/11/2005
Methyl-tert butyl ether (MTBE)	BQL	2.00	1	11/11/2005
Toluene	BQL	1.00	1	11/11/2005
m/p-Xylene	BQL	2.00	1	11/11/2005
o-Xylene	BQL	2.00	1	11/11/2005

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	40.5	101

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

Reviewed By: _____

Results for Volatiles

by GC 602

Client Sample ID: UST45/S941-MW17
Client Project ID: Bldg 45
Lab Sample ID: G650-7-4A
Lab Project ID: G650-7

Analyzed By: MJC
Date Collected: 11/4/2005 13:10
Date Received: 11/4/2005
Matrix: Water

Analyte	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
Benzene	BQL	1.00	1	11/11/2005
Diisopropyl ether (DIPE)	BQL	1.00	1	11/11/2005
Ethylbenzene	BQL	1.00	1	11/11/2005
Methyl-tert butyl ether (MTBE)	BQL	2.00	1	11/11/2005
Toluene	BQL	1.00	1	11/11/2005
m/p-Xylene	BQL	2.00	1	11/11/2005
o-Xylene	BQL	2.00	1	11/11/2005

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	40.5	101

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

Reviewed By:

Results for Volatiles

by GC 602

Client Sample ID: UST45/S941-MW05
Client Project ID: Bldg 45
Lab Sample ID: G650-7-5A
Lab Project ID: G650-7

Analyzed By: MJC
Date Collected: 11/4/2005 14:00
Date Received: 11/4/2005
Matrix: Water

Analyte	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
Benzene	BQL	1.00	1	11/11/2005
Diisopropyl ether (DIPE)	BQL	1.00	1	11/11/2005
Ethylbenzene	BQL	1.00	1	11/11/2005
Methyl-tert butyl ether (MTBE)	BQL	2.00	1	11/11/2005
Toluene	BQL	1.00	1	11/11/2005
m/p-Xylene	BQL	2.00	1	11/11/2005
o-Xylene	BQL	2.00	1	11/11/2005

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	40.6	101

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

Reviewed By: mc

Results for Volatiles
by GC 602

Client Sample ID: Trip Blank
Client Project ID: Bldg 45
Lab Sample ID: G650-7-6A
Lab Project ID: G650-7

Analyzed By: MJC
Date Collected: 11/4/2005 0:00
Date Received: 11/4/2005
Matrix: Water

Analyte	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
Benzene	BQL	1.00	1	11/11/2005
Diisopropyl ether (DIPE)	BQL	1.00	1	11/11/2005
Ethylbenzene	BQL	1.00	1	11/11/2005
Methyl-tert butyl ether (MTBE)	BQL	2.00	1	11/11/2005
Toluene	BQL	1.00	1	11/11/2005
m/p-Xylene	BQL	2.00	1	11/11/2005
o-Xylene	BQL	2.00	1	11/11/2005

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	40.6	102

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

Reviewed By:

Results for Metals

Client Sample ID:	UST45/S941-MW12	Analyzed By:	RML
Client Project ID:	Bldg 45	Date Collected:	11/4/2005 09:50
Lab Sample ID:	G650-7-1	Date Received:	11/4/05
Lab Project ID:	G650-7	Matrix:	WATER
Batch ID:	3958		

Metals	Result	RL	DF	Units	Method	Date Analyzed
Lead	BQL	5.00	25	UG/L	6020	11/7/05

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
B= Amount in Prep Blank > RL
Samples Prepared by 3030C

Reviewed By: mr
MET_LIMS_3.3

Results for Metals

Client Sample ID:	UST45/S941-MW04	Analyzed By:	RML
Client Project ID:	Bldg 45	Date Collected:	11/4/2005 12:05
Lab Sample ID:	G650-7-2	Date Received:	11/4/05
Lab Project ID:	G650-7	Matrix:	WATER
Batch ID:	3958		

Metals	Result	RL	DF	Units	Method	Date Analyzed
Lead	BQL	5.00	25	UG/L	6020	11/7/05

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
B= Amount in Prep Blank > RL
Samples Prepared by 3030C

Reviewed By:
MET_LIMS_3.3

Results for Metals

Client Sample ID:	UST45/S941-MW20	Analyzed By:	RML
Client Project ID:	Bldg 45	Date Collected:	11/4/2005 12:45
Lab Sample ID:	G650-7-3	Date Received:	11/4/05
Lab Project ID:	G650-7	Matrix:	WATER
Batch ID:	3958		

Metals	Result	RL	DF	Units	Method	Date Analyzed
Lead	BQL	5.00	25	UG/L	6020	11/7/05

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
B= Amount in Prep Blank > RL
Samples Prepared by 3030C

Reviewed By: _____
MET_LIMS_3 3

Results for Metals

Client Sample ID:	UST45/S941-MW17	Analyzed By:	RML
Client Project ID:	Bldg 45	Date Collected:	11/4/2005 13:10
Lab Sample ID:	G650-7-4	Date Received:	11/4/05
Lab Project ID:	G650-7	Matrix:	WATER
Batch ID:	3958		

Metals	Result	RL	DF	Units	Method	Date Analyzed
Lead	BQL	5.00	25	UG/L	6020	11/7/05

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
B= Amount in Prep Blank > RL
Samples Prepared by 3030C

Reviewed By: _____
MET_LIMS_3.3

Results for Metals

Client Sample ID:	UST45/S941-MW05	Analyzed By:	RML
Client Project ID:	Bldg 45	Date Collected:	11/4/2005 14:00
Lab Sample ID:	G650-7-5	Date Received:	11/4/05
Lab Project ID:	G650-7	Matrix:	WATER
Batch ID:	3958		

Metals	Result	RL	DF	Units	Method	Date Analyzed
Lead	BQL	5.00	25	UG/L	6020	11/7/05

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
B= Amount in Prep Blank > RL
Samples Prepared by 3030C

Reviewed By: _____
MET_LIMS_3.3

Results for Semivolatiles
by GCMS 625

Client Sample ID: UST45/S941-MW12
Client Project ID: Bldg 45
Lab Sample ID: G650-7-1F
Lab Project ID: G650-7

Analyzed By: MRC
Date Collected: 11/4/2005 9:50
Date Received: 11/4/2005
Date Extracted: 11/7/2005
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	Dilution Factor	Date Analyzed
Acenaphthene	BQL	10.0	1	11/11/2005
Acenaphthylene	BQL	10.0	1	11/11/2005
Anthracene	BQL	10.0	1	11/11/2005
Benzo[a]anthracene	BQL	10.0	1	11/11/2005
Benzo[a]pyrene	BQL	10.0	1	11/11/2005
Benzo[b]fluoranthene	BQL	10.0	1	11/11/2005
Benzo[g,h,i]perylene	BQL	10.0	1	11/11/2005
Benzo[k]fluoranthene	BQL	10.0	1	11/11/2005
Bis(2-chloroethoxy)methane	BQL	10.0	1	11/11/2005
Bis(2-chloroethyl)ether	BQL	10.0	1	11/11/2005
Bis(2-chloroisopropyl)ether	BQL	10.0	1	11/11/2005
Bis(2-ethylhexyl)phthalate	BQL	10.0	1	11/11/2005
4-bromophenyl phenyl ether	BQL	10.0	1	11/11/2005
Butylbenzylphthalate	BQL	10.0	1	11/11/2005
2-Chloronaphthalene	BQL	10.0	1	11/11/2005
2-Chlorophenol	BQL	10.0	1	11/11/2005
4-Chloro-3-methylphenol	BQL	10.0	1	11/11/2005
4-Chlorophenyl phenyl ether	BQL	10.0	1	11/11/2005
Chrysene	BQL	10.0	1	11/11/2005
Dibenzo[a,h]anthracene	BQL	10.0	1	11/11/2005
Di-n-Butylphthalate	BQL	10.0	1	11/11/2005
1,2-Dichlorobenzene	BQL	10.0	1	11/11/2005
1,3-Dichlorobenzene	BQL	10.0	1	11/11/2005
1,4-Dichlorobenzene	BQL	10.0	1	11/11/2005
3,3'-Dichlorobenzidine	BQL	20.0	1	11/11/2005
2,4-Dichlorophenol	BQL	10.0	1	11/11/2005
Diethylphthalate	BQL	10.0	1	11/11/2005
Dimethylphthalate	BQL	10.0	1	11/11/2005
2,4-Dimethylphenol	BQL	10.0	1	11/11/2005
Di-n-octylphthalate	BQL	10.0	1	11/11/2005
4,6-Dinitro-2-methylphenol	BQL	50.0	1	11/11/2005
2,4-Dinitrophenol	BQL	50.0	1	11/11/2005
2,4-Dinitrotoluene	BQL	10.0	1	11/11/2005
2,6-Dinitrotoluene	BQL	10.0	1	11/11/2005
Diphenylamine *	BQL	10.0	1	11/11/2005
Fluoranthene	BQL	10.0	1	11/11/2005
Fluorene	BQL	10.0	1	11/11/2005
Hexachlorobenzene	BQL	10.0	1	11/11/2005
Hexachlorobutadiene	BQL	10.0	1	11/11/2005
Hexachlorocyclopentadiene	BQL	20.0	1	11/11/2005
Hexachloroethane	BQL	10.0	1	11/11/2005
Indeno(1,2,3-c,d)pyrene	BQL	10.0	1	11/11/2005

Results for Semivolatiles
by GCMS 625

Client Sample ID: UST45/S941-MW12
Client Project ID: Bldg 45
Lab Sample ID: G650-7-1F
Lab Project ID: G650-7

Analyzed By: MRC
Date Collected: 11/4/2005 9:50
Date Received: 11/4/2005
Date Extracted: 11/7/2005
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	Dilution Factor	Date Analyzed
Isophorone	BQL	10.0	1	11/11/2005
Naphthalene	BQL	10.0	1	11/11/2005
Nitrobenzene	BQL	10.0	1	11/11/2005
2-Nitrophenol	BQL	10.0	1	11/11/2005
4-Nitrophenol	BQL	50.0	1	11/11/2005
N-Nitrosodi-n-propylamine	BQL	10.0	1	11/11/2005
Pentachlorophenol	BQL	50.0	1	11/11/2005
Phenanthrene	BQL	10.0	1	11/11/2005
Phenol	BQL	10.0	1	11/11/2005
Pyrene	BQL	10.0	1	11/11/2005
1,2,4-Trichlorobenzene	BQL	10.0	1	11/11/2005
2,4,6-Trichlorophenol	BQL	10.0	1	11/11/2005

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	7.1	71
2-Fluorophenol	10	6.3	63
Nitrobenzene-d5	10	6.8	68
Phenol-d6	10	7.2	72
2,4,6-Tribromophenol	10	6.4	64
4-Terphenyl-d14	10	9.4	94

Comments:

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

Flags:

BQL = Below Quantitation Limits.

Reviewed By: mc

Results of Library Search for Semivolatile Compounds

by GCMS

Client Sample ID: UST45/S941-MW12
Client Project ID: Bldg 45
Lab Sample ID: G650-7-1F
Lab Project ID: G650-7
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: MRC
Date Collected: 11/4/2005 9:50
Date Received: 11/4/2005
Date Extracted: 11/7/2005
Date Analyzed: 11/11/2005
Matrix: Water

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

Comment:

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

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

Reviewed by: _____

Results for Semivolatiles
by GCMS 625

Client Sample ID: UST45/S941-MW04
Client Project ID: Bldg 45
Lab Sample ID: G650-7-2F
Lab Project ID: G650-7

Analyzed By: MRC
Date Collected: 11/4/2005 12:05
Date Received: 11/4/2005
Date Extracted: 11/7/2005
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	Dilution Factor	Date Analyzed
Acenaphthene	BQL	10.0	1	11/11/2005
Acenaphthylene	BQL	10.0	1	11/11/2005
Anthracene	BQL	10.0	1	11/11/2005
Benzo[a]anthracene	BQL	10.0	1	11/11/2005
Benzo[a]pyrene	BQL	10.0	1	11/11/2005
Benzo[b]fluoranthene	BQL	10.0	1	11/11/2005
Benzo[g,h,i]perylene	BQL	10.0	1	11/11/2005
Benzo[k]fluoranthene	BQL	10.0	1	11/11/2005
Bis(2-chloroethoxy)methane	BQL	10.0	1	11/11/2005
Bis(2-chloroethyl)ether	BQL	10.0	1	11/11/2005
Bis(2-chloroisopropyl)ether	BQL	10.0	1	11/11/2005
Bis(2-ethylhexyl)phthalate	BQL	10.0	1	11/11/2005
4-bromophenyl phenyl ether	BQL	10.0	1	11/11/2005
Butylbenzylphthalate	BQL	10.0	1	11/11/2005
2-Chloronaphthalene	BQL	10.0	1	11/11/2005
2-Chlorophenol	BQL	10.0	1	11/11/2005
4-Chloro-3-methylphenol	BQL	10.0	1	11/11/2005
4-Chlorophenyl phenyl ether	BQL	10.0	1	11/11/2005
Chrysene	BQL	10.0	1	11/11/2005
Dibenzo[a,h]anthracene	BQL	10.0	1	11/11/2005
Di-n-Butylphthalate	BQL	10.0	1	11/11/2005
1,2-Dichlorobenzene	BQL	10.0	1	11/11/2005
1,3-Dichlorobenzene	BQL	10.0	1	11/11/2005
1,4-Dichlorobenzene	BQL	10.0	1	11/11/2005
3,3'-Dichlorobenzidine	BQL	20.0	1	11/11/2005
2,4-Dichlorophenol	BQL	10.0	1	11/11/2005
Diethylphthalate	BQL	10.0	1	11/11/2005
Dimethylphthalate	BQL	10.0	1	11/11/2005
2,4-Dimethylphenol	BQL	10.0	1	11/11/2005
Di-n-octylphthalate	BQL	10.0	1	11/11/2005
4,6-Dinitro-2-methylphenol	BQL	50.0	1	11/11/2005
2,4-Dinitrophenol	BQL	50.0	1	11/11/2005
2,4-Dinitrotoluene	BQL	10.0	1	11/11/2005
2,6-Dinitrotoluene	BQL	10.0	1	11/11/2005
Diphenylamine *	BQL	10.0	1	11/11/2005
Fluoranthene	BQL	10.0	1	11/11/2005
Fluorene	BQL	10.0	1	11/11/2005
Hexachlorobenzene	BQL	10.0	1	11/11/2005
Hexachlorobutadiene	BQL	10.0	1	11/11/2005
Hexachlorocyclopentadiene	BQL	20.0	1	11/11/2005
Hexachloroethane	BQL	10.0	1	11/11/2005
Indeno(1,2,3-c,d)pyrene	BQL	10.0	1	11/11/2005

Results for Semivolatiles
by GCMS 625

Client Sample ID: UST45/S941-MW04
Client Project ID: Bldg 45
Lab Sample ID: G650-7-2F
Lab Project ID: G650-7

Analyzed By: MRC
Date Collected: 11/4/2005 12:05
Date Received: 11/4/2005
Date Extracted: 11/7/2005
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	Dilution Factor	Date Analyzed
Isophorone	BQL	10.0	1	11/11/2005
Naphthalene	BQL	10.0	1	11/11/2005
Nitrobenzene	BQL	10.0	1	11/11/2005
2-Nitrophenol	BQL	10.0	1	11/11/2005
4-Nitrophenol	BQL	50.0	1	11/11/2005
N-Nitrosodi-n-propylamine	BQL	10.0	1	11/11/2005
Pentachlorophenol	BQL	50.0	1	11/11/2005
Phenanthrene	BQL	10.0	1	11/11/2005
Phenol	BQL	10.0	1	11/11/2005
Pyrene	BQL	10.0	1	11/11/2005
1,2,4-Trichlorobenzene	BQL	10.0	1	11/11/2005
2,4,6-Trichlorophenol	BQL	10.0	1	11/11/2005

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	8.2	82
2-Fluorophenol	10	7.7	77
Nitrobenzene-d5	10	7.9	79
Phenol-d6	10	8.3	83
2,4,6-Tribromophenol	10	6.7	67
4-Terphenyl-d14	10	10.3	103

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: UST45/S941-MW04
Client Project ID: Bldg 45
Lab Sample ID: G650-7-2F
Lab Project ID: G650-7
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: MRC
Date Collected: 11/4/2005 12:05
Date Received: 11/4/2005
Date Extracted: 11/7/2005
Date Analyzed: 11/11/2005
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: MC

Results for Semivolatiles
by GCMS 625

Client Sample ID: UST45/S941-MW20
Client Project ID: Bldg 45
Lab Sample ID: G650-7-3F
Lab Project ID: G650-7

Analyzed By: MRC
Date Collected: 11/4/2005 12:45
Date Received: 11/4/2005
Date Extracted: 11/7/2005
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	Dilution Factor	Date Analyzed
Acenaphthene	BQL	10.0	1	11/11/2005
Acenaphthylene	BQL	10.0	1	11/11/2005
Anthracene	BQL	10.0	1	11/11/2005
Benzo[a]anthracene	BQL	10.0	1	11/11/2005
Benzo[a]pyrene	BQL	10.0	1	11/11/2005
Benzo[b]fluoranthene	BQL	10.0	1	11/11/2005
Benzo[g,h,i]perylene	BQL	10.0	1	11/11/2005
Benzo[k]fluoranthene	BQL	10.0	1	11/11/2005
Bis(2-chloroethoxy)methane	BQL	10.0	1	11/11/2005
Bis(2-chloroethyl)ether	BQL	10.0	1	11/11/2005
Bis(2-chloroisopropyl)ether	BQL	10.0	1	11/11/2005
Bis(2-ethylhexyl)phthalate	BQL	10.0	1	11/11/2005
4-bromophenyl phenyl ether	BQL	10.0	1	11/11/2005
Butylbenzylphthalate	BQL	10.0	1	11/11/2005
2-Chloronaphthalene	BQL	10.0	1	11/11/2005
2-Chlorophenol	BQL	10.0	1	11/11/2005
4-Chloro-3-methylphenol	BQL	10.0	1	11/11/2005
4-Chlorophenyl phenyl ether	BQL	10.0	1	11/11/2005
Chrysene	BQL	10.0	1	11/11/2005
Dibenzo[a,h]anthracene	BQL	10.0	1	11/11/2005
Di-n-Butylphthalate	BQL	10.0	1	11/11/2005
1,2-Dichlorobenzene	BQL	10.0	1	11/11/2005
1,3-Dichlorobenzene	BQL	10.0	1	11/11/2005
1,4-Dichlorobenzene	BQL	10.0	1	11/11/2005
3,3'-Dichlorobenzidine	BQL	20.0	1	11/11/2005
2,4-Dichlorophenol	BQL	10.0	1	11/11/2005
Diethylphthalate	BQL	10.0	1	11/11/2005
Dimethylphthalate	BQL	10.0	1	11/11/2005
2,4-Dimethylphenol	BQL	10.0	1	11/11/2005
Di-n-octylphthalate	BQL	10.0	1	11/11/2005
4,6-Dinitro-2-methylphenol	BQL	50.0	1	11/11/2005
2,4-Dinitrophenol	BQL	50.0	1	11/11/2005
2,4-Dinitrotoluene	BQL	10.0	1	11/11/2005
2,6-Dinitrotoluene	BQL	10.0	1	11/11/2005
Diphenylamine *	BQL	10.0	1	11/11/2005
Fluoranthene	BQL	10.0	1	11/11/2005
Fluorene	BQL	10.0	1	11/11/2005
Hexachlorobenzene	BQL	10.0	1	11/11/2005
Hexachlorobutadiene	BQL	10.0	1	11/11/2005
Hexachlorocyclopentadiene	BQL	20.0	1	11/11/2005
Hexachloroethane	BQL	10.0	1	11/11/2005
Indeno(1,2,3-c,d)pyrene	BQL	10.0	1	11/11/2005

Results for Semivolatiles
by GCMS 625

Client Sample ID: UST45/S941-MW20
Client Project ID: Bldg 45
Lab Sample ID: G650-7-3F
Lab Project ID: G650-7

Analyzed By: MRC
Date Collected: 11/4/2005 12:45
Date Received: 11/4/2005
Date Extracted: 11/7/2005
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	Dilution Factor	Date Analyzed
Isophorone	BQL	10.0	1	11/11/2005
Naphthalene	BQL	10.0	1	11/11/2005
Nitrobenzene	BQL	10.0	1	11/11/2005
2-Nitrophenol	BQL	10.0	1	11/11/2005
4-Nitrophenol	BQL	50.0	1	11/11/2005
N-Nitrosodi-n-propylamine	BQL	10.0	1	11/11/2005
Pentachlorophenol	BQL	50.0	1	11/11/2005
Phenanthrene	BQL	10.0	1	11/11/2005
Phenol	BQL	10.0	1	11/11/2005
Pyrene	BQL	10.0	1	11/11/2005
1,2,4-Trichlorobenzene	BQL	10.0	1	11/11/2005
2,4,6-Trichlorophenol	BQL	10.0	1	11/11/2005

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	7.8	78
2-Fluorophenol	10	7.2	72
Nitrobenzene-d5	10	7.5	75
Phenol-d6	10	7.7	77
2,4,6-Tribromophenol	10	6.6	66
4-Terphenyl-d14	10	8.9	89

Comments:

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

Flags:

BQL = Below Quantitation Limits.

Reviewed By: mrc

Results of Library Search for Semivolatile Compounds

by GCMS

Client Sample ID: UST45/S941-MW20
Client Project ID: Bldg 45
Lab Sample ID: G650-7-3F
Lab Project ID: G650-7
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: MRC
Date Collected: 11/4/2005 12:45
Date Received: 11/4/2005
Date Extracted: 11/7/2005
Date Analyzed: 11/11/2005
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: MC

Results for Semivolatiles
by GCMS 625

Client Sample ID: UST45/S941-MW17
Client Project ID: Bldg 45
Lab Sample ID: G650-7-4F
Lab Project ID: G650-7

Analyzed By: MRC
Date Collected: 11/4/2005 13:10
Date Received: 11/4/2005
Date Extracted: 11/7/2005
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	Dilution Factor	Date Analyzed
Acenaphthene	BQL	10.0	1	11/11/2005
Acenaphthylene	BQL	10.0	1	11/11/2005
Anthracene	BQL	10.0	1	11/11/2005
Benzo[a]anthracene	BQL	10.0	1	11/11/2005
Benzo[a]pyrene	BQL	10.0	1	11/11/2005
Benzo[b]fluoranthene	BQL	10.0	1	11/11/2005
Benzo[g,h,i]perylene	BQL	10.0	1	11/11/2005
Benzo[k]fluoranthene	BQL	10.0	1	11/11/2005
Bis(2-chloroethoxy)methane	BQL	10.0	1	11/11/2005
Bis(2-chloroethyl)ether	BQL	10.0	1	11/11/2005
Bis(2-chloroisopropyl)ether	BQL	10.0	1	11/11/2005
Bis(2-ethylhexyl)phthalate	BQL	10.0	1	11/11/2005
4-bromophenyl phenyl ether	BQL	10.0	1	11/11/2005
Butylbenzylphthalate	BQL	10.0	1	11/11/2005
2-Chloronaphthalene	BQL	10.0	1	11/11/2005
2-Chlorophenol	BQL	10.0	1	11/11/2005
4-Chloro-3-methylphenol	BQL	10.0	1	11/11/2005
4-Chlorophenyl phenyl ether	BQL	10.0	1	11/11/2005
Chrysene	BQL	10.0	1	11/11/2005
Dibenzo[a,h]anthracene	BQL	10.0	1	11/11/2005
Di-n-Butylphthalate	BQL	10.0	1	11/11/2005
1,2-Dichlorobenzene	BQL	10.0	1	11/11/2005
1,3-Dichlorobenzene	BQL	10.0	1	11/11/2005
1,4-Dichlorobenzene	BQL	10.0	1	11/11/2005
3,3'-Dichlorobenzidine	BQL	20.0	1	11/11/2005
2,4-Dichlorophenol	BQL	10.0	1	11/11/2005
Diethylphthalate	BQL	10.0	1	11/11/2005
Dimethylphthalate	BQL	10.0	1	11/11/2005
2,4-Dimethylphenol	BQL	10.0	1	11/11/2005
Di-n-octylphthalate	BQL	10.0	1	11/11/2005
4,6-Dinitro-2-methylphenol	BQL	50.0	1	11/11/2005
2,4-Dinitrophenol	BQL	50.0	1	11/11/2005
2,4-Dinitrotoluene	BQL	10.0	1	11/11/2005
2,6-Dinitrotoluene	BQL	10.0	1	11/11/2005
Diphenylamine *	BQL	10.0	1	11/11/2005
Fluoranthene	BQL	10.0	1	11/11/2005
Fluorene	BQL	10.0	1	11/11/2005
Hexachlorobenzene	BQL	10.0	1	11/11/2005
Hexachlorobutadiene	BQL	10.0	1	11/11/2005
Hexachlorocyclopentadiene	BQL	20.0	1	11/11/2005
Hexachloroethane	BQL	10.0	1	11/11/2005
Indeno(1,2,3-c,d)pyrene	BQL	10.0	1	11/11/2005

Results for Semivolatiles
by GCMS 625

Client Sample ID: UST45/S941-MW17
Client Project ID: Bldg 45
Lab Sample ID: G650-7-4F
Lab Project ID: G650-7

Analyzed By: MRC
Date Collected: 11/4/2005 13:10
Date Received: 11/4/2005
Date Extracted: 11/7/2005
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	Dilution Factor	Date Analyzed
Isophorone	BQL	10.0	1	11/11/2005
Naphthalene	BQL	10.0	1	11/11/2005
Nitrobenzene	BQL	10.0	1	11/11/2005
2-Nitrophenol	BQL	10.0	1	11/11/2005
4-Nitrophenol	BQL	50.0	1	11/11/2005
N-Nitrosodi-n-propylamine	BQL	10.0	1	11/11/2005
Pentachlorophenol	BQL	50.0	1	11/11/2005
Phenanthrene	BQL	10.0	1	11/11/2005
Phenol	BQL	10.0	1	11/11/2005
Pyrene	BQL	10.0	1	11/11/2005
1,2,4-Trichlorobenzene	BQL	10.0	1	11/11/2005
2,4,6-Trichlorophenol	BQL	10.0	1	11/11/2005

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	8.4	84
2-Fluorophenol	10	7.8	78
Nitrobenzene-d5	10	8.4	84
Phenol-d6	10	8.4	84
2,4,6-Tribromophenol	10	6.9	69
4-Terphenyl-d14	10	10.5	105

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: UST45/S941-MW17
Client Project ID: Bldg 45
Lab Sample ID: G650-7-4F
Lab Project ID: G650-7
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: MRC
Date Collected: 11/4/2005 13:10
Date Received: 11/4/2005
Date Extracted: 11/7/2005
Date Analyzed: 11/11/2005
Matrix: Water

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

Comment:

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

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

Reviewed by: _____

Results for Semivolatiles
by GCMS 625

Client Sample ID: UST45/S941-MW05
Client Project ID: Bldg 45
Lab Sample ID: G650-7-5F
Lab Project ID: G650-7

Analyzed By: MRC
Date Collected: 11/4/2005 14:00
Date Received: 11/4/2005
Date Extracted: 11/7/2005
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	Dilution Factor	Date Analyzed
Acenaphthene	BQL	10.0	1	11/11/2005
Acenaphthylene	BQL	10.0	1	11/11/2005
Anthracene	BQL	10.0	1	11/11/2005
Benzo[a]anthracene	BQL	10.0	1	11/11/2005
Benzo[a]pyrene	BQL	10.0	1	11/11/2005
Benzo[b]fluoranthene	BQL	10.0	1	11/11/2005
Benzo[g,h,i]perylene	BQL	10.0	1	11/11/2005
Benzo[k]fluoranthene	BQL	10.0	1	11/11/2005
Bis(2-chloroethoxy)methane	BQL	10.0	1	11/11/2005
Bis(2-chloroethyl)ether	BQL	10.0	1	11/11/2005
Bis(2-chloroisopropyl)ether	BQL	10.0	1	11/11/2005
Bis(2-ethylhexyl)phthalate	BQL	10.0	1	11/11/2005
4-bromophenyl phenyl ether	BQL	10.0	1	11/11/2005
Butylbenzylphthalate	BQL	10.0	1	11/11/2005
2-Chloronaphthalene	BQL	10.0	1	11/11/2005
2-Chlorophenol	BQL	10.0	1	11/11/2005
4-Chloro-3-methylphenol	BQL	10.0	1	11/11/2005
4-Chlorophenyl phenyl ether	BQL	10.0	1	11/11/2005
Chrysene	BQL	10.0	1	11/11/2005
Dibenzo[a,h]anthracene	BQL	10.0	1	11/11/2005
Di-n-Butylphthalate	BQL	10.0	1	11/11/2005
1,2-Dichlorobenzene	BQL	10.0	1	11/11/2005
1,3-Dichlorobenzene	BQL	10.0	1	11/11/2005
1,4-Dichlorobenzene	BQL	10.0	1	11/11/2005
3,3'-Dichlorobenzidine	BQL	20.0	1	11/11/2005
2,4-Dichlorophenol	BQL	10.0	1	11/11/2005
Diethylphthalate	BQL	10.0	1	11/11/2005
Dimethylphthalate	BQL	10.0	1	11/11/2005
2,4-Dimethylphenol	BQL	10.0	1	11/11/2005
Di-n-octylphthalate	BQL	10.0	1	11/11/2005
4,6-Dinitro-2-methylphenol	BQL	50.0	1	11/11/2005
2,4-Dinitrophenol	BQL	50.0	1	11/11/2005
2,4-Dinitrotoluene	BQL	10.0	1	11/11/2005
2,6-Dinitrotoluene	BQL	10.0	1	11/11/2005
Diphenylamine *	BQL	10.0	1	11/11/2005
Fluoranthene	BQL	10.0	1	11/11/2005
Fluorene	BQL	10.0	1	11/11/2005
Hexachlorobenzene	BQL	10.0	1	11/11/2005
Hexachlorobutadiene	BQL	10.0	1	11/11/2005
Hexachlorocyclopentadiene	BQL	20.0	1	11/11/2005
Hexachloroethane	BQL	10.0	1	11/11/2005
Indeno(1,2,3-c,d)pyrene	BQL	10.0	1	11/11/2005

Results for Semivolatiles
by GCMS 625

Client Sample ID: UST45/S941-MW05
Client Project ID: Bldg 45
Lab Sample ID: G650-7-5F
Lab Project ID: G650-7

Analyzed By: MRC
Date Collected: 11/4/2005 14:00
Date Received: 11/4/2005
Date Extracted: 11/7/2005
Matrix: Water

Compound	Result ug/L	Quantitation Limit ug/L	Dilution Factor	Date Analyzed
Isophorone	BQL	10.0	1	11/11/2005
Naphthalene	BQL	10.0	1	11/11/2005
Nitrobenzene	BQL	10.0	1	11/11/2005
2-Nitrophenol	BQL	10.0	1	11/11/2005
4-Nitrophenol	BQL	50.0	1	11/11/2005
N-Nitrosodi-n-propylamine	BQL	10.0	1	11/11/2005
Pentachlorophenol	BQL	50.0	1	11/11/2005
Phenanthrene	BQL	10.0	1	11/11/2005
Phenol	BQL	10.0	1	11/11/2005
Pyrene	BQL	10.0	1	11/11/2005
1,2,4-Trichlorobenzene	BQL	10.0	1	11/11/2005
2,4,6-Trichlorophenol	BQL	10.0	1	11/11/2005

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	7.9	79
2-Fluorophenol	10	7.1	71
Nitrobenzene-d5	10	7.8	78
Phenol-d6	10	7.9	79
2,4,6-Tribromophenol	10	6.7	67
4-Terphenyl-d14	10	10.3	103

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: UST45/S941-MW05
Client Project ID: Bldg 45
Lab Sample ID: G650-7-5F
Lab Project ID: G650-7
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: MRC
Date Collected: 11/4/2005 14:00
Date Received: 11/4/2005
Date Extracted: 11/7/2005
Date Analyzed: 11/11/2005
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:

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Reviewed by: _____

List of Reporting Abbreviations and Data Qualifiers

B = Compound also detected in batch blank

BQL = Below Quantitation Limit

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

% soilds = 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.

MI34.092205.2

PARADIGM ANALYTICAL LABORATORIES, INC.
5500 Business Drive, Wilmington, NC 28405
Phone: (910)-350-1903 FAX: (910)-350-1557

Chain-of Custody Record & Analytical Request

COC# 51417

Page 1 **of** 1

29 of 29

Client: SOVEREIGN CONSULTING **Project ID:** Bldg 45 **Date:** 11/4/05 **Report To:** CMURRAY@SOVCON.COM

Address: 606 THIMBLE SHOALS BLVD **Contact:** THERESA ELTERMAN **Turnaround:** STANDARD (757)594-0980

Address: STE A1 NEWPORT NEWS VA 23606 **Phone** (910) 526-3911 **Job Number:** NV0007 FAX (757)594-9227

Quote #: _____ **Fax:** (757)594-9227 **P.O. Number:** _____ **Invoice To:** Chris Murray

Sample ID	Date	Time	Matrix	Preservatives: HCL	HNO3	NONE	Analyses: 602	3030C-Pb	625 + TICs	Comments: Please specify any special reporting requirements
UST45/5941-MW12	11/4/05	0950	GW	x	x	x	3	1	1	EMNI RESULTS IN EDD FORMAT
UST45/5941-MW04	11/4/05	1205	"	"	"	"	3	1	1	TO CHRIS MURRAY
UST45/5941-MW20	11/4/05	1245	"	"	"	"	3	1	1	
UST45/5941-MW17	11/4/05	1310	"	"	"	"	3	1	1	G650-7
UST45/5941-MW05	11/4/05	1400	GW	x	x	x	3	1	1	
TRIP BLANK	11/4/05	-	W	x			1			

Relinquished By	Date	Time	Received By	Date	Time	Temperature	State Certification Requested
[signature]	11/4/05		[signature]	11/4/05	14:20	ONICE 5.3°C	NC _____ SC _____ Other _____
							SEE REVERSE FOR TERMS AND CONDITIONS

ORIGINAL

PARADIGM ANALYTICAL LABORATORIES, INC.

N.C. CERTIFICATION #481

SGS

Mr. Chris Murray
Sovereign Consulting
606 Thimble Shoals Rd.
Suite A1
Newport-News VA 23606
Report Number: G650-38

Client Project: NV007

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 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.

4/21/2006
Laboratory Director Date
J. Patrick Weaver

SGS

Results for Volatiles

by GC 602

Client Sample ID: UST45-MW21
Client Project ID: NV007
Lab Sample ID: G650-38-1A
Lab Project ID: G650-38

Analyzed By: MJC
Date Collected: 4/6/2006 8:41
Date Received: 4/7/2006
Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.316	1	4/14/2006	
Diisopropyl ether (DIPE)	BQL	1.00	0.294	1	4/14/2006	
Ethylbenzene	BQL	1.00	0.299	1	4/14/2006	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.588	1	4/14/2006	
Toluene	BQL	1.00	0.302	1	4/14/2006	
m/p-Xylene	BQL	2.00	0.608	1	4/14/2006	
o-Xylene	BQL	2.00	0.596	1	4/14/2006	

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	40.9	102

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

Reviewed By:

SGS

Results for Volatiles

by GC 602

Client Sample ID: UST45-MW04/45
Client Project ID: NV007
Lab Sample ID: G650-38-2A
Lab Project ID: G650-38

Analyzed By: MJC
Date Collected: 4/6/2006 10:01
Date Received: 4/7/2006
Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.316	1	4/14/2006	
Diisopropyl ether (DIPE)	BQL	1.00	0.294	1	4/14/2006	
Ethylbenzene	BQL	1.00	0.299	1	4/14/2006	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.588	1	4/14/2006	
Toluene	BQL	1.00	0.302	1	4/14/2006	
m/p-Xylene	BQL	2.00	0.608	1	4/14/2006	
o-Xylene	BQL	2.00	0.596	1	4/14/2006	

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	41.0	103

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

Reviewed By:

SGS

Results for Volatiles

by GC 602

Client Sample ID: UST45-MW12
Client Project ID: NV007
Lab Sample ID: G650-38-3A
Lab Project ID: G650-38

Analyzed By: MJC
Date Collected: 4/6/2006 10:35
Date Received: 4/7/2006
Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.316	1	4/14/2006	
Diisopropyl ether (DIPE)	BQL	1.00	0.294	1	4/14/2006	
Ethylbenzene	BQL	1.00	0.299	1	4/14/2006	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.588	1	4/14/2006	
Toluene	BQL	1.00	0.302	1	4/14/2006	
m/p-Xylene	BQL	2.00	0.608	1	4/14/2006	
o-Xylene	BQL	2.00	0.596	1	4/14/2006	

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	40.1	100

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

Reviewed By:

Copy of GC_LIMS_v2.0

SGS

Results for Volatiles
by GC 602

Client Sample ID: UST45-MW04
Client Project ID: NV007
Lab Sample ID: G650-38-4A
Lab Project ID: G650-38

Analyzed By: MJC
Date Collected: 4/6/2006 11:20
Date Received: 4/7/2006
Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.316	1	4/14/2006	
Diisopropyl ether (DIPE)	BQL	1.00	0.294	1	4/14/2006	
Ethylbenzene	BQL	1.00	0.299	1	4/14/2006	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.588	1	4/14/2006	
Toluene	BQL	1.00	0.302	1	4/14/2006	
m/p-Xylene	BQL	2.00	0.608	1	4/14/2006	
o-Xylene	BQL	2.00	0.596	1	4/14/2006	

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	40.3	101

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

Reviewed By:

SGS

Results for Volatiles
by GC 602

Client Sample ID: UST45-MW01/45
Client Project ID: NV007
Lab Sample ID: G650-38-5A
Lab Project ID: G650-38

Analyzed By: MJC
Date Collected: 4/6/2006 11:43
Date Received: 4/7/2006
Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.316	1	4/14/2006	
Diisopropyl ether (DIPE)	BQL	1.00	0.294	1	4/14/2006	
Ethylbenzene	BQL	1.00	0.299	1	4/14/2006	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.588	1	4/14/2006	
Toluene	BQL	1.00	0.302	1	4/14/2006	
m/p-Xylene	BQL	2.00	0.608	1	4/14/2006	
o-Xylene	BQL	2.00	0.596	1	4/14/2006	

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	40.0	99.9

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

Reviewed By:

SGS

Results for Volatiles
by GC 602

Client Sample ID: UST45-MW19
Client Project ID: NV007
Lab Sample ID: G650-38-6A
Lab Project ID: G650-38

Analyzed By: MJC
Date Collected: 4/6/2006 11:58
Date Received: 4/7/2006
Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.316	1	4/14/2006	
Diisopropyl ether (DIPE)	BQL	1.00	0.294	1	4/14/2006	
Ethylbenzene	BQL	1.00	0.299	1	4/14/2006	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.588	1	4/14/2006	
Toluene	BQL	1.00	0.302	1	4/14/2006	
m/p-Xylene	BQL	2.00	0.608	1	4/14/2006	
o-Xylene	BQL	2.00	0.596	1	4/14/2006	

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	39.9	99.8

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

Reviewed By:

SGS

Results for Volatiles
by GC 602

Client Sample ID: UST45-MW20
Client Project ID: NV007
Lab Sample ID: G650-38-7A
Lab Project ID: G650-38

Analyzed By: MJC
Date Collected: 4/6/2006 12:40
Date Received: 4/7/2006
Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.316	1	4/14/2006	
Diisopropyl ether (DIPE)	BQL	1.00	0.294	1	4/14/2006	
Ethylbenzene	BQL	1.00	0.299	1	4/14/2006	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.588	1	4/14/2006	
Toluene	BQL	1.00	0.302	1	4/14/2006	
m/p-Xylene	BQL	2.00	0.608	1	4/14/2006	
o-Xylene	BQL	2.00	0.596	1	4/14/2006	

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	39.8	99.6

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

Reviewed By: _____
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SGS

Results for Volatiles
by GC 602

Client Sample ID: UST45-MW14
Client Project ID: NV007
Lab Sample ID: G650-38-8A
Lab Project ID: G650-38

Analyzed By: MJC
Date Collected: 4/6/2006 13:10
Date Received: 4/7/2006
Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.316	1	4/14/2006	
Diisopropyl ether (DIPE)	BQL	1.00	0.294	1	4/14/2006	
Ethylbenzene	BQL	1.00	0.299	1	4/14/2006	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.588	1	4/14/2006	
Toluene	BQL	1.00	0.302	1	4/14/2006	
m/p-Xylene	BQL	2.00	0.608	1	4/14/2006	
o-Xylene	BQL	2.00	0.596	1	4/14/2006	

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	39.9	99.8

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

Reviewed By:
Copy of GC_LIMS_v2.0

SGS

Results for Volatiles
by GC 602

Client Sample ID: UST45-MW18
Client Project ID: NV007
Lab Sample ID: G650-38-9A
Lab Project ID: G650-38

Analyzed By: MJC
Date Collected: 4/6/2006 13:11
Date Received: 4/7/2006
Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.316	1	4/14/2006	
Diisopropyl ether (DIPE)	BQL	1.00	0.294	1	4/14/2006	
Ethylbenzene	BQL	1.00	0.299	1	4/14/2006	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.588	1	4/14/2006	
Toluene	BQL	1.00	0.302	1	4/14/2006	
m/p-Xylene	BQL	2.00	0.608	1	4/14/2006	
o-Xylene	BQL	2.00	0.596	1	4/14/2006	

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	39.9	99.7

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

Reviewed By:

SGS

Results for Volatiles

by GC 602

Client Sample ID: UST45-MW15
Client Project ID: NV007
Lab Sample ID: G650-38-10A
Lab Project ID: G650-38

Analyzed By: MJC
Date Collected: 4/6/2006 13:48
Date Received: 4/7/2006
Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.316	1	4/14/2006	
Diisopropyl ether (DIPE)	BQL	1.00	0.294	1	4/14/2006	
Ethylbenzene	BQL	1.00	0.299	1	4/14/2006	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.588	1	4/14/2006	
Toluene	BQL	1.00	0.302	1	4/14/2006	
m/p-Xylene	BQL	2.00	0.608	1	4/14/2006	
o-Xylene	BQL	2.00	0.596	1	4/14/2006	

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	40.1	100

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

Reviewed By:

SGS

Results for Volatiles
by GC 602

Client Sample ID: UST45-MW09
Client Project ID: NV007
Lab Sample ID: G650-38-11A
Lab Project ID: G650-38

Analyzed By: MJC
Date Collected: 4/6/2006 14:45
Date Received: 4/7/2006
Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	**5.87**	1.00	0.316	1	4/17/2006	
Diisopropyl ether (DIPE)	BQL	1.00	0.294	1	4/17/2006	
Ethylbenzene	BQL	1.00	0.299	1	4/17/2006	
Methyl-tert butyl ether (MTBE)	**4.46**	2.00	0.588	1	4/17/2006	
Toluene	BQL	1.00	0.302	1	4/17/2006	
m/p-Xylene	BQL	2.00	0.608	1	4/17/2006	
o-Xylene	BQL	2.00	0.596	1	4/17/2006	

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	41.1	103

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

Reviewed By:

SGS

Results for Volatiles
by GC 602

Client Sample ID: UST45-MW13
Client Project ID: NV007
Lab Sample ID: G650-38-12A
Lab Project ID: G650-38

Analyzed By: MJC
Date Collected: 4/6/2006 14:15
Date Received: 4/7/2006
Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.316	1	4/17/2006	
Diisopropyl ether (DIPE)	BQL	1.00	0.294	1	4/17/2006	
Ethylbenzene	BQL	1.00	0.299	1	4/17/2006	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.588	1	4/17/2006	
Toluene	BQL	1.00	0.302	1	4/17/2006	
m/p-Xylene	BQL	2.00	0.608	1	4/17/2006	
o-Xylene	BQL	2.00	0.596	1	4/17/2006	

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	41.5	104

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

Reviewed By:
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SGS

Results for Volatiles
by GC 602

Client Sample ID: UST45-PW01R
Client Project ID: NV007
Lab Sample ID: G650-38-14A
Lab Project ID: G650-38

Analyzed By: MJC
Date Collected: 4/6/2006 16:21
Date Received: 4/7/2006
Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.316	1	4/17/2006	
Diisopropyl ether (DIPE)	BQL	1.00	0.294	1	4/17/2006	
Ethylbenzene	BQL	1.00	0.299	1	4/17/2006	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.588	1	4/17/2006	
Toluene	BQL	1.00	0.302	1	4/17/2006	
m/p-Xylene	BQL	2.00	0.608	1	4/17/2006	
o-Xylene	BQL	2.00	0.596	1	4/17/2006	

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	41.5	104

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

Reviewed By:
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SGS

Results for Volatiles

by GC 602

Client Sample ID: UST45-MW05
Client Project ID: NV007
Lab Sample ID: G650-38-15A
Lab Project ID: G650-38

Analyzed By: MJC
Date Collected: 4/6/2006 16:30
Date Received: 4/7/2006
Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.316	1	4/17/2006	
Diisopropyl ether (DIPE)	BQL	1.00	0.294	1	4/17/2006	
Ethylbenzene	BQL	1.00	0.299	1	4/17/2006	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.588	1	4/17/2006	
Toluene	BQL	1.00	0.302	1	4/17/2006	
m/p-Xylene	BQL	2.00	0.608	1	4/17/2006	
o-Xylene	BQL	2.00	0.596	1	4/17/2006	

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	41.5	104

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

Reviewed By:
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SGS

Results for Volatiles
by GC 602

Client Sample ID: UST45-MW03R
Client Project ID: NV007
Lab Sample ID: G650-38-16A
Lab Project ID: G650-38

Analyzed By: MJC
Date Collected: 4/6/2006 13:47
Date Received: 4/7/2006
Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.316	1	4/17/2006	
Diisopropyl ether (DIPE)	BQL	1.00	0.294	1	4/17/2006	
Ethylbenzene	BQL	1.00	0.299	1	4/17/2006	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.588	1	4/17/2006	
Toluene	BQL	1.00	0.302	1	4/17/2006	
m/p-Xylene	BQL	2.00	0.608	1	4/17/2006	
o-Xylene	BQL	2.00	0.596	1	4/17/2006	

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	41.3	103

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

Reviewed By:

SGS

Results for Volatiles
by GC 602

Client Sample ID: Trip Blank
Client Project ID: NV007
Lab Sample ID: G650-38-17A
Lab Project ID: G650-38

Analyzed By: MJC
Date Collected: 4/6/2006 0:00
Date Received: 4/7/2006
Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.316	1	4/13/2006	
Diisopropyl ether (DIPE)	BQL	1.00	0.294	1	4/13/2006	
Ethylbenzene	BQL	1.00	0.299	1	4/13/2006	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.588	1	4/13/2006	
Toluene	BQL	1.00	0.302	1	4/13/2006	
m/p-Xylene	BQL	2.00	0.608	1	4/13/2006	
o-Xylene	BQL	2.00	0.596	1	4/13/2006	

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	40.9	102

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

Reviewed By:

SGS

Results for Semivolatiles by GCMS 625

Client Sample ID: UST45-MW21
Client Project ID: NV007
Lab Sample ID: G650-38-1I
Lab Project ID: G650-38

Analyzed By: MRC
Date Collected: 4/6/2006 8:41
Date Received: 4/7/2006
Date Extracted: 4/10/2006
Matrix: Water

Compound	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
Acenaphthene	BQL	10.0	1	4/14/2006
Acenaphthylene	BQL	10.0	1	4/14/2006
Anthracene	BQL	10.0	1	4/14/2006
Benzo[a]anthracene	BQL	10.0	1	4/14/2006
Benzo[a]pyrene	BQL	10.0	1	4/14/2006
Benzo[b]fluoranthene	BQL	10.0	1	4/14/2006
Benzo[g,h,i]perylene	BQL	10.0	1	4/14/2006
Benzo[k]fluoranthene	BQL	10.0	1	4/14/2006
Bis(2-chloroethoxy)methane	BQL	10.0	1	4/14/2006
Bis(2-chloroethyl)ether	BQL	10.0	1	4/14/2006
Bis(2-chloroisopropyl)ether	BQL	10.0	1	4/14/2006
Bis(2-ethylhexyl)phthalate	BQL	10.0	1	4/14/2006
4-bromophenyl phenyl ether	BQL	10.0	1	4/14/2006
Butylbenzylphthalate	BQL	10.0	1	4/14/2006
2-Chloronaphthalene	BQL	10.0	1	4/14/2006
2-Chlorophenol	BQL	10.0	1	4/14/2006
4-Chloro-3-methylphenol	BQL	10.0	1	4/14/2006
4-Chlorophenyl phenyl ether	BQL	10.0	1	4/14/2006
Chrysene	BQL	10.0	1	4/14/2006
Dibenzo[a,h]anthracene	BQL	10.0	1	4/14/2006
Di-n-Butylphthalate	BQL	10.0	1	4/14/2006
1,2-Dichlorobenzene	BQL	10.0	1	4/14/2006
1,3-Dichlorobenzene	BQL	10.0	1	4/14/2006
1,4-Dichlorobenzene	BQL	10.0	1	4/14/2006
3,3'-Dichlorobenzidine	BQL	20.0	1	4/14/2006
2,4-Dichlorophenol	BQL	10.0	1	4/14/2006
Diethylphthalate	BQL	10.0	1	4/14/2006
Dimethylphthalate	BQL	10.0	1	4/14/2006
2,4-Dimethylphenol	BQL	10.0	1	4/14/2006
Di-n-octylphthalate	BQL	10.0	1	4/14/2006
4,6-Dinitro-2-methylphenol	BQL	50.0	1	4/14/2006
2,4-Dinitrophenol	BQL	50.0	1	4/14/2006
2,4-Dinitrotoluene	BQL	10.0	1	4/14/2006
2,6-Dinitrotoluene	BQL	10.0	1	4/14/2006
Diphenylamine *	BQL	10.0	1	4/14/2006
Fluoranthene	BQL	10.0	1	4/14/2006
Fluorene	BQL	10.0	1	4/14/2006
Hexachlorobenzene	BQL	10.0	1	4/14/2006
Hexachlorobutadiene	BQL	10.0	1	4/14/2006
Hexachlorocyclopentadiene	BQL	20.0	1	4/14/2006
Hexachloroethane	BQL	10.0	1	4/14/2006
Indeno(1,2,3-c,d)pyrene	BQL	10.0	1	4/14/2006
Isophorone	BQL	10.0	1	4/14/2006
Naphthalene	BQL	10.0	1	4/14/2006

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Results for Semivolatiles by GCMS 625

Client Sample ID: UST45-MW21
Client Project ID: NV007
Lab Sample ID: G650-38-1I
Lab Project ID: G650-38

Analyzed By: MRC
Date Collected: 4/6/2006 8:41
Date Received: 4/7/2006
Date Extracted: 4/10/2006
Matrix: Water

Compound	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
Nitrobenzene	BQL	10.0	1	4/14/2006
2-Nitrophenol	BQL	10.0	1	4/14/2006
4-Nitrophenol	BQL	50.0	1	4/14/2006
N-Nitrosodi-n-propylamine	BQL	10.0	1	4/14/2006
Pentachlorophenol	BQL	50.0	1	4/14/2006
Phenanthrene	BQL	10.0	1	4/14/2006
Phenol	BQL	10.0	1	4/14/2006
Pyrene	BQL	10.0	1	4/14/2006
1,2,4-Trichlorobenzene	BQL	10.0	1	4/14/2006
2,4,6-Trichlorophenol	BQL	10.0	1	4/14/2006

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	9.7	97
2-Fluorophenol	10	9.4	94
Nitrobenzene-d5	10	9.1	91
Phenol-d6	10	8.6	86
2,4,6-Tribromophenol	10	10.8	108
4-Terphenyl-d14	10	9.6	96

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

Flags:
BQL = Below Quantitation Limits.

Reviewed By: _____

SGS

Results of Library Search for Semivolatile Compounds

by GCMS

Client Sample ID: UST45-MW21
Client Project ID: NV007
Lab Sample ID: G650-38-1I
Lab Project ID: G650-38
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: MRC
Date Collected: 4/6/2006 8:41
Date Received: 4/7/2006
Date Extracted: 4/10/2006
Date Analyzed: 4/14/2006
Matrix: Water

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

Comment:

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

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

Reviewed by:

SGS

Results for Semivolatiles by GCMS 625

Client Sample ID: UST45-MW04/45
Client Project ID: NV007
Lab Sample ID: G650-38-2G
Lab Project ID: G650-38

Analyzed By: MRC
Date Collected: 4/6/2006 10:01
Date Received: 4/7/2006
Date Extracted: 4/10/2006
Matrix: Water

Compound	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
Acenaphthene	BQL	10.0	1	4/14/2006
Acenaphthylene	BQL	10.0	1	4/14/2006
Anthracene	BQL	10.0	1	4/14/2006
Benzo[a]anthracene	BQL	10.0	1	4/14/2006
Benzo[a]pyrene	BQL	10.0	1	4/14/2006
Benzo[b]fluoranthene	BQL	10.0	1	4/14/2006
Benzo[g,h,i]perylene	BQL	10.0	1	4/14/2006
Benzo[k]fluoranthene	BQL	10.0	1	4/14/2006
Bis(2-chloroethoxy)methane	BQL	10.0	1	4/14/2006
Bis(2-chloroethyl)ether	BQL	10.0	1	4/14/2006
Bis(2-chloroisopropyl)ether	BQL	10.0	1	4/14/2006
Bis(2-ethylhexyl)phthalate	BQL	10.0	1	4/14/2006
4-bromophenyl phenyl ether	BQL	10.0	1	4/14/2006
Butylbenzylphthalate	BQL	10.0	1	4/14/2006
2-Chloronaphthalene	BQL	10.0	1	4/14/2006
2-Chlorophenol	BQL	10.0	1	4/14/2006
4-Chloro-3-methylphenol	BQL	10.0	1	4/14/2006
4-Chlorophenyl phenyl ether	BQL	10.0	1	4/14/2006
Chrysene	BQL	10.0	1	4/14/2006
Dibenzo[a,h]anthracene	BQL	10.0	1	4/14/2006
Di-n-Butylphthalate	BQL	10.0	1	4/14/2006
1,2-Dichlorobenzene	BQL	10.0	1	4/14/2006
1,3-Dichlorobenzene	BQL	10.0	1	4/14/2006
1,4-Dichlorobenzene	BQL	10.0	1	4/14/2006
3,3'-Dichlorobenzidine	BQL	20.0	1	4/14/2006
2,4-Dichlorophenol	BQL	10.0	1	4/14/2006
Diethylphthalate	BQL	10.0	1	4/14/2006
Dimethylphthalate	BQL	10.0	1	4/14/2006
2,4-Dimethylphenol	BQL	10.0	1	4/14/2006
Di-n-octylphthalate	BQL	10.0	1	4/14/2006
4,6-Dinitro-2-methylphenol	BQL	50.0	1	4/14/2006
2,4-Dinitrophenol	BQL	50.0	1	4/14/2006
2,4-Dinitrotoluene	BQL	10.0	1	4/14/2006
2,6-Dinitrotoluene	BQL	10.0	1	4/14/2006
Diphenylamine *	BQL	10.0	1	4/14/2006
Fluoranthene	BQL	10.0	1	4/14/2006
Fluorene	BQL	10.0	1	4/14/2006
Hexachlorobenzene	BQL	10.0	1	4/14/2006
Hexachlorobutadiene	BQL	10.0	1	4/14/2006
Hexachlorocyclopentadiene	BQL	20.0	1	4/14/2006
Hexachloroethane	BQL	10.0	1	4/14/2006
Indeno(1,2,3-c,d)pyrene	BQL	10.0	1	4/14/2006
Isophorone	BQL	10.0	1	4/14/2006
Naphthalene	BQL	10.0	1	4/14/2006

SGS

Results for Semivolatiles by GCMS 625

Client Sample ID: UST45-MW04/45
Client Project ID: NV007
Lab Sample ID: G650-38-2G
Lab Project ID: G650-38

Analyzed By: MRC
Date Collected: 4/6/2006 10:01
Date Received: 4/7/2006
Date Extracted: 4/10/2006
Matrix: Water

Compound	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
Nitrobenzene	BQL	10.0	1	4/14/2006
2-Nitrophenol	BQL	10.0	1	4/14/2006
4-Nitrophenol	BQL	50.0	1	4/14/2006
N-Nitrosodi-n-propylamine	BQL	10.0	1	4/14/2006
Pentachlorophenol	BQL	50.0	1	4/14/2006
Phenanthrene	BQL	10.0	1	4/14/2006
Phenol	BQL	10.0	1	4/14/2006
Pyrene	BQL	10.0	1	4/14/2006
1,2,4-Trichlorobenzene	BQL	10.0	1	4/14/2006
2,4,6-Trichlorophenol	BQL	10.0	1	4/14/2006

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	9.8	98
2-Fluorophenol	10	8.7	87
Nitrobenzene-d5	10	9.3	93
Phenol-d6	10	8	80
2,4,6-Tribromophenol	10	10.2	102
4-Terphenyl-d14	10	9.9	99

Comments:

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

Flags:

BQL = Below Quantitation Limits.

Reviewed By:

SGS

Results of Library Search for Semivolatile Compounds

by GCMS

Client Sample ID: UST45-MW04/45
Client Project ID: NV007
Lab Sample ID: G650-38-2G
Lab Project ID: G650-38
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: MRC
Date Collected: 4/6/2006 10:01
Date Received: 4/7/2006
Date Extracted: 4/10/2006
Date Analyzed: 4/14/2006
Matrix: Water

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

Comment:

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

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

Reviewed by:

SGS

Results for Semivolatiles by GCMS 625

Client Sample ID: UST45-MW12
Client Project ID: NV007
Lab Sample ID: G650-38-3G
Lab Project ID: G650-38

Analyzed By: MRC
Date Collected: 4/6/2006 10:35
Date Received: 4/7/2006
Date Extracted: 4/10/2006
Matrix: Water

Compound	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
Acenaphthene	BQL	10.0	1	4/14/2006
Acenaphthylene	BQL	10.0	1	4/14/2006
Anthracene	BQL	10.0	1	4/14/2006
Benzo[a]anthracene	BQL	10.0	1	4/14/2006
Benzo[a]pyrene	BQL	10.0	1	4/14/2006
Benzo[b]fluoranthene	BQL	10.0	1	4/14/2006
Benzo[g,h,i]perylene	BQL	10.0	1	4/14/2006
Benzo[k]fluoranthene	BQL	10.0	1	4/14/2006
Bis(2-chloroethoxy)methane	BQL	10.0	1	4/14/2006
Bis(2-chloroethyl)ether	BQL	10.0	1	4/14/2006
Bis(2-chloroisopropyl)ether	BQL	10.0	1	4/14/2006
Bis(2-ethylhexyl)phthalate	BQL	10.0	1	4/14/2006
4-bromophenyl phenyl ether	BQL	10.0	1	4/14/2006
Butylbenzylphthalate	BQL	10.0	1	4/14/2006
2-Chloronaphthalene	BQL	10.0	1	4/14/2006
2-Chlorophenol	BQL	10.0	1	4/14/2006
4-Chloro-3-methylphenol	BQL	10.0	1	4/14/2006
4-Chlorophenyl phenyl ether	BQL	10.0	1	4/14/2006
Chrysene	BQL	10.0	1	4/14/2006
Dibenzo[a,h]anthracene	BQL	10.0	1	4/14/2006
Di-n-Butylphthalate	BQL	10.0	1	4/14/2006
1,2-Dichlorobenzene	BQL	10.0	1	4/14/2006
1,3-Dichlorobenzene	BQL	10.0	1	4/14/2006
1,4-Dichlorobenzene	BQL	10.0	1	4/14/2006
3,3'-Dichlorobenzidine	BQL	20.0	1	4/14/2006
2,4-Dichlorophenol	BQL	10.0	1	4/14/2006
Diethylphthalate	BQL	10.0	1	4/14/2006
Dimethylphthalate	BQL	10.0	1	4/14/2006
2,4-Dimethylphenol	BQL	10.0	1	4/14/2006
Di-n-octylphthalate	BQL	10.0	1	4/14/2006
4,6-Dinitro-2-methylphenol	BQL	50.0	1	4/14/2006
2,4-Dinitrophenol	BQL	50.0	1	4/14/2006
2,4-Dinitrotoluene	BQL	10.0	1	4/14/2006
2,6-Dinitrotoluene	BQL	10.0	1	4/14/2006
Diphenylamine *	BQL	10.0	1	4/14/2006
Fluoranthene	BQL	10.0	1	4/14/2006
Fluorene	BQL	10.0	1	4/14/2006
Hexachlorobenzene	BQL	10.0	1	4/14/2006
Hexachlorobutadiene	BQL	10.0	1	4/14/2006
Hexachlorocyclopentadiene	BQL	20.0	1	4/14/2006
Hexachloroethane	BQL	10.0	1	4/14/2006
Indeno(1,2,3-c,d)pyrene	BQL	10.0	1	4/14/2006
Isophorone	BQL	10.0	1	4/14/2006
Naphthalene	BQL	10.0	1	4/14/2006

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Results for Semivolatiles by GCMS 625

Client Sample ID: UST45-MW12
Client Project ID: NV007
Lab Sample ID: G650-38-3G
Lab Project ID: G650-38

Analyzed By: MRC
Date Collected: 4/6/2006 10:35
Date Received: 4/7/2006
Date Extracted: 4/10/2006
Matrix: Water

Compound	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
Nitrobenzene	BQL	10.0	1	4/14/2006
2-Nitrophenol	BQL	10.0	1	4/14/2006
4-Nitrophenol	BQL	50.0	1	4/14/2006
N-Nitrosodi-n-propylamine	BQL	10.0	1	4/14/2006
Pentachlorophenol	BQL	50.0	1	4/14/2006
Phenanthrene	BQL	10.0	1	4/14/2006
Phenol	BQL	10.0	1	4/14/2006
Pyrene	BQL	10.0	1	4/14/2006
1,2,4-Trichlorobenzene	BQL	10.0	1	4/14/2006
2,4,6-Trichlorophenol	BQL	10.0	1	4/14/2006

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	9.2	92
2-Fluorophenol	10	8.3	83
Nitrobenzene-d5	10	8.5	85
Phenol-d6	10	7.6	76
2,4,6-Tribromophenol	10	9.6	96
4-Terphenyl-d14	10	9.6	96

Comments:

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

Flags:

BQL = Below Quantitation Limits.

Reviewed By:

SGS

Results of Library Search for Semivolatile Compounds

by GCMS

Client Sample ID: UST45-MW12
Client Project ID: NV007
Lab Sample ID: G650-38-3G
Lab Project ID: G650-38
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: MRC
Date Collected: 4/6/2006 10:35
Date Received: 4/7/2006
Date Extracted: 4/10/2006
Date Analyzed: 4/14/2006
Matrix: Water

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

Comment:

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

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

Reviewed by:

SGS

Results for Semivolatiles
by GCMS 625

Client Sample ID: UST45-MW04
Client Project ID: NV007
Lab Sample ID: G650-38-4G
Lab Project ID: G650-38

Analyzed By: MRC
Date Collected: 4/6/2006 11:20
Date Received: 4/7/2006
Date Extracted: 4/10/2006
Matrix: Water

Compound	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
Acenaphthene	BQL	10.0	1	4/14/2006
Acenaphthylene	BQL	10.0	1	4/14/2006
Anthracene	BQL	10.0	1	4/14/2006
Benzo[a]anthracene	BQL	10.0	1	4/14/2006
Benzo[a]pyrene	BQL	10.0	1	4/14/2006
Benzo[b]fluoranthene	BQL	10.0	1	4/14/2006
Benzo[g,h,i]perylene	BQL	10.0	1	4/14/2006
Benzo[k]fluoranthene	BQL	10.0	1	4/14/2006
Bis(2-chloroethoxy)methane	BQL	10.0	1	4/14/2006
Bis(2-chloroethyl)ether	BQL	10.0	1	4/14/2006
Bis(2-chloroisopropyl)ether	BQL	10.0	1	4/14/2006
Bis(2-ethylhexyl)phthalate	BQL	10.0	1	4/14/2006
4-bromophenyl phenyl ether	BQL	10.0	1	4/14/2006
Butylbenzylphthalate	BQL	10.0	1	4/14/2006
2-Chloronaphthalene	BQL	10.0	1	4/14/2006
2-Chlorophenol	BQL	10.0	1	4/14/2006
4-Chloro-3-methylphenol	BQL	10.0	1	4/14/2006
4-Chlorophenyl phenyl ether	BQL	10.0	1	4/14/2006
Chrysene	BQL	10.0	1	4/14/2006
Dibenzo[a,h]anthracene	BQL	10.0	1	4/14/2006
Di-n-Butylphthalate	BQL	10.0	1	4/14/2006
1,2-Dichlorobenzene	BQL	10.0	1	4/14/2006
1,3-Dichlorobenzene	BQL	10.0	1	4/14/2006
1,4-Dichlorobenzene	BQL	10.0	1	4/14/2006
3,3'-Dichlorobenzidine	BQL	20.0	1	4/14/2006
2,4-Dichlorophenol	BQL	10.0	1	4/14/2006
Diethylphthalate	BQL	10.0	1	4/14/2006
Dimethylphthalate	BQL	10.0	1	4/14/2006
2,4-Dimethylphenol	BQL	10.0	1	4/14/2006
Di-n-octylphthalate	BQL	10.0	1	4/14/2006
4,6-Dinitro-2-methylphenol	BQL	50.0	1	4/14/2006
2,4-Dinitrophenol	BQL	50.0	1	4/14/2006
2,4-Dinitrotoluene	BQL	10.0	1	4/14/2006
2,6-Dinitrotoluene	BQL	10.0	1	4/14/2006
Diphenylamine *	BQL	10.0	1	4/14/2006
Fluoranthene	BQL	10.0	1	4/14/2006
Fluorene	BQL	10.0	1	4/14/2006
Hexachlorobenzene	BQL	10.0	1	4/14/2006
Hexachlorobutadiene	BQL	10.0	1	4/14/2006
Hexachlorocyclopentadiene	BQL	20.0	1	4/14/2006
Hexachloroethane	BQL	10.0	1	4/14/2006
Indeno(1,2,3-c,d)pyrene	BQL	10.0	1	4/14/2006
Isophorone	BQL	10.0	1	4/14/2006
Naphthalene	BQL	10.0	1	4/14/2006

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Results for Semivolatiles
by GCMS 625

Client Sample ID: UST45-MW04
Client Project ID: NV007
Lab Sample ID: G650-38-4G
Lab Project ID: G650-38

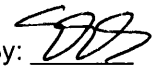
Analyzed By: MRC
Date Collected: 4/6/2006 11:20
Date Received: 4/7/2006
Date Extracted: 4/10/2006
Matrix: Water

Compound	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
Nitrobenzene	BQL	10.0	1	4/14/2006
2-Nitrophenol	BQL	10.0	1	4/14/2006
4-Nitrophenol	BQL	50.0	1	4/14/2006
N-Nitrosodi-n-propylamine	BQL	10.0	1	4/14/2006
Pentachlorophenol	BQL	50.0	1	4/14/2006
Phenanthrene	BQL	10.0	1	4/14/2006
Phenol	BQL	10.0	1	4/14/2006
Pyrene	BQL	10.0	1	4/14/2006
1,2,4-Trichlorobenzene	BQL	10.0	1	4/14/2006
2,4,6-Trichlorophenol	BQL	10.0	1	4/14/2006

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	9.6	96
2-Fluorophenol	10	8.5	85
Nitrobenzene-d5	10	8.5	85
Phenol-d6	10	7.8	78
2,4,6-Tribromophenol	10	10	100
4-Terphenyl-d14	10	9.7	97

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

Flags:
BQL = Below Quantitation Limits.

Reviewed By: 

SGS

Results of Library Search for Semivolatile Compounds

by GCMS

Client Sample ID: UST45-MW04
Client Project ID: NV007
Lab Sample ID: G650-38-4G
Lab Project ID: G650-38
Sample Wt/Vol: 500 ML
Dilution: 1

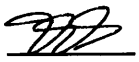
Analyzed By: MRC
Date Collected: 4/6/2006 11:20
Date Received: 4/7/2006
Date Extracted: 4/10/2006
Date Analyzed: 4/14/2006
Matrix: Water

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

Comment:

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

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

Reviewed by: 

SGS

Results for Semivolatiles
by GCMS 625

Client Sample ID: UST45-MW01/45
Client Project ID: NV007
Lab Sample ID: G650-38-5G
Lab Project ID: G650-38

Analyzed By: MRC
Date Collected: 4/6/2006 11:43
Date Received: 4/7/2006
Date Extracted: 4/10/2006
Matrix: Water

Compound	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
Acenaphthene	BQL	10.0	1	4/14/2006
Acenaphthylene	BQL	10.0	1	4/14/2006
Anthracene	BQL	10.0	1	4/14/2006
Benzo[a]anthracene	BQL	10.0	1	4/14/2006
Benzo[a]pyrene	BQL	10.0	1	4/14/2006
Benzo[b]fluoranthene	BQL	10.0	1	4/14/2006
Benzo[g,h,i]perylene	BQL	10.0	1	4/14/2006
Benzo[k]fluoranthene	BQL	10.0	1	4/14/2006
Bis(2-chloroethoxy)methane	BQL	10.0	1	4/14/2006
Bis(2-chloroethyl)ether	BQL	10.0	1	4/14/2006
Bis(2-chloroisopropyl)ether	BQL	10.0	1	4/14/2006
Bis(2-ethylhexyl)phthalate	BQL	10.0	1	4/14/2006
4-bromophenyl phenyl ether	BQL	10.0	1	4/14/2006
Butylbenzylphthalate	BQL	10.0	1	4/14/2006
2-Chloronaphthalene	BQL	10.0	1	4/14/2006
2-Chlorophenol	BQL	10.0	1	4/14/2006
4-Chloro-3-methylphenol	BQL	10.0	1	4/14/2006
4-Chlorophenyl phenyl ether	BQL	10.0	1	4/14/2006
Chrysene	BQL	10.0	1	4/14/2006
Dibenzo[a,h]anthracene	BQL	10.0	1	4/14/2006
Di-n-Butylphthalate	BQL	10.0	1	4/14/2006
1,2-Dichlorobenzene	BQL	10.0	1	4/14/2006
1,3-Dichlorobenzene	BQL	10.0	1	4/14/2006
1,4-Dichlorobenzene	BQL	10.0	1	4/14/2006
3,3'-Dichlorobenzidine	BQL	20.0	1	4/14/2006
2,4-Dichlorophenol	BQL	10.0	1	4/14/2006
Diethylphthalate	BQL	10.0	1	4/14/2006
Dimethylphthalate	BQL	10.0	1	4/14/2006
2,4-Dimethylphenol	BQL	10.0	1	4/14/2006
Di-n-octylphthalate	BQL	10.0	1	4/14/2006
4,6-Dinitro-2-methylphenol	BQL	50.0	1	4/14/2006
2,4-Dinitrophenol	BQL	50.0	1	4/14/2006
2,4-Dinitrotoluene	BQL	10.0	1	4/14/2006
2,6-Dinitrotoluene	BQL	10.0	1	4/14/2006
Diphenylamine *	BQL	10.0	1	4/14/2006
Fluoranthene	BQL	10.0	1	4/14/2006
Fluorene	BQL	10.0	1	4/14/2006
Hexachlorobenzene	BQL	10.0	1	4/14/2006
Hexachlorobutadiene	BQL	10.0	1	4/14/2006
Hexachlorocyclopentadiene	BQL	20.0	1	4/14/2006
Hexachloroethane	BQL	10.0	1	4/14/2006
Indeno(1,2,3-c,d)pyrene	BQL	10.0	1	4/14/2006
Isophorone	BQL	10.0	1	4/14/2006
Naphthalene	BQL	10.0	1	4/14/2006

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Results for Semivolatiles
by GCMS 625

Client Sample ID: UST45-MW01/45
Client Project ID: NV007
Lab Sample ID: G650-38-5G
Lab Project ID: G650-38

Analyzed By: MRC
Date Collected: 4/6/2006 11:43
Date Received: 4/7/2006
Date Extracted: 4/10/2006
Matrix: Water

Compound	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
Nitrobenzene	BQL	10.0	1	4/14/2006
2-Nitrophenol	BQL	10.0	1	4/14/2006
4-Nitrophenol	BQL	50.0	1	4/14/2006
N-Nitrosodi-n-propylamine	BQL	10.0	1	4/14/2006
Pentachlorophenol	BQL	50.0	1	4/14/2006
Phenanthrene	BQL	10.0	1	4/14/2006
Phenol	BQL	10.0	1	4/14/2006
Pyrene	BQL	10.0	1	4/14/2006
1,2,4-Trichlorobenzene	BQL	10.0	1	4/14/2006
2,4,6-Trichlorophenol	BQL	10.0	1	4/14/2006

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	9.5	95
2-Fluorophenol	10	9.1	91
Nitrobenzene-d5	10	9.3	93
Phenol-d6	10	8.1	81
2,4,6-Tribromophenol	10	10.1	101
4-Terphenyl-d14	10	7.7	77

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

Flags:
BQL = Below Quantitation Limits.

Reviewed By: 

SGS

Results of Library Search for Semivolatile Compounds

by GCMS

Client Sample ID: UST45-MW01/45
Client Project ID: NV007
Lab Sample ID: G650-38-5G
Lab Project ID: G650-38
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: MRC
Date Collected: 4/6/2006 11:43
Date Received: 4/7/2006
Date Extracted: 4/10/2006
Date Analyzed: 4/14/2006
Matrix: Water

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

Comment:

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

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

Reviewed by:

SGS

Results for Semivolatiles
by GCMS 625

Client Sample ID: UST45-MW19
Client Project ID: NV007
Lab Sample ID: G650-38-6G
Lab Project ID: G650-38

Analyzed By: MRC
Date Collected: 4/6/2006 11:58
Date Received: 4/7/2006
Date Extracted: 4/10/2006
Matrix: Water

Compound	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
Acenaphthene	BQL	10.0	1	4/14/2006
Acenaphthylene	BQL	10.0	1	4/14/2006
Anthracene	BQL	10.0	1	4/14/2006
Benzo[a]anthracene	BQL	10.0	1	4/14/2006
Benzo[a]pyrene	BQL	10.0	1	4/14/2006
Benzo[b]fluoranthene	BQL	10.0	1	4/14/2006
Benzo[g,h,i]perylene	BQL	10.0	1	4/14/2006
Benzo[k]fluoranthene	BQL	10.0	1	4/14/2006
Bis(2-chloroethoxy)methane	BQL	10.0	1	4/14/2006
Bis(2-chloroethyl)ether	BQL	10.0	1	4/14/2006
Bis(2-chloroisopropyl)ether	BQL	10.0	1	4/14/2006
Bis(2-ethylhexyl)phthalate	BQL	10.0	1	4/14/2006
4-bromophenyl phenyl ether	BQL	10.0	1	4/14/2006
Butylbenzylphthalate	BQL	10.0	1	4/14/2006
2-Chloronaphthalene	BQL	10.0	1	4/14/2006
2-Chlorophenol	BQL	10.0	1	4/14/2006
4-Chloro-3-methylphenol	BQL	10.0	1	4/14/2006
4-Chlorophenyl phenyl ether	BQL	10.0	1	4/14/2006
Chrysene	BQL	10.0	1	4/14/2006
Dibenzo[a,h]anthracene	BQL	10.0	1	4/14/2006
Di-n-Butylphthalate	BQL	10.0	1	4/14/2006
1,2-Dichlorobenzene	BQL	10.0	1	4/14/2006
1,3-Dichlorobenzene	BQL	10.0	1	4/14/2006
1,4-Dichlorobenzene	BQL	10.0	1	4/14/2006
3,3'-Dichlorobenzidine	BQL	20.0	1	4/14/2006
2,4-Dichlorophenol	BQL	10.0	1	4/14/2006
Diethylphthalate	BQL	10.0	1	4/14/2006
Dimethylphthalate	BQL	10.0	1	4/14/2006
2,4-Dimethylphenol	BQL	10.0	1	4/14/2006
Di-n-octylphthalate	BQL	10.0	1	4/14/2006
4,6-Dinitro-2-methylphenol	BQL	50.0	1	4/14/2006
2,4-Dinitrophenol	BQL	50.0	1	4/14/2006
2,4-Dinitrotoluene	BQL	10.0	1	4/14/2006
2,6-Dinitrotoluene	BQL	10.0	1	4/14/2006
Diphenylamine *	BQL	10.0	1	4/14/2006
Fluoranthene	BQL	10.0	1	4/14/2006
Fluorene	BQL	10.0	1	4/14/2006
Hexachlorobenzene	BQL	10.0	1	4/14/2006
Hexachlorobutadiene	BQL	10.0	1	4/14/2006
Hexachlorocyclopentadiene	BQL	20.0	1	4/14/2006
Hexachloroethane	BQL	10.0	1	4/14/2006
Indeno(1,2,3-c,d)pyrene	BQL	10.0	1	4/14/2006
Isophorone	BQL	10.0	1	4/14/2006
Naphthalene	BQL	10.0	1	4/14/2006

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Results for Semivolatiles by GCMS 625

Client Sample ID: UST45-MW19
Client Project ID: NV007
Lab Sample ID: G650-38-6G
Lab Project ID: G650-38

Analyzed By: MRC
Date Collected: 4/6/2006 11:58
Date Received: 4/7/2006
Date Extracted: 4/10/2006
Matrix: Water

Compound	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
Nitrobenzene	BQL	10.0	1	4/14/2006
2-Nitrophenol	BQL	10.0	1	4/14/2006
4-Nitrophenol	BQL	50.0	1	4/14/2006
N-Nitrosodi-n-propylamine	BQL	10.0	1	4/14/2006
Pentachlorophenol	BQL	50.0	1	4/14/2006
Phenanthrene	BQL	10.0	1	4/14/2006
Phenol	BQL	10.0	1	4/14/2006
Pyrene	BQL	10.0	1	4/14/2006
1,2,4-Trichlorobenzene	BQL	10.0	1	4/14/2006
2,4,6-Trichlorophenol	BQL	10.0	1	4/14/2006

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	9	90
2-Fluorophenol	10	8.3	83
Nitrobenzene-d5	10	8.4	84
Phenol-d6	10	7.4	74
2,4,6-Tribromophenol	10	9.5	95
4-Terphenyl-d14	10	9.9	99

Comments:

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

Flags:

BQL = Below Quantitation Limits.

Reviewed By: _____

SGS

Results of Library Search for Semivolatile Compounds

by GCMS

Client Sample ID: UST45-MW19
Client Project ID: NV007
Lab Sample ID: G650-38-6G
Lab Project ID: G650-38
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: MRC
Date Collected: 4/6/2006 11:58
Date Received: 4/7/2006
Date Extracted: 4/10/2006
Date Analyzed: 4/14/2006
Matrix: Water

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

Comment:

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

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

Reviewed by:

SGS

Results for Semivolatiles by GCMS 625

Client Sample ID: UST45-MW20
Client Project ID: NV007
Lab Sample ID: G650-38-7G
Lab Project ID: G650-38

Analyzed By: MRC
Date Collected: 4/6/2006 12:40
Date Received: 4/7/2006
Date Extracted: 4/10/2006
Matrix: Water

Compound	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
Acenaphthene	BQL	10.0	1	4/15/2006
Acenaphthylene	BQL	10.0	1	4/15/2006
Anthracene	BQL	10.0	1	4/15/2006
Benzo[a]anthracene	BQL	10.0	1	4/15/2006
Benzo[a]pyrene	BQL	10.0	1	4/15/2006
Benzo[b]fluoranthene	BQL	10.0	1	4/15/2006
Benzo[g,h,i]perylene	BQL	10.0	1	4/15/2006
Benzo[k]fluoranthene	BQL	10.0	1	4/15/2006
Bis(2-chloroethoxy)methane	BQL	10.0	1	4/15/2006
Bis(2-chloroethyl)ether	BQL	10.0	1	4/15/2006
Bis(2-chloroisopropyl)ether	BQL	10.0	1	4/15/2006
Bis(2-ethylhexyl)phthalate	BQL	10.0	1	4/15/2006
4-bromophenyl phenyl ether	BQL	10.0	1	4/15/2006
Butylbenzylphthalate	BQL	10.0	1	4/15/2006
2-Chloronaphthalene	BQL	10.0	1	4/15/2006
2-Chlorophenol	BQL	10.0	1	4/15/2006
4-Chloro-3-methylphenol	BQL	10.0	1	4/15/2006
4-Chlorophenyl phenyl ether	BQL	10.0	1	4/15/2006
Chrysene	BQL	10.0	1	4/15/2006
Dibenzo[a,h]anthracene	BQL	10.0	1	4/15/2006
Di-n-Butylphthalate	BQL	10.0	1	4/15/2006
1,2-Dichlorobenzene	BQL	10.0	1	4/15/2006
1,3-Dichlorobenzene	BQL	10.0	1	4/15/2006
1,4-Dichlorobenzene	BQL	10.0	1	4/15/2006
3,3'-Dichlorobenzidine	BQL	20.0	1	4/15/2006
2,4-Dichlorophenol	BQL	10.0	1	4/15/2006
Diethylphthalate	BQL	10.0	1	4/15/2006
Dimethylphthalate	BQL	10.0	1	4/15/2006
2,4-Dimethylphenol	BQL	10.0	1	4/15/2006
Di-n-octylphthalate	BQL	10.0	1	4/15/2006
4,6-Dinitro-2-methylphenol	BQL	50.0	1	4/15/2006
2,4-Dinitrophenol	BQL	50.0	1	4/15/2006
2,4-Dinitrotoluene	BQL	10.0	1	4/15/2006
2,6-Dinitrotoluene	BQL	10.0	1	4/15/2006
Diphenylamine *	BQL	10.0	1	4/15/2006
Fluoranthene	BQL	10.0	1	4/15/2006
Fluorene	BQL	10.0	1	4/15/2006
Hexachlorobenzene	BQL	10.0	1	4/15/2006
Hexachlorobutadiene	BQL	10.0	1	4/15/2006
Hexachlorocyclopentadiene	BQL	20.0	1	4/15/2006
Hexachloroethane	BQL	10.0	1	4/15/2006
Indeno(1,2,3-c,d)pyrene	BQL	10.0	1	4/15/2006
Isophorone	BQL	10.0	1	4/15/2006
Naphthalene	BQL	10.0	1	4/15/2006

SGS

Results for Semivolatiles
by GCMS 625

Client Sample ID: UST45-MW20
Client Project ID: NV007
Lab Sample ID: G650-38-7G
Lab Project ID: G650-38

Analyzed By: MRC
Date Collected: 4/6/2006 12:40
Date Received: 4/7/2006
Date Extracted: 4/10/2006
Matrix: Water

Compound	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
Nitrobenzene	BQL	10.0	1	4/15/2006
2-Nitrophenol	BQL	10.0	1	4/15/2006
4-Nitrophenol	BQL	50.0	1	4/15/2006
N-Nitrosodi-n-propylamine	BQL	10.0	1	4/15/2006
Pentachlorophenol	BQL	50.0	1	4/15/2006
Phenanthrene	BQL	10.0	1	4/15/2006
Phenol	BQL	10.0	1	4/15/2006
Pyrene	BQL	10.0	1	4/15/2006
1,2,4-Trichlorobenzene	BQL	10.0	1	4/15/2006
2,4,6-Trichlorophenol	BQL	10.0	1	4/15/2006

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	7.9	79
2-Fluorophenol	10	7.8	78
Nitrobenzene-d5	10	7.9	79
Phenol-d6	10	7.5	75
2,4,6-Tribromophenol	10	7.8	78
4-Terphenyl-d14	10	6.4	64

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

Flags:
BQL = Below Quantitation Limits.

Reviewed By: 

SGS

Results of Library Search for Semivolatile Compounds

by GCMS

Client Sample ID: UST45-MW20
Client Project ID: NV007
Lab Sample ID: G650-38-7G
Lab Project ID: G650-38
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: MRC
Date Collected: 4/6/2006 12:40
Date Received: 4/7/2006
Date Extracted: 4/10/2006
Date Analyzed: 4/15/2006
Matrix: Water

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

Comment:

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

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

Reviewed by:

SGS

Results for Semivolatiles
by GCMS 625

Client Sample ID: UST45-MW14
Client Project ID: NV007
Lab Sample ID: G650-38-8G
Lab Project ID: G650-38

Analyzed By: MRC
Date Collected: 4/6/2006 13:10
Date Received: 4/7/2006
Date Extracted: 4/10/2006
Matrix: Water

Compound	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
Acenaphthene	BQL	10.0	1	4/15/2006
Acenaphthylene	BQL	10.0	1	4/15/2006
Anthracene	BQL	10.0	1	4/15/2006
Benzo[a]anthracene	BQL	10.0	1	4/15/2006
Benzo[a]pyrene	BQL	10.0	1	4/15/2006
Benzo[b]fluoranthene	BQL	10.0	1	4/15/2006
Benzo[g,h,i]perylene	BQL	10.0	1	4/15/2006
Benzo[k]fluoranthene	BQL	10.0	1	4/15/2006
Bis(2-chloroethoxy)methane	BQL	10.0	1	4/15/2006
Bis(2-chloroethyl)ether	BQL	10.0	1	4/15/2006
Bis(2-chloroisopropyl)ether	BQL	10.0	1	4/15/2006
Bis(2-ethylhexyl)phthalate	BQL	10.0	1	4/15/2006
4-bromophenyl phenyl ether	BQL	10.0	1	4/15/2006
Butylbenzylphthalate	BQL	10.0	1	4/15/2006
2-Chloronaphthalene	BQL	10.0	1	4/15/2006
2-Chlorophenol	BQL	10.0	1	4/15/2006
4-Chloro-3-methylphenol	BQL	10.0	1	4/15/2006
4-Chlorophenyl phenyl ether	BQL	10.0	1	4/15/2006
Chrysene	BQL	10.0	1	4/15/2006
Dibenzo[a,h]anthracene	BQL	10.0	1	4/15/2006
Di-n-Butylphthalate	BQL	10.0	1	4/15/2006
1,2-Dichlorobenzene	BQL	10.0	1	4/15/2006
1,3-Dichlorobenzene	BQL	10.0	1	4/15/2006
1,4-Dichlorobenzene	BQL	10.0	1	4/15/2006
3,3'-Dichlorobenzidine	BQL	20.0	1	4/15/2006
2,4-Dichlorophenol	BQL	10.0	1	4/15/2006
Diethylphthalate	BQL	10.0	1	4/15/2006
Dimethylphthalate	BQL	10.0	1	4/15/2006
2,4-Dimethylphenol	BQL	10.0	1	4/15/2006
Di-n-octylphthalate	BQL	10.0	1	4/15/2006
4,6-Dinitro-2-methylphenol	BQL	50.0	1	4/15/2006
2,4-Dinitrophenol	BQL	50.0	1	4/15/2006
2,4-Dinitrotoluene	BQL	10.0	1	4/15/2006
2,6-Dinitrotoluene	BQL	10.0	1	4/15/2006
Diphenylamine *	BQL	10.0	1	4/15/2006
Fluoranthene	BQL	10.0	1	4/15/2006
Fluorene	BQL	10.0	1	4/15/2006
Hexachlorobenzene	BQL	10.0	1	4/15/2006
Hexachlorobutadiene	BQL	10.0	1	4/15/2006
Hexachlorocyclopentadiene	BQL	20.0	1	4/15/2006
Hexachloroethane	BQL	10.0	1	4/15/2006
Indeno(1,2,3-c,d)pyrene	BQL	10.0	1	4/15/2006
Isophorone	BQL	10.0	1	4/15/2006
Naphthalene	BQL	10.0	1	4/15/2006

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SGS

Results for Semivolatiles
by GCMS 625

Client Sample ID: UST45-MW14
Client Project ID: NV007
Lab Sample ID: G650-38-8G
Lab Project ID: G650-38

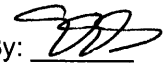
Analyzed By: MRC
Date Collected: 4/6/2006 13:10
Date Received: 4/7/2006
Date Extracted: 4/10/2006
Matrix: Water

Compound	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
Nitrobenzene	BQL	10.0	1	4/15/2006
2-Nitrophenol	BQL	10.0	1	4/15/2006
4-Nitrophenol	BQL	50.0	1	4/15/2006
N-Nitrosodi-n-propylamine	BQL	10.0	1	4/15/2006
Pentachlorophenol	BQL	50.0	1	4/15/2006
Phenanthrene	BQL	10.0	1	4/15/2006
Phenol	BQL	10.0	1	4/15/2006
Pyrene	BQL	10.0	1	4/15/2006
1,2,4-Trichlorobenzene	BQL	10.0	1	4/15/2006
2,4,6-Trichlorophenol	BQL	10.0	1	4/15/2006

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	9.6	96
2-Fluorophenol	10	9.7	97
Nitrobenzene-d5	10	9.8	98
Phenol-d6	10	9.4	94
2,4,6-Tribromophenol	10	9.4	94
4-Terphenyl-d14	10	10.1	101

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

Flags:
BQL = Below Quantitation Limits.

Reviewed By: 

SGS

Results of Library Search for Semivolatile Compounds

by GCMS

Client Sample ID: UST45-MW14
Client Project ID: NV007
Lab Sample ID: G650-38-8G
Lab Project ID: G650-38
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: MRC
Date Collected: 4/6/2006 13:10
Date Received: 4/7/2006
Date Extracted: 4/10/2006
Date Analyzed: 4/15/2006
Matrix: Water

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

Comment:

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

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

Reviewed by: 

SGS

Results for Semivolatiles by GCMS 625

Client Sample ID: UST45-MW18
Client Project ID: NV007
Lab Sample ID: G650-38-9G
Lab Project ID: G650-38

Analyzed By: MRC
Date Collected: 4/6/2006 13:11
Date Received: 4/7/2006
Date Extracted: 4/10/2006
Matrix: Water

Compound	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
Acenaphthene	BQL	10.0	1	4/15/2006
Acenaphthylene	BQL	10.0	1	4/15/2006
Anthracene	BQL	10.0	1	4/15/2006
Benzo[a]anthracene	BQL	10.0	1	4/15/2006
Benzo[a]pyrene	BQL	10.0	1	4/15/2006
Benzo[b]fluoranthene	BQL	10.0	1	4/15/2006
Benzo[g,h,i]perylene	BQL	10.0	1	4/15/2006
Benzo[k]fluoranthene	BQL	10.0	1	4/15/2006
Bis(2-chloroethoxy)methane	BQL	10.0	1	4/15/2006
Bis(2-chloroethyl)ether	BQL	10.0	1	4/15/2006
Bis(2-chloroisopropyl)ether	BQL	10.0	1	4/15/2006
Bis(2-ethylhexyl)phthalate	BQL	10.0	1	4/15/2006
4-bromophenyl phenyl ether	BQL	10.0	1	4/15/2006
Butylbenzylphthalate	BQL	10.0	1	4/15/2006
2-Chloronaphthalene	BQL	10.0	1	4/15/2006
2-Chlorophenol	BQL	10.0	1	4/15/2006
4-Chloro-3-methylphenol	BQL	10.0	1	4/15/2006
4-Chlorophenyl phenyl ether	BQL	10.0	1	4/15/2006
Chrysene	BQL	10.0	1	4/15/2006
Dibenzo[a,h]anthracene	BQL	10.0	1	4/15/2006
Di-n-Butylphthalate	BQL	10.0	1	4/15/2006
1,2-Dichlorobenzene	BQL	10.0	1	4/15/2006
1,3-Dichlorobenzene	BQL	10.0	1	4/15/2006
1,4-Dichlorobenzene	BQL	10.0	1	4/15/2006
3,3'-Dichlorobenzidine	BQL	20.0	1	4/15/2006
2,4-Dichlorophenol	BQL	10.0	1	4/15/2006
Diethylphthalate	BQL	10.0	1	4/15/2006
Dimethylphthalate	BQL	10.0	1	4/15/2006
2,4-Dimethylphenol	BQL	10.0	1	4/15/2006
Di-n-octylphthalate	BQL	10.0	1	4/15/2006
4,6-Dinitro-2-methylphenol	BQL	50.0	1	4/15/2006
2,4-Dinitrophenol	BQL	50.0	1	4/15/2006
2,4-Dinitrotoluene	BQL	10.0	1	4/15/2006
2,6-Dinitrotoluene	BQL	10.0	1	4/15/2006
Diphenylamine *	BQL	10.0	1	4/15/2006
Fluoranthene	BQL	10.0	1	4/15/2006
Fluorene	BQL	10.0	1	4/15/2006
Hexachlorobenzene	BQL	10.0	1	4/15/2006
Hexachlorobutadiene	BQL	10.0	1	4/15/2006
Hexachlorocyclopentadiene	BQL	20.0	1	4/15/2006
Hexachloroethane	BQL	10.0	1	4/15/2006
Indeno(1,2,3-c,d)pyrene	BQL	10.0	1	4/15/2006
Isophorone	BQL	10.0	1	4/15/2006
Naphthalene	BQL	10.0	1	4/15/2006

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SGS

Results for Semivolatiles
by GCMS 625

Client Sample ID: UST45-MW18
Client Project ID: NV007
Lab Sample ID: G650-38-9G
Lab Project ID: G650-38

Analyzed By: MRC
Date Collected: 4/6/2006 13:11
Date Received: 4/7/2006
Date Extracted: 4/10/2006
Matrix: Water

Compound	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
Nitrobenzene	BQL	10.0	1	4/15/2006
2-Nitrophenol	BQL	10.0	1	4/15/2006
4-Nitrophenol	BQL	50.0	1	4/15/2006
N-Nitrosodi-n-propylamine	BQL	10.0	1	4/15/2006
Pentachlorophenol	BQL	50.0	1	4/15/2006
Phenanthrene	BQL	10.0	1	4/15/2006
Phenol	BQL	10.0	1	4/15/2006
Pyrene	BQL	10.0	1	4/15/2006
1,2,4-Trichlorobenzene	BQL	10.0	1	4/15/2006
2,4,6-Trichlorophenol	BQL	10.0	1	4/15/2006

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	8.1	81
2-Fluorophenol	10	7.8	78
Nitrobenzene-d5	10	8.2	82
Phenol-d6	10	8	80
2,4,6-Tribromophenol	10	9	90
4-Terphenyl-d14	10	8.8	88

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

Flags:
BQL = Below Quantitation Limits.

Reviewed By: _____

SGS

Results of Library Search for Semivolatile Compounds

by GCMS

Client Sample ID: UST45-MW18
Client Project ID: NV007
Lab Sample ID: G650-38-9G
Lab Project ID: G650-38
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: MRC
Date Collected: 4/6/2006 13:11
Date Received: 4/7/2006
Date Extracted: 4/10/2006
Date Analyzed: 4/15/2006
Matrix: Water

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

Comment:

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

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

Reviewed by:

SGS

Results for Semivolatiles by GCMS 625

Client Sample ID: UST45-MW15
Client Project ID: NV007
Lab Sample ID: G650-38-10G
Lab Project ID: G650-38

Analyzed By: MRC
Date Collected: 4/6/2006 13:48
Date Received: 4/7/2006
Date Extracted: 4/10/2006
Matrix: Water

Compound	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
Acenaphthene	BQL	10.0	1	4/15/2006
Acenaphthylene	BQL	10.0	1	4/15/2006
Anthracene	BQL	10.0	1	4/15/2006
Benzo[a]anthracene	BQL	10.0	1	4/15/2006
Benzo[a]pyrene	BQL	10.0	1	4/15/2006
Benzo[b]fluoranthene	BQL	10.0	1	4/15/2006
Benzo[g,h,i]perylene	BQL	10.0	1	4/15/2006
Benzo[k]fluoranthene	BQL	10.0	1	4/15/2006
Bis(2-chloroethoxy)methane	BQL	10.0	1	4/15/2006
Bis(2-chloroethyl)ether	BQL	10.0	1	4/15/2006
Bis(2-chloroisopropyl)ether	BQL	10.0	1	4/15/2006
Bis(2-ethylhexyl)phthalate	BQL	10.0	1	4/15/2006
4-bromophenyl phenyl ether	BQL	10.0	1	4/15/2006
Butylbenzylphthalate	BQL	10.0	1	4/15/2006
2-Chloronaphthalene	BQL	10.0	1	4/15/2006
2-Chlorophenol	BQL	10.0	1	4/15/2006
4-Chloro-3-methylphenol	BQL	10.0	1	4/15/2006
4-Chlorophenyl phenyl ether	BQL	10.0	1	4/15/2006
Chrysene	BQL	10.0	1	4/15/2006
Dibenzo[a,h]anthracene	BQL	10.0	1	4/15/2006
Di-n-Butylphthalate	BQL	10.0	1	4/15/2006
1,2-Dichlorobenzene	BQL	10.0	1	4/15/2006
1,3-Dichlorobenzene	BQL	10.0	1	4/15/2006
1,4-Dichlorobenzene	BQL	10.0	1	4/15/2006
3,3'-Dichlorobenzidine	BQL	20.0	1	4/15/2006
2,4-Dichlorophenol	BQL	10.0	1	4/15/2006
Diethylphthalate	BQL	10.0	1	4/15/2006
Dimethylphthalate	BQL	10.0	1	4/15/2006
2,4-Dimethylphenol	BQL	10.0	1	4/15/2006
Di-n-octylphthalate	BQL	10.0	1	4/15/2006
4,6-Dinitro-2-methylphenol	BQL	50.0	1	4/15/2006
2,4-Dinitrophenol	BQL	50.0	1	4/15/2006
2,4-Dinitrotoluene	BQL	10.0	1	4/15/2006
2,6-Dinitrotoluene	BQL	10.0	1	4/15/2006
Diphenylamine *	BQL	10.0	1	4/15/2006
Fluoranthene	BQL	10.0	1	4/15/2006
Fluorene	BQL	10.0	1	4/15/2006
Hexachlorobenzene	BQL	10.0	1	4/15/2006
Hexachlorobutadiene	BQL	10.0	1	4/15/2006
Hexachlorocyclopentadiene	BQL	20.0	1	4/15/2006
Hexachloroethane	BQL	10.0	1	4/15/2006
Indeno(1,2,3-c,d)pyrene	BQL	10.0	1	4/15/2006
Isophorone	BQL	10.0	1	4/15/2006
Naphthalene	BQL	10.0	1	4/15/2006

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SGS

Results for Semivolatiles by GCMS 625

Client Sample ID: UST45-MW15
Client Project ID: NV007
Lab Sample ID: G650-38-10G
Lab Project ID: G650-38

Analyzed By: MRC
Date Collected: 4/6/2006 13:48
Date Received: 4/7/2006
Date Extracted: 4/10/2006
Matrix: Water

Compound	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
Nitrobenzene	BQL	10.0	1	4/15/2006
2-Nitrophenol	BQL	10.0	1	4/15/2006
4-Nitrophenol	BQL	50.0	1	4/15/2006
N-Nitrosodi-n-propylamine	BQL	10.0	1	4/15/2006
Pentachlorophenol	BQL	50.0	1	4/15/2006
Phenanthrene	BQL	10.0	1	4/15/2006
Phenol	BQL	10.0	1	4/15/2006
Pyrene	BQL	10.0	1	4/15/2006
1,2,4-Trichlorobenzene	BQL	10.0	1	4/15/2006
2,4,6-Trichlorophenol	BQL	10.0	1	4/15/2006

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	8.7	87
2-Fluorophenol	10	9.2	92
Nitrobenzene-d5	10	9.1	91
Phenol-d6	10	8.9	88
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.

Reviewed By:

SGS

Results of Library Search for Semivolatile Compounds

by GCMS

Client Sample ID: UST45-MW15
Client Project ID: NV007
Lab Sample ID: G650-38-10G
Lab Project ID: G650-38
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: MRC
Date Collected: 4/6/2006 13:48
Date Received: 4/7/2006
Date Extracted: 4/10/2006
Date Analyzed: 4/15/2006
Matrix: Water

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

Comment:

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

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

Reviewed by: _____

SGS

Results for Semivolatiles
by GCMS 625

Client Sample ID: UST45-MW09
Client Project ID: NV007
Lab Sample ID: G650-38-11G
Lab Project ID: G650-38

Analyzed By: MRC
Date Collected: 4/6/2006 14:45
Date Received: 4/7/2006
Date Extracted: 4/10/2006
Matrix: Water

Compound	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
Acenaphthene	BQL	10.0	1	4/15/2006
Acenaphthylene	BQL	10.0	1	4/15/2006
Anthracene	BQL	10.0	1	4/15/2006
Benzo[a]anthracene	BQL	10.0	1	4/15/2006
Benzo[a]pyrene	BQL	10.0	1	4/15/2006
Benzo[b]fluoranthene	BQL	10.0	1	4/15/2006
Benzo[g,h,i]perylene	BQL	10.0	1	4/15/2006
Benzo[k]fluoranthene	BQL	10.0	1	4/15/2006
Bis(2-chloroethoxy)methane	BQL	10.0	1	4/15/2006
Bis(2-chloroethyl)ether	BQL	10.0	1	4/15/2006
Bis(2-chloroisopropyl)ether	BQL	10.0	1	4/15/2006
Bis(2-ethylhexyl)phthalate	BQL	10.0	1	4/15/2006
4-bromophenyl phenyl ether	BQL	10.0	1	4/15/2006
Butylbenzylphthalate	BQL	10.0	1	4/15/2006
2-Chloronaphthalene	BQL	10.0	1	4/15/2006
2-Chlorophenol	BQL	10.0	1	4/15/2006
4-Chloro-3-methylphenol	BQL	10.0	1	4/15/2006
4-Chlorophenyl phenyl ether	BQL	10.0	1	4/15/2006
Chrysene	BQL	10.0	1	4/15/2006
Dibenzo[a,h]anthracene	BQL	10.0	1	4/15/2006
Di-n-Butylphthalate	BQL	10.0	1	4/15/2006
1,2-Dichlorobenzene	BQL	10.0	1	4/15/2006
1,3-Dichlorobenzene	BQL	10.0	1	4/15/2006
1,4-Dichlorobenzene	BQL	10.0	1	4/15/2006
3,3'-Dichlorobenzidine	BQL	20.0	1	4/15/2006
2,4-Dichlorophenol	BQL	10.0	1	4/15/2006
Diethylphthalate	BQL	10.0	1	4/15/2006
Dimethylphthalate	BQL	10.0	1	4/15/2006
2,4-Dimethylphenol	BQL	10.0	1	4/15/2006
Di-n-octylphthalate	BQL	10.0	1	4/15/2006
4,6-Dinitro-2-methylphenol	BQL	50.0	1	4/15/2006
2,4-Dinitrophenol	BQL	50.0	1	4/15/2006
2,4-Dinitrotoluene	BQL	10.0	1	4/15/2006
2,6-Dinitrotoluene	BQL	10.0	1	4/15/2006
Diphenylamine *	BQL	10.0	1	4/15/2006
Fluoranthene	BQL	10.0	1	4/15/2006
Fluorene	BQL	10.0	1	4/15/2006
Hexachlorobenzene	BQL	10.0	1	4/15/2006
Hexachlorobutadiene	BQL	10.0	1	4/15/2006
Hexachlorocyclopentadiene	BQL	20.0	1	4/15/2006
Hexachloroethane	BQL	10.0	1	4/15/2006
Indeno(1,2,3-c,d)pyrene	BQL	10.0	1	4/15/2006
Isophorone	BQL	10.0	1	4/15/2006
Naphthalene	BQL	10.0	1	4/15/2006

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Results for Semivolatiles
by GCMS 625

Client Sample ID: UST45-MW09
Client Project ID: NV007
Lab Sample ID: G650-38-11G
Lab Project ID: G650-38

Analyzed By: MRC
Date Collected: 4/6/2006 14:45
Date Received: 4/7/2006
Date Extracted: 4/10/2006
Matrix: Water

Compound	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
Nitrobenzene	BQL	10.0	1	4/15/2006
2-Nitrophenol	BQL	10.0	1	4/15/2006
4-Nitrophenol	BQL	50.0	1	4/15/2006
N-Nitrosodi-n-propylamine	BQL	10.0	1	4/15/2006
Pentachlorophenol	BQL	50.0	1	4/15/2006
Phenanthrene	BQL	10.0	1	4/15/2006
Phenol	BQL	10.0	1	4/15/2006
Pyrene	BQL	10.0	1	4/15/2006
1,2,4-Trichlorobenzene	BQL	10.0	1	4/15/2006
2,4,6-Trichlorophenol	BQL	10.0	1	4/15/2006

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	10.3	103
2-Fluorophenol	10	10.7	107
Nitrobenzene-d5	10	10.6	106
Phenol-d6	10	10.2	102
2,4,6-Tribromophenol	10	9.7	97
4-Terphenyl-d14	10	10.7	107

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

Flags:
BQL = Below Quantitation Limits.

Reviewed By: 

SGS

Results of Library Search for Semivolatile Compounds

by GCMS

Client Sample ID: UST45-MW09
Client Project ID: NV007
Lab Sample ID: G650-38-11G
Lab Project ID: G650-38
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: MRC
Date Collected: 4/6/2006 14:45
Date Received: 4/7/2006
Date Extracted: 4/10/2006
Date Analyzed: 4/15/2006
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Unknown	12.32			20.1
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: _____

SGS

Results for Semivolatiles by GCMS 625

Client Sample ID: UST45-MW13
Client Project ID: NV007
Lab Sample ID: G650-38-12G
Lab Project ID: G650-38

Analyzed By: MRC
Date Collected: 4/6/2006 14:15
Date Received: 4/7/2006
Date Extracted: 4/10/2006
Matrix: Water

Compound	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
Acenaphthene	BQL	10.0	1	4/15/2006
Acenaphthylene	BQL	10.0	1	4/15/2006
Anthracene	BQL	10.0	1	4/15/2006
Benzo[a]anthracene	BQL	10.0	1	4/15/2006
Benzo[a]pyrene	BQL	10.0	1	4/15/2006
Benzo[b]fluoranthene	BQL	10.0	1	4/15/2006
Benzo[g,h,i]perylene	BQL	10.0	1	4/15/2006
Benzo[k]fluoranthene	BQL	10.0	1	4/15/2006
Bis(2-chloroethoxy)methane	BQL	10.0	1	4/15/2006
Bis(2-chloroethyl)ether	BQL	10.0	1	4/15/2006
Bis(2-chloroisopropyl)ether	BQL	10.0	1	4/15/2006
Bis(2-ethylhexyl)phthalate	BQL	10.0	1	4/15/2006
4-bromophenyl phenyl ether	BQL	10.0	1	4/15/2006
Butylbenzylphthalate	BQL	10.0	1	4/15/2006
2-Chloronaphthalene	BQL	10.0	1	4/15/2006
2-Chlorophenol	BQL	10.0	1	4/15/2006
4-Chloro-3-methylphenol	BQL	10.0	1	4/15/2006
4-Chlorophenyl phenyl ether	BQL	10.0	1	4/15/2006
Chrysene	BQL	10.0	1	4/15/2006
Dibenzo[a,h]anthracene	BQL	10.0	1	4/15/2006
Di-n-Butylphthalate	BQL	10.0	1	4/15/2006
1,2-Dichlorobenzene	BQL	10.0	1	4/15/2006
1,3-Dichlorobenzene	BQL	10.0	1	4/15/2006
1,4-Dichlorobenzene	BQL	10.0	1	4/15/2006
3,3'-Dichlorobenzidine	BQL	20.0	1	4/15/2006
2,4-Dichlorophenol	BQL	10.0	1	4/15/2006
Diethylphthalate	BQL	10.0	1	4/15/2006
Dimethylphthalate	BQL	10.0	1	4/15/2006
2,4-Dimethylphenol	BQL	10.0	1	4/15/2006
Di-n-octylphthalate	BQL	10.0	1	4/15/2006
4,6-Dinitro-2-methylphenol	BQL	50.0	1	4/15/2006
2,4-Dinitrophenol	BQL	50.0	1	4/15/2006
2,4-Dinitrotoluene	BQL	10.0	1	4/15/2006
2,6-Dinitrotoluene	BQL	10.0	1	4/15/2006
Diphenylamine *	BQL	10.0	1	4/15/2006
Fluoranthene	BQL	10.0	1	4/15/2006
Fluorene	BQL	10.0	1	4/15/2006
Hexachlorobenzene	BQL	10.0	1	4/15/2006
Hexachlorobutadiene	BQL	10.0	1	4/15/2006
Hexachlorocyclopentadiene	BQL	20.0	1	4/15/2006
Hexachloroethane	BQL	10.0	1	4/15/2006
Indeno(1,2,3-c,d)pyrene	BQL	10.0	1	4/15/2006
Isophorone	BQL	10.0	1	4/15/2006
Naphthalene	BQL	10.0	1	4/15/2006

SGS

Results for Semivolatiles
by GCMS 625

Client Sample ID: UST45-MW13
Client Project ID: NV007
Lab Sample ID: G650-38-12G
Lab Project ID: G650-38

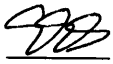
Analyzed By: MRC
Date Collected: 4/6/2006 14:15
Date Received: 4/7/2006
Date Extracted: 4/10/2006
Matrix: Water

Compound	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
Nitrobenzene	BQL	10.0	1	4/15/2006
2-Nitrophenol	BQL	10.0	1	4/15/2006
4-Nitrophenol	BQL	50.0	1	4/15/2006
N-Nitrosodi-n-propylamine	BQL	10.0	1	4/15/2006
Pentachlorophenol	BQL	50.0	1	4/15/2006
Phenanthrene	BQL	10.0	1	4/15/2006
Phenol	BQL	10.0	1	4/15/2006
Pyrene	BQL	10.0	1	4/15/2006
1,2,4-Trichlorobenzene	BQL	10.0	1	4/15/2006
2,4,6-Trichlorophenol	BQL	10.0	1	4/15/2006

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	10.1	101
2-Fluorophenol	10	10.4	104
Nitrobenzene-d5	10	10.2	102
Phenol-d6	10	9.7	97
2,4,6-Tribromophenol	10	9.3	93
4-Terphenyl-d14	10	9.6	96

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

Flags:
BQL = Below Quantitation Limits.

Reviewed By: 

SGS

Results of Library Search for Semivolatile Compounds

by GCMS

Client Sample ID: UST45-MW13
Client Project ID: NV007
Lab Sample ID: G650-38-12G
Lab Project ID: G650-38
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: MRC
Date Collected: 4/6/2006 14:15
Date Received: 4/7/2006
Date Extracted: 4/10/2006
Date Analyzed: 4/15/2006
Matrix: Water

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

Comment:

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

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

Reviewed by: _____

SGS

Results for Semivolatiles
by GCMS 625

Client Sample ID: UST45-MW07
Client Project ID: NV007
Lab Sample ID: G650-38-13G
Lab Project ID: G650-38

Analyzed By: MRC
Date Collected: 4/6/2006 15:30
Date Received: 4/7/2006
Date Extracted: 4/10/2006
Matrix: Water

Compound	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
Acenaphthene	BQL	10.0	1	4/15/2006
Acenaphthylene	BQL	10.0	1	4/15/2006
Anthracene	BQL	10.0	1	4/15/2006
Benzo[a]anthracene	BQL	10.0	1	4/15/2006
Benzo[a]pyrene	BQL	10.0	1	4/15/2006
Benzo[b]fluoranthene	BQL	10.0	1	4/15/2006
Benzo[g,h,i]perylene	BQL	10.0	1	4/15/2006
Benzo[k]fluoranthene	BQL	10.0	1	4/15/2006
Bis(2-chloroethoxy)methane	BQL	10.0	1	4/15/2006
Bis(2-chloroethyl)ether	BQL	10.0	1	4/15/2006
Bis(2-chloroisopropyl)ether	BQL	10.0	1	4/15/2006
Bis(2-ethylhexyl)phthalate	BQL	10.0	1	4/15/2006
4-bromophenyl phenyl ether	BQL	10.0	1	4/15/2006
Butylbenzylphthalate	BQL	10.0	1	4/15/2006
2-Chloronaphthalene	BQL	10.0	1	4/15/2006
2-Chlorophenol	BQL	10.0	1	4/15/2006
4-Chloro-3-methylphenol	BQL	10.0	1	4/15/2006
4-Chlorophenyl phenyl ether	BQL	10.0	1	4/15/2006
Chrysene	BQL	10.0	1	4/15/2006
Dibenzo[a,h]anthracene	BQL	10.0	1	4/15/2006
Di-n-Butylphthalate	BQL	10.0	1	4/15/2006
1,2-Dichlorobenzene	BQL	10.0	1	4/15/2006
1,3-Dichlorobenzene	BQL	10.0	1	4/15/2006
1,4-Dichlorobenzene	BQL	10.0	1	4/15/2006
3,3'-Dichlorobenzidine	BQL	20.0	1	4/15/2006
2,4-Dichlorophenol	BQL	10.0	1	4/15/2006
Diethylphthalate	BQL	10.0	1	4/15/2006
Dimethylphthalate	BQL	10.0	1	4/15/2006
2,4-Dimethylphenol	BQL	10.0	1	4/15/2006
Di-n-octylphthalate	BQL	10.0	1	4/15/2006
4,6-Dinitro-2-methylphenol	BQL	50.0	1	4/15/2006
2,4-Dinitrophenol	BQL	50.0	1	4/15/2006
2,4-Dinitrotoluene	BQL	10.0	1	4/15/2006
2,6-Dinitrotoluene	BQL	10.0	1	4/15/2006
Diphenylamine *	BQL	10.0	1	4/15/2006
Fluoranthene	BQL	10.0	1	4/15/2006
Fluorene	BQL	10.0	1	4/15/2006
Hexachlorobenzene	BQL	10.0	1	4/15/2006
Hexachlorobutadiene	BQL	10.0	1	4/15/2006
Hexachlorocyclopentadiene	BQL	20.0	1	4/15/2006
Hexachloroethane	BQL	10.0	1	4/15/2006
Indeno(1,2,3-c,d)pyrene	BQL	10.0	1	4/15/2006
Isophorone	BQL	10.0	1	4/15/2006
Naphthalene	BQL	10.0	1	4/15/2006

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Results for Semivolatiles
by GCMS 625

Client Sample ID: UST45-MW07
Client Project ID: NV007
Lab Sample ID: G650-38-13G
Lab Project ID: G650-38

Analyzed By: MRC
Date Collected: 4/6/2006 15:30
Date Received: 4/7/2006
Date Extracted: 4/10/2006
Matrix: Water

Compound	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
Nitrobenzene	BQL	10.0	1	4/15/2006
2-Nitrophenol	BQL	10.0	1	4/15/2006
4-Nitrophenol	BQL	50.0	1	4/15/2006
N-Nitrosodi-n-propylamine	BQL	10.0	1	4/15/2006
Pentachlorophenol	BQL	50.0	1	4/15/2006
Phenanthrene	BQL	10.0	1	4/15/2006
Phenol	BQL	10.0	1	4/15/2006
Pyrene	BQL	10.0	1	4/15/2006
1,2,4-Trichlorobenzene	BQL	10.0	1	4/15/2006
2,4,6-Trichlorophenol	BQL	10.0	1	4/15/2006

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	10.1	101
2-Fluorophenol	10	10.3	103
Nitrobenzene-d5	10	10.3	103
Phenol-d6	10	9.8	98
2,4,6-Tribromophenol	10	9.3	93
4-Terphenyl-d14	10	9.8	98

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

Flags:
BQL = Below Quantitation Limits.

Reviewed By: 

SGS

Results of Library Search for Semivolatile Compounds

by GCMS

Client Sample ID: UST45-MW07
Client Project ID: NV007
Lab Sample ID: G650-38-13G
Lab Project ID: G650-38
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: MRC
Date Collected: 4/6/2006 15:30
Date Received: 4/7/2006
Date Extracted: 4/10/2006
Date Analyzed: 4/15/2006
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Unknown	12.32			21
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:

SGS

Results for Semivolatiles
by GCMS 625

Client Sample ID: UST45-PW01R
Client Project ID: NV007
Lab Sample ID: G650-38-14G
Lab Project ID: G650-38

Analyzed By: MRC
Date Collected: 4/6/2006 16:21
Date Received: 4/7/2006
Date Extracted: 4/10/2006
Matrix: Water

Compound	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
Acenaphthene	BQL	10.0	1	4/15/2006
Acenaphthylene	BQL	10.0	1	4/15/2006
Anthracene	BQL	10.0	1	4/15/2006
Benzo[a]anthracene	BQL	10.0	1	4/15/2006
Benzo[a]pyrene	BQL	10.0	1	4/15/2006
Benzo[b]fluoranthene	BQL	10.0	1	4/15/2006
Benzo[g,h,i]perylene	BQL	10.0	1	4/15/2006
Benzo[k]fluoranthene	BQL	10.0	1	4/15/2006
Bis(2-chloroethoxy)methane	BQL	10.0	1	4/15/2006
Bis(2-chloroethyl)ether	BQL	10.0	1	4/15/2006
Bis(2-chloroisopropyl)ether	BQL	10.0	1	4/15/2006
Bis(2-ethylhexyl)phthalate	BQL	10.0	1	4/15/2006
4-bromophenyl phenyl ether	BQL	10.0	1	4/15/2006
Butylbenzylphthalate	BQL	10.0	1	4/15/2006
2-Chloronaphthalene	BQL	10.0	1	4/15/2006
2-Chlorophenol	BQL	10.0	1	4/15/2006
4-Chloro-3-methylphenol	BQL	10.0	1	4/15/2006
4-Chlorophenyl phenyl ether	BQL	10.0	1	4/15/2006
Chrysene	BQL	10.0	1	4/15/2006
Dibenzo[a,h]anthracene	BQL	10.0	1	4/15/2006
Di-n-Butylphthalate	BQL	10.0	1	4/15/2006
1,2-Dichlorobenzene	BQL	10.0	1	4/15/2006
1,3-Dichlorobenzene	BQL	10.0	1	4/15/2006
1,4-Dichlorobenzene	BQL	10.0	1	4/15/2006
3,3'-Dichlorobenzidine	BQL	20.0	1	4/15/2006
2,4-Dichlorophenol	BQL	10.0	1	4/15/2006
Diethylphthalate	BQL	10.0	1	4/15/2006
Dimethylphthalate	BQL	10.0	1	4/15/2006
2,4-Dimethylphenol	BQL	10.0	1	4/15/2006
Di-n-octylphthalate	BQL	10.0	1	4/15/2006
4,6-Dinitro-2-methylphenol	BQL	50.0	1	4/15/2006
2,4-Dinitrophenol	BQL	50.0	1	4/15/2006
2,4-Dinitrotoluene	BQL	10.0	1	4/15/2006
2,6-Dinitrotoluene	BQL	10.0	1	4/15/2006
Diphenylamine *	BQL	10.0	1	4/15/2006
Fluoranthene	BQL	10.0	1	4/15/2006
Fluorene	BQL	10.0	1	4/15/2006
Hexachlorobenzene	BQL	10.0	1	4/15/2006
Hexachlorobutadiene	BQL	10.0	1	4/15/2006
Hexachlorocyclopentadiene	BQL	20.0	1	4/15/2006
Hexachloroethane	BQL	10.0	1	4/15/2006
Indeno(1,2,3-c,d)pyrene	BQL	10.0	1	4/15/2006
Isophorone	BQL	10.0	1	4/15/2006
Naphthalene	BQL	10.0	1	4/15/2006

SGS

Results for Semivolatiles
by GCMS 625

Client Sample ID: UST45-PW01R
Client Project ID: NV007
Lab Sample ID: G650-38-14G
Lab Project ID: G650-38

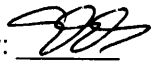
Analyzed By: MRC
Date Collected: 4/6/2006 16:21
Date Received: 4/7/2006
Date Extracted: 4/10/2006
Matrix: Water

Compound	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
Nitrobenzene	BQL	10.0	1	4/15/2006
2-Nitrophenol	BQL	10.0	1	4/15/2006
4-Nitrophenol	BQL	50.0	1	4/15/2006
N-Nitrosodi-n-propylamine	BQL	10.0	1	4/15/2006
Pentachlorophenol	BQL	50.0	1	4/15/2006
Phenanthrene	BQL	10.0	1	4/15/2006
Phenol	BQL	10.0	1	4/15/2006
Pyrene	BQL	10.0	1	4/15/2006
1,2,4-Trichlorobenzene	BQL	10.0	1	4/15/2006
2,4,6-Trichlorophenol	BQL	10.0	1	4/15/2006

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	9.4	94
2-Fluorophenol	10	9.5	95
Nitrobenzene-d5	10	9.6	96
Phenol-d6	10	8.9	89
2,4,6-Tribromophenol	10	8.6	86
4-Terphenyl-d14	10	9.2	92

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

Flags:
BQL = Below Quantitation Limits.

Reviewed By: 

SGS

Results of Library Search for Semivolatile Compounds

by GCMS

Client Sample ID: UST45-PW01R
Client Project ID: NV007
Lab Sample ID: G650-38-14G
Lab Project ID: G650-38
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: MRC
Date Collected: 4/6/2006 16:21
Date Received: 4/7/2006
Date Extracted: 4/10/2006
Date Analyzed: 4/15/2006
Matrix: Water

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

Comment:

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

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

Reviewed by: _____

SGS

Results for Semivolatiles
by GCMS 625

Client Sample ID: UST45-MW05
Client Project ID: NV007
Lab Sample ID: G650-38-15G
Lab Project ID: G650-38

Analyzed By: MRC
Date Collected: 4/6/2006 16:30
Date Received: 4/7/2006
Date Extracted: 4/10/2006
Matrix: Water

Compound	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
Acenaphthene	BQL	10.0	1	4/15/2006
Acenaphthylene	BQL	10.0	1	4/15/2006
Anthracene	BQL	10.0	1	4/15/2006
Benzo[a]anthracene	BQL	10.0	1	4/15/2006
Benzo[a]pyrene	BQL	10.0	1	4/15/2006
Benzo[b]fluoranthene	BQL	10.0	1	4/15/2006
Benzo[g,h,i]perylene	BQL	10.0	1	4/15/2006
Benzo[k]fluoranthene	BQL	10.0	1	4/15/2006
Bis(2-chloroethoxy)methane	BQL	10.0	1	4/15/2006
Bis(2-chloroethyl)ether	BQL	10.0	1	4/15/2006
Bis(2-chloroisopropyl)ether	BQL	10.0	1	4/15/2006
Bis(2-ethylhexyl)phthalate	BQL	10.0	1	4/15/2006
4-bromophenyl phenyl ether	BQL	10.0	1	4/15/2006
Butylbenzylphthalate	BQL	10.0	1	4/15/2006
2-Chloronaphthalene	BQL	10.0	1	4/15/2006
2-Chlorophenol	BQL	10.0	1	4/15/2006
4-Chloro-3-methylphenol	BQL	10.0	1	4/15/2006
4-Chlorophenyl phenyl ether	BQL	10.0	1	4/15/2006
Chrysene	BQL	10.0	1	4/15/2006
Dibenzo[a,h]anthracene	BQL	10.0	1	4/15/2006
Di-n-Butylphthalate	BQL	10.0	1	4/15/2006
1,2-Dichlorobenzene	BQL	10.0	1	4/15/2006
1,3-Dichlorobenzene	BQL	10.0	1	4/15/2006
1,4-Dichlorobenzene	BQL	10.0	1	4/15/2006
3,3'-Dichlorobenzidine	BQL	20.0	1	4/15/2006
2,4-Dichlorophenol	BQL	10.0	1	4/15/2006
Diethylphthalate	BQL	10.0	1	4/15/2006
Dimethylphthalate	BQL	10.0	1	4/15/2006
2,4-Dimethylphenol	BQL	10.0	1	4/15/2006
Di-n-octylphthalate	BQL	10.0	1	4/15/2006
4,6-Dinitro-2-methylphenol	BQL	50.0	1	4/15/2006
2,4-Dinitrophenol	BQL	50.0	1	4/15/2006
2,4-Dinitrotoluene	BQL	10.0	1	4/15/2006
2,6-Dinitrotoluene	BQL	10.0	1	4/15/2006
Diphenylamine *	BQL	10.0	1	4/15/2006
Fluoranthene	BQL	10.0	1	4/15/2006
Fluorene	BQL	10.0	1	4/15/2006
Hexachlorobenzene	BQL	10.0	1	4/15/2006
Hexachlorobutadiene	BQL	10.0	1	4/15/2006
Hexachlorocyclopentadiene	BQL	20.0	1	4/15/2006
Hexachloroethane	BQL	10.0	1	4/15/2006
Indeno(1,2,3-c,d)pyrene	BQL	10.0	1	4/15/2006
Isophorone	BQL	10.0	1	4/15/2006
Naphthalene	BQL	10.0	1	4/15/2006

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Results for Semivolatiles
by GCMS 625

Client Sample ID: UST45-MW05
Client Project ID: NV007
Lab Sample ID: G650-38-15G
Lab Project ID: G650-38

Analyzed By: MRC
Date Collected: 4/6/2006 16:30
Date Received: 4/7/2006
Date Extracted: 4/10/2006
Matrix: Water

Compound	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
Nitrobenzene	BQL	10.0	1	4/15/2006
2-Nitrophenol	BQL	10.0	1	4/15/2006
4-Nitrophenol	BQL	50.0	1	4/15/2006
N-Nitrosodi-n-propylamine	BQL	10.0	1	4/15/2006
Pentachlorophenol	BQL	50.0	1	4/15/2006
Phenanthrene	BQL	10.0	1	4/15/2006
Phenol	BQL	10.0	1	4/15/2006
Pyrene	BQL	10.0	1	4/15/2006
1,2,4-Trichlorobenzene	BQL	10.0	1	4/15/2006
2,4,6-Trichlorophenol	BQL	10.0	1	4/15/2006

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	9.9	99
2-Fluorophenol	10	10	100
Nitrobenzene-d5	10	10	99
Phenol-d6	10	9.6	96
2,4,6-Tribromophenol	10	9.1	91
4-Terphenyl-d14	10	10.8	108

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

Flags:
BQL = Below Quantitation Limits.

Reviewed By:

SGS

Results of Library Search for Semivolatile Compounds

by GCMS

Client Sample ID: UST45-MW05
Client Project ID: NV007
Lab Sample ID: G650-38-15G
Lab Project ID: G650-38
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: MRC
Date Collected: 4/6/2006 16:30
Date Received: 4/7/2006
Date Extracted: 4/10/2006
Date Analyzed: 4/15/2006
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Unknown	20.61			4.94
2	Unknown	20.81			4.94
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: _____

SGS

Results for Semivolatiles
by GCMS 625

Client Sample ID: UST45-MW03R
Client Project ID: NV007
Lab Sample ID: G650-38-16G
Lab Project ID: G650-38

Analyzed By: MRC
Date Collected: 4/6/2006 13:47
Date Received: 4/7/2006
Date Extracted: 4/10/2006
Matrix: Water

Compound	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
Acenaphthene	BQL	10.0	1	4/15/2006
Acenaphthylene	BQL	10.0	1	4/15/2006
Anthracene	BQL	10.0	1	4/15/2006
Benzo[a]anthracene	BQL	10.0	1	4/15/2006
Benzo[a]pyrene	BQL	10.0	1	4/15/2006
Benzo[b]fluoranthene	BQL	10.0	1	4/15/2006
Benzo[g,h,i]perylene	BQL	10.0	1	4/15/2006
Benzo[k]fluoranthene	BQL	10.0	1	4/15/2006
Bis(2-chloroethoxy)methane	BQL	10.0	1	4/15/2006
Bis(2-chloroethyl)ether	BQL	10.0	1	4/15/2006
Bis(2-chloroisopropyl)ether	BQL	10.0	1	4/15/2006
Bis(2-ethylhexyl)phthalate	BQL	10.0	1	4/15/2006
4-bromophenyl phenyl ether	BQL	10.0	1	4/15/2006
Butylbenzylphthalate	BQL	10.0	1	4/15/2006
2-Chloronaphthalene	BQL	10.0	1	4/15/2006
2-Chlorophenol	BQL	10.0	1	4/15/2006
4-Chloro-3-methylphenol	BQL	10.0	1	4/15/2006
4-Chlorophenyl phenyl ether	BQL	10.0	1	4/15/2006
Chrysene	BQL	10.0	1	4/15/2006
Dibenzo[a,h]anthracene	BQL	10.0	1	4/15/2006
Di-n-Butylphthalate	BQL	10.0	1	4/15/2006
1,2-Dichlorobenzene	BQL	10.0	1	4/15/2006
1,3-Dichlorobenzene	BQL	10.0	1	4/15/2006
1,4-Dichlorobenzene	BQL	10.0	1	4/15/2006
3,3'-Dichlorobenzidine	BQL	20.0	1	4/15/2006
2,4-Dichlorophenol	BQL	10.0	1	4/15/2006
Diethylphthalate	BQL	10.0	1	4/15/2006
Dimethylphthalate	BQL	10.0	1	4/15/2006
2,4-Dimethylphenol	BQL	10.0	1	4/15/2006
Di-n-octylphthalate	BQL	10.0	1	4/15/2006
4,6-Dinitro-2-methylphenol	BQL	50.0	1	4/15/2006
2,4-Dinitrophenol	BQL	50.0	1	4/15/2006
2,4-Dinitrotoluene	BQL	10.0	1	4/15/2006
2,6-Dinitrotoluene	BQL	10.0	1	4/15/2006
Diphenylamine *	BQL	10.0	1	4/15/2006
Fluoranthene	BQL	10.0	1	4/15/2006
Fluorene	BQL	10.0	1	4/15/2006
Hexachlorobenzene	BQL	10.0	1	4/15/2006
Hexachlorobutadiene	BQL	10.0	1	4/15/2006
Hexachlorocyclopentadiene	BQL	20.0	1	4/15/2006
Hexachloroethane	BQL	10.0	1	4/15/2006
Indeno(1,2,3-c,d)pyrene	BQL	10.0	1	4/15/2006
Isophorone	BQL	10.0	1	4/15/2006
Naphthalene	BQL	10.0	1	4/15/2006

8270_LIMS_V1.96

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Results for Semivolatiles by GCMS 625

Client Sample ID: UST45-MW03R
Client Project ID: NV007
Lab Sample ID: G650-38-16G
Lab Project ID: G650-38

Analyzed By: MRC
Date Collected: 4/6/2006 13:47
Date Received: 4/7/2006
Date Extracted: 4/10/2006
Matrix: Water

Compound	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
Nitrobenzene	BQL	10.0	1	4/15/2006
2-Nitrophenol	BQL	10.0	1	4/15/2006
4-Nitrophenol	BQL	50.0	1	4/15/2006
N-Nitrosodi-n-propylamine	BQL	10.0	1	4/15/2006
Pentachlorophenol	BQL	50.0	1	4/15/2006
Phenanthrene	BQL	10.0	1	4/15/2006
Phenol	BQL	10.0	1	4/15/2006
Pyrene	BQL	10.0	1	4/15/2006
1,2,4-Trichlorobenzene	BQL	10.0	1	4/15/2006
2,4,6-Trichlorophenol	BQL	10.0	1	4/15/2006

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	10.4	104
2-Fluorophenol	10	10.6	106
Nitrobenzene-d5	10	10.6	106
Phenol-d6	10	10.1	101
2,4,6-Tribromophenol	10	9.6	96
4-Terphenyl-d14	10	11.1	111

Comments:

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

Flags:

BQL = Below Quantitation Limits.

Reviewed By:

SGS

Results of Library Search for Semivolatile Compounds

by GCMS

Client Sample ID: UST45-MW03R
Client Project ID: NV007
Lab Sample ID: G650-38-16G
Lab Project ID: G650-38
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: MRC
Date Collected: 4/6/2006 13:47
Date Received: 4/7/2006
Date Extracted: 4/10/2006
Date Analyzed: 4/15/2006
Matrix: Water

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

Comment:

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

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

Reviewed by:

SGS

Results for Metals

Client Sample ID:	UST45-MW21	Analyzed By:	RML
Client Project ID:	NV007	Date Collected:	4/6/2006 08:41
Lab Sample ID:	G650-38-1	Date Received:	4/7/2006
Lab Project ID:	G650-38	Matrix:	WATER
Batch ID:	4874		

Metals	Result	RL	DF	Units	Method	Date Analyzed
Lead	BQL	5.00	25	UG/L	6020	4/18/2006

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
B= Amount in Prep Blank > MDL
Samples Prepared by 3030C

Reviewed By:
MET_LIMS_4.0

SGS

Results for Metals

Client Sample ID:	UST45-MW04/45	Analyzed By:	RML
Client Project ID:	NV007	Date Collected:	4/6/2006 10:01
Lab Sample ID:	G650-38-2	Date Received:	4/7/2006
Lab Project ID:	G650-38	Matrix:	WATER
Batch ID:	4874		

Metals	Result	RL	DF	Units	Method	Date Analyzed
Lead	BQL	5.00	25	UG/L	6020	4/18/2006

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
B= Amount in Prep Blank > MDL
Samples Prepared by 3030C

Reviewed By: _____
MET_LIMS_4.0

SGS

Results for Metals

Client Sample ID:	UST45-MW12	Analyzed By:	RML
Client Project ID:	NV007	Date Collected:	4/6/2006 10:35
Lab Sample ID:	G650-38-3	Date Received:	4/7/2006
Lab Project ID:	G650-38	Matrix:	WATER
Batch ID:	4874		

Metals	Result	RL	DF	Units	Method	Date Analyzed
Lead	BQL	5.00	25	UG/L	6020	4/18/2006

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
B= Amount in Prep Blank > MDL
Samples Prepared by 3030C

Reviewed By: _____
MET_LIMS_4.0

SGS

Results for Metals

Client Sample ID:	UST45-MW04	Analyzed By:	RML
Client Project ID:	NV007	Date Collected:	4/6/2006 11:20
Lab Sample ID:	G650-38-4	Date Received:	4/7/2006
Lab Project ID:	G650-38	Matrix:	WATER
Batch ID:	4874		

Metals	Result	RL	DF	Units	Method	Date Analyzed
Lead	BQL	5.00	25	UG/L	6020	4/18/2006

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
B= Amount in Prep Blank > MDL
Samples Prepared by 3030C

Reviewed By:
MET_LIMS_4.0

SGS

Results for Metals

Client Sample ID:	UST45-MW01/45	Analyzed By:	RML
Client Project ID:	NV007	Date Collected:	4/6/2006 11:43
Lab Sample ID:	G650-38-5	Date Received:	4/7/2006
Lab Project ID:	G650-38	Matrix:	WATER
Batch ID:	4874		

Metals	Result	RL	DF	Units	Method	Date Analyzed
Lead	BQL	5.00	25	UG/L	6020	4/18/2006

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
B= Amount in Prep Blank > MDL
Samples Prepared by 3030C

Reviewed By: _____
MET_LIMS_4.0

SGS

Results for Metals

Client Sample ID:	UST45-MW19	Analyzed By:	RML
Client Project ID:	NV007	Date Collected:	4/6/2006 11:58
Lab Sample ID:	G650-38-6	Date Received:	4/7/2006
Lab Project ID:	G650-38	Matrix:	WATER
Batch ID:	4874		

Metals	Result	RL	DF	Units	Method	Date Analyzed
Lead	BQL	5.00	25	UG/L	6020	4/18/2006

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
B= Amount in Prep Blank > MDL
Samples Prepared by 3030C

Reviewed By:
MET_LIMS_4.0

SGS

Results for Metals

Client Sample ID:	UST45-MW20	Analyzed By:	RML
Client Project ID:	NV007	Date Collected:	4/6/2006 12:40
Lab Sample ID:	G650-38-7	Date Received:	4/7/2006
Lab Project ID:	G650-38	Matrix:	WATER
Batch ID:	4874		

Metals	Result	RL	DF	Units	Method	Date Analyzed
Lead	BQL	5.00	25	UG/L	6020	4/18/2006

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
B= Amount in Prep Blank > MDL
Samples Prepared by 3030C

Reviewed By: _____
MET_LIMS_4.0

SGS

Results for Metals

Client Sample ID:	UST45-MW14	Analyzed By:	RML
Client Project ID:	NV007	Date Collected:	4/6/2006 13:10
Lab Sample ID:	G650-38-8	Date Received:	4/7/2006
Lab Project ID:	G650-38	Matrix:	WATER
Batch ID:	4874		

Metals	Result	RL	DF	Units	Method	Date Analyzed
Lead	BQL	5.00	25	UG/L	6020	4/18/2006

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
B= Amount in Prep Blank > MDL
Samples Prepared by 3030C

Reviewed By:
MET_LIMS_4.0

SGS

Results for Metals

Client Sample ID:	UST45-MW18	Analyzed By:	RML
Client Project ID:	NV007	Date Collected:	4/6/2006 13:11
Lab Sample ID:	G650-38-9	Date Received:	4/7/2006
Lab Project ID:	G650-38	Matrix:	WATER
Batch ID:	4874		

Metals	Result	RL	DF	Units	Method	Date Analyzed
Lead	BQL	5.00	25	UG/L	6020	4/18/2006

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
B= Amount in Prep Blank > MDL
Samples Prepared by 3030C

Reviewed By:
MET_LIMS_4.0

SGS

Results for Metals

Client Sample ID:	UST45-MW15	Analyzed By:	RML
Client Project ID:	NV007	Date Collected:	4/6/2006 13:48
Lab Sample ID:	G650-38-10	Date Received:	4/7/2006
Lab Project ID:	G650-38	Matrix:	WATER
Batch ID:	4874		

Metals	Result	RL	DF	Units	Method	Date Analyzed
Lead	BQL	5.00	25	UG/L	6020	4/18/2006

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
B= Amount in Prep Blank > MDL
Samples Prepared by 3030C

Reviewed By: _____
MET_LIMS_4.0

SGS

Results for Metals

Client Sample ID:	UST45-MW09	Analyzed By:	RML
Client Project ID:	NV007	Date Collected:	4/6/2006 14:45
Lab Sample ID:	G650-38-11	Date Received:	4/7/2006
Lab Project ID:	G650-38	Matrix:	WATER
Batch ID:	4874		

Metals	Result	RL	DF	Units	Method	Date Analyzed
Lead	BQL	5.00	25	UG/L	6020	4/18/2006

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
B= Amount in Prep Blank > MDL
Samples Prepared by 3030C

Reviewed By: _____
MET_LIMS_4.0

SGS

Results for Metals

Client Sample ID:	UST45-MW13	Analyzed By:	RML
Client Project ID:	NV007	Date Collected:	4/6/2006 14:15
Lab Sample ID:	G650-38-12	Date Received:	4/7/2006
Lab Project ID:	G650-38	Matrix:	WATER
Batch ID:	4874		

Metals	Result	RL	DF	Units	Method	Date Analyzed
Lead	BQL	5.00	25	UG/L	6020	4/18/2006

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
B= Amount in Prep Blank > MDL
Samples Prepared by 3030C

Reviewed By: _____
MET_LIMS_4.0

SGS

Results for Metals

Client Sample ID:	UST45-MW07	Analyzed By:	RML
Client Project ID:	NV007	Date Collected:	4/6/2006 15:30
Lab Sample ID:	G650-38-13	Date Received:	4/7/2006
Lab Project ID:	G650-38	Matrix:	WATER
Batch ID:	4874		

Metals	Result	RL	DF	Units	Method	Date Analyzed
Lead	BQL	5.00	25	UG/L	6020	4/18/2006

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
B= Amount in Prep Blank > MDL
Samples Prepared by 3030C

Reviewed By: _____
MET_LIMS_4.0

SGS

Results for Metals

Client Sample ID:	UST45-PW01R	Analyzed By:	RML
Client Project ID:	NV007	Date Collected:	4/6/2006 16:21
Lab Sample ID:	G650-38-14	Date Received:	4/7/2006
Lab Project ID:	G650-38	Matrix:	WATER
Batch ID:	4874		

Metals	Result	RL	DF	Units	Method	Date Analyzed
Lead	BQL	5.00	25	UG/L	6020	4/18/2006

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
B= Amount in Prep Blank > MDL
Samples Prepared by 3030C

Reviewed By: _____
MET_LIMS_4.0

SGS

Results for Metals

Client Sample ID:	UST45-MW05	Analyzed By:	RML
Client Project ID:	NV007	Date Collected:	4/6/2006 16:30
Lab Sample ID:	G650-38-15	Date Received:	4/7/2006
Lab Project ID:	G650-38	Matrix:	WATER
Batch ID:	4874		

Metals	Result	RL	DF	Units	Method	Date Analyzed
Lead	BQL	5.00	25	UG/L	6020	4/18/2006

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
B= Amount in Prep Blank > MDL
Samples Prepared by 3030C

Reviewed By:
MET_LIMS_4.0

SGS

Results for Metals

Client Sample ID:	UST45-MW03R	Analyzed By:	RML
Client Project ID:	NV007	Date Collected:	4/6/2006 13:47
Lab Sample ID:	G650-38-16	Date Received:	4/7/2006
Lab Project ID:	G650-38	Matrix:	WATER
Batch ID:	4874		

Metals	Result	RL	DF	Units	Method	Date Analyzed
Lead	BQL	5.00	25	UG/L	6020	4/18/2006

Comments
BQL = Below Quantitation Limits
DF = Dilution Factor
J = Between MDL and RL
B= Amount in Prep Blank > MDL
Samples Prepared by 3030C

Reviewed By:
MET_LIMS_4.0

SGS

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

% soilds = 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.

MI34.030606.3

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SGS ENVIRONMENTAL SERVICES, INC.

N.C. CERTIFICATION #481

(1)

CLIENT: Sovereign Consulting

CONTACT: Chris Murray PHONE NO: (757) 777-8982

PROJECT: NV007 SITE/PWSID#: Bldg 45

REPORTS TO: Chris Murray FAX NO.: (757) 594-9227

INVOICE TO: Chris Murray QUOTE #
6006 Thimble Shoals Blvd STE A-1
Newport News, VA 23606 P.O. NUMBER

SGS Reference: G650-38

PAGE 1 OF 2

(2)

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX	No CONTAINERS	SAMPLE TYPE C=COMP G=GRAB	Preservatives Used	HCl	NONE	HNO3							REMARKS
							Analysis Required (3)	602	625 + TICs	3030C Pb							
1	UST45-MW21	4/6/06	0841	W	5			X	X	X							
2	UST45-MW24/45		1001														
3	UST45-MW12		1035														
4	UST45-MW04		1120														
5	UST45-MW01/45		1143														
6	UST45-MW19		1158														
7	UST45-MW20		1240														
8	UST45-MW14		1310														
9	UST45-MW18		1311														
10	UST45-MW15	4/6/06	1348	W	5			X	X	X							

(5)

Collected/Relinquished By:(1)	Date	Time	Received By:
	4/7/06	0850	
Relinquished By: (2)	Date	Time	Received By:
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	Date	Time	Received By:

(4)

Shipping Carrier:

Shipping Ticket No:

Samples Received Cold? (Circle) YES NO 3.5

Temperature °C: anca 3.1 3.1

Special Deliverable Requirements:

Chain of Custody Seal: (Circle)
INTACT BROKEN ABSENT

Requested Turnaround Time and Special Instructions:
Standard Turnaround
Email results in "EDD" format to
cmurray@soucon.com tmhall@soucon.com

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SGS ENVIRONMENTAL SERVICES, INC.

N.C. CERTIFICATION #481

(1)

CLIENT: Sovereign Consulting
CONTACT: Chris Murray PHONE NO:(757) 777-8982
PROJECT: NV007 SITE/PWSID#: Bldg 45
REPORTS TO: Chris Murray FAX NO.:(757) 594-9227
INVOICE TO: Chris Murray, 606 Thimble Shoals Blvd, Newport News, VA 23606 QUOTE #
P.O. NUMBER

SGS Reference: G650-38

PAGE 2 OF 2

(2)

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX	No CONTAINERS	SAMPLE TYPE (C=COMP, G=GRAB)	Preservatives Used: HCl	NONE	HNO_3	Analysis Required (3): 602	625+TICs	3030C Pb	REMARKS
11	UST45-MW09	4/6/06	1445	W	5					x	x	x	
12	UST45-MW13	"	1415	W	"					"	"	"	
13	UST45-MW07		1530	W									NO MASS RECD FOR MW07 4/8/06
14	UST45-PW01R		1621	W									
15	UST45-MW05	4/6/06	1630	W	"					"	"	"	
16	UST45-MW03R	4/6/06	1347	W	5					x	x	x	
17	TRIP BLANKS	4/6/06		W	2					x			

(5)

Collected/Relinquished By:(1)	Date	Time	Received By:
	4/7/06	0850	Julie Johnson
Relinquished By: (2)	Date	Time	Received By:
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	Date	Time	Received By:

(4)

Shipping Carrier:
Shipping Ticket No:
Samples Received Cold? (Circle) YES NO 3.5, 3.7
Temperature ∫C: 3.3°C
Special Deliverable Requirements:
Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT

Requested Turnaround Time and Special Instructions:
Standard Turnaround
Email results in "EDD" format to
cmurray@soucon.com nhall@soucon.com

SGS

Mr. Chris Murray
Sovereign Consulting
606 Thimble Shoals Rd.
Suite A1
Newport-News VA 23606
Report Number: G650-42

Client Project: NV007

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 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.

5/3/2006

Laboratory Director Date
J. Patrick Weaver

SGS

CASE NARRATIVE

Sovereign Consulting Project ID: NV007
SGS-Paradigm Analytical ID: G650-42

Five water samples were received in this project on April 8 for analysis as indicated on the chain of custody. The samples were received in good condition, within temperature and holding time limits.

Additionally, a separate group of samples were received in the same cooler and logged in under SGS Project ID G650-41.

One trip blank accompanied both set of samples. The trip blank reported in this Project ID was logged in under the lab Project ID G650-41, but is included in this Project G650-41 as well.

Please find the data summaries enclosed.

SGS

Results for Volatiles
by GC 602

Client Sample ID: UST45-MW06
Client Project ID: NV007
Lab Sample ID: G650-42-1A
Lab Project ID: G650-42

Analyzed By: MJC
Date Collected: 4/7/2006 9:54
Date Received: 4/8/2006
Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.316	1	4/18/2006	
Diisopropyl ether (DIPE)	BQL	1.00	0.294	1	4/18/2006	
Ethylbenzene	BQL	1.00	0.299	1	4/18/2006	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.588	1	4/18/2006	
Toluene	BQL	1.00	0.302	1	4/18/2006	
m/p-Xylene	BQL	2.00	0.608	1	4/18/2006	
o-Xylene	BQL	2.00	0.596	1	4/18/2006	

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

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

Reviewed By: _____

SGS

Results for Volatiles
by GC 602

Client Sample ID: UST45-MW08
Client Project ID: NV007
Lab Sample ID: G650-42-2A
Lab Project ID: G650-42

Analyzed By: MJC
Date Collected: 4/7/2006 7:40
Date Received: 4/8/2006
Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.316	1	4/18/2006	
Diisopropyl ether (DIPE)	BQL	1.00	0.294	1	4/18/2006	
Ethylbenzene	BQL	1.00	0.299	1	4/18/2006	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.588	1	4/18/2006	
Toluene	BQL	1.00	0.302	1	4/18/2006	
m/p-Xylene	BQL	2.00	0.608	1	4/18/2006	
o-Xylene	BQL	2.00	0.596	1	4/18/2006	

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	41.5	104

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

Reviewed By: _____

SGS

Results for Volatiles
by GC 602

Client Sample ID: UST45-MW17
Client Project ID: NV007
Lab Sample ID: G650-42-3A
Lab Project ID: G650-42

Analyzed By: MJC
Date Collected: 4/7/2006 10:40
Date Received: 4/8/2006
Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.316	1	4/18/2006	
Diisopropyl ether (DIPE)	BQL	1.00	0.294	1	4/18/2006	
Ethylbenzene	BQL	1.00	0.299	1	4/18/2006	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.588	1	4/18/2006	
Toluene	BQL	1.00	0.302	1	4/18/2006	
m/p-Xylene	BQL	2.00	0.608	1	4/18/2006	
o-Xylene	BQL	2.00	0.596	1	4/18/2006	

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	41.5	104

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

Reviewed By: _____
GC_LIMS_v2.0

SGS

Results for Volatiles

by GC 602

Client Sample ID: UST45-MW02R
Client Project ID: NV007
Lab Sample ID: G650-42-4A
Lab Project ID: G650-42

Analyzed By: MJC
Date Collected: 4/7/2006 11:20
Date Received: 4/8/2006
Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.316	1	4/18/2006	
Diisopropyl ether (DIPE)	BQL	1.00	0.294	1	4/18/2006	
Ethylbenzene	BQL	1.00	0.299	1	4/18/2006	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.588	1	4/18/2006	
Toluene	BQL	1.00	0.302	1	4/18/2006	
m/p-Xylene	BQL	2.00	0.608	1	4/18/2006	
o-Xylene	BQL	2.00	0.596	1	4/18/2006	

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	41.3	103

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

Reviewed By: _____
GC_LIMS_v2.0

SGS

Results for Volatiles
by GC 602

Client Sample ID: UST45-Duplicate
Client Project ID: NV007
Lab Sample ID: G650-42-5A
Lab Project ID: G650-42

Analyzed By: MJC
Date Collected: 4/7/2006 0:00
Date Received: 4/8/2006
Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.316	1	4/18/2006	
Diisopropyl ether (DIPE)	BQL	1.00	0.294	1	4/18/2006	
Ethylbenzene	BQL	1.00	0.299	1	4/18/2006	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.588	1	4/18/2006	
Toluene	BQL	1.00	0.302	1	4/18/2006	
m/p-Xylene	BQL	2.00	0.608	1	4/18/2006	
o-Xylene	BQL	2.00	0.596	1	4/18/2006	

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	41.4	103

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

Reviewed By: _____
GC_LIMS_v2.0

SGS

Results for Volatiles
by GC 602

Client Sample ID: Trip Blank
Client Project ID: NV007
Lab Sample ID: G650-41-6A
Lab Project ID: G650-41

Analyzed By: MJC
Date Collected: 4/7/2006 0:00
Date Received: 4/8/2006
Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.316	1	4/13/2006	
Diisopropyl ether (DIPE)	BQL	1.00	0.294	1	4/13/2006	
Ethylbenzene	BQL	1.00	0.299	1	4/13/2006	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.588	1	4/13/2006	
Toluene	BQL	1.00	0.302	1	4/13/2006	
m/p-Xylene	BQL	2.00	0.608	1	4/13/2006	
o-Xylene	BQL	2.00	0.596	1	4/13/2006	

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	40.7	102

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

Reviewed By: _____

SGS

Results for Volatiles

by GC 602

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID: VBLK3041706B
Lab Project ID:

Analyzed By: MJC
Date Collected:
Date Received:
Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.316	1	4/17/2006	
Diisopropyl ether (DIPE)	BQL	1.00	0.294	1	4/17/2006	
Ethylbenzene	BQL	1.00	0.299	1	4/17/2006	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.588	1	4/17/2006	
Toluene	BQL	1.00	0.302	1	4/17/2006	
m/p-Xylene	BQL	2.00	0.608	1	4/17/2006	
o-Xylene	BQL	2.00	0.596	1	4/17/2006	

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	41.4	103

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

Reviewed By: _____

SGS

Control Limits for QC Check / Laboratory Control Spike

Method: 602 **Spike[ppb] :** 10
Instrument : gc3
Filename : 041706\024r0101.txt

				QC Limits			LCS Limits	
	Compound	ppb	Q(%)	Lower	Upper	P_s(%)	Lower	Upper
	Benzene	10.5	104.7	77.0	123.0	105	39	150
	Chlorobenzene	10.4	103.7	80.5	119.5	104	55	135
	1,2-Dichlorobenzene	10.3	103.0	68.0	132.0	103	37	154
	1,3-Dichlorobenzene	10.2	102.0	72.5	127.5	102	50	141
	1,4-Dichlorobenzene	10.3	103.2	69.5	130.5	103	42	143
♦	Diisopropyl ether	10.5	105.0	43.1	156.9	105	30	170
	Ethylbenzene	10.8	108.4	63.0	137.0	108	32	160
♦	MTBE	10.5	104.5	46.8	153.2	105	35	165
	Toluene	10.4	104.3	77.5	127.0	104	46	148
♦	m,p-Xylene	21.1	105.6	11.2	188.8	106	D	239
♦	o-Xylene	10.7	106.8	47.6	152.4	107	36	164

Flags :

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

Reviewed by: _____

SGS

Control Limits for MS-MSD

Method: 602 **Spike[ppb]:** 10
Instrument: gc3
Sample: 041706\040r0101.txt
MS: 041706\041r0101.txt
MSD: 041706\042r0101.txt

		µg/L			P(%)		P Limits	
	Compound	Sam.	MS	MSD	MS	MSD	Lower	Upper
	Benzene	5.1	15.8	15.6	107	104	39	150
	Chlorobenzene	ND	10.4	10.3	104	103	55	135
	1,2-Dichlorobenzene	5.8	15.9	15.8	101	100	37	154
	1,3-Dichlorobenzene	ND	7.2	7.2	70	69	50	141
	1,4-Dichlorobenzene	ND	9.9	9.8	99	98	42	143
♦	Diisopropyl ether	ND	10.8	10.6	107	105	30	170
	Ethylbenzene	10.8	22.5	22.3	117	115	32	160
♦	MTBE	ND	10.6	10.4	106	104	35	165
	Toluene	6.4	17.0	16.9	106	105	46	148
♦	m,p-Xylene	28.6	49.6	49.3	105	103	D	239
♦	o-Xylene	6.4	16.8	16.6	103	101	36	164

Flags:

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

Reviewed by: BM

SGS

Results for Semivolatiles by GCMS 625

Client Sample ID: UST45-MW06
Client Project ID: NV007
Lab Sample ID: G650-42-1F
Lab Project ID: G650-42

Analyzed By: MRC
Date Collected: 4/7/2006 9:54
Date Received: 4/8/2006
Date Extracted: 4/11/2006
Matrix: Water

Compound	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
Acenaphthene	BQL	10.0	1	4/15/2006
Acenaphthylene	BQL	10.0	1	4/15/2006
Anthracene	BQL	10.0	1	4/15/2006
Benzo[a]anthracene	BQL	10.0	1	4/15/2006
Benzo[a]pyrene	BQL	10.0	1	4/15/2006
Benzo[b]fluoranthene	BQL	10.0	1	4/15/2006
Benzo[g,h,i]perylene	BQL	10.0	1	4/15/2006
Benzo[k]fluoranthene	BQL	10.0	1	4/15/2006
Bis(2-chloroethoxy)methane	BQL	10.0	1	4/15/2006
Bis(2-chloroethyl)ether	BQL	10.0	1	4/15/2006
Bis(2-chloroisopropyl)ether	BQL	10.0	1	4/15/2006
Bis(2-ethylhexyl)phthalate	BQL	10.0	1	4/15/2006
4-bromophenyl phenyl ether	BQL	10.0	1	4/15/2006
Butylbenzylphthalate	BQL	10.0	1	4/15/2006
2-Chloronaphthalene	BQL	10.0	1	4/15/2006
2-Chlorophenol	BQL	10.0	1	4/15/2006
4-Chloro-3-methylphenol	BQL	10.0	1	4/15/2006
4-Chlorophenyl phenyl ether	BQL	10.0	1	4/15/2006
Chrysene	BQL	10.0	1	4/15/2006
Dibenzo[a,h]anthracene	BQL	10.0	1	4/15/2006
Di-n-Butylphthalate	BQL	10.0	1	4/15/2006
1,2-Dichlorobenzene	BQL	10.0	1	4/15/2006
1,3-Dichlorobenzene	BQL	10.0	1	4/15/2006
1,4-Dichlorobenzene	BQL	10.0	1	4/15/2006
3,3'-Dichlorobenzidine	BQL	20.0	1	4/15/2006
2,4-Dichlorophenol	BQL	10.0	1	4/15/2006
Diethylphthalate	BQL	10.0	1	4/15/2006
Dimethylphthalate	BQL	10.0	1	4/15/2006
2,4-Dimethylphenol	BQL	10.0	1	4/15/2006
Di-n-octylphthalate	BQL	10.0	1	4/15/2006
4,6-Dinitro-2-methylphenol	BQL	50.0	1	4/15/2006
2,4-Dinitrophenol	BQL	50.0	1	4/15/2006
2,4-Dinitrotoluene	BQL	10.0	1	4/15/2006
2,6-Dinitrotoluene	BQL	10.0	1	4/15/2006
Diphenylamine *	BQL	10.0	1	4/15/2006
Fluoranthene	BQL	10.0	1	4/15/2006
Fluorene	BQL	10.0	1	4/15/2006
Hexachlorobenzene	BQL	10.0	1	4/15/2006
Hexachlorobutadiene	BQL	10.0	1	4/15/2006
Hexachlorocyclopentadiene	BQL	20.0	1	4/15/2006
Hexachloroethane	BQL	10.0	1	4/15/2006
Indeno(1,2,3-c,d)pyrene	BQL	10.0	1	4/15/2006
Isophorone	BQL	10.0	1	4/15/2006
Naphthalene	BQL	10.0	1	4/15/2006

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SGS

Results for Semivolatiles
by GCMS 625

Client Sample ID: UST45-MW06
Client Project ID: NV007
Lab Sample ID: G650-42-1F
Lab Project ID: G650-42

Analyzed By: MRC
Date Collected: 4/7/2006 9:54
Date Received: 4/8/2006
Date Extracted: 4/11/2006
Matrix: Water

Compound	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
Nitrobenzene	BQL	10.0	1	4/15/2006
2-Nitrophenol	BQL	10.0	1	4/15/2006
4-Nitrophenol	BQL	50.0	1	4/15/2006
N-Nitrosodi-n-propylamine	BQL	10.0	1	4/15/2006
Pentachlorophenol	BQL	50.0	1	4/15/2006
Phenanthrene	BQL	10.0	1	4/15/2006
Phenol	BQL	10.0	1	4/15/2006
Pyrene	BQL	10.0	1	4/15/2006
1,2,4-Trichlorobenzene	BQL	10.0	1	4/15/2006
2,4,6-Trichlorophenol	BQL	10.0	1	4/15/2006

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	8.3	83
2-Fluorophenol	10	8.3	83
Nitrobenzene-d5	10	8.5	85
Phenol-d6	10	7.9	79
2,4,6-Tribromophenol	10	7	70
4-Terphenyl-d14	10	10.3	103

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

Flags:
BQL = Below Quantitation Limits.

Reviewed By: _____

SGS

Results of Library Search for Semivolatile Compounds

by GCMS

Client Sample ID: UST45-MW06
Client Project ID: NV007
Lab Sample ID: G650-42-1F
Lab Project ID: G650-42
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: MRC
Date Collected: 4/7/2006 9:54
Date Received: 4/8/2006
Date Extracted: 4/11/2006
Date Analyzed: 4/15/2006
Matrix: Water

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

Comment:

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

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

Reviewed by: _____

SGS

Results for Semivolatiles
by GCMS 625

Client Sample ID: UST45-MW08
Client Project ID: NV007
Lab Sample ID: G650-42-2F
Lab Project ID: G650-42

Analyzed By: MRC
Date Collected: 4/7/2006 7:40
Date Received: 4/8/2006
Date Extracted: 4/11/2006
Matrix: Water

Compound	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
Acenaphthene	BQL	10.0	1	4/15/2006
Acenaphthylene	BQL	10.0	1	4/15/2006
Anthracene	BQL	10.0	1	4/15/2006
Benzo[a]anthracene	BQL	10.0	1	4/15/2006
Benzo[a]pyrene	BQL	10.0	1	4/15/2006
Benzo[b]fluoranthene	BQL	10.0	1	4/15/2006
Benzo[g,h,i]perylene	BQL	10.0	1	4/15/2006
Benzo[k]fluoranthene	BQL	10.0	1	4/15/2006
Bis(2-chloroethoxy)methane	BQL	10.0	1	4/15/2006
Bis(2-chloroethyl)ether	BQL	10.0	1	4/15/2006
Bis(2-chloroisopropyl)ether	BQL	10.0	1	4/15/2006
Bis(2-ethylhexyl)phthalate	BQL	10.0	1	4/15/2006
4-bromophenyl phenyl ether	BQL	10.0	1	4/15/2006
Butylbenzylphthalate	BQL	10.0	1	4/15/2006
2-Chloronaphthalene	BQL	10.0	1	4/15/2006
2-Chlorophenol	BQL	10.0	1	4/15/2006
4-Chloro-3-methylphenol	BQL	10.0	1	4/15/2006
4-Chlorophenyl phenyl ether	BQL	10.0	1	4/15/2006
Chrysene	BQL	10.0	1	4/15/2006
Dibenzo[a,h]anthracene	BQL	10.0	1	4/15/2006
Di-n-Butylphthalate	BQL	10.0	1	4/15/2006
1,2-Dichlorobenzene	BQL	10.0	1	4/15/2006
1,3-Dichlorobenzene	BQL	10.0	1	4/15/2006
1,4-Dichlorobenzene	BQL	10.0	1	4/15/2006
3,3'-Dichlorobenzidine	BQL	20.0	1	4/15/2006
2,4-Dichlorophenol	BQL	10.0	1	4/15/2006
Diethylphthalate	BQL	10.0	1	4/15/2006
Dimethylphthalate	BQL	10.0	1	4/15/2006
2,4-Dimethylphenol	BQL	10.0	1	4/15/2006
Di-n-octylphthalate	BQL	10.0	1	4/15/2006
4,6-Dinitro-2-methylphenol	BQL	50.0	1	4/15/2006
2,4-Dinitrophenol	BQL	50.0	1	4/15/2006
2,4-Dinitrotoluene	BQL	10.0	1	4/15/2006
2,6-Dinitrotoluene	BQL	10.0	1	4/15/2006
Diphenylamine *	BQL	10.0	1	4/15/2006
Fluoranthene	BQL	10.0	1	4/15/2006
Fluorene	BQL	10.0	1	4/15/2006
Hexachlorobenzene	BQL	10.0	1	4/15/2006
Hexachlorobutadiene	BQL	10.0	1	4/15/2006
Hexachlorocyclopentadiene	BQL	20.0	1	4/15/2006
Hexachloroethane	BQL	10.0	1	4/15/2006
Indeno(1,2,3-c,d)pyrene	BQL	10.0	1	4/15/2006
Isophorone	BQL	10.0	1	4/15/2006
Naphthalene	BQL	10.0	1	4/15/2006

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SGS

Results for Semivolatiles by GCMS 625

Client Sample ID: UST45-MW08
Client Project ID: NV007
Lab Sample ID: G650-42-2F
Lab Project ID: G650-42

Analyzed By: MRC
Date Collected: 4/7/2006 7:40
Date Received: 4/8/2006
Date Extracted: 4/11/2006
Matrix: Water

Compound	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
Nitrobenzene	BQL	10.0	1	4/15/2006
2-Nitrophenol	BQL	10.0	1	4/15/2006
4-Nitrophenol	BQL	50.0	1	4/15/2006
N-Nitrosodi-n-propylamine	BQL	10.0	1	4/15/2006
Pentachlorophenol	BQL	50.0	1	4/15/2006
Phenanthrene	BQL	10.0	1	4/15/2006
Phenol	BQL	10.0	1	4/15/2006
Pyrene	BQL	10.0	1	4/15/2006
1,2,4-Trichlorobenzene	BQL	10.0	1	4/15/2006
2,4,6-Trichlorophenol	BQL	10.0	1	4/15/2006

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	9.5	95
2-Fluorophenol	10	9.5	95
Nitrobenzene-d5	10	9.6	96
Phenol-d6	10	8.9	89
2,4,6-Tribromophenol	10	8	80
4-Terphenyl-d14	10	11.1	111

Comments:

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

Flags:

BQL = Below Quantitation Limits.

Reviewed By: _____

SGS

Results of Library Search for Semivolatile Compounds

by GCMS

Client Sample ID: UST45-MW08
Client Project ID: NV007
Lab Sample ID: G650-42-2F
Lab Project ID: G650-42
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: MRC
Date Collected: 4/7/2006 7:40
Date Received: 4/8/2006
Date Extracted: 4/11/2006
Date Analyzed: 4/15/2006
Matrix: Water

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

Comment:

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

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

Reviewed by: RTP

SGS

Results for Semivolatiles
by GCMS 625

Client Sample ID: UST45-MW17
Client Project ID: NV007
Lab Sample ID: G650-42-3F
Lab Project ID: G650-42

Analyzed By: MRC
Date Collected: 4/7/2006 10:40
Date Received: 4/8/2006
Date Extracted: 4/11/2006
Matrix: Water

Compound	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
Acenaphthene	BQL	10.0	1	4/15/2006
Acenaphthylene	BQL	10.0	1	4/15/2006
Anthracene	BQL	10.0	1	4/15/2006
Benzo[a]anthracene	BQL	10.0	1	4/15/2006
Benzo[a]pyrene	BQL	10.0	1	4/15/2006
Benzo[b]fluoranthene	BQL	10.0	1	4/15/2006
Benzo[g,h,i]perylene	BQL	10.0	1	4/15/2006
Benzo[k]fluoranthene	BQL	10.0	1	4/15/2006
Bis(2-chloroethoxy)methane	BQL	10.0	1	4/15/2006
Bis(2-chloroethyl)ether	BQL	10.0	1	4/15/2006
Bis(2-chloroisopropyl)ether	BQL	10.0	1	4/15/2006
Bis(2-ethylhexyl)phthalate	BQL	10.0	1	4/15/2006
4-bromophenyl phenyl ether	BQL	10.0	1	4/15/2006
Butylbenzylphthalate	BQL	10.0	1	4/15/2006
2-Chloronaphthalene	BQL	10.0	1	4/15/2006
2-Chlorophenol	BQL	10.0	1	4/15/2006
4-Chloro-3-methylphenol	BQL	10.0	1	4/15/2006
4-Chlorophenyl phenyl ether	BQL	10.0	1	4/15/2006
Chrysene	BQL	10.0	1	4/15/2006
Dibenzo[a,h]anthracene	BQL	10.0	1	4/15/2006
Di-n-Butylphthalate	BQL	10.0	1	4/15/2006
1,2-Dichlorobenzene	BQL	10.0	1	4/15/2006
1,3-Dichlorobenzene	BQL	10.0	1	4/15/2006
1,4-Dichlorobenzene	BQL	10.0	1	4/15/2006
3,3'-Dichlorobenzidine	BQL	20.0	1	4/15/2006
2,4-Dichlorophenol	BQL	10.0	1	4/15/2006
Diethylphthalate	BQL	10.0	1	4/15/2006
Dimethylphthalate	BQL	10.0	1	4/15/2006
2,4-Dimethylphenol	BQL	10.0	1	4/15/2006
Di-n-octylphthalate	BQL	10.0	1	4/15/2006
4,6-Dinitro-2-methylphenol	BQL	50.0	1	4/15/2006
2,4-Dinitrophenol	BQL	50.0	1	4/15/2006
2,4-Dinitrotoluene	BQL	10.0	1	4/15/2006
2,6-Dinitrotoluene	BQL	10.0	1	4/15/2006
Diphenylamine *	BQL	10.0	1	4/15/2006
Fluoranthene	BQL	10.0	1	4/15/2006
Fluorene	BQL	10.0	1	4/15/2006
Hexachlorobenzene	BQL	10.0	1	4/15/2006
Hexachlorobutadiene	BQL	10.0	1	4/15/2006
Hexachlorocyclopentadiene	BQL	20.0	1	4/15/2006
Hexachloroethane	BQL	10.0	1	4/15/2006
Indeno(1,2,3-c,d)pyrene	BQL	10.0	1	4/15/2006
Isophorone	BQL	10.0	1	4/15/2006
Naphthalene	BQL	10.0	1	4/15/2006

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SGS

Results for Semivolatiles
by GCMS 625

Client Sample ID: UST45-MW17
Client Project ID: NV007
Lab Sample ID: G650-42-3F
Lab Project ID: G650-42

Analyzed By: MRC
Date Collected: 4/7/2006 10:40
Date Received: 4/8/2006
Date Extracted: 4/11/2006
Matrix: Water

Compound	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
Nitrobenzene	BQL	10.0	1	4/15/2006
2-Nitrophenol	BQL	10.0	1	4/15/2006
4-Nitrophenol	BQL	50.0	1	4/15/2006
N-Nitrosodi-n-propylamine	BQL	10.0	1	4/15/2006
Pentachlorophenol	BQL	50.0	1	4/15/2006
Phenanthrene	BQL	10.0	1	4/15/2006
Phenol	BQL	10.0	1	4/15/2006
Pyrene	BQL	10.0	1	4/15/2006
1,2,4-Trichlorobenzene	BQL	10.0	1	4/15/2006
2,4,6-Trichlorophenol	BQL	10.0	1	4/15/2006

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	7.7	77
2-Fluorophenol	10	7.2	72
Nitrobenzene-d5	10	7.6	76
Phenol-d6	10	7	70
2,4,6-Tribromophenol	10	6.8	68
4-Terphenyl-d14	10	9.3	93

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

Flags:
BQL = Below Quantitation Limits.

Reviewed By: _____

SGS

Results of Library Search for Semivolatile Compounds

by GCMS

Client Sample ID: UST45-MW17
Client Project ID: NV007
Lab Sample ID: G650-42-3F
Lab Project ID: G650-42
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: MRC
Date Collected: 4/7/2006 10:40
Date Received: 4/8/2006
Date Extracted: 4/11/2006
Date Analyzed: 4/15/2006
Matrix: Water

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

Comment:

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

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

Reviewed by: _____

SGS

Results for Semivolatiles
by GCMS 625

Client Sample ID: UST45-MW02R
Client Project ID: NV007
Lab Sample ID: G650-42-4F
Lab Project ID: G650-42

Analyzed By: MRC
Date Collected: 4/7/2006 11:20
Date Received: 4/8/2006
Date Extracted: 4/11/2006
Matrix: Water

Compound	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
Acenaphthene	BQL	10.0	1	4/15/2006
Acenaphthylene	BQL	10.0	1	4/15/2006
Anthracene	BQL	10.0	1	4/15/2006
Benzo[a]anthracene	BQL	10.0	1	4/15/2006
Benzo[a]pyrene	BQL	10.0	1	4/15/2006
Benzo[b]fluoranthene	BQL	10.0	1	4/15/2006
Benzo[g,h,i]perylene	BQL	10.0	1	4/15/2006
Benzo[k]fluoranthene	BQL	10.0	1	4/15/2006
Bis(2-chloroethoxy)methane	BQL	10.0	1	4/15/2006
Bis(2-chloroethyl)ether	BQL	10.0	1	4/15/2006
Bis(2-chloroisopropyl)ether	BQL	10.0	1	4/15/2006
Bis(2-ethylhexyl)phthalate	BQL	10.0	1	4/15/2006
4-bromophenyl phenyl ether	BQL	10.0	1	4/15/2006
Butylbenzylphthalate	BQL	10.0	1	4/15/2006
2-Chloronaphthalene	BQL	10.0	1	4/15/2006
2-Chlorophenol	BQL	10.0	1	4/15/2006
4-Chloro-3-methylphenol	BQL	10.0	1	4/15/2006
4-Chlorophenyl phenyl ether	BQL	10.0	1	4/15/2006
Chrysene	BQL	10.0	1	4/15/2006
Dibenzo[a,h]anthracene	BQL	10.0	1	4/15/2006
Di-n-Butylphthalate	BQL	10.0	1	4/15/2006
1,2-Dichlorobenzene	BQL	10.0	1	4/15/2006
1,3-Dichlorobenzene	BQL	10.0	1	4/15/2006
1,4-Dichlorobenzene	BQL	10.0	1	4/15/2006
3,3'-Dichlorobenzidine	BQL	20.0	1	4/15/2006
2,4-Dichlorophenol	BQL	10.0	1	4/15/2006
Diethylphthalate	BQL	10.0	1	4/15/2006
Dimethylphthalate	BQL	10.0	1	4/15/2006
2,4-Dimethylphenol	BQL	10.0	1	4/15/2006
Di-n-octylphthalate	BQL	10.0	1	4/15/2006
4,6-Dinitro-2-methylphenol	BQL	50.0	1	4/15/2006
2,4-Dinitrophenol	BQL	50.0	1	4/15/2006
2,4-Dinitrotoluene	BQL	10.0	1	4/15/2006
2,6-Dinitrotoluene	BQL	10.0	1	4/15/2006
Diphenylamine *	BQL	10.0	1	4/15/2006
Fluoranthene	BQL	10.0	1	4/15/2006
Fluorene	BQL	10.0	1	4/15/2006
Hexachlorobenzene	BQL	10.0	1	4/15/2006
Hexachlorobutadiene	BQL	10.0	1	4/15/2006
Hexachlorocyclopentadiene	BQL	20.0	1	4/15/2006
Hexachloroethane	BQL	10.0	1	4/15/2006
Indeno(1,2,3-c,d)pyrene	BQL	10.0	1	4/15/2006
Isophorone	BQL	10.0	1	4/15/2006
Naphthalene	BQL	10.0	1	4/15/2006

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Results for Semivolatiles
by GCMS 625

Client Sample ID: UST45-MW02R
Client Project ID: NV007
Lab Sample ID: G650-42-4F
Lab Project ID: G650-42

Analyzed By: MRC
Date Collected: 4/7/2006 11:20
Date Received: 4/8/2006
Date Extracted: 4/11/2006
Matrix: Water

Compound	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
Nitrobenzene	BQL	10.0	1	4/15/2006
2-Nitrophenol	BQL	10.0	1	4/15/2006
4-Nitrophenol	BQL	50.0	1	4/15/2006
N-Nitrosodi-n-propylamine	BQL	10.0	1	4/15/2006
Pentachlorophenol	BQL	50.0	1	4/15/2006
Phenanthrene	BQL	10.0	1	4/15/2006
Phenol	BQL	10.0	1	4/15/2006
Pyrene	BQL	10.0	1	4/15/2006
1,2,4-Trichlorobenzene	BQL	10.0	1	4/15/2006
2,4,6-Trichlorophenol	BQL	10.0	1	4/15/2006

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	8.1	81
2-Fluorophenol	10	7.7	78
Nitrobenzene-d5	10	8.2	82
Phenol-d6	10	8	80
2,4,6-Tribromophenol	10	7.2	72
4-Terphenyl-d14	10	10.1	101

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

Flags:
BQL = Below Quantitation Limits.

Reviewed By: _____

SGS

Results of Library Search for Semivolatile Compounds

by GCMS

Client Sample ID: UST45-MW02R
Client Project ID: NV007
Lab Sample ID: G650-42-4F
Lab Project ID: G650-42
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: MRC
Date Collected: 4/7/2006 11:20
Date Received: 4/8/2006
Date Extracted: 4/11/2006
Date Analyzed: 4/15/2006
Matrix: Water

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

Comment:

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

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

Reviewed by: _____

SGS

Results for Semivolatiles
by GCMS 625

Client Sample ID: UST45-Duplicate
Client Project ID: NV007
Lab Sample ID: G650-42-5F
Lab Project ID: G650-42

Analyzed By: MRC
Date Collected: 4/7/2006 0:00
Date Received: 4/8/2006
Date Extracted: 4/11/2006
Matrix: Water

Compound	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
Acenaphthene	BQL	10.0	1	4/15/2006
Acenaphthylene	BQL	10.0	1	4/15/2006
Anthracene	BQL	10.0	1	4/15/2006
Benzo[a]anthracene	BQL	10.0	1	4/15/2006
Benzo[a]pyrene	BQL	10.0	1	4/15/2006
Benzo[b]fluoranthene	BQL	10.0	1	4/15/2006
Benzo[g,h,i]perylene	BQL	10.0	1	4/15/2006
Benzo[k]fluoranthene	BQL	10.0	1	4/15/2006
Bis(2-chloroethoxy)methane	BQL	10.0	1	4/15/2006
Bis(2-chloroethyl)ether	BQL	10.0	1	4/15/2006
Bis(2-chloroisopropyl)ether	BQL	10.0	1	4/15/2006
Bis(2-ethylhexyl)phthalate	BQL	10.0	1	4/15/2006
4-bromophenyl phenyl ether	BQL	10.0	1	4/15/2006
Butylbenzylphthalate	BQL	10.0	1	4/15/2006
2-Chloronaphthalene	BQL	10.0	1	4/15/2006
2-Chlorophenol	BQL	10.0	1	4/15/2006
4-Chloro-3-methylphenol	BQL	10.0	1	4/15/2006
4-Chlorophenyl phenyl ether	BQL	10.0	1	4/15/2006
Chrysene	BQL	10.0	1	4/15/2006
Dibenzo[a,h]anthracene	BQL	10.0	1	4/15/2006
Di-n-Butylphthalate	BQL	10.0	1	4/15/2006
1,2-Dichlorobenzene	BQL	10.0	1	4/15/2006
1,3-Dichlorobenzene	BQL	10.0	1	4/15/2006
1,4-Dichlorobenzene	BQL	10.0	1	4/15/2006
3,3'-Dichlorobenzidine	BQL	20.0	1	4/15/2006
2,4-Dichlorophenol	BQL	10.0	1	4/15/2006
Diethylphthalate	BQL	10.0	1	4/15/2006
Dimethylphthalate	BQL	10.0	1	4/15/2006
2,4-Dimethylphenol	BQL	10.0	1	4/15/2006
Di-n-octylphthalate	BQL	10.0	1	4/15/2006
4,6-Dinitro-2-methylphenol	BQL	50.0	1	4/15/2006
2,4-Dinitrophenol	BQL	50.0	1	4/15/2006
2,4-Dinitrotoluene	BQL	10.0	1	4/15/2006
2,6-Dinitrotoluene	BQL	10.0	1	4/15/2006
Diphenylamine *	BQL	10.0	1	4/15/2006
Fluoranthene	BQL	10.0	1	4/15/2006
Fluorene	BQL	10.0	1	4/15/2006
Hexachlorobenzene	BQL	10.0	1	4/15/2006
Hexachlorobutadiene	BQL	10.0	1	4/15/2006
Hexachlorocyclopentadiene	BQL	20.0	1	4/15/2006
Hexachloroethane	BQL	10.0	1	4/15/2006
Indeno(1,2,3-c,d)pyrene	BQL	10.0	1	4/15/2006
Isophorone	BQL	10.0	1	4/15/2006
Naphthalene	BQL	10.0	1	4/15/2006

8270_LIMS_V1.96

SGS

Results for Semivolatiles by GCMS 625

Client Sample ID: UST45-Duplicate
Client Project ID: NV007
Lab Sample ID: G650-42-5F
Lab Project ID: G650-42

Analyzed By: MRC
Date Collected: 4/7/2006 0:00
Date Received: 4/8/2006
Date Extracted: 4/11/2006
Matrix: Water

Compound	Result ug/L	RL ug/L	Dilution Factor	Date Analyzed
Nitrobenzene	BQL	10.0	1	4/15/2006
2-Nitrophenol	BQL	10.0	1	4/15/2006
4-Nitrophenol	BQL	50.0	1	4/15/2006
N-Nitrosodi-n-propylamine	BQL	10.0	1	4/15/2006
Pentachlorophenol	BQL	50.0	1	4/15/2006
Phenanthrene	BQL	10.0	1	4/15/2006
Phenol	BQL	10.0	1	4/15/2006
Pyrene	BQL	10.0	1	4/15/2006
1,2,4-Trichlorobenzene	BQL	10.0	1	4/15/2006
2,4,6-Trichlorophenol	BQL	10.0	1	4/15/2006

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	9.1	91
2-Fluorophenol	10	8.7	87
Nitrobenzene-d5	10	9.2	92
Phenol-d6	10	8.5	85
2,4,6-Tribromophenol	10	8	80
4-Terphenyl-d14	10	10.4	104

Comments:

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

Flags:

BQL = Below Quantitation Limits.

Reviewed By: _____

SGS

Results of Library Search for Semivolatile Compounds

by GCMS

Client Sample ID: UST45-Duplicate
Client Project ID: NV007
Lab Sample ID: G650-42-5F
Lab Project ID: G650-42
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: MRC
Date Collected: 4/7/2006 0:00
Date Received: 4/8/2006
Date Extracted: 4/11/2006
Date Analyzed: 4/15/2006
Matrix: Water

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

Comment:

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

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

Reviewed by: _____

SGS

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

% soilds = 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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- West Virginia

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054754

(1)

CLIENT: Sovereign Consulting

CONTACT: Chris Murray PHONE NO: (757) 777-8982

PROJECT: NVOOM SITE/PWSID#: Bldg 45

REPORTS TO:

Chris Murray FAX NO.: (757) 594-9227

INVOICE TO: Chris Murray QUOTE #
606 Thimble Shoals Blvd Ste A1
Newport News VA 23606 P.O. NUMBER

SGS Reference: G650-42

PAGE 1 OF 1

(2)

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX	No CONTAINERS	SAMPLE TYPE (C=COMP, G=GRAB)	Preservatives Used	Analysis Required (3)	REMARKS
	UST45-MW06	4/7/06	0954	W	5		HCl	VOC, VOC + TICs, 8260B (2)	
	UST45-MW08		0740	W	5		NONE	Pb compel 1-ed	
	UST45-MW17		1040	W	5		H2SO4	required per	
	UST45-MW02R		1120	W	5			Chris Murray	
	UST45-DUPLICATE		—	W	5			4/5/06	
	TRIP BLANKS	4/7/06		W	2				

(5)

Collected/Relinquished By: (1)	Date	Time	Received By:
	4/7/06		
Relinquished By: (2)	Date 4/8/06	Time 1030	Received By:
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	Date	Time	Received By:

(4)

Shipping Carrier:

Shipping Ticket No:

Samples Received Cold? (Circle) YES NO

Temperature °C: 5.4, 5.3, 3.7

Special Deliverable Requirements:

Chain of Custody Seal: (Circle)
INTACT BROKEN ABSENT

Requested Turnaround Time and Special Instructions:
Standard turn
Email results in "EDD Format" to
cmurray@sovcon.com + nhall@sovcon.com

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
1258 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

SGS ENVIRONMENTAL SERVICES, INC.
N.C. CERTIFICATION #481

SGS

Mr. Chris Murray
Sovereign Consulting
606 Thimble Shoals Rd.
Suite A1
Newport-News VA 23606
Report Number: G650-44

Client Project: NV007

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 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.

5/2/2006

Laboratory Director — Date
J. Patrick Weaver

SGS

Results for Volatiles
by GC 602

Client Sample ID: UST45-MW07
Client Project ID: NV007
Lab Sample ID: G650-44-1A
Lab Project ID: G650-44

Analyzed By: MJC
Date Collected: 4/10/2006 14:30
Date Received: 4/11/2006
Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.316	1	4/18/2006	
Diisopropyl ether (DIPE)	BQL	1.00	0.294	1	4/18/2006	
Ethylbenzene	BQL	1.00	0.299	1	4/18/2006	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.588	1	4/18/2006	
Toluene	BQL	1.00	0.302	1	4/18/2006	
m/p-Xylene	BQL	2.00	0.608	1	4/18/2006	
o-Xylene	BQL	2.00	0.596	1	4/18/2006	

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	41.6	104

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

Reviewed By:

SGS

Results for Volatiles
by GC 602

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID: VBLK3041806A
Lab Project ID:

Analyzed By: MJC
Date Collected:
Date Received:
Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.316	1	4/18/2006	
Diisopropyl ether (DIPE)	BQL	1.00	0.294	1	4/18/2006	
Ethylbenzene	BQL	1.00	0.299	1	4/18/2006	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.588	1	4/18/2006	
Toluene	BQL	1.00	0.302	1	4/18/2006	
m/p-Xylene	BQL	2.00	0.608	1	4/18/2006	
o-Xylene	BQL	2.00	0.596	1	4/18/2006	

Surrogate Spike Recoveries	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	41.6	104

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

Reviewed By:

SGS

Control Limits for QC Check / Laboratory Control Spike

Method: 602 **Spike[ppb] :** 10
Instrument : gc3
Filename : 041806\004r0101.txt

				QC Limits			LCS Limits	
	Compound	ppb	Q(%)	Lower	Upper	P_s(%)	Lower	Upper
	Benzene	10.4	104.5	77.0	123.0	104	39	150
	Chlorobenzene	10.3	102.8	80.5	119.5	103	55	135
	1,2-Dichlorobenzene	10.5	105.2	68.0	132.0	105	37	154
	1,3-Dichlorobenzene	10.2	102.1	72.5	127.5	102	50	141
	1,4-Dichlorobenzene	10.3	103.1	69.5	130.5	103	42	143
◆	Diisopropyl ether	10.1	100.9	43.1	156.9	101	30	170
	Ethylbenzene	11.0	109.8	63.0	137.0	110	32	160
◆	MTBE	10.3	103.4	46.8	153.2	103	35	165
	Toluene	10.4	104.5	77.5	127.0	104	46	148
◆	m,p-Xylene	21.4	107.1	11.2	188.8	107	D	239
◆	o-Xylene	10.7	106.8	47.6	152.4	107	36	164

Flags :

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

Reviewed by:

SGS

Control Limits for MS-MSD

Method: 602 **Spike[ppb]:** 10
Instrument: gc3
Sample: 041806\018r0101.txt
MS: 041806\019r0101.txt
MSD: 041806\020r0101.txt

		µg/L		P(%)		P Limits	
	Compound	Sam.	MS	MSD	MS	MSD	Lower	Upper
	Benzene	ND	11.2	11.2	110	110	39	150
	Chlorobenzene	ND	10.5	10.6	105	106	55	135
	1,2-Dichlorobenzene	ND	10.5	10.6	103	104	37	154
	1,3-Dichlorobenzene	ND	10.4	10.5	104	104	50	141
	1,4-Dichlorobenzene	ND	10.5	10.5	105	105	42	143
•	Diisopropyl ether	ND	10.5	10.6	105	106	30	170
	Ethylbenzene	ND	11.1	11.2	111	112	32	160
•	MTBE	ND	10.6	10.7	106	107	35	165
	Toluene	ND	11.4	10.9	114	109	46	148
•	m,p-Xylene	ND	21.7	21.8	108	109	D	239
•	o-Xylene	5.2	16.2	12.3	110	71	36	164

Flags :

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

Reviewed by:

SGS

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

% soilds = 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.

MI34.030606.3

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SGS ENVIRONMENTAL SERVICES, INC.

N.C. CERTIFICATION #481

(1)

CLIENT: Sovereign Consulting
CONTACT: Chris Murray PHONE NO: (757) 777-8982
PROJECT: NV007 SITE/PWSID#: Bldg 45
REPORTS TO: Chris Murray FAX NO.: (757) 594-9227
INVOICE TO: Chris Murray QUOTE #
6006 Thimble Shoals Blvd A.1
Newport News, VA 23606 P.O. NUMBER

SGS Reference: G650-44

PAGE 1 OF 1

(2)

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX	No CONTAINERS	SAMPLE TYPE (C=COMP, G=GRAB)	Preservatives Used	Analysis Required (3) 602	REMARKS
	UST45-MW07	04/10/06	1430	W	3			3	

(5)

Collected/Relinquished By:(1)	Date	Time	Received By:
	4/10/06		
Relinquished By: (2)	Date 4/11/06	Time 0950	Received By:
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	Date	Time	Received By:

(4)

Shipping Carrier:
Shipping Ticket No:
Samples Received Cold? (Circle) YES NO
Temperature °C: 5.6°C
Special Deliverable Requirements:
Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT

Requested Turnaround Time and Special Instructions: Standard TA
Send Results to: (in EDD format)
cmurray@soucon.com & mhall@soucon.com

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
1258 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

EXAMPLE FIELD DATA

PURGING AND BAILING GROUNDWATER SAMPLING FORM
MCB Camp LeJeune and New River MCAS

Project Number: NW007
Project Name: Bldg 45
Date: 04/06/06
Weather:

Well ID: PW01R
Sample ID: UST45-PW01R
Well Condition:

ALL DEPTHS ARE TO BE COLLECTED FROM THE TOP OF THE CASING.

Protective Casing Diameter (inch): 2
Inner Casing Diameter (inch):
Inner Casing Material: PVC
Purge/Sample Method:
PID/FID Reading of Well Headspace (ppm)
Before Cap Removal
After Cap Removal
Depth to Product from TOC (feet):
Initial Depth to Water from TOC (feet): 7.59
Product Thickness (feet):
Depth to Top of Screen from TOC (feet):
Total Depth from TOC (feet): 18.00

Water Column (feet): 10.41
Casing Volume (gal): 1.70
Pump Intake Setting from TOC (feet):
DTW After Pump Installed:
Start Purge Date/Time: 1545
End Purge Date/Time: 1619
Total Volume Purged (gal):
Depth to Water After Purge from TOC (feet):
Pre-Sample Depth to Water from TOC (feet):
Start Sample Date/Time:
End Sample Date/Time: 1621
Sampler Name: TE/SF

COLLECT READINGS AT THE START OF PURGING, AFTER EACH AND EVERY WELL VOLUME IS PURGED, AND AFTER SAMPLING IS COMPLETED.

Time	Rate (gal/min)	Cumulative Gallons Purged	pH (SI Units)	Conductivity (µohms/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mv)	Depth to Water (ft)	Comments
1609	200 mL/min	2	6.65	0.797	16.35	0.09	5.8	-81.4		
1612			6.67	0.794	16.36	0.09	4.5	-82.3		
1615			6.65	0.789	16.18	0.08	5.1	-82.4		
1618			6.67	0.787	16.36	0.09	4.3	-83.3		

PURGING AND BAILING GROUNDWATER SAMPLING FORM
MCB Camp LeJeune and New River MCAS

Project Number: NF007
Project Name: Bldg 45
Date: 04/07/06
Weather:

Well ID: MW02R
Sample ID: UST45-MW02R
Well Condition:

ALL DEPTHS ARE TO BE COLLECTED FROM THE TOP OF THE CASING.

Protective Casing Diameter (inch): 2
Inner Casing Diameter (inch):
Inner Casing Material: PVC
Purge/Sample Method:
PID/FID Reading of Well Headspace (ppm)
Before Cap Removal:
After Cap Removal:
Depth to Product from TOC (feet):
Initial Depth to Water from TOC (feet): 6.31
Product Thickness (feet):
Depth to Top of Screen from TOC (feet):
Total Depth from TOC (feet): 14.53

Water Column (feet): 8.22
Casing Volume (gal): 1.34
Pump Intake Setting from TOC (feet):
DTW After Pump Installed:
Start Purge Date/Time: 1048
End Purge Date/Time: 1119
Total Volume Purged (gal):
Depth to Water After Purge from TOC (feet):
Pre-Sample Depth to Water from TOC (feet):
Start Sample Date/Time:
End Sample Date/Time: 1120
Sampler Name: SF

COLLECT READINGS AT THE START OF PURGING, AFTER EACH AND EVERY WELL VOLUME IS PURGED, AND AFTER SAMPLING IS COMPLETED.

Time	Rate (gal/min)	Cumulative Gallons Purged	pH (SI Units)	Conductivity (µohms/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mv)	Depth to Water (ft)	Comments
1109	200 ml/min		6.90	0.706	16.86	0.14	17	-75.7		
1112			6.79	0.701	17.03	0.13	~~16~~ 14	-77.7		
1115			6.79	0.690	17.11	0.12	11	-79.5		
1118			6.79	0.671	17.10	0.11	11	-81.0		

PURGING AND BAILING GROUNDWATER SAMPLING FORM
MCB Camp LeJeune and New River MCAS

Project Number: NV007
Project Name: Bldg 45
Date: 6/8/06
Weather:

Well ID: MW03R
Sample ID: USTL45 - MW03R
Well Condition:

ALL DEPTHS ARE TO BE COLLECTED FROM THE TOP OF THE CASING.

Protective Casing Diameter (inch):
Inner Casing Diameter (inch): 2
Inner Casing Material:
Purge/Sample Method:
PID/FID Reading of Well Headspace (ppm)
Before Cap Removal:
After Cap Removal:
Depth to Product from TOC (feet):
Initial Depth to Water from TOC (feet): 7.32
Product Thickness (feet):
Depth to Top of Screen from TOC (feet):
Total Depth from TOC (feet): 17.80

Water Column (feet): 10.48
Casing Volume (gal): 1.70
Pump Intake Setting from TOC (feet):
DTW After Pump Installed:
Start Purge Date/Time: 1302
End Purge Date/Time:
Total Volume Purged (gal):
Depth to Water After Purge from TOC (feet):
Pre-Sample Depth to Water from TOC (feet):
Start Sample Date/Time:
End Sample Date/Time: 1347
Sampler Name:

COLLECT READINGS AT THE START OF PURGING, AFTER EACH AND EVERY WELL VOLUME IS PURGED, AND AFTER SAMPLING IS COMPLETED.

Time	Rate (gal/min)	Cumulative Gallons Purged	pH (SI Units)	Conductivity (µohms/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mv)	Depth to Water (ft)	Comments
1335	200ml	2	5.40	0.155	16.72	0.0	10.37	-10		
1338			5.37	0.150	16.84	0.0	8.23	-7		
1341			5.38	0.152	16.78	0.0	9.23	-9		
1344			5.36	0.153	16.67	0.0	7.26	-8		

PURGING AND BAILING GROUNDWATER SAMPLING FORM
MCB Camp LeJeune and New River MCAS

Project Number: NV007
Project Name: Bldg 45
Date: 04/06/06
Weather:

Well ID: MW04
Sample ID: USTG5-MW04
Well Condition:

ALL DEPTHS ARE TO BE COLLECTED FROM THE TOP OF THE CASING.

Protective Casing Diameter (inch):	2 (0.163)	Water Column (feet):	14.26
Inner Casing Diameter (inch):		Casing Volume (gal):	2.32
Inner Casing Material:	PVC	Pump Intake Setting from TOC (feet):	
Purge/Sample Method:		DTW After Pump Installed:	
PID/FID Reading of Well Headspace (ppm)		Start Purge Date/Time:	1035
Before Cap Removal:		End Purge Date/Time:	1116
After Cap Removal:		Total Volume Purged (gal):	
Depth to Product from TOC (feet):		Depth to Water After Purge from TOC (feet):	
Initial Depth to Water from TOC (feet):	7.67	Pre-Sample Depth to Water from TOC (feet):	
Product Thickness (feet):		Start Sample Date/Time:	
Depth to Top of Screen from TOC (feet):		End Sample Date/Time:	1120
Total Depth from TOC (feet):	21.93	Sampler Name:	TE/SF

COLLECT READINGS AT THE START OF PURGING, AFTER EACH AND EVERY WELL VOLUME IS PURGED, AND AFTER SAMPLING IS COMPLETED.

Time	Rate (gal/min)	Cumulative Gallons Purged	pH (SI Units)	Conductivity (µohms/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mv)	Depth to Water (ft)	Comments
1107	200 mL/min	2.5	4.38	0.069	15.28	0.00	2.88	259		
1110			4.40	0.069	15.32	0.00	1.88	259		
1113			4.40	0.069	15.33	0.00	1.72	259		
1116			4.40	0.069	15.35	0.00	1.76	257		

PURGING AND BAILING GROUNDWATER SAMPLING FORM
MCB Camp LeJeune and New River MCAS

Project Number: NV007
Project Name: Bldg 45
Date: 04/06/06
Weather:

Well ID: MW01/45
Sample ID: UST45-MW01/45
Well Condition:

ALL DEPTHS ARE TO BE COLLECTED FROM THE TOP OF THE CASING.

Protective Casing Diameter (inch): 4 (0.653)
Inner Casing Diameter (inch):
Inner Casing Material: PVC
Purge/Sample Method:
PID/FID Reading of Well Headspace (ppm)
Before Cap Removal:
After Cap Removal:
Depth to Product from TOC (feet):
Initial Depth to Water from TOC (feet): 11.27
Product Thickness (feet):
Depth to Top of Screen from TOC (feet):
Total Depth from TOC (feet): 20.07

Water Column (feet): 8.80
Casing Volume (gal): 5.75
Pump Intake Setting from TOC (feet):
DTW After Pump Installed:
Start Purge Date/Time: 1014
End Purge Date/Time: 1142
Total Volume Purged (gal):
Depth to Water After Purge from TOC (feet):
Pre-Sample Depth to Water from TOC (feet):
Start Sample Date/Time:
End Sample Date/Time: 1143
Sampler Name: TE/SF

COLLECT READINGS AT THE START OF PURGING, AFTER EACH AND EVERY WELL VOLUME IS PURGED, AND AFTER SAMPLING IS COMPLETED.

Time	Rate (gal/min)	Cumulative Gallons Purged	pH (SI Units)	Conductivity (µohms/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mv)	Depth to Water (ft)	Comments
1132	200 mL/min	5.75	6.38	0.387	17.88	0.41	2.98	88.4		
1135			6.38	0.387	17.89	0.41	2.18	97.6		
1138			6.38	0.387	17.88	0.43	2.20	86.7		
1141			6.38	0.387	17.88	0.41	2.26	95.7		

PURGING AND BAILING GROUNDWATER SAMPLING FORM
MCB Camp LeJeune and New River MCAS

Project Number: NV007
Project Name: Bldg 45
Date: 09/06/06
Weather:

Well ID: MW04/45
Sample ID: USTH5 : MW04/45
Well Condition:

ALL DEPTHS ARE TO BE COLLECTED FROM THE TOP OF THE CASING.

Protective Casing Diameter (inch): 4 (0.653)
Inner Casing Diameter (inch):
Inner Casing Material: PVC
Purge/Sample Method:
PID/FID Reading of Well Headspace (ppm)
Before Cap Removal:
After Cap Removal:
Depth to Product from TOC (feet):
Initial Depth to Water from TOC (feet): 14.64
Product Thickness (feet):
Depth to Top of Screen from TOC (feet):
Total Depth from TOC (feet): 22.04

Water Column (feet): 7.40
Casing Volume (gal): 4.83
Pump Intake Setting from TOC (feet):
DTW After Pump Installed:
Start Purge Date/Time: 0852
End Purge Date/Time: 1000
Total Volume Purged (gal):
Depth to Water After Purge from TOC (feet):
Pre-Sample Depth to Water from TOC (feet):
Start Sample Date/Time:
End Sample Date/Time: 1001
Sampler Name: TE/SF

COLLECT READINGS AT THE START OF PURGING, AFTER EACH AND EVERY WELL VOLUME IS PURGED, AND AFTER SAMPLING IS COMPLETED.

Time	Rate (gal/min)	Cumulative Gallons Purged	pH (SI Units)	Conductivity (µohms/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mv)	Depth to Water (ft)	Comments
0954	200 ml/min	4.000	6.70	0.638	17.93	4.63	0.00	140.3		
0957			6.69	0.638	17.99	4.60	0.15	141.4		
1000			6.69	0.638	18.02	4.59	0.00	142.3		

PURGING AND BAILING GROUNDWATER SAMPLING FORM
MCB Camp LeJeune and New River MCAS

Project Number: NV007
Project Name: Bldg 45
Date: 04/06/06
Weather:

Well ID: MW05
Sample ID: UST45-MW05
Well Condition:

ALL DEPTHS ARE TO BE COLLECTED FROM THE TOP OF THE CASING.

Protective Casing Diameter (inch): 2
Inner Casing Diameter (inch):
Inner Casing Material: PVC
Purge/Sample Method:
PID/FID Reading of Well Headspace (ppm)
Before Cap Removal:
After Cap Removal:
Depth to Product from TOC (feet): —
Initial Depth to Water from TOC (feet): 8.51
Product Thickness (feet): —
Depth to Top of Screen from TOC (feet):
Total Depth from TOC (feet): 19.65

Water Column (feet): 11.14
Casing Volume (gal): 1.82
Pump Intake Setting from TOC (feet):
DTW After Pump Installed:
Start Purge Date/Time: #1540
End Purge Date/Time:
Total Volume Purged (gal):
Depth to Water After Purge from TOC (feet):
Pre-Sample Depth to Water from TOC (feet):
Start Sample Date/Time:
End Sample Date/Time: 1630
Sampler Name: TE/SF

COLLECT READINGS AT THE START OF PURGING, AFTER EACH AND EVERY WELL VOLUME IS PURGED, AND AFTER SAMPLING IS COMPLETED.

Time	Rate (gal/min)	Cumulative Gallons Purged	pH (SI Units)	Conductivity (µohms/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mv)	Depth to Water (ft)	Comments
1608	200mL/min	2	6.25	0.346	15.56	1.93	89.5	-10		
1611			6.22	0.345	15.87	2.98	150	19		
1614			6.24	0.339	15.58	4.09	526	13		
1617			6.28	0.344	15.57	4.91	323	-4		
										* well went dry - heavy debris - sampled after purge

PURGING AND BAILING GROUNDWATER SAMPLING FORM
MCB Camp LeJeune and New River MCAS

Project Number: NV007
Project Name: Bldg 45
Date: 04/07/06
Weather:

Well ID: MW06
Sample ID: US45-MW06
Well Condition:

ALL DEPTHS ARE TO BE COLLECTED FROM THE TOP OF THE CASING.

Protective Casing Diameter (inch): 2"
Inner Casing Diameter (inch):
Inner Casing Material: PVC
Purge/Sample Method:
PID/FID Reading of Well Headspace (ppm)
Before Cap Removal:
After Cap Removal:
Depth to Product from TOC (feet):
Initial Depth to Water from TOC (feet): 17.65
Product Thickness (feet):
Depth to Top of Screen from TOC (feet):
Total Depth from TOC (feet): 48.22

Water Column (feet): 30.57
Casing Volume (gal): 4.98
Pump Intake Setting from TOC (feet):
DTW After Pump Installed:
Start Purge Date/Time: 0745
End Purge Date/Time: 0953
Total Volume Purged (gal):
Depth to Water After Purge from TOC (feet):
Pre-Sample Depth to Water from TOC (feet):
Start Sample Date/Time:
End Sample Date/Time: 0954
Sampler Name: TE/SF

COLLECT READINGS AT THE START OF PURGING, AFTER EACH AND EVERY WELL VOLUME IS PURGED, AND AFTER SAMPLING IS COMPLETED.

Time	Rate (gal/min)	Cumulative Gallons Purged	pH (SI Units)	Conductivity (µohms/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mv)	Depth to Water (ft)	Comments
0943	200ml/min	5.00	5.92	0.141	19.42	4.17	0.60	49.5		
0946			5.88	0.141	19.42	4.34	0.50	48.4		
0949			5.87	0.140	19.44	4.37	0.40	48.1		
0952			5.86	0.140	19.42	4.39	0.25	48.1		

PURGING AND BAILING GROUNDWATER SAMPLING FORM
MCB Camp LeJeune and New River MCAS

Project Number: NY007
Project Name: Bldg 45
Date: 04/6/06
Weather:

Well ID: MW07
Sample ID: UST45-MW07
Well Condition:

ALL DEPTHS ARE TO BE COLLECTED FROM THE TOP OF THE CASING.

Protective Casing Diameter (inch): 2
Inner Casing Diameter (inch):
Inner Casing Material: PVC
Purge/Sample Method:
PID/FID Reading of Well Headspace (ppm)
Before Cap Removal:
After Cap Removal:
Depth to Product from TOC (feet): —
Initial Depth to Water from TOC (feet): 5.13
Product Thickness (feet): —
Depth to Top of Screen from TOC (feet):
Total Depth from TOC (feet): 23.11

Water Column (feet): 17.98
Casing Volume (gal): 2.93
Pump Intake Setting from TOC (feet):
DTW After Pump Installed:
Start Purge Date/Time: 1456
End Purge Date/Time: 1527
Total Volume Purged (gal):
Depth to Water After Purge from TOC (feet):
Pre-Sample Depth to Water from TOC (feet):
Start Sample Date/Time:
End Sample Date/Time: 1530
Sampler Name: TE/SF

COLLECT READINGS AT THE START OF PURGING, AFTER EACH AND EVERY WELL VOLUME IS PURGED, AND AFTER SAMPLING IS COMPLETED.

Time	Rate (gal/min)	Cumulative Gallons Purged	pH (SI Units)	Conductivity (µohms/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mv)	Depth to Water (ft)	Comments
1518	200 mL/min	3	5.74	0.255	16.35	0.07	1.7	-0.8		
1521			5.74	0.255	16.29	0.07	2.2	-3.1		
1524			5.74	0.255	16.28	0.06	1.2	-4.4		
1527			5.74	0.255	16.29	0.06	0.75	-6.8		
										Duplicate on MW07

PURGING AND BAILING GROUNDWATER SAMPLING FORM
MCB Camp LeJeune and New River MCAS

Project Number: NV007
Project Name: Bldg 45
Date: 04/07/06
Weather:

Well ID: MW08
Sample ID: UST45-MW08
Well Condition:

ALL DEPTHS ARE TO BE COLLECTED FROM THE TOP OF THE CASING.

Protective Casing Diameter (inch): 2
Inner Casing Diameter (inch):
Inner Casing Material: PVC
Purge/Sample Method:
PID/FID Reading of Well Headspace (ppm)
Before Cap Removal:
After Cap Removal:
Depth to Product from TOC (feet):
Initial Depth to Water from TOC (feet): 5.69
Product Thickness (feet):
Depth to Top of Screen from TOC (feet):
Total Depth from TOC (feet): 19.17

Water Column (feet): 13.48
Casing Volume (gal): 2.20
Pump Intake Setting from TOC (feet):
DTW After Pump Installed:
Start Purge Date/Time: 0705
End Purge Date/Time: 0739
Total Volume Purged (gal):
Depth to Water After Purge from TOC (feet):
Pre-Sample Depth to Water from TOC (feet):
Start Sample Date/Time:
End Sample Date/Time: 0740
Sampler Name: TE/SF

COLLECT READINGS AT THE START OF PURGING, AFTER EACH AND EVERY WELL VOLUME IS PURGED, AND AFTER SAMPLING IS COMPLETED.

Time	Rate (gal/min)	Cumulative Gallons Purged	pH (SI Units)	Conductivity (µohms/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mv)	Depth to Water (ft)	Comments
0729	200 mL/min	2.20	10.31	0.349	13.43	0.52	4.1	51.6		
0732			10.31	0.348	13.45	0.51	4.0	50.5		
0735			10.31	0.354	13.41	0.51	3.7	48.0		
0738			10.31	0.352	13.44	0.52	3.5	47.4		

PURGING AND BAILING GROUNDWATER SAMPLING FORM
MCB Camp LeJeune and New River MCAS

Project Number: NV007
Project Name: Bldg 45
Date: 04/06
Weather:

Well ID: MW09
Sample ID: UST45-MW09
Well Condition:

ALL DEPTHS ARE TO BE COLLECTED FROM THE TOP OF THE CASING.

Protective Casing Diameter (inch): 2
Inner Casing Diameter (inch):
Inner Casing Material: PVC
Purge/Sample Method:
PID/FID Reading of Well Headspace (ppm)
Before Cap Removal
After Cap Removal:
Depth to Product from TOC (feet):
Initial Depth to Water from TOC (feet): 17.22
Product Thickness (feet):
Depth to Top of Screen from TOC (feet):
Total Depth from TOC (feet): 48.17

Water Column (feet): 30.95
Casing Volume (gal): 5.04
Pump Intake Setting from TOC (feet):
DTW After Pump Installed:
Start Purge Date/Time: 1328
End Purge Date/Time: 1441
Total Volume Purged (gal):
Depth to Water After Purge from TOC (feet):
Pre-Sample Depth to Water from TOC (feet):
Start Sample Date/Time:
End Sample Date/Time: 1445
Sampler Name: TE/SF

COLLECT READINGS AT THE START OF PURGING, AFTER EACH AND EVERY WELL VOLUME IS PURGED, AND AFTER SAMPLING IS COMPLETED.

Time	Rate (gal/min)	Cumulative Gallons Purged	pH (SI Units)	Conductivity (µohms/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mv)	Depth to Water (ft)	Comments
1432	200 ml/min	5	3.37	3.236	19.76	0.16	50	318.2		
1435			3.27	3.258	19.78	0.17	50	316.1		
1438			3.46	3.195	19.83	0.21	40	314.1		
1441			3.51	3.164	19.93	0.18	35	2920		

PURGING AND BAILING GROUNDWATER SAMPLING FORM
MCB Camp LeJeune and New River MCAS

Project Number: NV007
Project Name: Bldg 45
Date: 04/6/06
Weather:

Well ID: MW12
Sample ID: UST45-MW12
Well Condition:

ALL DEPTHS ARE TO BE COLLECTED FROM THE TOP OF THE CASING.

Protective Casing Diameter (inch): 2
Inner Casing Diameter (inch):
Inner Casing Material: PVC
Purge/Sample Method:
PID/FID Reading of Well Headspace (ppm)
Before Cap Removal:
After Cap Removal:
Depth to Product from TOC (feet):
Initial Depth to Water from TOC (feet): 4.93
Product Thickness (feet):
Depth to Top of Screen from TOC (feet):
Total Depth from TOC (feet): 15.35

Water Column (feet): 10.42
Casing Volume (gal): 1.70
Pump Intake Setting from TOC (feet):
DTW After Pump Installed:
Start Purge Date/Time: 0959
End Purge Date/Time: 1032
Total Volume Purged (gal):
Depth to Water After Purge from TOC (feet):
Pre-Sample Depth to Water from TOC (feet):
Start Sample Date/Time:
End Sample Date/Time: 1035
Sampler Name: TE/SF

COLLECT READINGS AT THE START OF PURGING, AFTER EACH AND EVERY WELL VOLUME IS PURGED, AND AFTER SAMPLING IS COMPLETED.

Time	Rate (gal/min)	Cumulative Gallons Purged	pH (SI Units)	Conductivity (µohms/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mv)	Depth to Water (ft)	Comments
1023	200 ml/min	2	6.28	0.305	15.35	0.00	8.57	-47		
1026			6.23	0.289	15.37	0.00	7.96	-45		
1029			6.21	0.280	15.35	0.00	4.48	-41		
1032			6.21	0.279	15.34	0.00	4.53	-40		

PURGING AND BAILING GROUNDWATER SAMPLING FORM
MCB Camp LeJeune and New River MCAS

Project Number: NV007
Project Name: BLDG 45
Date: 4/5/06
Weather: Sunny

Well ID: MW13
Sample ID: UST45-MW13
Well Condition:

ALL DEPTHS ARE TO BE COLLECTED FROM THE TOP OF THE CASING.

Protective Casing Diameter (inch): 2
Inner Casing Diameter (inch):
Inner Casing Material: PVC
Purge/Sample Method:
PID/FID Reading of Well Headspace (ppm)
Before Cap Removal:
After Cap Removal:
Depth to Product from TOC (feet):
Initial Depth to Water from TOC (feet): 6.23
Product Thickness (feet):
Depth to Top of Screen from TOC (feet):
Total Depth from TOC (feet): 12.18

Water Column (feet): 5.95
Casing Volume (gal): 0.96
Pump Intake Setting from TOC (feet):
DTW After Pump Installed:
Start Purge Date/Time: 1355
End Purge Date/Time: 1414
Total Volume Purged (gal):
Depth to Water After Purge from TOC (feet):
Pre-Sample Depth to Water from TOC (feet):
Start Sample Date/Time:
End Sample Date/Time: 1415
Sampler Name: TE/SF

COLLECT READINGS AT THE START OF PURGING, AFTER EACH AND EVERY WELL VOLUME IS PURGED, AND AFTER SAMPLING IS COMPLETED.

Time	Rate (gal/min)	Cumulative Gallons Purged	pH (SI Units)	Conductivity (µohms/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mv)	Depth to Water (ft)	Comments
1405	200 mL/min	1	5.66	0.252	16.29	1.80	1.69	132.6		
1408			5.66	0.248	16.30	1.66	1.47	147.1		
1411			5.67	0.245	16.17	1.59	1.45	153.3		
1414			5.67	0.239	16.26	1.44	0.57	156.5		

PURGING AND BAILING GROUNDWATER SAMPLING FORM
MCB Camp LeJeune and New River MCAS

Project Number: NV007
Project Name: Bldg 45
Date: 04/05/06
Weather: sunny & mild

Well ID: MW14
Sample ID: UST45-MW14
Well Condition:

ALL DEPTHS ARE TO BE COLLECTED FROM THE TOP OF THE CASING.

Protective Casing Diameter (inch): 2
Inner Casing Diameter (inch):
Inner Casing Material: PVC
Purge/Sample Method:
PID/FID Reading of Well Headspace (ppm)
Before Cap Removal:
After Cap Removal:
Depth to Product from TOC (feet):
Initial Depth to Water from TOC (feet): 11.38
Product Thickness (feet):
Depth to Top of Screen from TOC (feet):
Total Depth from TOC (feet): 16.10

Water Column (feet): 4.74
Casing Volume (gal): 0.772
Pump Intake Setting from TOC (feet):
DTW After Pump Installed:
Start Purge Date/Time: 1246
End Purge Date/Time: 1324
Total Volume Purged (gal):
Depth to Water After Purge from TOC (feet):
Pre-Sample Depth to Water from TOC (feet):
Start Sample Date/Time:
End Sample Date/Time: 1310
Sampler Name: TE/SF

COLLECT READINGS AT THE START OF PURGING, AFTER EACH AND EVERY WELL VOLUME IS PURGED, AND AFTER SAMPLING IS COMPLETED.

Time	Rate (gal/min)	Cumulative Gallons Purged	pH (SI Units)	Conductivity (µohms/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mv)	Depth to Water (ft)	Comments
1254	200 mL/min	1 1.48	5.39	0.375	16.94	5.38	6.28	70.8		
1257			7.19	0.386	16.79	5.41	6.32	88.3		
1260			7.18	0.397	12.76	5.50	5.89	86.2		
1303			7.18	0.398	16.81	6.51	4.02	86.7		

PURGING AND BAILING GROUNDWATER SAMPLING FORM
MCB Camp LeJeune and New River MCAS

Project Number: N/0007
Project Name: BRAC45
Date: 4/5/06
Weather:

Well ID: MW15
Sample ID: UST45-MW15
Well Condition:

ALL DEPTHS ARE TO BE COLLECTED FROM THE TOP OF THE CASING.

Protective Casing Diameter (inch): 2
Inner Casing Diameter (inch):
Inner Casing Material: PVC
Purge/Sample Method:
PID/FID Reading of Well Headspace (ppm)
Before Cap Removal:
After Cap Removal:
Depth to Product from TOC (feet): —
Initial Depth to Water from TOC (feet): 9.59
Product Thickness (feet):
Depth to Top of Screen from TOC (feet):
Total Depth from TOC (feet): 15.90

Water Column (feet): 6.31
Casing Volume (gal): 1.03
Pump Intake Setting from TOC (feet):
DTW After Pump Installed:
Start Purge Date/Time: 1321
End Purge Date/Time: 1347
Total Volume Purged (gal):
Depth to Water After Purge from TOC (feet):
Pre-Sample Depth to Water from TOC (feet):
Start Sample Date/Time:
End Sample Date/Time: 1348
Sampler Name: TE/SF

COLLECT READINGS AT THE START OF PURGING, AFTER EACH AND EVERY WELL VOLUME IS PURGED, AND AFTER SAMPLING IS COMPLETED.

Time	Rate (gal/min)	Cumulative Gallons Purged	pH (SI Units)	Conductivity (µohms/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mv)	Depth to Water (ft)	Comments
1334	200 ML	1	5.96	0.223	18.51	0.54	16.9	50.4		
1337			5.93	0.227	18.38	0.50	24.6	48.2		
1340			5.81	0.224	19.53	0.54	24.0	49.9		
1343			5.79	0.234	18.66	0.55	11.7	49.9		
1346			5.78	0.238	18.60	0.51	11.5	47.7		

PURGING AND BAILING GROUNDWATER SAMPLING FORM
MCB Camp LeJeune and New River MCAS

Project Number: NV007
Project Name: BI0945
Date: 04/07/06
Weather:

Well ID: MW17
Sample ID: UST45-MW17
Well Condition:

ALL DEPTHS ARE TO BE COLLECTED FROM THE TOP OF THE CASING.

Protective Casing Diameter (inch): 2
Inner Casing Diameter (inch):
Inner Casing Material: PVC
Purge/Sample Method:
PID/FID Reading of Well Headspace (ppm)
Before Cap Removal:
After Cap Removal:
Depth to Product from TOC (feet):
Initial Depth to Water from TOC (feet): 6.74
Product Thickness (feet):
Depth to Top of Screen from TOC (feet):
Total Depth from TOC (feet): 14.70

Water Column (feet): 7.96
Casing Volume (gal): 1.30
Pump Intake Setting from TOC (feet):
DTW After Pump Installed:
Start Purge Date/Time: 1012
End Purge Date/Time: 1038
Total Volume Purged (gal):
Depth to Water After Purge from TOC (feet):
Pre-Sample Depth to Water from TOC (feet):
Start Sample Date/Time:
End Sample Date/Time: 1040
Sampler Name: TE/SF

COLLECT READINGS AT THE START OF PURGING, AFTER EACH AND EVERY WELL VOLUME IS PURGED, AND AFTER SAMPLING IS COMPLETED.

Time	Rate (gal/min)	Cumulative Gallons Purged	pH (SI Units)	Conductivity (µohms/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mv)	Depth to Water (ft)	Comments
1025	200 ml/min		5.99	0.476	16.51	0.29	0.60	129.0		
1028			6.00	0.476	16.09	0.26	0.30	132.3		
1031			6.00	0.477	16.02	0.23	0.35	135.2		
1034			6.01	0.478	16.80	0.21	0.25	138.4		

PURGING AND BAILING GROUNDWATER SAMPLING FORM
MCB Camp LeJeune and New River MCAS

Project Number: NV007
Project Name: Bldg 45
Date: 04/06/06
Weather:

Well ID: MW18
Sample ID: YST45-MW18
Well Condition:

ALL DEPTHS ARE TO BE COLLECTED FROM THE TOP OF THE CASING.

Protective Casing Diameter (inch): 2
Inner Casing Diameter (inch):
Inner Casing Material: PVC
Purge/Sample Method:
PID/FID Reading of Well Headspace (ppm)
Before Cap Removal:
After Cap Removal:
Depth to Product from TOC (feet):
Initial Depth to Water from TOC (feet): 7.26
Product Thickness (feet):
Depth to Top of Screen from TOC (feet):
Total Depth from TOC (feet): 15.38

Water Column (feet): 8.12
Casing Volume (gal): 1.32
Pump Intake Setting from TOC (feet):
DTW After Pump Installed:
Start Purge Date/Time: 1155 / 1255 (reset)
End Purge Date/Time: 1215 / 1310
Total Volume Purged (gal):
Depth to Water After Purge from TOC (feet):
Pre-Sample Depth to Water from TOC (feet):
Start Sample Date/Time:
End Sample Date/Time: 1311
Sampler Name: TE/SF

COLLECT READINGS AT THE START OF PURGING, AFTER EACH AND EVERY WELL VOLUME IS PURGED, * AND AFTER SAMPLING IS COMPLETED.

Time	Rate (gal/min)	Cumulative Gallons Purged	pH (SI Units)	Conductivity (µohms/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mv)	Depth to Water (ft)	Comments
1300	200 ml/min	2.60	6.31	0.475	17.87	0.34	3.3	-35.1		
1303			6.31	0.474	17.42	0.31	5.4	-34.6		
1306			6.30	0.473	17.44	0.31	6.3	-34.5		
1309			6.30	0.471	17.29	0.27	4.7	-35.3		

* YSI down for 30 minutes & time was reset

PURGING AND BAILING GROUNDWATER SAMPLING FORM
MCB Camp LeJeune and New River MCAS

Project Number: NV007
Project Name: Bldg 45
Date: 04/6/06
Weather:

Well ID: MW19
Sample ID: DST45-MW19
Well Condition:

ALL DEPTHS ARE TO BE COLLECTED FROM THE TOP OF THE CASING.

Protective Casing Diameter (inch): 2
Inner Casing Diameter (inch):
Inner Casing Material: PVC
Purge/Sample Method:
PID/FID Reading of Well Headspace (ppm)
Before Cap Removal
After Cap Removal
Depth to Product from TOC (feet):
Initial Depth to Water from TOC (feet): 5.36
Product Thickness (feet):
Depth to Top of Screen from TOC (feet):
Total Depth from TOC (feet): 17.11

Water Column (feet): 11.75
Casing Volume (gal): 1.92
Pump Intake Setting from TOC (feet):
DTW After Pump Installed:
Start Purge Date/Time: 1125
End Purge Date/Time: 1155
Total Volume Purged (gal):
Depth to Water After Purge from TOC (feet):
Pre-Sample Depth to Water from TOC (feet):
Start Sample Date/Time:
End Sample Date/Time: 1158
Sampler Name: TG/SF

COLLECT READINGS AT THE START OF PURGING, AFTER EACH AND EVERY WELL VOLUME IS PURGED, AND AFTER SAMPLING IS COMPLETED.

Time	Rate (gal/min)	Cumulative Gallons Purged	pH (SI Units)	Conductivity (µohms/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mv)	Depth to Water (ft)	Comments
1146	200 ml/min	2	5.71	0.227	15.13	0.00	1.52	0		
1149			5.72	0.227	15.09	0.00	1.97	-2		
1152			5.68	0.230	14.93	0.00	1.96	-4		
1155			6.69	0.229	14.95	0.00	1.10	-5		

PURGING AND BAILING GROUNDWATER SAMPLING FORM
MCB Camp LeJeune and New River MCAS

Project Number	NV007	Well ID:	MW20
Project Name.	Bldg 45	Sample ID:	UST45-MW20
Date:	04/18/06	Well Condition:	
Weather:			

ALL DEPTHS ARE TO BE COLLECTED FROM THE TOP OF THE CASING.

Protective Casing Diameter (inch):	2	Water Column (feet):	10.60
Inner Casing Diameter (inch):		Casing Volume (gal):	1.73
Inner Casing Material:	PVC	Pump Intake Setting from TOC (feet):	
Purge/Sample Method:		DTW After Pump Installed:	
PID/FID Reading of Well Headspace (ppm)		Start Purge Date/Time:	1205
Before Cap Removal:		End Purge Date/Time:	1235
After Cap Removal:		Total Volume Purged (gal):	
Depth to Product from TOC (feet):	—	Depth to Water After Purge from TOC (feet):	
Initial Depth to Water from TOC (feet):	5.08	Pre-Sample Depth to Water from TOC (feet):	
Product Thickness (feet):	—	Start Sample Date/Time:	
Depth to Top of Screen from TOC (feet):		End Sample Date/Time:	~~1240~~
Total Depth from TOC (feet):	15.68	Sampler Name:	TE/SF

COLLECT READINGS AT THE START OF PURGING, AFTER EACH AND EVERY WELL VOLUME IS PURGED, AND AFTER SAMPLING IS COMPLETED.

Time	Rate (gal/min)	Cumulative Gallons Purged	pH (SI Units)	Conductivity (µohms/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mv)	Depth to Water (ft)	Comments
1226	200mL/min	2	5.91	0.235	15.91	0.00	1.07	-58		
1229			5.89	0.232	16.18	0.00	1.17	-58		
1232			5.89	0.231	16.26	0.00	1.45	-58		
1235			5.89	0.231	16.21	0.00	1.06	-60		

PURGING AND BAILING GROUNDWATER SAMPLING FORM
MCB Camp LeJeune and New River MCAS

Project Number: NV007
Project Name: BIDAUS
Date: 04/06/06
Weather:

Well ID: MW21
Sample ID: US745-MW21
Well Condition:

ALL DEPTHS ARE TO BE COLLECTED FROM THE TOP OF THE CASING.

Protective Casing Diameter (inch): 2
Inner Casing Diameter (inch):
Inner Casing Material: PVC
Purge/Sample Method:
PID/FID Reading of Well Headspace (ppm)
Before Cap Removal
After Cap Removal
Depth to Product from TOC (feet):
Initial Depth to Water from TOC (feet): 14.63
Product Thickness (feet):
Depth to Top of Screen from TOC (feet):
Total Depth from TOC (feet): 48.92

Water Column (feet): 34.29
Casing Volume (gal): 5.59
Pump Intake Setting from TOC (feet):
DTW After Pump Installed:
Start Purge Date/Time: 0720
End Purge Date/Time: 0839
Total Volume Purged (gal):
Depth to Water After Purge from TOC (feet):
Pre-Sample Depth to Water from TOC (feet):
Start Sample Date/Time:
End Sample Date/Time: 0841,
Sampler Name: TE/SF

COLLECT READINGS AT THE START OF PURGING, AFTER EACH AND EVERY WELL VOLUME IS PURGED, AND AFTER SAMPLING IS COMPLETED.

Time	Rate (gal/min)	Cumulative Gallons Purged	pH (SI Units)	Conductivity (µohms/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mv)	Depth to Water (ft)	Comments
0830	200 mL/min	5.60	5.01	0.238	18.57	1.21	6.8	172.7		
0835			5.00	0.237	18.56	1.07	1.9	171.8		
0838			5.01	0.237	18.60	1.13	0.70	171.6		

PURGING AND BAILING GROUNDWATER SAMPLING FORM
MCB Camp LeJeune and New River MCAS

Project Number: NV207
Project Name: Bldg 45
Date: 11/3/05
Weather:

Well ID: PW01-R
Sample ID: UST45/SW41-PW01-R
Well Condition:

ALL DEPTHS ARE TO BE COLLECTED FROM THE TOP OF THE CASING.

Protective Casing Diameter (inch):
Inner Casing Diameter (inch): 2
Inner Casing Material:
Purge/Sample Method:
PID/FID Reading of Well Headspace (ppm)
Before Cap Removal:
After Cap Removal:
Depth to Product from TOC (feet):
Initial Depth to Water from TOC (feet): 4.76
Product Thickness (feet):
Depth to Top of Screen from TOC (feet):
Total Depth from TOC (feet): 18.0

Water Column (feet): 13.24
Casing Volume (gal): (.163) 2.15
Pump Intake Setting from TOC (feet):
DTW After Pump Installed:
Start Purge Date/Time: 0930
End Purge Date/Time:
Total Volume Purged (gal): (6.47)
Depth to Water After Purge from TOC (feet):
Pre-Sample Depth to Water from TOC (feet):
Start Sample Date/Time: 1000
End Sample Date/Time: 1000
Sampler Name:

COLLECT READINGS AT THE START OF PURGING, AFTER EACH AND EVERY WELL VOLUME IS PURGED, AND AFTER SAMPLING IS COMPLETED.

Time	Rate (gal/min)	Cumulative Gallons Purged	pH (SI Units)	Conductivity (µohms/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mv)	Depth to Water (ft)	Comments
0930	200ml	2	6.68	0.817	22.41	0.07	17.4	-71.4		Not on MW
0945		5	6.64	0.775	22.74	0.05	11	-92.9		—
0955		7	6.59	0.710	22.86	0.05	7.9	-98.7		Re-installed in 2005

PURGING AND BAILING GROUNDWATER SAMPLING FORM
MCB Camp LeJeune and New River MCAS

Project Number: NV20M
Project Name: Bldg 45
Date: 11/8/06
Weather:

Well ID: MW02-R
Sample ID:
Well Condition:

ALL DEPTHS ARE TO BE COLLECTED FROM THE TOP OF THE CASING.

Protective Casing Diameter (inch):
Inner Casing Diameter (inch): 2" (flush mount)
Inner Casing Material:
Purge/Sample Method:
PID/FID Reading of Well Headspace (ppm)
Before Cap Removal:
After Cap Removal:
Depth to Product from TOC (feet):
Initial Depth to Water from TOC (feet): 3.58
Product Thickness (feet):
Depth to Top of Screen from TOC (feet):
Total Depth from TOC (feet): 14.51

Water Column (feet): 10.93
Casing Volume (gal): (.163) 1.78
Pump Intake Setting from TOC (feet):
DTW After Pump Installed:
Start Purge Date/Time:
End Purge Date/Time:
Total Volume Purged (gal): (5.34)
Depth to Water After Purge from TOC (feet):
Pre-Sample Depth to Water from TOC (feet):
Start Sample Date/Time: 1125
End Sample Date/Time: 1125
Sampler Name: TB

COLLECT READINGS AT THE START OF PURGING, AFTER EACH AND EVERY WELL VOLUME IS PURGED, AND AFTER SAMPLING IS COMPLETED.

Time	Rate (gal/min)	Cumulative Gallons Purged	pH (SI Units)	Conductivity (µohms/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mv)	Depth to Water (ft)	Comments
1108	200 ml	2	6.79	0.754	23.35	0.05	16.2	-61.3		
1115		4	6.79	0.759	22.37	0.04	3.34	-69.6		
1122		6	6.79	0.762	22.41	0.04	1.73	-75.1		

PURGING AND BAILING GROUNDWATER SAMPLING FORM
MCB Camp LeJeune and New River MCAS

Project Number: NV207
Project Name: RIR 45
Date: 11/3/05
Weather:

Well ID: MW03 -R
Sample ID:
Well Condition:

ALL DEPTHS ARE TO BE COLLECTED FROM THE TOP OF THE CASING.

Protective Casing Diameter (inch):
Inner Casing Diameter (inch): 2
Inner Casing Material:
Purge/Sample Method:
PID/FID Reading of Well Headspace (ppm)
Before Cap Removal:
After Cap Removal:
Depth to Product from TOC (feet):
Initial Depth to Water from TOC (feet): 4.61
Product Thickness (feet):
Depth to Top of Screen from TOC (feet):
Total Depth from TOC (feet): 17.80

Water Column (feet): 13.19
Casing Volume (gal): (1.63) 2.14
Pump Intake Setting from TOC (feet):
DTW After Pump Installed:
Start Purge Date/Time: 1015
End Purge Date/Time:
Total Volume Purged (gal): (6.44)
Depth to Water After Purge from TOC (feet):
Pre-Sample Depth to Water from TOC (feet):
Start Sample Date/Time:
End Sample Date/Time: 1040
Sampler Name:

COLLECT READINGS AT THE START OF PURGING, AFTER EACH AND EVERY WELL VOLUME IS PURGED, AND AFTER SAMPLING IS COMPLETED.

Time	Rate (gal/min)	Cumulative Gallons Purged	pH (SI Units)	Conductivity (µohms/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mv)	Depth to Water (ft)	Comments
1022	200ml	2	5.90	0.272	22.48	0.04	3.6	-48.1		
1029		4	5.82	0.239	22.56	0.06	1.6	-61.4		
1037		6	5.79	0.230	22.59	0.09	1.5	-63.9		

PURGING AND BAILING GROUNDWATER SAMPLING FORM
MCB Camp LeJeune and New River MCAS

Project Number: CT00007
Project Name: Bldg 45
Date: 10/27/05
Weather:

Well ID: MW01
Sample ID: UST45/SW41/~~MW01~~ MW01/45
Well Condition:

ALL DEPTHS ARE TO BE COLLECTED FROM THE TOP OF THE CASING.

Protective Casing Diameter (inch):
Inner Casing Diameter (inch): 4" (0.653)
Inner Casing Material:
Purge/Sample Method:
PID/FID Reading of Well Headspace (ppm)
Before Cap Removal:
After Cap Removal:
Depth to Product from TOC (feet):
Initial Depth to Water from TOC (feet): 9.42
Product Thickness (feet):
Depth to Top of Screen from TOC (feet):
Total Depth from TOC (feet): 20.07

Water Column (feet): 10.65
Casing Volume (gal):
Pump Intake Setting from TOC (feet):
DTW After Pump Installed:
Start Purge Date/Time: 1530
End Purge Date/Time:
Total Volume Purged (gal): (6.95)
Depth to Water After Purge from TOC (feet):
Pre-Sample Depth to Water from TOC (feet):
Start Sample Date/Time:
End Sample Date/Time: 1615
Sampler Name:

COLLECT READINGS AT THE START OF PURGING, AFTER EACH AND EVERY WELL VOLUME IS PURGED, AND AFTER SAMPLING IS COMPLETED.

Time	Rate (gal/min)	Cumulative Gallons Purged	pH (SI Units)	Conductivity (µohms/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mv)	Depth to Water (ft)	Comments
1541	200ML	7	6.64	0.437	23.30	1.75	5.41	73.1		Turbidity got
1552		14	6.51	0.394	23.10	.54	38.4	85.1		water
1603		21	6.49	0.369	23.01	.52	47.7	109.3		

PURGING AND BAILING GROUNDWATER SAMPLING FORM
MCB Camp LeJeune and New River MCAS

Project Number: CTO 0007
Project Name: Building 45
Date: 10/07/08
Weather: 60 Hi

Well ID: MW24
Sample ID: UST 45/5941-MW04/45
Well Condition:

ALL DEPTHS ARE TO BE COLLECTED FROM THE TOP OF THE CASING.

Protective Casing Diameter (inch):
Inner Casing Diameter (inch): 4" (0.653)
Inner Casing Material:
Purge/Sample Method:
PID/FID Reading of Well Headspace (ppm)
Before Cap Removal:
After Cap Removal:
Depth to Product from TOC (feet):
Initial Depth to Water from TOC (feet): 12.25
Product Thickness (feet):
Depth to Top of Screen from TOC (feet):
Total Depth from TOC (feet): 22.04

Water Column (feet): 9.79
Casing Volume (gal):
Pump Intake Setting from TOC (feet):
DTW After Pump Installed:
Start Purge Date/Time: 1425
End Purge Date/Time:
Total Volume Purged (gal): (6.39)
Depth to Water After Purge from TOC (feet):
Pre-Sample Depth to Water from TOC (feet):
Start Sample Date/Time:
End Sample Date/Time: 1510
Sampler Name:

COLLECT READINGS AT THE START OF PURGING, AFTER EACH AND EVERY WELL VOLUME IS PURGED, AND AFTER SAMPLING IS COMPLETED.

Time	Rate (gal/min)	Cumulative Gallons Purged	pH (SI Units)	Conductivity (µohms/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mv)	Depth to Water (ft)	Comments
1428	200 ml	7	7.40	0.402	22.35	7.56	2.52	137.3		
1451		14	6.72	0.423	22.39	7.28	1.36	162.0		
1504		21	6.38	0.414	22.40	7.01	1.80	165.7		

0.653

PURGING AND BAILING GROUNDWATER SAMPLING FORM
MCB Camp LeJeune and New River MCAS

Project Number: NM007
Project Name: Bldg 45
Date: 11/4/05
Weather:

Well ID: MW04
Sample ID:
Well Condition:

ALL DEPTHS ARE TO BE COLLECTED FROM THE TOP OF THE CASING.

Protective Casing Diameter (inch):
Inner Casing Diameter (inch): 2
Inner Casing Material:
Purge/Sample Method:
PID/FID Reading of Well Headspace (ppm)
Before Cap Removal:
After Cap Removal:
Depth to Product from TOC (feet):
Initial Depth to Water from TOC (feet): 5.07
Product Thickness (feet):
Depth to Top of Screen from TOC (feet):
Total Depth from TOC (feet): 21.93

Water Column (feet): 16.87
Casing Volume (gal): (.163) 2.74
Pump Intake Setting from TOC (feet):
DTW After Pump Installed:
Start Purge Date/Time: 1130
End Purge Date/Time:
Total Volume Purged (gal): (8.24)
Depth to Water After Purge from TOC (feet):
Pre-Sample Depth to Water from TOC (feet):
Start Sample Date/Time: 1205
End Sample Date/Time:
Sampler Name:

COLLECT READINGS AT THE START OF PURGING, AFTER EACH AND EVERY WELL VOLUME IS PURGED, AND AFTER SAMPLING IS COMPLETED.

Time	Rate (gal/min)	Cumulative Gallons Purged	pH (SI Units)	Conductivity (µohms/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mv)	Depth to Water (ft)	Comments
1137	200ml	3	4.60	0.081	20.90	0.03	4.22	252.7		
1150		6	4.60	0.081	20.93	-0.01	1.53	255.2		
1203		9	4.60	0.082	20.95	0.04	1.08	256.2		

PURGING AND BAILING GROUNDWATER SAMPLING FORM
MCB Camp LeJeune and New River MCAS

Project Number: NV007
Project Name: Bldg 45
Date: 11/4/05
Weather:

Well ID: MW05
Sample ID:
Well Condition:

ALL DEPTHS ARE TO BE COLLECTED FROM THE TOP OF THE CASING.

Protective Casing Diameter (inch):
Inner Casing Diameter (inch): 2.
Inner Casing Material:
Purge/Sample Method:
PID/FID Reading of Well Headspace (ppm)
Before Cap Removal:
After Cap Removal:
Depth to Product from TOC (feet):
Initial Depth to Water from TOC (feet): 5.77
Product Thickness (feet):
Depth to Top of Screen from TOC (feet):
Total Depth from TOC (feet): 19.65

Water Column (feet): 13.88
Casing Volume (gal): (163) 2.26
Pump Intake Setting from TOC (feet):
DTW After Pump Installed:
Start Purge Date/Time:
End Purge Date/Time:
Total Volume Purged (gal): (6.78)
Depth to Water After Purge from TOC (feet):
Pre-Sample Depth to Water from TOC (feet):
Start Sample Date/Time: 1400
End Sample Date/Time:
Sampler Name:

COLLECT READINGS AT THE START OF PURGING, AFTER EACH AND EVERY WELL VOLUME IS PURGED, AND AFTER SAMPLING IS COMPLETED.

Time	Rate (gal/min)	Cumulative Gallons Purged	pH (SI Units)	Conductivity (µohms/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mv)	Depth to Water (ft)	Comments
1337	200 ml	2.5	6.61	0.350	22.65	0.23	35.6	89.2		Does not re-
		5								charge well
		7								
										- Stopped pump
										Org after 1ST V
										Sampled @ 14

PURGING AND BAILING GROUNDWATER SAMPLING FORM
MCB Camp LeJeune and New River MCAS

Project Number: NV007
Project Name: Bldg 45
Date: 11/2/05
Weather:

Well ID: MW06
Sample ID: USTA5/5941 - MW06
Well Condition:

ALL DEPTHS ARE TO BE COLLECTED FROM THE TOP OF THE CASING.

Protective Casing Diameter (inch):
Inner Casing Diameter (inch): 2
Inner Casing Material:
Purge/Sample Method:
PID/FID Reading of Well Headspace (ppm)
Before Cap Removal:
After Cap Removal:
Depth to Product from TOC (feet):
Initial Depth to Water from TOC (feet): 16.22
Product Thickness (feet):
Depth to Top of Screen from TOC (feet):
Total Depth from TOC (feet): 48.27

Water Column (feet): 32.00
Casing Volume (gal): (.163) 5.21
Pump Intake Setting from TOC (feet):
DTW After Pump Installed:
Start Purge Date/Time: 1648
End Purge Date/Time:
Total Volume Purged (gal): (15.6)
Depth to Water After Purge from TOC (feet):
Pre-Sample Depth to Water from TOC (feet):
Start Sample Date/Time: 1745
End Sample Date/Time:
Sampler Name:

COLLECT READINGS AT THE START OF PURGING, AFTER EACH AND EVERY WELL VOLUME IS PURGED, AND AFTER SAMPLING IS COMPLETED.

Time	Rate (gal/min)	Cumulative Gallons Purged	pH (SI Units)	Conductivity (µohms/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mv)	Depth to Water (ft)	Comments
1713	200ml	5.5	5.75	0.126	19.15	0.30	0.60	-0.2		
1725		10.0	5.72	0.132	19.03	0.13	0.75	-0.2		
1737		16.0	5.71	0.129	19.02	0.12	0.10	-20.6		

PURGING AND BAILING GROUNDWATER SAMPLING FORM
MCB Camp LeJeune and New River MCAS

Project Number: NW007
Project Name: Bldg 45
Date: 11/2/05
Weather:

Well ID: MW07
Sample ID: UST Bldg 45- MW07
Well Condition:

ALL DEPTHS ARE TO BE COLLECTED FROM THE TOP OF THE CASING.

Protective Casing Diameter (inch):
Inner Casing Diameter (inch): 2"
Inner Casing Material:
Purge/Sample Method:
PID/FID Reading of Well Headspace (ppm)
Before Cap Removal:
After Cap Removal:
Depth to Product from TOC (feet):
Initial Depth to Water from TOC (feet): 2.52
Product Thickness (feet):
Depth to Top of Screen from TOC (feet):
Total Depth from TOC (feet): 23.11

Water Column (feet): 20.59
Casing Volume (gal): .163 (3.35)
Pump Intake Setting from TOC (feet):
DTW After Pump Installed:
Start Purge Date/Time: 1123
End Purge Date/Time:
Total Volume Purged (gal): (10.06)
Depth to Water After Purge from TOC (feet):
Pre-Sample Depth to Water from TOC (feet):
Start Sample Date/Time:
End Sample Date/Time: 1225
Sampler Name:

COLLECT READINGS AT THE START OF PURGING, AFTER EACH AND EVERY WELL VOLUME IS PURGED, AND AFTER SAMPLING IS COMPLETED.

Time	Rate (gal/min)	Cumulative Gallons Purged	pH (SI Units)	Conductivity (µohms/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mv)	Depth to Water (ft)	Comments
1140	200 ml	3.5	5.72	0.262	23.04	-0.03	1.33	-119.5		
1200		7	5.70	0.262	23.03	-0.24	0.91	-123.8		
1220		11	6.73	0.262	23.18	-0.16	0.87	-147.9		

PURGING AND BAILING GROUNDWATER SAMPLING FORM
MCB Camp LeJeune and New River MCAS

Project Number: NV007
Project Name: Bldg 45
Date: 11/29/05
Weather:

Well ID: MW08
Sample ID:
Well Condition:

ALL DEPTHS ARE TO BE COLLECTED FROM THE TOP OF THE CASING.

Protective Casing Diameter (inch):
Inner Casing Diameter (inch): 2
Inner Casing Material:
Purge/Sample Method:
PID/FID Reading of Well Headspace (ppm)
Before Cap Removal:
After Cap Removal:
Depth to Product from TOC (feet):
Initial Depth to Water from TOC (feet): 3.71
Product Thickness (feet):
Depth to Top of Screen from TOC (feet):
Total Depth from TOC (feet): 19.17

Water Column (feet): 15.46
Casing Volume (gal): 8.17
Pump Intake Setting from TOC (feet):
DTW After Pump Installed:
Start Purge Date/Time:
End Purge Date/Time:
Total Volume Purged (gal): 3.0 (9.51)
Depth to Water After Purge from TOC (feet):
Pre-Sample Depth to Water from TOC (feet):
Start Sample Date/Time: 1815
End Sample Date/Time: 1815
Sampler Name:

COLLECT READINGS AT THE START OF PURGING, AFTER EACH AND EVERY WELL VOLUME IS PURGED, AND AFTER SAMPLING IS COMPLETED.

Time	Rate (gal/min)	Cumulative Gallons Purged	pH (SI Units)	Conductivity (µohms/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mv)	Depth to Water (ft)	Comments
1753	200 ml	3.5	6.28	0.312	20.40	0.11	8.71	26.1		
1801		3.0	6.29	0.313	20.40	0.13	6.88	23.8		
1812		3.0	6.27	0.329	20.59	0.09	5.94	0.0		

PURGING AND BAILING GROUNDWATER SAMPLING FORM
MCB Camp LeJeune and New River MCAS

Project Number: NV001
Project Name: TBL 45
Date: 11/2/25
Weather:

Well ID: ~~MW23~~ MW09
Sample ID: UST45/3941-MW09
Well Condition:

ALL DEPTHS ARE TO BE COLLECTED FROM THE TOP OF THE CASING.

Protective Casing Diameter (inch):
Inner Casing Diameter (inch): 2
Inner Casing Material:
Purge/Sample Method:
PID/FID Reading of Well Headspace (ppm)
Before Cap Removal:
After Cap Removal:
Depth to Product from TOC (feet):
Initial Depth to Water from TOC (feet): 15.75
Product Thickness (feet):
Depth to Top of Screen from TOC (feet):
Total Depth from TOC (feet): ~~48.0~~ 48.17

Water Column (feet): 32.42
Casing Volume (gal): (.163) 5.28
Pump Intake Setting from TOC (feet):
DTW After Pump Installed:
Start Purge Date/Time: 1018
End Purge Date/Time:
Total Volume Purged (gal): (x5) 16
Depth to Water After Purge from TOC (feet):
Pre-Sample Depth to Water from TOC (feet):
Start Sample Date/Time:
End Sample Date/Time: 1110
Sampler Name:

COLLECT READINGS AT THE START OF PURGING, AFTER EACH AND EVERY WELL VOLUME IS PURGED, AND AFTER SAMPLING IS COMPLETED.

Time	Rate (gal/min)	Cumulative Gallons Purged	pH (SI Units)	Conductivity (µohms/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mv)	Depth to Water (ft)	Comments
1034	200 ml	6	3.89	3.126	20.11	0.17	19	58.3		
1050		12	3.92	3.156	20.09	0.05	5.24	28.1		
1101		16	3.93	3.173	20.00	-0.06	3.01	9.8		

PURGING AND BAILING GROUNDWATER SAMPLING FORM
MCB Camp LeJeune and New River MCAS

Project Number: NV0007
Project Name: Bldg 45
Date: 11/4/05
Weather:

Well ID: MW12
Sample ID:
Well Condition:

ALL DEPTHS ARE TO BE COLLECTED FROM THE TOP OF THE CASING.

Protective Casing Diameter (inch):
Inner Casing Diameter (inch): 2
Inner Casing Material:
Purge/Sample Method:
PID/FID Reading of Well Headspace (ppm)
Before Cap Removal:
After Cap Removal:
Depth to Product from TOC (feet):
Initial Depth to Water from TOC (feet): 9.66
Product Thickness (feet):
Depth to Top of Screen from TOC (feet):
Total Depth from TOC (feet): 15.35

Water Column (feet): 12.69
Casing Volume (gal): (.163) 1.64
Pump Intake Setting from TOC (feet):
DTW After Pump Installed:
Start Purge Date/Time: 0905
End Purge Date/Time:
Total Volume Purged (gal): 4.94
Depth to Water After Purge from TOC (feet):
Pre-Sample Depth to Water from TOC (feet):
Start Sample Date/Time: ~~0940~~ 0950
End Sample Date/Time:
Sampler Name:

COLLECT READINGS AT THE START OF PURGING, AFTER EACH AND EVERY WELL VOLUME IS PURGED, AND AFTER SAMPLING IS COMPLETED.

Time	Rate (gal/min)	Cumulative Gallons Purged	pH (SI Units)	Conductivity (µohms/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mv)	Depth to Water (ft)	Comments
0908	200 ml	1.5	6.60	0.420	21.99	0.06	ER2	77.0		well strange
0913		3	6.40	0.390	22.31	0.02	178	39.1		muddy
0923		5	6.38	0.365	22.58	0.03	31.9	46.2		
0927		6	6.32	0.360	22.40	0.01	16.8	47.6		
0934		7	6.30	0.352	22.41	0.03	14.9	49.9		
0939		8	6.28	0.344	22.39	0.03	11.3	52.6		
0945		9	6.26	0.338	22.39	0.03	9.23	55.5		

PURGING AND BAILING GROUNDWATER SAMPLING FORM
MCB Camp LeJeune and New River MCAS

Project Number:
Project Name: Bldg 45
Date: 10/27/05
Weather:

Well ID: MW13
Sample ID: UST45/S941-MW13
Well Condition:

ALL DEPTHS ARE TO BE COLLECTED FROM THE TOP OF THE CASING.

Protective Casing Diameter (inch):
Inner Casing Diameter (inch): 2 (0.163)
Inner Casing Material:
Purge/Sample Method:
PID/FID Reading of Well Headspace (ppm)
Before Cap Removal:
After Cap Removal:
Depth to Product from TOC (feet):
Initial Depth to Water from TOC (feet): 4.25
Product Thickness (feet):
Depth to Top of Screen from TOC (feet):
Total Depth from TOC (feet): 12.18

Water Column (feet): 7.93
Casing Volume (gal):
Pump Intake Setting from TOC (feet):
DTW After Pump Installed:
Start Purge Date/Time: 1637
End Purge Date/Time:
Total Volume Purged (gal): (1.29) 3.87
Depth to Water After Purge from TOC (feet):
Pre-Sample Depth to Water from TOC (feet):
Start Sample Date/Time: 1710
End Sample Date/Time:
Sampler Name:

COLLECT READINGS AT THE START OF PURGING, AFTER EACH AND EVERY WELL VOLUME IS PURGED, AND AFTER SAMPLING IS COMPLETED.

Time	Rate (gal/min)	Cumulative Gallons Purged	pH (SI Units)	Conductivity (µohms/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mv)	Depth to Water (ft)	Comments
1644	200ml	1.5	5.66	0.412	23.57	2.49	2.75	209.8		Will need
1652		3	5.68	0.418	22.44	2.56	0.83	212.8		to W @ 6 from
1700		4	5.69	0.419	23.40	2.58	0.72	221.3		well —
										add ext. — 1
										Well underg
										NO WELL TAG

PURGING AND BAILING GROUNDWATER SAMPLING FORM
MCB Camp LeJeune and New River MCAS

Project Number: NV007
Project Name:
Date: ~~10/28/05~~ 10/28/05
Weather:

Well ID: MW14
Sample ID:
Well Condition:

ALL DEPTHS ARE TO BE COLLECTED FROM THE TOP OF THE CASING.

Protective Casing Diameter (inch): ~~2~~
Inner Casing Diameter (inch): 2
Inner Casing Material:
Purge/Sample Method:
PID/FID Reading of Well Headspace (ppm)
Before Cap Removal:
After Cap Removal:
Depth to Product from TOC (feet):
Initial Depth to Water from TOC (feet): 7.15
Product Thickness (feet):
Depth to Top of Screen from TOC (feet):
Total Depth from TOC (feet): 16.12

Water Column (feet): 8.97
Casing Volume (gal): 1.46
Pump Intake Setting from TOC (feet):
DTW After Pump Installed:
Start Purge Date/Time:
End Purge Date/Time:
Total Volume Purged (gal): 4.38 (4.5)
Depth to Water After Purge from TOC (feet):
Pre-Sample Depth to Water from TOC (feet):
Start Sample Date/Time:
End Sample Date/Time: ~~1520~~ 1420
Sampler Name: ~~TG~~

COLLECT READINGS AT THE START OF PURGING, AFTER EACH AND EVERY WELL VOLUME IS PURGED, AND AFTER SAMPLING IS COMPLETED.

Time	Rate (gal/min)	Cumulative Gallons Purged	pH (SI Units)	Conductivity (µohms/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mv)	Depth to Water (ft)	Comments
1502	~~1.5~~	1.5	7.09	0.209	~~28.15~~	8.77	7.53	~~148.8~~		
1508	~~3~~	3	7.08	0.209	~~2320~~	8.79	6.50	149.2		
1513	~~4.5~~	4.5	7.08	0.206	23.23	8.79	6.03	150.4		

PURGING AND BAILING GROUNDWATER SAMPLING FORM
MCB Camp LeJeune and New River MCAS

Project Number: CTO
Project Name:
Date: 10/25/05 ~~10/28/05~~ 10/28/05
Weather: L - H -

Well ID: MW15
Sample ID: LS145/5941 - MW15
Well Condition:

ALL DEPTHS ARE TO BE COLLECTED FROM THE TOP OF THE CASING.

Protective Casing Diameter (inch): 2
Inner Casing Diameter (inch):
Inner Casing Material:
Purge/Sample Method:
PID/FID Reading of Well Headspace (ppm)
Before Cap Removal:
After Cap Removal:
Depth to Product from TOC (feet):
Initial Depth to Water from TOC (feet): 6.56
Product Thickness (feet):
Depth to Top of Screen from TOC (feet):
Total Depth from TOC (feet): 15.90

Water Column (feet): 9.34
Casing Volume (gal): 1.52
Pump Intake Setting from TOC (feet):
DTW After Pump Installed:
Start Purge Date/Time: 1350
End Purge Date/Time:
Total Volume Purged (gal): 4.56 (5)
Depth to Water After Purge from TOC (feet):
Pre-Sample Depth to Water from TOC (feet):
Start Sample Date/Time: * ~~1415~~ 1450
End Sample Date/Time:
Sampler Name:

COLLECT READINGS AT THE START OF PURGING, AFTER EACH AND EVERY WELL VOLUME IS PURGED, AND AFTER SAMPLING IS COMPLETED. 4 2 1 3 5

Time	Rate (gal/min)	Cumulative Gallons Purged	pH (SI Units)	Conductivity (µohms/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mv)	Depth to Water (ft)	Comments
1355	200 ml	1.5	6.11	0.268	22.84	2.90	7.20	73.9		
1403		3	6.10	0.255	22.67	1.88	1.40	65.8		
1408		4.5	6.02	0.248	22.61	1.34	2.75	67.2		

PURGING AND BAILING GROUNDWATER SAMPLING FORM
MCB Camp LeJeune and New River MCAS

Project Number: NV007
Project Name: Bldg 45
Date: 11/4/05
Weather:

Well ID: MW19
Sample ID:
Well Condition:

ALL DEPTHS ARE TO BE COLLECTED FROM THE TOP OF THE CASING.

Protective Casing Diameter (inch):
Inner Casing Diameter (inch): 2.
Inner Casing Material:
Purge/Sample Method:
PID/FID Reading of Well Headspace (ppm)
Before Cap Removal:
After Cap Removal:
Depth to Product from TOC (feet):
Initial Depth to Water from TOC (feet): 3.42
Product Thickness (feet):
Depth to Top of Screen from TOC (feet):
Total Depth from TOC (feet): 14.70

Water Column (feet): 11.28
Casing Volume (gal): (.163) 1.83
Pump Intake Setting from TOC (feet):
DTW After Pump Installed:
Start Purge Date/Time:
End Purge Date/Time:
Total Volume Purged (gal): (5.51)
Depth to Water After Purge from TOC (feet):
Pre-Sample Depth to Water from TOC (feet):
Start Sample Date/Time: 1310
End Sample Date/Time:
Sampler Name:

COLLECT READINGS AT THE START OF PURGING, AFTER EACH AND EVERY WELL VOLUME IS PURGED, AND AFTER SAMPLING IS COMPLETED.

Time	Rate (gal/min)	Cumulative Gallons Purged	pH (SI Units)	Conductivity (µohms/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mv)	Depth to Water (ft)	Comments
1258	200 ml	2	6.43	0.362	22.92	0.05	2.05	35.0		
1303		4	6.41	0.364	22.98	0.06	1.49	26.9		
1308		6	6.40	0.364	22.99	0.08	1.61	21.4		

PURGING AND BAILING GROUNDWATER SAMPLING FORM
MCB Camp LeJeune and New River MCAS

Project Number: CTO 0007
Project Name: Bldg 45
Date: 11/3/05
Weather:

Well ID: MW18
Sample ID: UST 45/9941 - MW18
Well Condition:

ALL DEPTHS ARE TO BE COLLECTED FROM THE TOP OF THE CASING.

Protective Casing Diameter (inch):
Inner Casing Diameter (inch): 2
Inner Casing Material:
Purge/Sample Method:
PID/FID Reading of Well Headspace (ppm)
Before Cap Removal:
After Cap Removal:
Depth to Product from TOC (feet):
Initial Depth to Water from TOC (feet): 4.47
Product Thickness (feet):
Depth to Top of Screen from TOC (feet):
Total Depth from TOC (feet): 15.38

Water Column (feet): 10.91
Casing Volume (gal): (.163) 1.77
Pump Intake Setting from TOC (feet):
DTW After Pump Installed:
Start Purge Date/Time: 1345
End Purge Date/Time:
Total Volume Purged (gal): (5.33)
Depth to Water After Purge from TOC (feet):
Pre-Sample Depth to Water from TOC (feet):
Start Sample Date/Time: 1410
End Sample Date/Time:
Sampler Name: TE

COLLECT READINGS AT THE START OF PURGING, AFTER EACH AND EVERY WELL VOLUME IS PURGED, AND AFTER SAMPLING IS COMPLETED.

Time	Rate (gal/min)	Cumulative Gallons Purged	pH (SI Units)	Conductivity (µohms/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mv)	Depth to Water (ft)	Comments
1348	200 ml	2	6.44	0.458	22.92	0.04	7.35	-90.9		Not on Map
1355		4	6.38	0.424	23.03	0.03	6.76	-99.2		
1402		6	6.36	0.423	23.08	0.00	3.93	-106.6		(CATLIN July 02

PURGING AND BAILING GROUNDWATER SAMPLING FORM
MCB Camp LeJeune and New River MCAS

Project Number: NV007
Project Name: Bellows
Date: 11/3/05
Weather:

Well ID: MW 19
Sample ID: LST45/5941 - MW19
Well Condition:

ALL DEPTHS ARE TO BE COLLECTED FROM THE TOP OF THE CASING.

Protective Casing Diameter (inch):
Inner Casing Diameter (inch): 2.
Inner Casing Material:
Purge/Sample Method:
PID/FID Reading of Well Headspace (ppm)
Before Cap Removal:
After Cap Removal:
Depth to Product from TOC (feet):
Initial Depth to Water from TOC (feet): 2.98
Product Thickness (feet):
Depth to Top of Screen from TOC (feet):
Total Depth from TOC (feet): 17.11

Water Column (feet): 14.13
Casing Volume (gal): (.163) 2.30
Pump Intake Setting from TOC (feet):
DTW After Pump Installed:
Start Purge Date/Time: 1421
End Purge Date/Time:
Total Volume Purged (gal): 6.90
Depth to Water After Purge from TOC (feet):
Pre-Sample Depth to Water from TOC (feet):
Start Sample Date/Time: 1455
End Sample Date/Time: 1458
Sampler Name: TF

COLLECT READINGS AT THE START OF PURGING, AFTER EACH AND EVERY WELL VOLUME IS PURGED, AND AFTER SAMPLING IS COMPLETED.

Time	Rate (gal/min)	Cumulative Gallons Purged	pH (SI Units)	Conductivity (µohms/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mv)	Depth to Water (ft)	Comments
1430	200 ml	2.5	5.90	0.267	21.72	0.05	2.35	-2.05		
1439		5	5.88	0.269	21.79	0.04	2.14	-58.1		
1450		7	5.88	0.269	21.81	0.03	1.85	-36.5		

PURGING AND BAILING GROUNDWATER SAMPLING FORM
MCB Camp LeJeune and New River MCAS

Project Number: NV007
Project Name: BCAL 45
Date: 11/4/85
Weather:

Well ID: MW20
Sample ID:
Well Condition:

ALL DEPTHS ARE TO BE COLLECTED FROM THE TOP OF THE CASING.

Protective Casing Diameter (inch):
Inner Casing Diameter (inch): 2
Inner Casing Material:
Purge/Sample Method:
PID/FID Reading of Well Headspace (ppm)
Before Cap Removal:
After Cap Removal:
Depth to Product from TOC (feet):
Initial Depth to Water from TOC (feet): 2.60
Product Thickness (feet):
Depth to Top of Screen from TOC (feet):
Total Depth from TOC (feet): 15.68

Water Column (feet): 13.08
Casing Volume (gal): (.163) 2.13
Pump Intake Setting from TOC (feet):
DTW After Pump Installed:
Start Purge Date/Time: 1220
End Purge Date/Time:
Total Volume Purged (gal): (6.39)
Depth to Water After Purge from TOC (feet):
Pre-Sample Depth to Water from TOC (feet):
Start Sample Date/Time: 1245
End Sample Date/Time:
Sampler Name:

COLLECT READINGS AT THE START OF PURGING, AFTER EACH AND EVERY WELL VOLUME IS PURGED, AND AFTER SAMPLING IS COMPLETED.

Time	Rate (gal/min)	Cumulative Gallons Purged	pH (SI Units)	Conductivity (µohms/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mv)	Depth to Water (ft)	Comments
1229	200 ml	2.5	6.38	0.278	22.35	0.07	+.84	-26.5		
1236		5	6.36	0.274	22.45	0.05	2.59	-48.0		
1243		7	6.33	0.270	22.48	0.03	2.62	-54.9		

PURGING AND BAILING GROUNDWATER SAMPLING FORM
MCB Camp LeJeune and New River MCAS

Project Number: NV008 / CTO 0007
Project Name: Bldg 45
Date: 10/27/05
Weather: L - H

Well ID:
Sample ID: UST45'594' - MW21
Well Condition:

ALL DEPTHS ARE TO BE COLLECTED FROM THE TOP OF THE CASING.

Protective Casing Diameter (inch):
Inner Casing Diameter (inch): 2"
Inner Casing Material:
Purge/Sample Method:
PID/FID Reading of Well Headspace (ppm)
Before Cap Removal:
After Cap Removal:
Depth to Product from TOC (feet):
Initial Depth to Water from TOC (feet): 12.40
Product Thickness (feet):
Depth to Top of Screen from TOC (feet):
Total Depth from TOC (feet): 48.92

Water Column (feet): 36.52
Casing Volume (gal): 5.95
Pump Intake Setting from TOC (feet):
DTW After Pump Installed:
Start Purge Date/Time: 1138
End Purge Date/Time:
Total Volume Purged (gal): (17.85)
Depth to Water After Purge from TOC (feet):
Pre-Sample Depth to Water from TOC (feet):
Start Sample Date/Time:
End Sample Date/Time: 1255
Sampler Name:

COLLECT READINGS AT THE START OF PURGING, AFTER EACH AND EVERY WELL VOLUME IS PURGED, AND AFTER SAMPLING IS COMPLETED.

Time	Rate (gal/min)	Cumulative Gallons Purged	pH (SI Units)	Conductivity (µohms/cm)	Temp (°C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mv)	Depth to Water (ft)	Comments
1212	200 ml	6	4.80	0.244	19.41	0.29	1.02	150.4		
1232		12	4.81	0.234	19.38	0.33	0.54	109.9		
1252		18	4.81	0.229	19.33	0.20	0.25	90.5		