

FINAL
ANNUAL GROUNDWATER MONITORING REPORT 2007-2008
BUILDING LCH-4015

NCDENR Incident Number: 85352
Marine Corps Base
Camp Lejeune, North Carolina

27 June 2008

Prepared for:



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Contract Number: N62470-04-D-0205
Task Order: 0018

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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 site is located aboard MCB Camp Lejeune in Onslow County, North Carolina. The project site is located within the Midway Park Community Center area and consists of the community center building (LCH-4014), former fueling and maintenance area (LCH-4015, removed), Marine Corps Exchange Convenience Store (LCH-4034), and the former fuel tank farm. The site is located at the intersection of North Carolina Highway 24 and the Butler Drive entrance to Midway Park.

A former aboveground storage tank (AST) system began operation in 1945 at the site. The AST system consisted of two 14,000-gallon gasoline tanks that supplied fuel to four gasoline dispensers located on a pump island to the north of former Building LCH-4015, one 14,000-gallon diesel tank that supplied fuel to a dispenser located on the north side of Building LCH-4015, and one 3,000-gallon Number 2 fuel oil tank that supplied fuel oil to a boiler contained within Building LCH-4014. A number of smaller storage tanks were also located at the site. Fuel was distributed through a number of underground product piping systems. In 1990, the ASTs at former Building LCH-4015 were emptied of product, and the three 14,000-gallon ASTs were removed and relocated for use at other locations on the base.

Site assessments were performed from 1994 – 1996 by R.E. Wright Associates, Inc., and Law Engineering and Environmental Services, Inc. Groundwater samples from the monitoring wells and soil samples in the vicinity of the former AST system contained evidence of petroleum impact exceeding North Carolina State standards. In 1996, a corrective action plan (CAP) was prepared for the site, which recommended installation of a biosparge and soil vapor extraction (BS/SVE) system for the remedial action at the site. The treatment system was constructed and began operation in November 1998.

Various remediation contractors have maintained and operated the site since 1998, including J.A. Jones Environmental Services, Inc. (J.A. Jones), Shaw Environmental and Infrastructure, Inc. (Shaw), and Engineering and Environment, Inc. (EEI). During the monitoring period of June 2006 – May 2007, Sovereign Consulting Inc. (Sovereign) operated and maintained the remediation system and conducted monitoring well gauging and sampling of site monitoring wells. Monitoring wells MW01-MW24 were gauged on a semi-annual basis, with the exception of MW17. This monitoring well was previously lost during construction activities and has not been reinstalled. Groundwater samples from site monitoring wells (MW01, MW02, MW03, MW05, MW08, MW11, MW13, MW14, MW18, MW19, MW20, MW21, MW22, MW23, and MW24) were also collected. Analyses run included EPA Methods 602 + Xylenes, 625 + 10 largest non-target peaks, and 3030C for lead in accordance with the program scope of work.

No measurable free product was identified during the 2006-2007 monitoring period. One volatile and four semi-volatile compounds were detected at the site above North Carolina Groundwater Quality Standards (NCGWQSs). Those contaminants were benzene, bis(2-ethylhexyl)phthalate, 1-methylnaphthalene, 2-methylnaphthalene, and naphthalene. All other target analytes were below 2L standards. Exceedences were in shallow (MW01, MW02, MW03, and MW24) and intermediate (MW21 and MW23) monitoring wells.

Petroleum constituent concentrations, while above NCGWQSs, have decreased over time, indicating that operation of the biosparge/soil vapor extraction system benefited groundwater quality at the site.

During the current monitoring period (June 2007 through May 2008), Sovereign Consulting Inc. (Sovereign) conducted monitoring well gauging of 23 wells MW01-MW24 (MW-17 cannot be located for monitoring) in July 2007 and January 2008. Twenty three monitoring wells were sampled in July 2007 and eleven monitoring wells were sampled in January 2008. Analyses run included EPA Methods 602 + Xylenes, 625 + 10 largest non-target peaks, and 3030C for lead in accordance with the program scope of work.

One volatile and two semi-volatile compounds were detected at the site above North Carolina Groundwater Quality Standards (NCGWQSs) during the July 2007 and January 2008 sampling events. Those contaminants were benzene, bis (2-ethylhexyl) phthalate, and naphthalene. All other target analytes were below 2L standards. Exceedences were in shallow (MW01, MW02 and MW03) and intermediate (MW21 and MW23) monitoring wells. Petroleum constituent concentrations, while above NCGWQSs, have decreased over time, indicating that operation of the biosparge/soil vapor extraction system benefited groundwater quality at the site.

The August 2007 groundwater sampling event was canceled and a soil investigation was conducted instead to examine boring locations with historical exceedances of the state action levels of 40 mg/kg for TPH-DRO and 10 mg/kg for TPH-GRO. Three soil boring locations had exceedances of the State action limits: SB36A, 37A and 38A. Soil boring analysis indicates relatively shallow soil contamination (from the surface to less than 4 ft bgs). Therefore, as recommended, the soil with contaminant concentrations above state action level was excavated on February 11, 2008 and disposed of at a licensed disposal facility and replaced with clean backfill. This effectively eliminated any soil contamination within the influence of the AS/SVE system that remained in place with contaminant concentrations above State action levels.

Sovereign recommends resuming sampling of the site groundwater for EPA Methods 602 and 625. Sampling for Lead should be discontinued per previous NCDENR approval. Sampling should be done on an annual basis until all site monitoring wells have groundwater contaminant concentrations under the 2L NCGWQSs.

Finally, maintaining operation of the AS/SVE system should be continued until a request for cessation can be made to NCDENR based on the removal of residual impacted soil as discussed.

1.0 TITLE PAGE

DATE OF REPORT: 14 June 2008

Facility I.D.: N/A

NCDENR Incident Number: 85352

Site Name: LCH 4015

Site Location: Marine Corps Base Camp Lejeune, North Carolina

Nearest City/Town: Camp Lejeune County: Onslow

Property Owner: Commanding Officer – MCB Camp Lejeune

I&E/EMD/EQB

PSC Box 20004

Address: MCB Camp Lejeune, NC 28542-0004

Phone: (910) 451-5068

Tank Owner: Same as above

Address: Same as above

Phone: Same as above

Property Occupant: Same as above

Address: MCB Camp Lejeune, NC

Phone: None

Consultant/Contractor: Sovereign Consulting Inc.

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

Phone: (757) 456-5093

Release Information

Date Discovered: 1994

Estimated Quantity of Release: Unknown

Cause of Release: Leaking aboveground storage tank system

Source of Release (Piping/AST): AST

Sizes and contents of UST system(s) from which the release occurred: The former system was two 14,000-gallon gasoline aboveground storage tanks, one 14,000-gallon diesel oil aboveground storage tank, one 3,000-gallon No.2 fuel oil AST, a number of smaller tanks, and associated underground product piping.

I, Kevin P. Wheeler a Professional Geologist 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 LCH-4015 remediation site aboard MCB Camp Lejeune, North Carolina. This data was collected for the reporting period of June 2007 through May 2008. The project's scope of work entailed semi-annual gauging and groundwater sampling of 23 site monitoring wells (each are preceded by the prefix USTLCH4015) - MW01-MW24 (MW-17 cannot be located for monitoring). Analyses run included EPA Methods 602 + Xylenes, 625 + 10 largest non-target peaks, and 3030C for Lead. The results of Sovereign's 2007-2008 gauging and sampling events are presented in this report.

3.0 SITE HISTORY

The site is located aboard MCB Camp Lejeune in Onslow County, North Carolina (Figure 1). The project site consists of the Community Center Building (LCH-4014), former fueling and maintenance area (LCH-4015, removed), Marine Corps Exchange Convenience Store (LCH-4034), and the former fuel tank farm. The site is located at the intersection of North Carolina Highway 24 and the Butler Drive entrance to Midway Park.

A former aboveground storage tank (AST) system began operation in 1945 at the site. The AST system consisted of two 14,000-gallon gasoline tanks that supplied fuel to four gasoline dispensers located on a pump island to the north of former Building LCH-4015, one 14,000-gallon diesel tank that supplied fuel to a dispenser located on the north side of Building LCH-4015, and one 3,000-gallon Number 2 fuel oil tank that supplied fuel oil to a boiler contained within Building LCH-4014. A number of smaller storage tanks were also located at the site. Fuel was distributed through a number of underground product piping systems. In 1990, the ASTs at former Building LCH-4015 were emptied of product, and the three 14,000-gallon ASTs were removed and relocated for use at other locations on the base.

Site assessments were performed from 1994 – 1996 by R.E. Wright Associates, Inc., and Law Engineering and Environmental Services, Inc. Groundwater samples from the monitoring wells and soil samples in the vicinity of the former AST system contained evidence of petroleum impact exceeding North Carolina state standards.

In 1996, a corrective action plan (CAP) was prepared for the site by Law Engineering and Environmental Services, Inc. The CAP identified target clean-up levels for soil of 40 milligrams per kilogram (mg/kg) for Total Petroleum Hydrocarbons as Gasoline (TPH-GRO) and 160 mg/kg for Total Petroleum Hydrocarbons as Diesel (TPH-DRO). Groundwater target clean-up levels were set at the North Carolina Groundwater Quality Standards (NCGWQSs). The CAP recommended installation of a BS/SVE system for the remedial action at the site.

The treatment system was constructed by J.A. Jones and began remediation activities in November 1998. The groundwater treatment system has operated continuously since 1998, with the exception of occasional maintenance repairs and groundwater sampling events. Presently, 23 monitoring wells are included in gauging and sampling events.

Additional assessment work has been conducted at the site in the last several years. First, NCDENR requested that three intermediate depth wells (MW21 – MW23) be installed to further delineate the vertical extent of groundwater contamination. Monitoring well installation took place in June 2001. In addition, three underground storage tanks were removed from the site in 2002. Subsequent soil and groundwater assessment work in the former UST area concluded that soils did not require remediation as contaminant levels were below residential MSCCs. Affected soils were also within the influence of the current SVE system. In addition, there was no free product. Groundwater contamination near the former UST basin was also within the influence of the current system layout; therefore, additional groundwater remediation was not recommended. The former UST basin assessment was conducted as a result of recommendations made in an optimization report conducted by CATLIN in 2004. Results are contained in the *CATLIN Report of Findings (ROF) for Soil and Free Phase Product*, dated December 2004. NCDENR requested that groundwater be delineated in a NORR letter dated June 14, 2004. Data from the ROF report was used to evaluate where to install additional monitoring wells that would define the groundwater contamination. As a result, one shallow monitoring well (MW-24) was installed in the immediate vicinity of former USTs LCH-4034-1, LCH 4034-2, and LCH 4034-3 in February 2005. The monitoring well was subsequently incorporated into the monitoring program. Overall, the 2004 optimization report concluded that the system has been effective in reducing petroleum constituent concentrations in the upper portion of the contaminant plume and should continue operation in order to maintain influence.

Monitoring and maintenance of the remediation system at the LCH 4015 site has continued from installation in 1998 to the present. The system was temporarily deactivated in early June 2007; but the AS/SVE system was reactivated on August 31, 2007 as a result of the NOV issued for the site. The August 2007 groundwater sampling event was canceled and a soil investigation was conducted instead to examine boring locations with historical exceedances of the State action levels of 10 mg/kg for TPH-GRO and 40 mg/kg for TPH-DRO. Three soil boring locations had exceedances of the state action limits: SB36A, 37A and 38A. Therefore, soils with contaminant concentrations above state action levels were excavated and disposed of at a licensed disposal facility and replaced with clean backfill. This effectively eliminated any soil contamination within the influence of the AS/SVE system that remained in place with contaminant concentrations above State action levels.

Two rounds of sampling and gauging for twenty-three monitoring wells were completed at this site. This report outlines and describes such activities as performed by Sovereign from June 2007 – May 2008.

4.0 REMEDIATION SYSTEM OPERATION AND MAINTENANCE

The LCH-4015 remediation system includes 38 vertical biosparge wells and five soil vapor extraction wells. The biosparge wells reportedly were installed with a 1.5 to 3.5 feet screen interval ranging from 4.5 to 8.0 feet bgs. The soil vapor extraction wells consist of a two-inch diameter 0.02-inch slot width PVC horizontal well screen reportedly to be installed slightly above the shallow groundwater table. The system has been operational since it was installed in 1998. Figure 2 illustrates the current remedial system layout.

The system generally operated continuously except during equipment servicing/repair, power outages, and high level water alarms, with the exception of the period of temporary deactivation from June through August 2007. The remediation system was also temporarily deactivated prior to each groundwater gauging and sampling event and then re-started following field activities. There were no non-routine service calls made for the system during this monitoring period.

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 (PID) readings were recorded weekly during the monitoring period. PID readings taken of system exhaust air have been 0.0 parts per million throughout the year. 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 May 2008.

Monitoring 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 LCH-4015 site consisted of semi-annual gauging, as well as groundwater sampling. Activities were conducted in accordance with NCDENR guidance.

5.1 MONITORING WELL GAUGING

Monitoring wells MW01 through MW24 (MW17 cannot be located) were gauged semi-annually in July 2007 and January 2008. Gauging data is summarized in Tables 2 and 3. Monitoring wells were gauged using an interface probe to measure the depth to water and depth to product (if present). No measurable free product was detected at any site monitoring well designated for gauging during the 2007-2008 monitoring program.

Top of casing elevations and DTW values were used to obtain groundwater elevations at the site, as shown in Figures 3-6. From the shallow groundwater elevation contour maps, overall groundwater flow is into the site from the east and away to the north and west, which is generally consistent with previous site data. The westerly direction of flow away from the site during this monitoring period, however, was slightly different, as compared to a southwesterly direction in previous years. Areas of relatively elevated groundwater are observed in the central and southeastern portion of the site. Intermediate well groundwater elevation maps show a southwesterly flow, which is opposite of that seen in recent years.

5.2 GROUNDWATER SAMPLING

Semi-annual groundwater sampling was also conducted at the site. Samples were collected during sampling events in July 2007 and January 2008. Twenty three monitoring wells MW01- MW24 (MW-17 cannot be located for monitoring) were sampled in the July 2007 event. Ten monitoring wells (MW01, MW02, MW03, MW13, MW19, MW20, MW21, MW22, MW23 and MW24) were sampled for the January 2008 event per the contract task order scope of work.

Prior to sampling, monitoring wells were purged of a minimum of one casing volume, until water quality parameters (pH, temperature, conductivity, oxidation-reduction potential, dissolved oxygen, and turbidity) stabilized. Sampling was conducted using a peristaltic pump with connected polyethylene discharge tubing and a low flow purging and sampling procedure.

Water quality indicator parameters (pH, temperature, conductivity, oxidation-reduction potential, dissolved oxygen, and turbidity) were measured and recorded. If a monitoring well purged to dryness, the monitoring well was allowed to recharge before sampling. Samples were collected using the laboratory-prepared sample bottles, placed on ice, and shipped under proper chain of custody to SGS-Paradigm Analytical Laboratories Inc. (SGS-Paradigm) in Wilmington, North Carolina (NC Certification Number 481). Analyses run included EPA Methods 602 + Xylenes, 625 + 10 largest non-target peaks, and 3030C for Lead. Laboratory reports and chain of custody documentation are included in Appendix B.

Sovereign Monitoring Data 2007-2008

One volatile compound was detected above groundwater standards – benzene. Noncompliant benzene concentrations were detected in (shallow and intermediate) monitoring wells MW01, MW02, MW21 and MW23. Groundwater at the site also exhibited DIPE, ethylbenzene, MTBE Toluene and Total Xylenes; however, the detected concentrations were all well below the NCGWQSs. EPA Method 602 results are summarized in Table 4.

Six semi-volatile contaminants, acenaphthene, bis(2-ethylhexyl)phthalate, diethylphthalate, fluorene, naphthalene and 2,4-Dinitrotoluene were detected at the site. Only two of those six compounds were detected above their applicable groundwater quality standards – bis(2-ethylhexyl)phthalate, and naphthalene,. Bis(2-ethylhexyl)phthalate was present above the groundwater quality standard in monitoring wells MW01 and MW03. Bis(2-ethylhexyl)phthalate is not typical of petroleum contamination and is widely used as a plasticizer in manufacturing of PVC. The compound may have leached into the water that was in contact with the plastic in the monitoring well. Naphthalene was present above the groundwater quality standard (21 µg/L) in monitoring wells MW01, MW02 and MW21 during both the July 2007 and January 2008 events.

Although TICs were present in each of the monitoring wells, not all TICs are identified and quantitated using individual standards. Additionally, many TICs are reported as compound

isomers or unknown because they cannot be identified as specific compounds with match probabilities. Due to the uncertainties associated with TICs, it is impossible to draw any conclusions based upon their presence. The laboratory reports in Appendix B contain TIC summaries for each monitoring well. Table 5 summarizes semi-volatile lab results.

Monitoring wells MW01, MW02, MW06, MW14 and MW20 exhibited low concentrations of lead. None of the detections, however, were above the NCGWQS of 15 µg/L. Lead was last detected above the NCGWQS in monitoring well MW21 (November 2005) at 18.8 µg/L. Lead results can be found in Table 6.

Historical Data Synopsis

Historical information, summarized in the 2004 CATLIN optimization report, coupled with recent (2004-2007) data shows that groundwater contamination continues to decrease at the site. Benzene and naphthalene are present in site groundwater just above their applicable standards. In the following tables, maximum contaminant concentrations detected at the site are compared over time. An over all decrease in contaminant concentrations is observed. The Note that **BOLD** text indicates NCGWQS exceedences.

Maximum Concentrations (µg/L)
Type II Monitoring Wells

Compound	NCGWQS (µg/L)	GCL (µg/L)	1995 (CAP)	2003	2004	2005	2006	2006- 2007	2007- 2008
Benzene	1	5,000	8,850	297	131	48.1	45.5	12.0	7.75
Ethylbenzene	550	84,500	2,070	420	439	270	179	118	31.7
Total Xylenes	530	87,500	9,960	1,070	704	659	370	191.2	39.93
Toluene	1,000	257,500	256	95.3	27.5	14.8	10.1	5.21	1.30J
Naphthalene	21	15,500	677	170	216	165	111	45.5	20.3
1-Methylnaphthalene	NE	NE	271	36.8	34.5	23.1	7.9¹	11.1	BQL
2-Methylnaphthalene	14	12,500	345	47	49	34.2	<10¹	16.4	BQL
Lead	15	15,000	42.7	NA	7.7	<10	0.6	2.33J	1.38

¹Note = 2006 data only from MW08 and MW11

**Maximum Concentrations (µg/L)
Type III Monitoring Wells**

Compound	NCGWQS (µg/L)	GCL (µg/L)	1995 (CAP)	2003	2004	2005	2006	2006- 2007	2007- 2008
Benzene	1	5,000	0.4	33.8	73.9	47.1	25.9	122	8.42
Ethylbenzene	550	84,500	0.5	505E	5	4.2	3.05	3.51J	BQL
Total Xylenes	530	87,500	1.9	16.9	2.7J	<3.0	0.632J	5.74J	BQL
Toluene	1,000	257,500	1.0	2.1	2.0	1.1	<1.00	5.17	BQL
Naphthalene	21	15,500	ND	<5.1	15.3	32.3	31.7	54.3	44.3
1-Methylnaphthalene	NE	NE	3.8	< 5.1	< 5.1	2.6J	NR	BQL	BQL
2-Methylnaphthalene	14	12,500	ND	<5.1	2.1J	2.8J	NR	BQL	BQL
Lead	15	15,000	20.6	NA	7.7	18.8	2.28	1.90J	BQL

1995 and 2003 data from 2004 Catlin optimization report

2004-2005 data from EEI Annual Monitoring Report

BQL = Below Quantitation Limit

ND = Not Detected

NE = Not Established

NR = Not Reported

E = Estimated concentration above the linear quantitation range

J = Estimated concentration less than reporting limit

Historical groundwater quality data is located in Appendix A.

6.0 RECEPTOR SURVEY

Sovereign reassessed site conditions and concluded that the receptor survey previously completed by CATLIN in the RAO & RCAP dated May 6, 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.

7.0 CONCLUSIONS AND RECOMMENDATIONS

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

1. Vadose zone soils at the site were effectively remediated during the soil removal action conducted in the Spring of 2008, through removal and replacement with clean backfill. No further remediation should be required at this time.
2. Shallow surficial groundwater aquifer flow is into the site from the east and away from the site to the north and west. Intermediate well groundwater elevation maps show a southwesterly flow.
3. No measurable free product was observed at any site monitoring well during the monitoring period.

4. VOCs and semi-VOCs are present in shallow and intermediate groundwater monitoring wells at concentrations above NCGWQSs.
5. Petroleum constituent concentrations, while above NCGWQSs, have decreased over time.
6. PID readings of system exhaust indicate 0.0 ppm when measuring for volatile organic compounds.

One volatile and two semi-volatile compounds were detected at the site above North Carolina Groundwater Quality Standards (NCGWQSs) during the July 2007 and January 2008 sampling events. Those contaminants were benzene, bis (2-ethylhexyl) phthalate, and naphthalene. All other target analytes were below 2L standards. Exceedences were in shallow (MW01, MW02 and MW03) and intermediate (MW21 and MW23) monitoring wells. Petroleum constituent concentrations, while above NCGWQSs, have decreased over time, indicating that operation of the biosparge/soil vapor extraction system benefited groundwater quality at the site.

The August 2007 groundwater sampling event was canceled and a soil investigation was conducted instead to examine boring locations with historical exceedances of the state action levels of 40 mg/kg for TPH-DRO and 10 mg/kg for TPH-GRO. Three soil boring locations had exceedances of the State action limits: SB36A, 37A and 38A. Soil boring analysis indicates relatively shallow soil contamination (from the surface to less than 4 ft bgs). Therefore, as recommended the soil with contaminant concentrations above state action levels was excavated on February 11, 2008 and disposed of at a licensed disposal facility and replaced with clean backfill. This effectively eliminated any soil contamination within the influence of the AS/SVE system that remained in place with contaminant concentrations above State action levels.

Sovereign recommends resuming sampling of the site groundwater for EPA Methods 602 and 625 in 12 monitoring wells (USTLCH4014-MW01, USTLCH4015-MW02, USTLCH4015-MW04, USTLCH4015-MW05, USTLCH4015-MW16, and USTLCH4015-MW18 through USTLCH4015-MW24). Sampling for Lead should be discontinued per previous approval from NCDENR. This should be done on an annual basis until all site monitoring wells have groundwater contaminant concentrations under the 2L NCGWQSs.

Finally, maintaining operation of the AS/SVE system should be continued until a request for cessation can be made to NCDENR based on the removal of residual impacted soil as discussed.

8.0 REFERENCES

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

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TABLES

TABLE 1
WELL CONSTRUCTION INFORMATION
Incident Number and Name: 85352, Building LCH 4015

Monitoring Well	Date Installed	Measured Well Depth (feet below TOC)	Top of Casing Elevation (feet)	Hydrogeologic Zone
LCH4015-MW01	11/1/1994	14.87	32.53	Shallow
LCH4015-MW02	11/1/1994	12.23	31.69	Shallow
LCH4015-MW03	11/1/1994	15.31	34.70	Shallow
LCH4015-MW04	11/1/1994	15.39	35.29	Shallow
LCH4015-MW05	11/2/1994	11.05	20.56	Shallow
LCH4015-MW06	6/14/1995	12.12	31.80	Shallow
LCH4015-MW07	6/14/1995	12.10	32.38	Shallow
LCH4015-MW08	6/14/1995	12.47	31.38	Shallow
LCH4015-MW09	6/13/1995	12.12	30.91	Shallow
LCH4015-MW10	6/14/1995	12.03	30.89	Shallow
LCH4015-MW11	6/14/1995	12.00	31.77	Shallow
LCH4015-MW12	6/28/1995	11.75	31.87	Shallow
LCH4015-MW13	6/26/1995	47.62	31.97	Deep
LCH4015-MW14	6/28/1995	11.88	32.04	Shallow
LCH4015-MW15	6/28/1995	11.90	31.90	Shallow
LCH4015-MW16	6/28/1995	11.64	32.26	Shallow
LCH4015-MW17	6/29/1995	Well Lost	Well Lost	Shallow
LCH4015-MW18	6/15/1995	12.03	32.60	Shallow
LCH4015-MW19	6/15/1995	51.00	32.62	Deep
LCH4015-MW20	6/20/1995	47.90	31.83	Deep
LCH4015-MW21	6/6/2001	30.20	32.64	Intermediate
LCH4015-MW22	6/7/2001	31.95	31.72	Intermediate
LCH4015-MW23	6/6/2001	32.05	32.55	Intermediate
LCH4015-MW24	2/25/2005	14.40	31.24	Shallow

TOC Elevations taken from Sovereign Consulting Monitoring Well Survey Database – January 2007

TABLE 2
GROUNDWATER ELEVATION DATA

Incident Number and Name: 85352 – Building LCH 4015

Monitoring Well	Top of Casing Elevation (feet)	Groundwater Elevation (feet)	
		7/23/2007	1/23/2008
LCH4015-MW01	32.53	29.35	29.67
LCH4015-MW02	31.69	30.08	30.13
LCH4015-MW03	34.70	29.03	29.79
LCH4015-MW04	35.29	27.91	26.55
LCH4015-MW05	20.56	17.94	18.05
LCH4015-MW06	31.80	28.82	29.08
LCH4015-MW07	32.38	28.80	30.64
LCH4015-MW08	31.38	28.48	29.71
LCH4015-MW09	30.91	28.61	29.79
LCH4015-MW10	30.89	29.43	30.52
LCH4015-MW11	31.77	27.67	28.39
LCH4015-MW12	31.87	27.36	28.17
LCH4015-MW13	31.97	10.90	8.65
LCH4015-MW14	32.04	27.43	27.98
LCH4015-MW15	31.90	28.16	27.98
LCH4015-MW16	32.26	29.35	31.77
LCH4015-MW17	Well Lost	Not Calculated	Not Calculated
LCH4015-MW18	32.60	30.24	30.99
LCH4015-MW19	32.62	11.04	8.92
LCH4015-MW20	31.83	11.08	5.23
LCH4015-MW21	32.64	11.15	8.82
LCH4015-MW22	31.72	11.00	8.60
LCH4015-MW23	32.55	11.24	9.46
LCH4015-MW24	31.24	29.12	29.31

Not Calculated = Elevation not calculated due to insufficient data; MW-17 LOST.

TABLE 3
PRODUCT THICKNESS DATA

Incident Number and Name: 85352 – Building LCH 4015

Monitoring Well	Top of Casing Elevation (feet)	Product Thickness (feet)	
		7/24/2008	1/23/2008
LCH4015-MW01	32.53	--	--
LCH4015-MW02	31.69	--	--
LCH4015-MW03	34.70	--	--
LCH4015-MW04	35.29	--	--
LCH4015-MW05	20.56	--	--
LCH4015-MW06	31.80	--	--
LCH4015-MW07	32.38	--	--
LCH4015-MW08	31.38	--	--
LCH4015-MW09	30.91	--	--
LCH4015-MW10	30.89	--	--
LCH4015-MW11	31.77	--	--
LCH4015-MW12	31.87	--	--
LCH4015-MW13	31.97	--	--
LCH4015-MW14	32.04	--	--
LCH4015-MW15	31.90	--	--
LCH4015-MW16	32.26	--	--
LCH4015-MW17	Well Lost	NM	NM
LCH4015-MW18	32.60	--	--
LCH4015-MW19	32.62	--	--
LCH4015-MW20	31.83	--	--
LCH4015-MW21	32.64	--	--
LCH4015-MW22	31.72	--	--
LCH4015-MW23	32.55	--	--
LCH4015-MW24	31.24	--	--

NM = Well not measured during monitoring event – MW17 lost.

TABLE 4
SUMMARY OF GROUNDWATER SAMPLING RESULTS

Incident Number and Name: 85352 – Building LCH 4015

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						
USTLCH4015-MW01	USTLCH4015-MW01	7/24/2007	9.75	BQL	145	BQL	BQL	293
		1/23/2008	7.75	BQL	31.7	12.6	1.30J	39.93
USTLCH4015-MW02	USTLCH4015-MW02	7/24/2007	3.16	BQL	2.76	BQL	BQL	11.5
		1/24/2008	8.26	BQL	12.3	3.51	1.39	20.5
USTLCH4015-MW03	USTLCH4015-MW03	7/25/2007	BQL	BQL	BQL	BQL	BQL	BQL
		1/24/2008	BQL	BQL	BQL	0.707J	BQL	BQL
USTLCH4015-MW04	USTLCH4015-MW04	7/25/2007	BQL	BQL	BQL	BQL	BQL	BQL
USTLCH4015-MW05	USTLCH4015-MW05	7/25/2007	BQL	BQL	BQL	BQL	BQL	BQL
USTLCH4015-MW06	USTLCH4015-MW06	7/25/2007	BQL	BQL	BQL	BQL	BQL	BQL
USTLCH4015-MW07	USTLCH4015-MW07	7/24/2007	BQL	BQL	BQL	BQL	BQL	BQL
USTLCH4015-MW08	USTLCH4015-MW08	7/25/2007	BQL	BQL	BQL	BQL	BQL	BQL
USTLCH4015-MW09	USTLCH4015-MW09	7/25/2007	BQL	BQL	BQL	BQL	BQL	BQL
USTLCH4015-MW10	USTLCH4015-MW10	7/25/2007	BQL	BQL	BQL	0.587	BQL	BQL
USTLCH4015-MW11	USTLCH4015-MW11	7/25/2007	BQL	BQL	5.04	BQL	BQL	BQL
USTLCH4015-MW12	USTLCH4015-MW12	7/23/2007	BQL	BQL	BQL	BQL	BQL	BQL
USTLCH4015-MW13	USTLCH4015-MW13	7/23/2007	BQL	BQL	BQL	BQL	BQL	BQL
		1/24/2008	BQL	BQL	BQL	BQL	BQL	BQL
USTLCH4015-MW14	USTLCH4015-MW14	7/23/2007	BQL	BQL	BQL	BQL	BQL	BQL
USTLCH4015-MW15	USTLCH4015-MW15	7/24/2007	BQL	BQL	BQL	BQL	BQL	BQL
USTLCH4015-MW16	USTLCH4015-MW16	7/24/2007	BQL	BQL	BQL	BQL	BQL	BQL
USTLCH4015-MW18	USTLCH4015-MW18	7/24/2007	BQL	BQL	BQL	BQL	BQL	BQL
USTLCH4015-MW19	USTLCH4015-MW19	7/24/2007	BQL	BQL	BQL	BQL	BQL	BQL
		1/24/2008	BQL	BQL	BQL	BQL	BQL	BQL
USTLCH4015-MW20	USTLCH4015-MW20	7/24/2007	BQL	BQL	BQL	BQL	BQL	BQL
		1/24/2008	BQL	BQL	BQL	0.812J	BQL	BQL
USTLCH4015-MW21	USTLCH4015-MW21	7/24/2007	21.0	0.378	1.31	19.4	BQL	BQL
		1/24/2008	26.0	1.18J	2.05	19.3	BQL	BQL
USTLCH4015-MW22	USTLCH4015-MW22	7/24/2007	BQL	BQL	BQL	BQL	BQL	BQL
		1/24/2008	BQL	BQL	BQL	3.35	BQL	BQL

Contaminant of Concern			Benzene	Diisopropyl ether (DIPE)	Ethylbenzene	Methyl-tert butyl ether (MTBE)	Toluene	Total Xylenes
Well ID	Sample ID	Date Collected						
USTLCH4015-MW23	USTLCH4015-MW23	7/24/2007 1/23/2008	46.3 8.42	3.24 4.09	BQL BQL	42.3 27.4	BQL BQL	BQL BQL
USTLCH4015-MW24	USTLCH4015-MW24	7/25/2007 1/24/2008	BQL BQL	BQL BQL	BQL BQL	BQL BQL	BQL BQL	BQL BQL
Duplicate	Duplicate	7/24/2007 1/24/2008	46.2 BQL	3.21 BQL	BQL BQL	44.9 0.850J	BQL BQL	BQL BQL
2L Standard (µg/l)			1	70	550	200	1,000	530

- 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
- **J** = Detected below quantitation limits

TABLE 5
SUMMARY OF GROUNDWATER SAMPLING RESULTS

Incident Number and Name: 85352 – Building LCH 4015

Facility ID#: N/A

Analytical Method: EPA Method 625

[illegible]

Contaminant of Concern			Acenaphthene	Acenaphthylene	Bis(2-ethylhexyl)phthalate	Diethylphthalate	Di-n-octylphthalate	Fluorene	2,4-Dinitrotoluene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene	Tentatively Identified Compounds (TICs)	All Other Compounds
Well ID	Sample ID	Date Collected												
MW14	MW14													
USTLCH4015-MW15	USTLCH4015-MW15	7/24/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	15.97	BQL
USTLCH4015-MW16	USTLCH4015-MW16	7/24/2007	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	34.54	BQL
USTLCH4015-MW18	USTLCH4015-MW18	7/24/2007	BQL	BQL	BQL	BQL	BQL	1.30J	BQL	BQL	BQL	BQL	30.09	BQL
USTLCH4015-MW19	USTLCH4015-MW19	7/24/2007 1/24/2008	2.20J 12.7	BQL BQL	BQL BQL	BQL BQL	BQL BQL	BQL BQL	BQL 20.3	BQL BQL	BQL BQL	BQL BQL	34.47 BQL	BQL BQL
USTLCH4015-MW20	USTLCH4015-MW20	7/24/2007 1/24/2008	BQL BQL	BQL BQL	BQL BQL	BQL BQL	BQL BQL	BQL BQL	BQL BQL	BQL BQL	BQL BQL	BQL BQL	27.83 BQL	BQL BQL
USTLCH4015-MW21	USTLCH4015-MW21	7/24/2007 1/24/2008	BQL BQL	BQL BQL	BQL BQL	BQL BQL	BQL BQL	BQL BQL	BQL BQL	BQL BQL	BQL BQL	BQL 41.8 44.3	98.77 97.2	BQL BQL
USTLCH4015-MW22	USTLCH4015-MW22	7/24/2007 1/24/2008	BQL BQL	BQL BQL	BQL BQL	BQL BQL	BQL BQL	BQL BQL	BQL BQL	BQL BQL	BQL BQL	BQL BQL	32.98 BQL	BQL BQL
USTLCH4015-MW23	USTLCH4015-MW23	7/24/2007 1/23/2008	BQL BQL	BQL BQL	BQL BQL	BQL BQL	BQL BQL	BQL BQL	BQL BQL	BQL BQL	BQL BQL	BQL BQL	78.4 7.16	BQL BQL
USTLCH4015-MW24	USTLCH4015-MW24	7/25/2007 1/24/2008	BQL 13.1	BQL BQL	BQL BQL	BQL BQL	BQL BQL	BQL 2.70J	BQL BQL	BQL BQL	BQL BQL	BQL BQL	16.91 131.15	BQL BQL
Duplicate	Duplicate	7/24/2007 1/24/2008	BQL BQL	BQL BQL	BQL BQL	BQL BQL	BQL BQL	BQL BQL	BQL BQL	BQL BQL	BQL BQL	1.20J BQL	45.45 BQL	BQL BQL
2L Standard (µg/l)			80	210	2.5	5,000	140	280		NE	14	21	NE	Vari es

- All results reported in µg/l
- µg/L =micrograms per liter
- GCL = gross contamination level
- BQL = Below Quantitation Limits
- NE = Not Established; standard therefore compared to the reporting limit.
- J = Detected below quantitation limits.

TABLE 6
SUMMARY OF GROUNDWATER SAMPLING RESULTS

Incident Number and Name: 85352 – Building LCH 4015

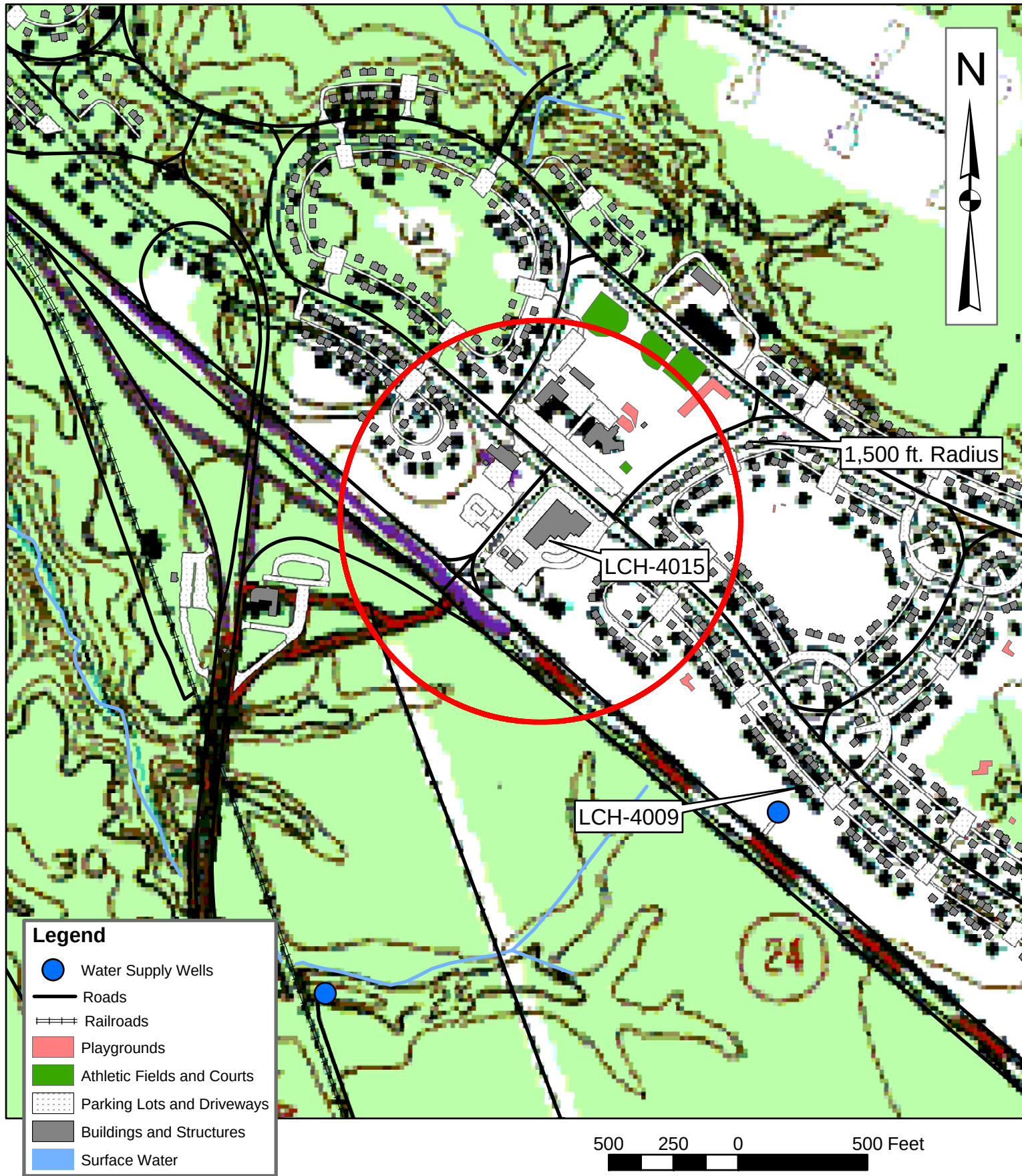
Facility ID#: N/A

Analytical Method: Standard Method 3030C

Contaminant of Concern			Lead
Well ID	Sample ID	Date Collected	
USTLCH4015-MW01	USTLCH4015-MW01	7/24/2007 2/6/2007	BQL BQL
USTLCH4015-MW02	USTLCH4015-MW02	7/24/2007 2/7/2007	BQL BQL
USTLCH4015-MW03	USTLCH4015-MW03	7/25/2007 2/7/2007	BQL BQL
USTLCH4015-MW04	USTLCH4015-MW04	7/25/2007	BQL
USTLCH4015-MW05	USTLCH4015-MW05	7/25/2007	BQL
USTLCH4015-MW06	USTLCH4015-MW06	7/25/2007	4.30J
USTLCH4015-MW07	USTLCH4015-MW07	7/24/2007	BQL
USTLCH4015-MW08	USTLCH4015-MW08	7/25/2007	BQL
USTLCH4015-MW09	USTLCH4015-MW09	7/25/2007	BQL
USTLCH4015-MW10	USTLCH4015-MW10	7/25/2007	BQL
USTLCH4015-MW11	USTLCH4015-MW11	7/25/2007	BQL
USTLCH4015-MW13	USTLCH4015-MW13	7/23/2007 2/6/2007	BQL BQL
USTLCH4015-MW14	USTLCH4015-MW14	7/23/2007	0.775J
USTLCH4015-MW15	USTLCH4015-MW15	7/24/2007	BQL
USTLCH4015-MW16	USTLCH4015-MW16	7/24/2007	BQL
USTLCH4015-MW18	USTLCH4015-MW18	7/24/2007	BQL
USTLCH4015-MW19	USTLCH4015-MW19	7/24/2007 2/6/2007	BQL BQL
USTLCH4015-MW20	USTLCH4015-MW20	7/24/2007 2/7/2007	BQL BQL
USTLCH4015-MW21	USTLCH4015-MW21	7/24/2007 2/6/2007	BQL BQL
USTLCH4015-MW22	USTLCH4015-MW22	7/24/2007 2/7/2007	BQL BQL
USTLCH4015-MW23	USTLCH4015-MW23	7/24/2007 2/6/2007	BQL BQL
USTLCH4015-MW24	USTLCH4015-MW24	7/25/2007 2/7/2007	BQL BQL
Duplicate	Duplicate	7/24/2007 2/6/2007	BQL BQL
2L Standard (µg/l)			15

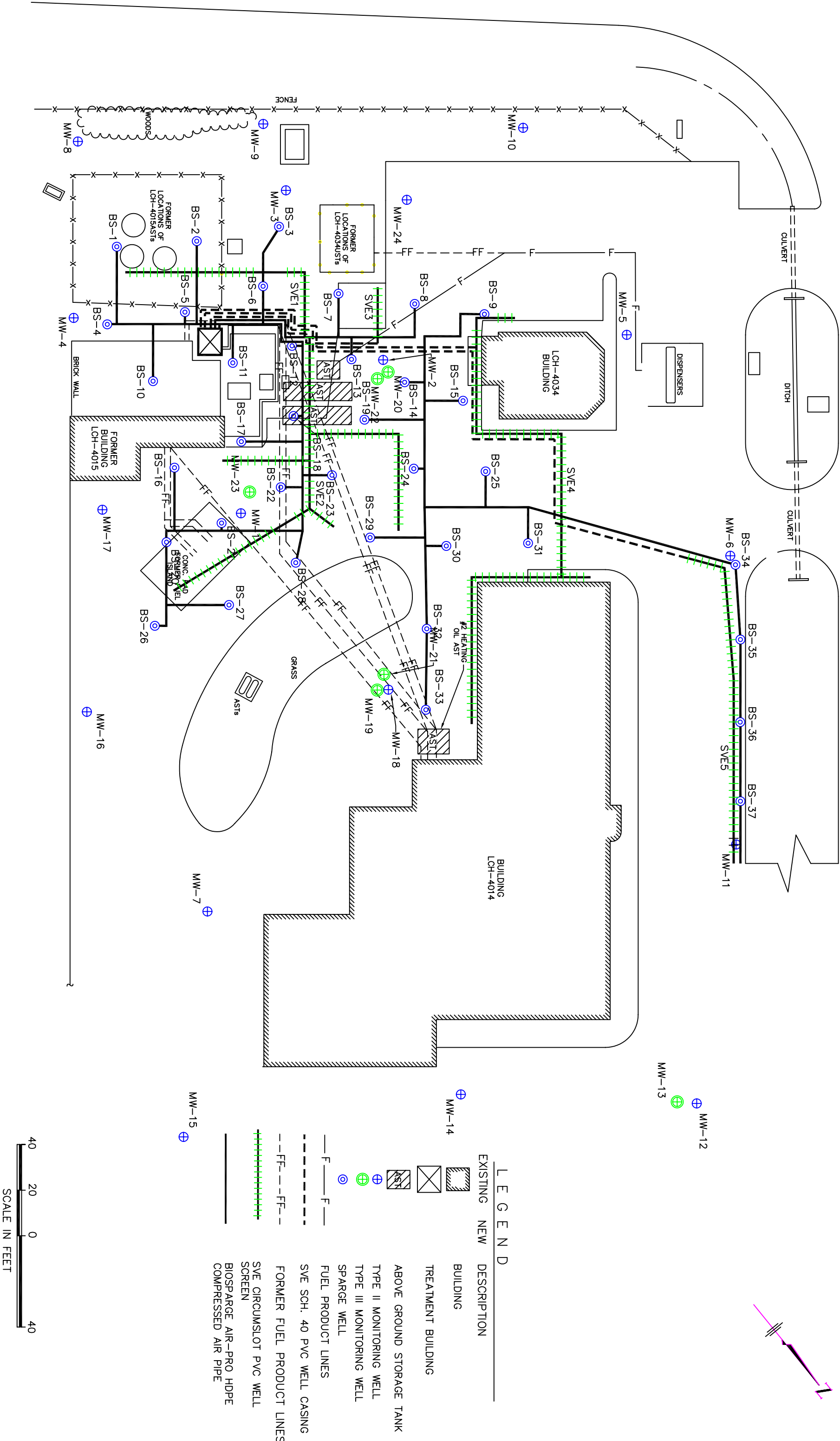
- All results reported in µg/l
- µg/L =micrograms per liter
- GCL = gross contamination level
- BQL = Below Quantitation Limits; laboratory limit of 5.00 µg/l

FIGURES



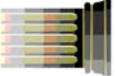
Data Sources: Data Layers provided by MCB Camp Lejeune GIS Office.

 SOVEREIGN CONSULTING INC. VIRGINIA BEACH, VIRGINIA	PROJECT LCH-4015 ANNUAL MONITORING REPORT MARINE CORPS BASE CAMP LEJEUNE, NC		TITLE GENERAL VICINITY TOPOGRAPHIC SITE MAP			FIGURE
	JOB NO. 206-063	DATE MAY 2007	SCALE AS SHOWN	DRAWN BY KAWS	CHECKED BY JAC	1



NOTE:
1. DRAWING ADAPTED FROM SITE MAP/REMEDIAL SYSTEM LAYOUT BY
J.A. JONES ENVIRONMENTAL SERVICES, DATED 10/14/98.

- NOTE:
1. DRAWING ADAPTED FROM SITE MAP/REMEDIAL SYSTEM LAYOUT BY J.A. JONES ENVIRONMENTAL SERVICES, DATED 10/14/98.
 2. TYPE III MONITORING WELLS (DEEP AND INTERMEDIATE) HAVE BEEN OMITTED FROM CONTOURING.
 3. CONTOUR INTERVAL = 1 FT.
 4. NC = NOT CALCULATED.



SOVEREIGN CONSULTING INC.
VIRGINIA BEACH, VIRGINIA

PROJECT: BUILDING LCH-4015
ANNUAL MONITORING REPORT
MARINE CORPS BASE
CAMP LEJEUNE, NC

DATE: JUNE 2008

TITLE: SHALLOW WELL GROUNDWATER
ELEVATIONS – JULY 2007

SCALE: 1" = 40'

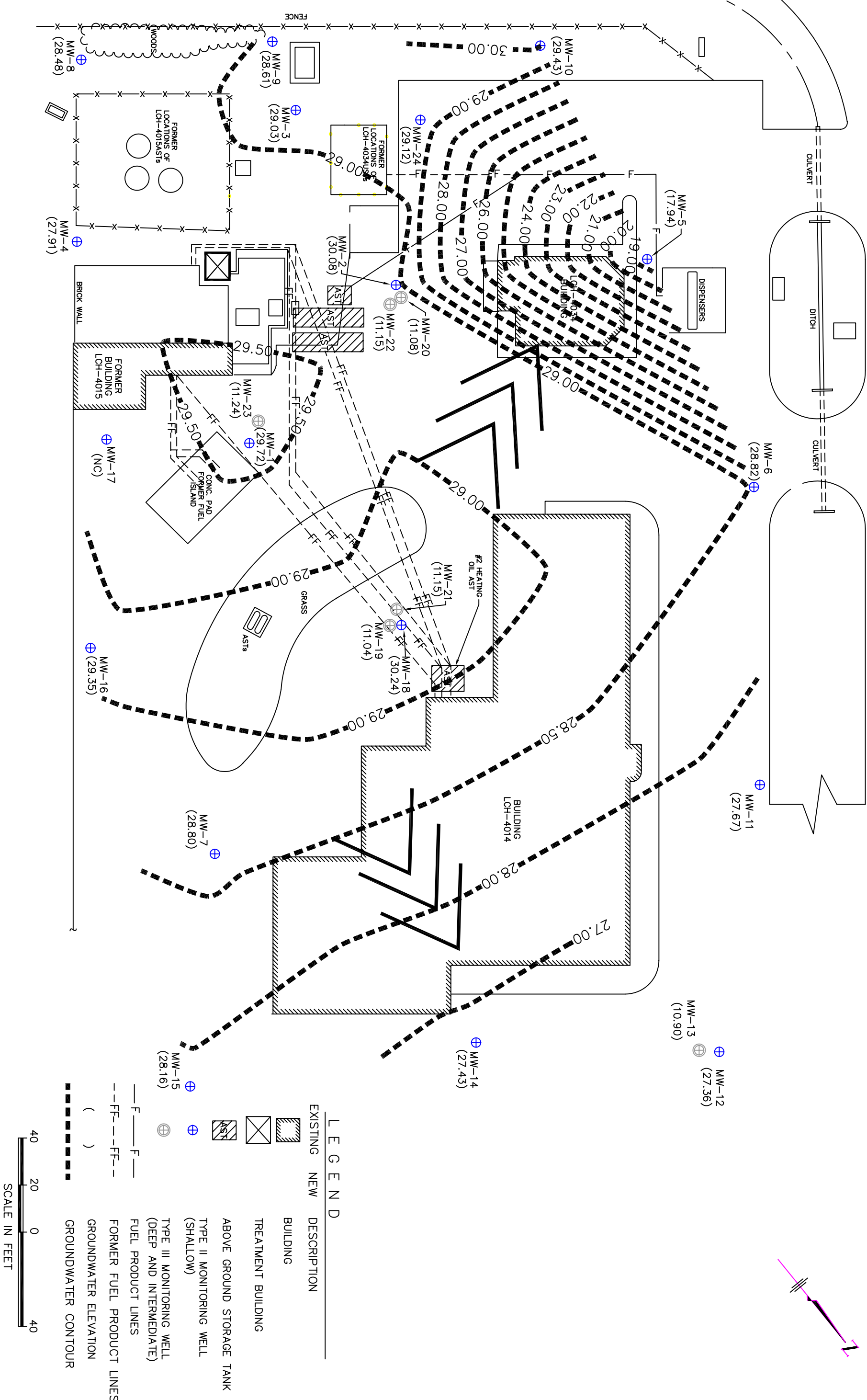
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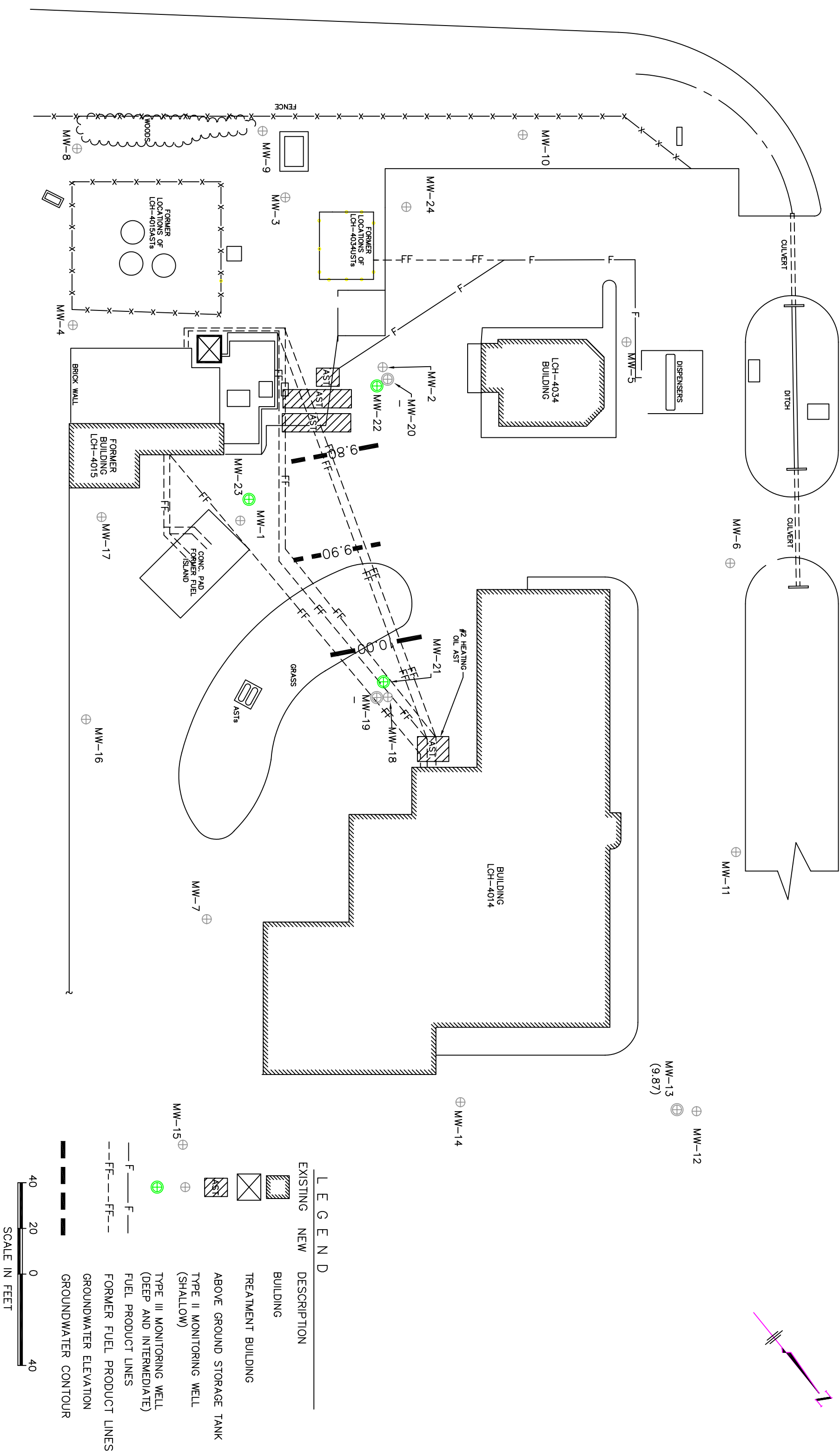
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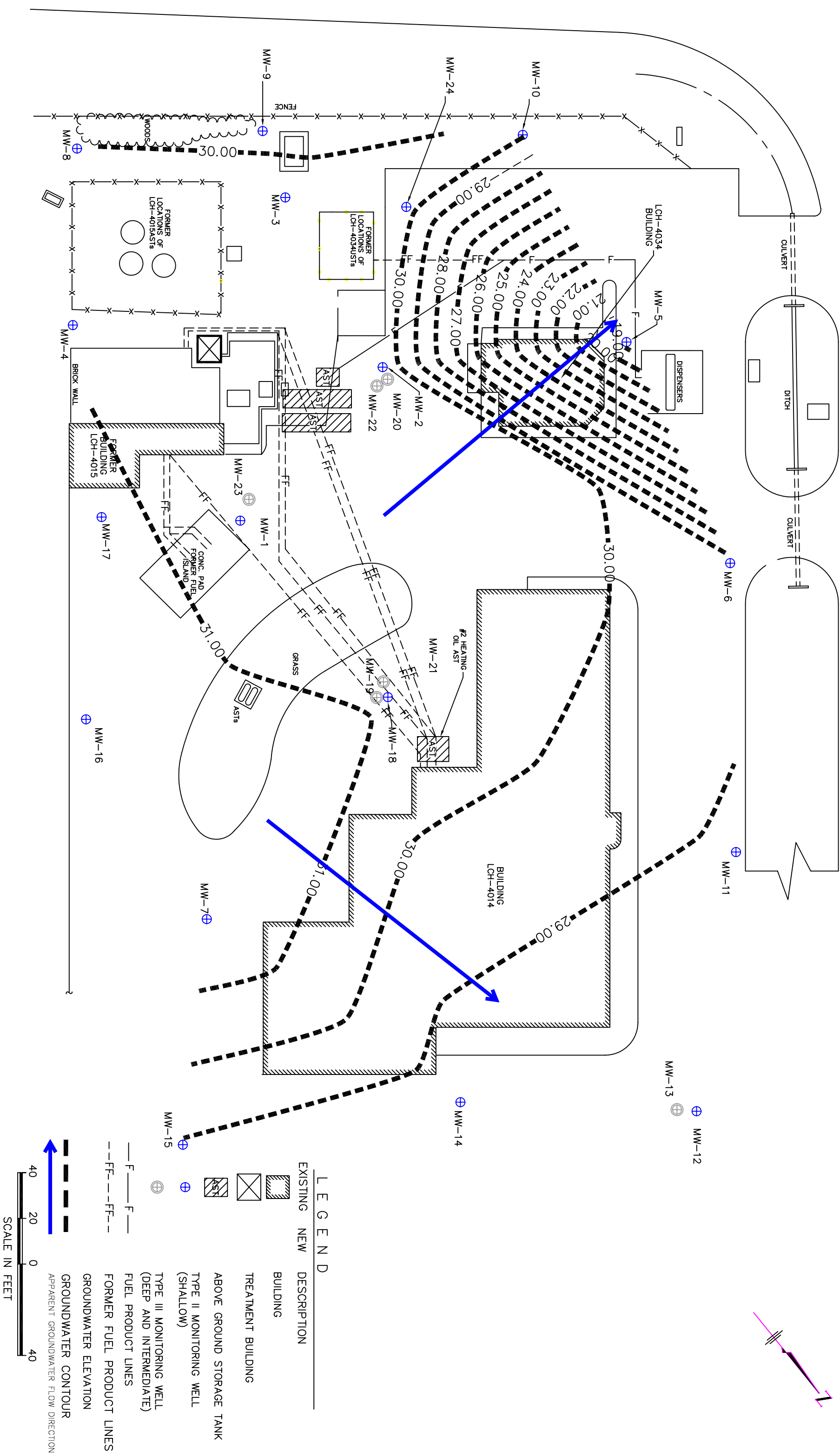
FIGURE

3

LCH-4015-FIGURE-3







NOTE:
1. DRAWING ADAPTED FROM SITE MAP/REMEDIAL SYSTEM LAYOUT BY J.A. JONES ENVIRONMENTAL SERVICES, DATED 10/14/98.
2. TYPE III (DEEP AND INTERMEDIATE) MONITORING WELLS WERE NOT INCLUDED IN CONTOURING.
3. CONTOUR INTERVAL = 1 FT.
4. NC = NOT CALCULATED

SOVEREIGN CONSULTING INC.
VIRGINIA BEACH, VIRGINIA

PROJECT

BUILDING LCH-4015
ANNUAL MONITORING REPORT
MARINE CORPS BASE
CAMP LEJEUNE, NC

TITLE

SHALLOW WELL GROUNDWATER
ELEVATIONS – JANUARY 2008

SCALE: 1"=40'

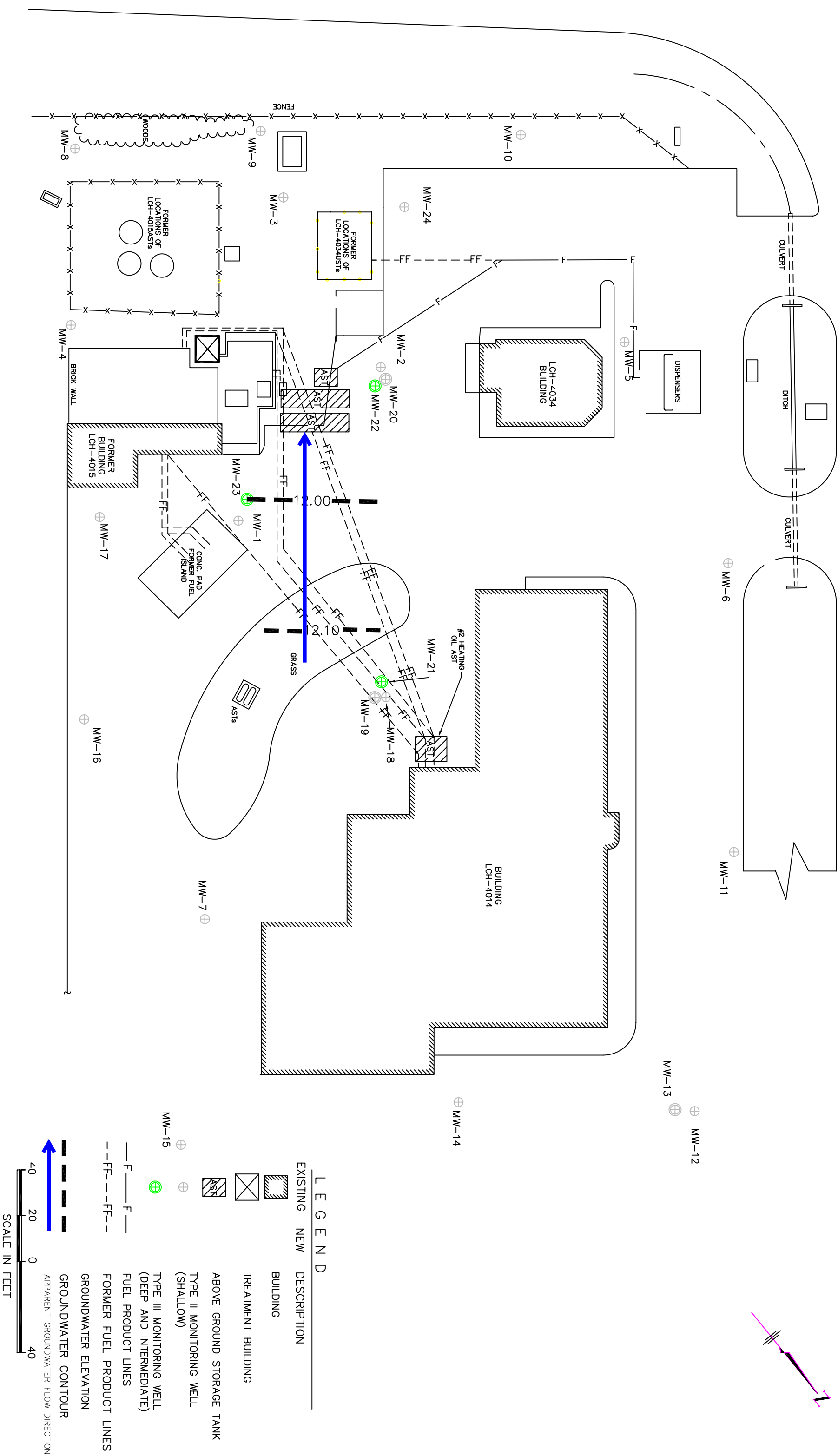
DRAWN BY: CRM

CHECKED BY: KPW

FIGURE

5

LCH-4015-FIGURE-5



NOTE:

1. DRAWING ADAPTED FROM SITE MAP/REMEDIAL SYSTEM LAYOUT BY J.A. JONES ENVIRONMENTAL SERVICES, DATED 10/14/98.
2. TYPE II (SHALLOW) AND TYPE III MONITORING WELLS (DEEP) WERE NOT INCLUDED IN CONTOURING.
3. CONTOUR INTERVAL = .10 FT.
4. NC = NOT CALCULATED

PROJECT: BUILDING LCH-4015
ANNUAL MONITORING REPORT
MARINE CORPS BASE
CAMP LEJUNE, NC

TITLE: INTERMEDIATE WELL
GROUNDWATER
ELEVATIONS - JANUARY 2008

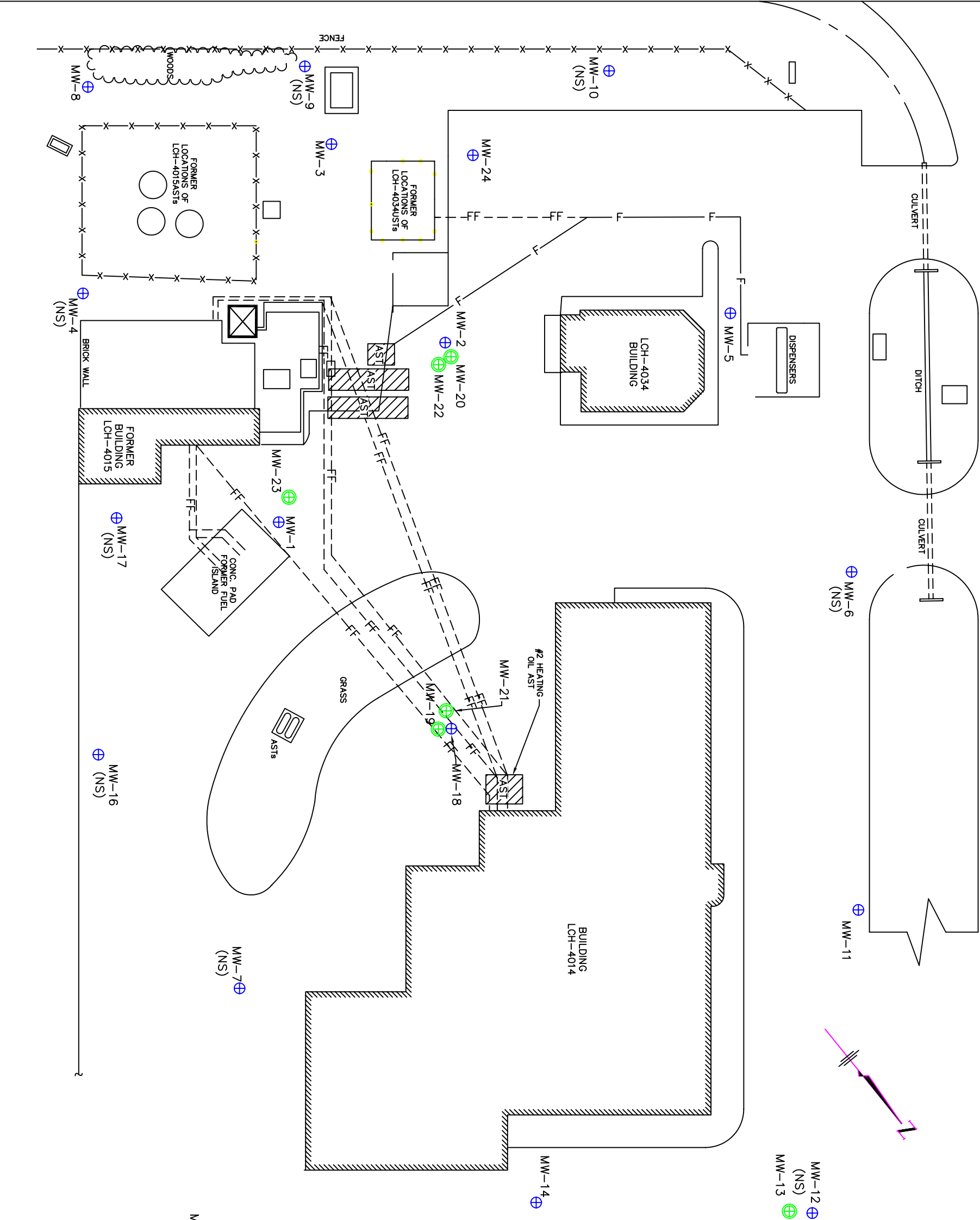
FIGURE: 6

SOVEREIGN CONSULTING INC.
VIRGINIA BEACH, VIRGINIA

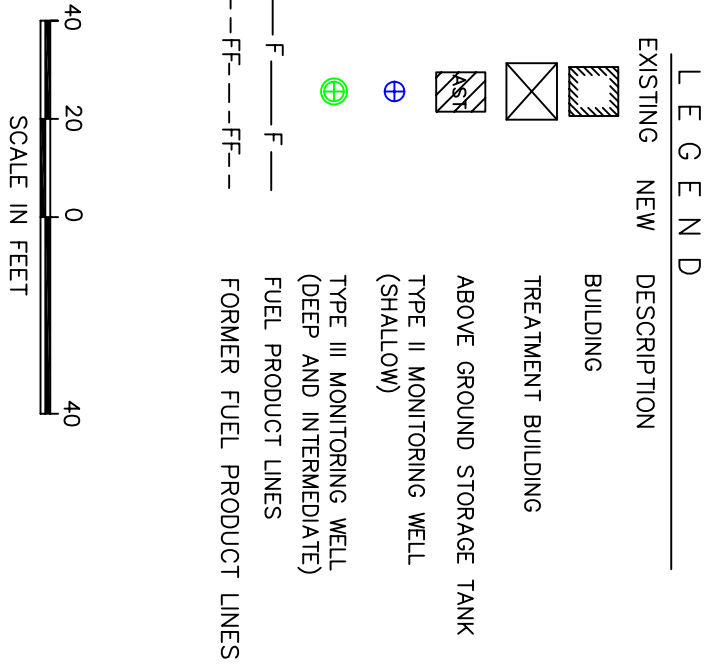
JOB NO. NV018 DATE: JUNE 2008 SCALE: 1" = 40' DRAWN BY: CRM CHECKED BY: KPW

LCH-4015-FIGURE-6

Contaminant of Concern								
Well ID	Sample ID	Date Collected		Benzene	Diisopropyl ether (DIPE)	Ethylbenzene	Methyl-tert butyl ether (MTBE)	Toluene
USTLCH4015-MW01	USTLCH4015-MW01	7/24/2007	9.75	BOL	145	BOL	293	BOL
USTLCH4015-MW02	USTLCH4015-MW02	1/23/2008	7.75	BOL	31.7	12.6	1.304	39.93
USTLCH4015-MW03	USTLCH4015-MW03	7/24/2007	3.16	BOL	2.76	BOL	11.5	BOL
USTLCH4015-MW04	USTLCH4015-MW04	1/24/2008	8.26	BOL	12.3	3.51	1.39	20.5
USTLCH4015-MW05	USTLCH4015-MW05	7/25/2007	BOL	BOL	BOL	0.7072	BOL	BOL
USTLCH4015-MW06	USTLCH4015-MW06	1/24/2008	BOL	BOL	BOL	BOL	BOL	BOL
USTLCH4015-MW07	USTLCH4015-MW07	7/25/2007	BOL	BOL	BOL	BOL	BOL	BOL
USTLCH4015-MW08	USTLCH4015-MW08	7/25/2007	BOL	BOL	BOL	BOL	BOL	BOL
USTLCH4015-MW09	USTLCH4015-MW09	7/25/2007	BOL	BOL	BOL	0.587	BOL	BOL
USTLCH4015-MW10	USTLCH4015-MW10	7/25/2007	BOL	BOL	5.04	BOL	BOL	BOL
USTLCH4015-MW11	USTLCH4015-MW11	7/25/2007	BOL	BOL	BOL	BOL	BOL	BOL
USTLCH4015-MW12	USTLCH4015-MW12	7/23/2007	BOL	BOL	BOL	BOL	BOL	BOL
USTLCH4015-MW13	USTLCH4015-MW13	1/24/2008	BOL	BOL	BOL	BOL	BOL	BOL
USTLCH4015-MW14	USTLCH4015-MW14	7/23/2007	BOL	BOL	BOL	BOL	BOL	BOL
USTLCH4015-MW15	USTLCH4015-MW15	7/24/2007	BOL	BOL	BOL	BOL	BOL	BOL
USTLCH4015-MW16	USTLCH4015-MW16	7/24/2007	BOL	BOL	BOL	BOL	BOL	BOL
USTLCH4015-MW18	USTLCH4015-MW18	7/24/2007	BOL	BOL	BOL	BOL	BOL	BOL
USTLCH4015-MW19	USTLCH4015-MW19	7/24/2007	BOL	BOL	BOL	BOL	BOL	BOL
USTLCH4015-MW20	USTLCH4015-MW20	7/24/2007	BOL	BOL	BOL	BOL	BOL	BOL
USTLCH4015-MW21	USTLCH4015-MW21	7/24/2007	21.0	0.578	1.31	19.4	0.5122	BOL
USTLCH4015-MW22	USTLCH4015-MW22	1/24/2008	26.0	1.184	2.05	19.3	BOL	BOL
USTLCH4015-MW23	USTLCH4015-MW23	7/24/2007	46.3	3.24	BOL	42.3	BOL	BOL
USTLCH4015-MW24	USTLCH4015-MW24	1/23/2008	8.42	4.09	BOL	27.4	BOL	BOL
Duplicate	Duplicate	7/25/2007	BOL	BOL	BOL	BOL	BOL	BOL
Duplicate	Duplicate	1/24/2008	46.2	3.21	BOL	44.9	BOL	BOL
2L Standard (µg/l)			1	70	550	200	1,000	530

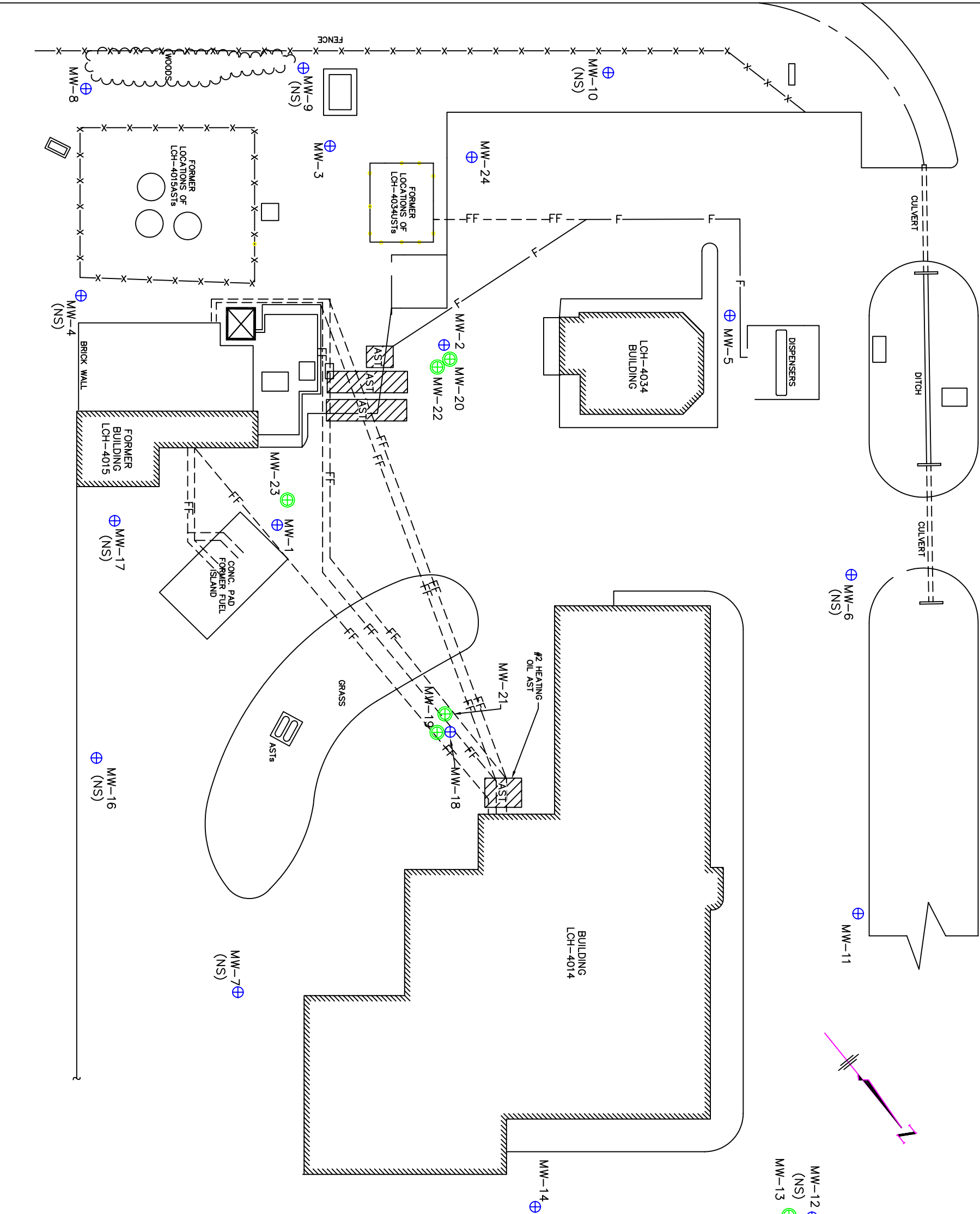


NOTE:
1. DRAWING ADAPTED FROM SITE MAP/REMEDIAL SYSTEM LAYOUT BY J.A. JONES ENVIRONMENTAL SERVICES, DATED 10/14/98.
2. NS = NOT SAMPLED



Analytical Method: EPA METHOD 625

Contaminant of Concern			Sample ID	Date Collected												
Well ID	TCH4015-	USTTCH4015-	7/24/2007	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL
	MW01	MW01	1/23/2008	BOL	BOL	4300	BOL	BOL	BOL	BOL	BOL	BOL	BOL	100	883	BOL
	TCH4015-	USTTCH4015-	7/24/2007	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	203	3067	BOL
	MW02	MW02	1/24/2008	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	247	4601	BOL
	TCH4015-	USTTCH4015-	7/25/2007	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	234	606	BOL
	MW03	MW03	1/24/2008	124	BOL	BOL	336	BOL	BOL	BOL	BOL	BOL	BOL	253	253	BOL
	TCH4015-	USTTCH4015-	7/25/2007	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	1845	1845	BOL
	MW04	MW04	7/25/2007	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	2300	2208	BOL
	TCH4015-	USTTCH4015-	7/25/2007	BOL	BOL	BOL	4773	BOL	BOL	BOL	BOL	BOL	BOL	2928	2928	BOL
	MW05	MW05	7/25/2007	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	1384	1384	BOL
	TCH4015-	USTTCH4015-	7/24/2007	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	1200	2274	BOL
	MW07	MW07	7/24/2007	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	2274	2274	BOL
	TCH4015-	USTTCH4015-	7/25/2007	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	2226	2226	BOL
	MW08	MW08	7/25/2007	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	1474	1474	BOL
	TCH4015-	USTTCH4015-	7/25/2007	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	4838	4838	BOL
	MW09	MW09	7/25/2007	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	10711	10711	BOL
TCH4015-	USTTCH4015-	7/25/2007	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	4242	4242	BOL	
MW11	MW11	7/25/2007	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	4771	4771	BOL	
TCH4015-	USTTCH4015-	7/23/2007	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	2188	2188	BOL	
MW12	MW12	1/24/2008	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	1597	1597	BOL	
TCH4015-	USTTCH4015-	7/23/2007	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	3454	3454	BOL	
MW13	MW13	1/24/2008	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	3069	3069	BOL	
TCH4015-	USTTCH4015-	7/24/2007	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	3447	3447	BOL	
MW15	MW15	7/24/2007	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	2783	2783	BOL	
TCH4015-	USTTCH4015-	1/24/2008	127	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	9677	9677	BOL	
MW19	MW19	1/24/2008	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	972	972	BOL	
TCH4015-	USTTCH4015-	1/24/2008	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	3298	3298	BOL	
MW20	MW20	1/24/2008	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	716	716	BOL	
TCH4015-	USTTCH4015-	1/24/2008	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	1315	1315	BOL	
MW21	MW21	1/24/2008	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	1691	1691	BOL	
TCH4015-	USTTCH4015-	1/24/2008	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	1315	1315	BOL	
MW22	MW22	1/24/2008	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	1315	1315	BOL	
TCH4015-	USTTCH4015-	1/24/2008	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	1315	1315	BOL	
MW23	MW23	1/23/2008	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	1315	1315	BOL	
TCH4015-	USTTCH4015-	1/23/2008	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	1315	1315	BOL	
MW24	MW24	7/25/2008	131	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	BOL	1315	1315	BOL	



LEGEND

EXISTING

NEW

DESCRIPTION

BUILDING

TREATMENT BUILDING

ABOVE GROUND STORAGE TANK

TYPE II MONITORING WELL (SHALLOW)

TYPE III MONITORING WELL (DEEP AND INTERMEDIATE)

FORMER FUEL PRODUCT LINES

MW-15 (NS)

MW-15 (NS)

SCALE IN FEET

40

20

0

40

PROJECT

BUILDING LCH-4015

ANNUAL MONITORING REPORT

MARINE CORPS BASE

CAMP LEJUNE, NC

DATE:

JUNE 2008

SCALE:

1"=40'

DRAWN BY:

CRM

CHECKED BY:

KPW

SOVEREIGN CONSULTING INC.

VIRGINIA BEACH, VIRGINIA

FIGURE

8

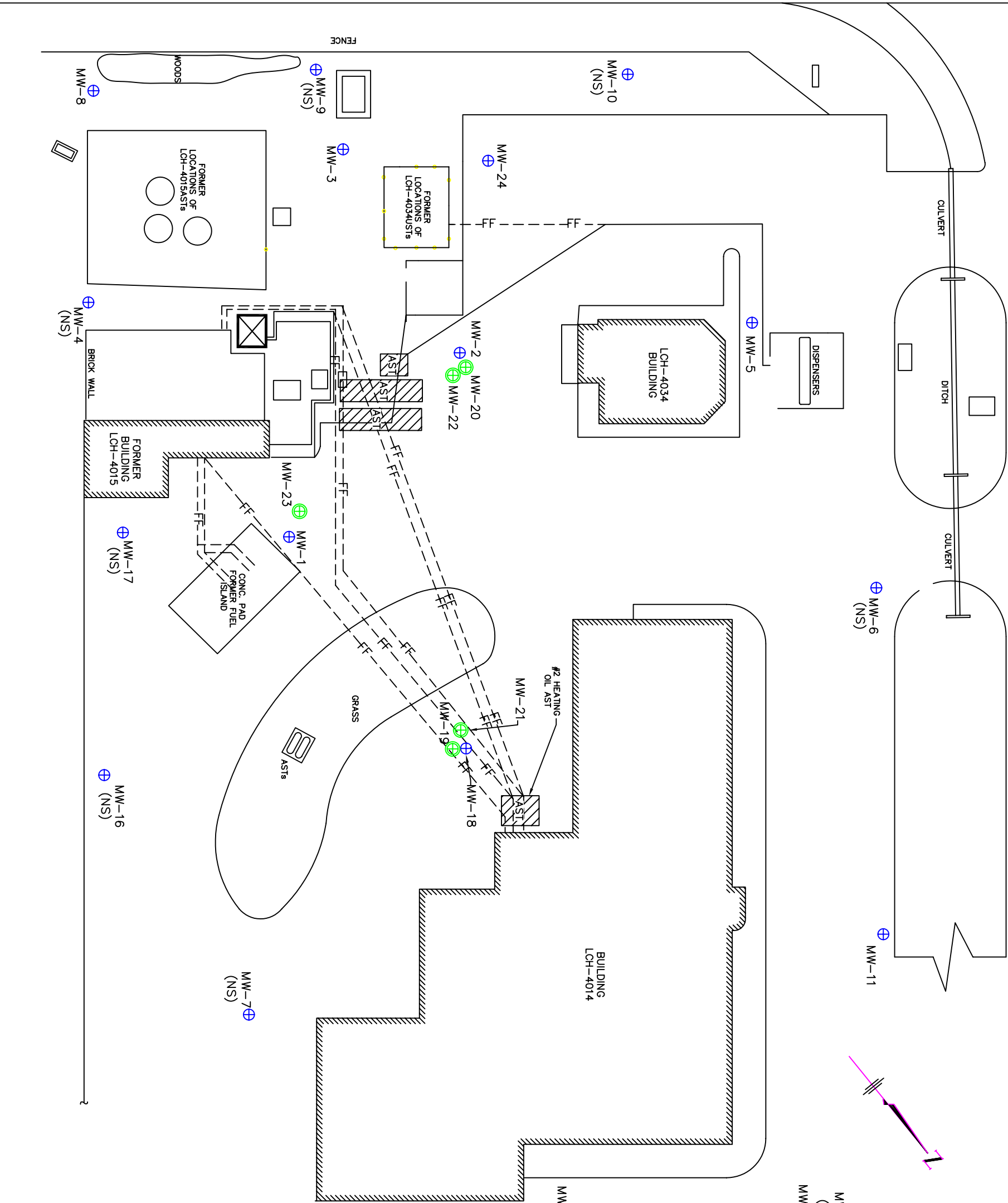
NOTE:

1. DRAWING ADAPTED FROM SITE MAP/REMEDIAL SYSTEM LAYOUT BY J.A. JONES ENVIRONMENTAL SERVICES, DATED 10/14/98.

2. NS = NOT SAMPLED

LCH-4015-FIGURE-5

Contaminant of Concern			Date Collected	Lead
Well ID	Sample ID			
USTLCH4015-MW01	USTLCH4015-MW01	7/24/2007	BOL	
USTLCH4015-MW02	USTLCH4015-MW02	2/6/2007	BOL	
USTLCH4015-MW03	USTLCH4015-MW03	7/24/2007	BOL	
USTLCH4015-MW04	USTLCH4015-MW04	2/7/2007	BOL	
USTLCH4015-MW05	USTLCH4015-MW05	7/23/2007	BOL	
USTLCH4015-MW06	USTLCH4015-MW06	7/23/2007	4.301	
USTLCH4015-MW07	USTLCH4015-MW07	7/24/2007	BOL	
USTLCH4015-MW08	USTLCH4015-MW08	7/23/2007	BOL	
USTLCH4015-MW09	USTLCH4015-MW09	7/23/2007	BOL	
USTLCH4015-MW10	USTLCH4015-MW10	7/23/2007	BOL	
USTLCH4015-MW11	USTLCH4015-MW11	7/23/2007	BOL	
USTLCH4015-MW13	USTLCH4015-MW13	7/23/2007	BOL	
USTLCH4015-MW14	USTLCH4015-MW14	7/23/2007	0.7751	
USTLCH4015-MW15	USTLCH4015-MW15	7/24/2007	BOL	
USTLCH4015-MW16	USTLCH4015-MW16	7/24/2007	BOL	
USTLCH4015-MW18	USTLCH4015-MW18	7/24/2007	BOL	
USTLCH4015-MW19	USTLCH4015-MW19	7/24/2007	BOL	
USTLCH4015-MW20	USTLCH4015-MW20	7/24/2007	BOL	
USTLCH4015-MW21	USTLCH4015-MW21	7/24/2007	BOL	
USTLCH4015-MW22	USTLCH4015-MW22	7/24/2007	BOL	
USTLCH4015-MW23	USTLCH4015-MW23	7/24/2007	BOL	
USTLCH4015-MW24	USTLCH4015-MW24	7/23/2007	BOL	
Duplicate	Duplicate	7/24/2007	BOL	
Duplicate	Duplicate	2/6/2007	BOL	15



NOTE:
1. DRAWING ADAPTED FROM SITE MAP/REMEDIAL SYSTEM LAYOUT BY J.A. JONES ENVIRONMENTAL SERVICES, DATED 10/14/98.
2. NS = NOT SAMPLED

APPENDIX A

HISTORICAL GROUNDWATER QUALITY DATA

Table
Historical Groundwater Analytical Data
September 2003 Sampling Event
LCH4015

Parameter	NCGWQS	GCL	MW-01	Duplicate	MW-02	MW-03	MW-05	MW-09	MW-11
VOCs by EPA Method 6210D (µg/L)									
Benzene	1	5,000	141	138	60.1	1	<1.0	<1.0	<1.0
Ethylbenzene	29	29,000	371	368	62.9	0.8 J	1.9	0.63 J	3.6
Toluene	1,000	257,500	17.5	14.8	7.2	<1.0	<1.0	0.66 J	<1.0
Xylenes (total)	530	87,500	269	226	612	<3.0	6.9	<3.0	<3.0
Methyl-tert butyl ether (MTBE)	200		5.8	4.8	7.5	<1.0	3.8	10.7	<1.0
Total BTEX			798.5	746.8	742.2	1.8	8.8	1.29	3.6
SVOCs by EPA Method 610 (µg/L)									
Acenaphthene	80		<5.0	<5.4	<5.7	<5.2	<5.1	<5.0	<5.1
Acenaphthylene	210		<5.0	<5.4	<5.7	<5.2	<5.1	<5.0	<5.1
Anthracene	2100		<5.0	<5.4	<5.7	<5.2	<5.1	<5.0	<5.1
Benzo(a)anthracene	0.05		<5.0	<5.4	<5.7	<5.2	<5.1	<5.0	<5.1
Flouranthene	280		<5.0	<5.4	<5.7	<5.2	<5.1	<5.0	<5.1
Flourene	280		<5.0	<5.4	<5.7	<5.2	<5.1	<5.0	<5.1
1-Methylnaphthalene	RL		29	23.3	7.1	<5.2	<5.1	<5.0	<5.1
2-Methylnaphthalene	14		43.7	36.2	7.6	<5.2	<5.1	<5.0	<5.1
Naphthalene	21		170	138	59.9	<5.2	<5.1	4.2 J	<5.1
Phenanthrene	210		<5.0	<5.4	<5.7	<5.2	<5.1	<5.0	<5.1
Pyrene	210		<5.0	<5.4	<5.7	<5.2	<5.1	<5.0	<5.1

Bold type indicates detectable concentrations

Bold and highlighted indicates detectable concentrations above the GCL

NCGWQS - North Carolina Groundwater Quality Standard

GCL - Gross Contaminant Level

<# - not detected at the indicated reporting limit

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

mg/L - milligrams per liter

ug/L - micrograms per liter

NE - Not established

RL - the NCGWQS for the constituent is the reporting limit

ND - None detected (no summed constituents were detected)

J - estimated concentration between minimum detection limit and reporting limit

NA - Not analyzed; laboratory quantitation for the indicated analyte was not conducted

NS - Not sampled; the indicated location was not designated for sampling during the event

E - estimated concentration above the linear quantitation range

Table
Historical Groundwater Analytical Data
November 2003 Sampling Event
LCH4015

Sample Location	NCGWQS	MW-01 11/19/03	MW-02 11/18/03	MW-03 11/18/03	MW-03D 11/18/03	MW-05 11/18/03	MW-06 11/19/03	MW-07 11/18/03	MW-08 11/18/03	MW-09 11/18/03
EPA 602 (µg/L)										
Benzene	1	139	22.4	1.3	1.5	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	29	377	31.9	1.3	1.4	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	1000	8.0	1.9	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes (total)	530	147	62.5	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Methyl Tert Butyl Ether	200	10.1	24.0	2.6	2.7	3.3	<1.0	<1.0	<1.0	7.5
Total BTEX		671	118.7	2.6	2.9	ND	ND	ND	ND	ND
EPA 610 (µg/L)										
Acenaphthene	80	<5.4	<5.4	<5.0	<5.0	<5.0	<5.1	<5.0	<5.1	<5.1
Acenaphthylene	210	<5.4	<5.4	<5.0	<5.0	<5.0	<5.1	<5.0	<5.1	<5.1
Anthracene	2100	<5.4	<5.4	<5.0	<5.0	<5.0	<5.1	<5.0	<5.1	<5.1
Benzo(a)anthracene	0.05	<5.4	<5.4	<5.0	<5.0	<5.0	<5.1	<5.0	<5.1	<5.1
Fluoranthene	280	<5.4	<5.4	<5.0	<5.0	<5.0	<5.1	<5.0	<5.1	<5.1
Fluorene	280	<5.4	<5.4	2.5 J	<5.0	<5.0	<5.1	<5.0	<5.1	<5.1
1-Methylnaphthalene	RL	28.1	5.1 J	<5.0	<5.0	<5.0	<5.1	<5.0	2.9 J	<5.1
2-Methylnaphthalene	14	47.0	2.9 J	<5.0	<5.0	<5.0	<5.1	<5.0	<5.1	<5.1
Naphthalene	21	169	47.8	<5.0	<5.0	<5.0	<5.1	<5.0	2.3 J	<5.1
Phenanthrene	210	<5.4	<5.4	<5.0	<5.0	<5.0	<5.1	<5.0	<5.1	<5.1
Pyrene	210	<5.4	<5.4	<5.0	<5.0	<5.0	<5.1	<5.0	<5.1	<5.1

Sample Location	NCGWQS	MW-10 11/18/03	MW-11 12/11/03	MW-12 11/19/03	MW-14 11/19/03	MW-15 11/18/03	MW-16 11/18/03	MW-18 11/19/03	MW-19 11/19/03
EPA 602 (µg/L)									
Benzene	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	29	<1.0	2.5	<1.0	<1.0	<1.0	<1.0	0.86 J	<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	5.6	<1.0	<1.0	<1.0	<1.0	2.6	<1.0	<1.0
Total BTEX		ND	2.5	ND	ND	ND	ND	0.86	ND
EPA 610 (µg/L)									
Acenaphthene	80	<5.6	3.1 J	<5.2	<5.1	<5.1	<5.0	<5.2	2.4 J
Acenaphthylene	210	<5.6	<5.2	<5.2	<5.1	<5.1	<5.0	<5.2	<5.1
Anthracene	2100	<5.6	<5.2	<5.2	<5.1	<5.1	<5.0	<5.2	<5.1
Benzo(a)anthracene	0.05	<5.6	<5.2	<5.2	<5.1	<5.1	<5.0	<5.2	<5.1
Fluoranthene	280	<5.6	<5.2	<5.2	<5.1	<5.1	<5.0	<5.2	<5.1
Fluorene	280	<5.6	9.0	<5.2	<5.1	<5.1	<5.0	<5.2	<5.1
1-Methylnaphthalene	RL	<5.6	36.8	<5.2	<5.1	<5.1	<5.0	<5.2	<5.1
2-Methylnaphthalene	14	<5.6	6.3	<5.2	<5.1	<5.1	<5.0	<5.2	<5.1
Naphthalene	21	<5.6	5.8	<5.2	<5.1	<5.1	<5.0	<5.2	3.2 J
Phenanthrene	210	<5.6	5.7	<5.2	<5.1	<5.1	<5.0	<5.2	<5.1
Pyrene	210	<5.6	<5.2	<5.2	<5.1	<5.1	<5.0	<5.2	<5.1

MW-03D is a duplicate sample collected at well MW-03

NCGWQS: North Carolina Groundwater Quality Standard

RL: Reporting Limit, no NCGWQS established for the constituent; therefore, 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

µg/L: micrograms per liter

<#: 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
Historical Groundwater Analytical Data
February 2004 Sampling Event
LCH4015

Parameter	NCGWQS	GCL	MW-01	MW-02	MW-03	MW-05	Duplicate	MW-09	MW-11
VOCs by EPA Method 621-10D (µg/L)									
Benzene	1	5,000	131	19.1	10.5	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	29	29,000	439	14.5	3.7	<1.0	<1.0	<1.0	3.9
Toluene	1,000	257,500	27.5	1.3	0.68 J	<1.0	<1.0	<1.0	<1.0
Xylenes (total)	530	87,500	514	76.9	3.6	<3.0	<3.0	<3.0	<3.0
Methyl-tert butyl ether (MTBE)	200		8.1	94.4	7	5.5	5.5	8.0	<1.0
Total BTEX			1111.5	111.8	18.48	ND	ND	ND	3.9
SVOCs by EPA Method 610 (µg/L)									
Acenaphthene	80		<5.2	<5.0	<5.1	<5.0	<5.0	<5.0	<5.1
Acenaphthylene	210		<5.2	<5.0	<5.1	<5.0	<5.0	<5.0	<5.1
Anthracene	2100		<5.2	<5.0	<5.1	<5.0	<5.0	<5.0	<5.1
Benzo(a)anthracene	0.05		<5.2	<5.0	<5.1	<5.0	<5.0	<5.0	<5.1
Flouranthene	280		<5.2	<5.0	<5.1	<5.0	<5.0	<5.0	<5.1
Flourene	280		<5.2	<5.0	<5.1	<5.0	<5.0	<5.0	5.1
1-Methylnaphthalene	RL		26.9	3.5 J	<5.1	<5.0	<5.0	<5.0	4.6 J
2-Methylnaphthalene	14		38.7	<5.0	<5.1	<5.0	<5.0	<5.0	<5.1
Naphthalene	21		15.7	15.7	2.3 J	<5.0	<5.0	<5.0	<5.1
Phenanthrene	210		<5.2	<5.0	<5.1	<5.0	<5.0	<5.0	<5.1
Pyrene	210		<5.2	<5.0	<5.1	<5.0	<5.0	<5.0	<5.1

Bold type indicates detectable concentrations

Bold and highlighted indicates detectable concentrations above the GCL

NCGWQS - North Carolina Groundwater Quality Standard

GCL - Gross Contaminant Level

<# - not detected at the indicated reporting limit

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

mg/L - milligrams per liter

ug/L - micrograms per liter

NE - Not established

RL - the NCGWQS for the constituent is the reporting limit

ND - None detected (no summed constituents were detected)

J - estimated concentration between minimum detection limit and reporting limit

NA - Not analyzed; laboratory quantitation for the indicated analyte was not conducted

NS - Not sampled; the indicated location was not designated for sampling during the event

E - estimated concentration above the linear quantitation range

Table
Historical Groundwater Analytical Data
May 2004 Sampling Event
LCH4015

Parameter	NCGWQS	GCL	MW-01	MW-02	MW-03 ⁽¹⁾	Duplicate	MW-05	MW-06	MW-07	MW-08	MW-09	MW-10	MW-11	MW-12	MW-14	MW-15	MW-16	MW-18 ⁽¹⁾	MW-19
VOCs by EPA Method 6210D (µg/L)																			
Benzene	1	5,000	28.4	30.9	1.6	1.8	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	29	29,000	31.9	14.6	1.7	2	<1.0	<1.0	<1.0	<1.0	3.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	1,000	257,500	13	1.8	<1.0	<1.0	<1.0	<1.0	0.52 J	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes (total)	530	87,500	704	85.3	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Methyl-tert butyl ether (MTBE)	200		4.0 J	25.9	<1.0	<1.0	2.7	6.2	<1.0	<1.0	<1.0	9.8	<1.0	<1.0	<1.0	<1.0	3.7	<1.0	<1.0
Total BTEX			1064.4	132.6	3.3	3.8	ND	ND	0.52	ND	3.5	ND	ND	ND	ND	ND	ND	ND	ND
SVOCs by EPA Method 610 (µg/L)																			
Acenaphthene	80		<5.1	<5.1	<5.1	<5.0	<5.1	<5.2	<5.1	<5.0	<5.1	<5.0	4.3 J	<5.3	<5.1	<5.0	<5.1	<5.1	3.7 J
Acenaphthylene	210		<5.1	<5.1	<5.1	<5.0	<5.1	<5.2	<5.1	<5.0	<5.1	<5.0	<5.1	<5.3	<5.1	<5.0	<5.1	<5.1	<5.0
Anthracene	2100		<5.1	<5.1	<5.1	<5.0	<5.1	<5.2	<5.1	<5.0	<5.1	<5.0	<5.1	<5.3	<5.1	<5.0	<5.1	<5.1	<5.0
Benzo(a)anthracene	0.05		<5.1	<5.1	<5.1	<5.0	<5.1	<5.2	<5.1	<5.0	<5.1	<5.0	<5.1	<5.3	<5.1	<5.0	<5.1	<5.1	<5.0
Flouranthene	280		<5.1	<5.1	<5.1	<5.0	<5.1	<5.2	<5.1	<5.0	<5.1	<5.0	<5.1	<5.3	<5.1	<5.0	<5.1	<5.1	<5.0
Flourene	280		<5.1	<5.1	<5.1	<5.0	<5.1	<5.2	<5.1	<5.0	<5.1	<5.0	8.0	<5.3	<5.1	<5.0	<5.1	<5.1	<5.0
1-Methylnaphthalene	RL		25.3	<5.1	<5.1	<5.0	<5.1	<5.2	<5.1	<5.0	<5.1	<5.0	29.5	<5.3	<5.1	<5.0	<5.1	<5.1	<5.0
2-Methylnaphthalene	14		34.3	<5.1	<5.1	<5.0	<5.1	<5.2	<5.1	<5.0	<5.1	<5.0	5.9	<5.3	<5.1	<5.0	<5.1	<5.1	2.1 J
Naphthalene	21		102	15.7	<5.1	<5.0	<5.1	<5.2	<5.1	<5.0	<5.1	<5.0	3.8 J	<5.3	<5.1	<5.0	<5.1	<5.1	2.1 J
Phenanthrene	210		<5.1	<5.1	<5.1	<5.0	<5.1	<5.2	<5.1	<5.0	<5.1	<5.0	<5.1	<5.3	<5.1	<5.0	<5.1	<5.1	<5.0
Pyrene	210		<5.1	<5.1	<5.1	<5.0	<5.1	<5.2	<5.1	<5.0	<5.1	<5.0	<5.1	<5.3	<5.1	<5.0	<5.1	<5.1	<5.0

⁽¹⁾ At well MW-03, 1,3-Dichlorobenzene was reported in the primary and duplicate samples at estimated concentrations of 0.69 µg/L and 0.78 µg/L, respectively, at well MW-18, 1,3-Dichlorobenzene was reported at a concentration of 1.6 µg/L, the NCGWQS for 1,3-Dichlorobenzene is 620 µg/L.

Bold type indicates detectable concentrations

Bold and highlighted indicates detectable concentrations above the GCL

NCGWQS - North Carolina Groundwater Quality Standard

GCL - Gross Contaminant Level

<# - not detected at the indicated reporting limit

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

mg/L - milligrams per liter

ug/L - micrograms per liter

NE - Not established

RL - the NCGWQS for the constituent is the reporting limit

ND - None detected (no summed constituents were detected)

J - estimated concentration between minimum detection limit and reporting limit

NA - Not analyzed; laboratory quantitation for the indicated analyte was not conducted

NS - Not sampled; the indicated location was not designated for sampling during the event

E - estimated concentration above the linear quantitation range

Table
Historical Groundwater Analytical Data
August 2004 Sampling Event
LCH4015

Sample Location	NCGWQS	MW-01	DUP (MW-01)	MW-02	MW-03	MW-05	MW-09	MW-11
Date Sampled		08/11/04	08/11/04	08/11/04	08/11/04	08/11/04	08/11/04	08/11/04
EPA 602 (µg/L)								
Benzene	1	53.3	70.4	0.90 J	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	29	225	208	2.4	<1.0	<1.0	<1.0	5.4
Toluene	1000	8.6	13.3	<1.0	0.52 J	<1.0	0.50 J	0.63 J
Xylenes (total)	530	314	<3.0	13.3	<3.0	<3.0	<3.0	1.8 J
Methyl Tert Butyl Ether	200	<5.0	317	20.0	1.9	0.76 J	6.9	<1.0
Total BTEX		600.9	291.7	16.6	0.52	ND	0.5	7.83
EPA 610 (µg/L)								
Acenaphthene	80	<48	<48	<4.8	<4.8	<4.8	<4.8	<9.5
Acenaphthylene	210	<48	<48	<4.8	<4.8	<4.8	<4.8	<9.5
Anthracene	2100	<48	<48	<4.8	<4.8	<4.8	<4.8	<9.5
Benzo(a)anthracene	0.05	<48	<48	<4.8	<4.8	<4.8	<4.8	<9.5
Fluoranthene	280	<48	<48	<4.8	<4.8	<4.8	<4.8	<9.5
Fluorene	280	<48	<48	<4.8	3.3 J	<4.8	<4.8	16.4
1-Methylnaphthalene	RL	34.4 J	34.5 J	2.9 J	<4.8	<4.8	<4.8	38.2
2-Methylnaphthalene	14	49.0	48.6	3.2 J	<4.8	<4.8	<4.8	6.6 J
Naphthalene	21	207	216	45.2	<4.8	<4.8	<4.8	3.8 J
Phenanthrene	210	<48	<48	<4.8	<4.8	<4.8	<4.8	6.5 J
Pyrene	210	<48	<48	<4.8	<4.8	<4.8	<4.8	<9.5

DUP is a duplicate sample collected at well MW-01

NCGWQS: North Carolina Groundwater Quality Standard

RL: Reporting Limit, no NCGWQS established for the constituent; therefore, 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

µg/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
Historical Groundwater Analytical Data
November 2004 Sampling Event
LCH4015

Sample Location	NCGWQS	MW-01	MW-02*	MW-03	DUP (MW-03)	MW-13	MW-18
Date Sampled		11/22/04	11/22/04	11/22/04	11/23/04	11/23/04	11/23/04
EPA 602 (µg/L)							
Benzene	1	29.1	84.6	0.56 J	0.61 J	<1.0	<1.0
Ethylbenzene	29	189	64.0	<1.0	<1.0	<1.0	<1.0
Toluene	1000	4.6 J	6.7	<1.0	<1.0	<1.0	0.51 J
Xylenes (total)	530	390	220	<3.0	<3.0	<3.0	<3.0
Methyl Tert Butyl Ether	200	<5.0	8.3	<1.0	<1.0	<1.0	<1.0
Total BTEX		612.7	375.3	0.56	0.61	ND	0.51
EPA 610 (µg/L)							
Acenaphthene	80	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8
Acenaphthylene	210	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8
Anthracene	2100	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8
Benzo(a)anthracene	0.05	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8
Fluoranthene	280	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8
Fluorene	280	<4.8	<4.8	2.3 J	2.1 J	<4.8	5.8
1-Methylnaphthalene	RL	17.3	7.6	<4.8	<4.8	<4.8	<4.8
2-Methylnaphthalene	14	25.7	5.2	<4.8	<4.8	<4.8	<4.8
Naphthalene	21	88.1	94.5	<4.8	<4.8	<4.8	<4.8
Phenanthrene	210	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8
Pyrene	210	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8
MADEP VPH (µg/L)							
C5-C8 Aliphatics	420	296	197	65.7 J	154 J	<190	312
C9-C12 Aliphatics		195	<190	129	<190	<190	<190
C9-C10 Aromatics		<190	<190	106	<190	<190	<190
MADEP EPH (µg/L)							
C9-C18 Aliphatics		925	487	<190	55 J	<75	<75
C19-C36 Aliphatics	42000	2030	363	<190	131	<55	68.4
C11-C22 Aromatics		1150	222	169 J	106	<20	40.9
MADEP VPH + EPH (µg/L)							
C9-C12 + C9-C18 Aliphatics	4200	1120	487	129	55 J	<265	<265
C9-C10 + C11-C22 Aromatics	210	<1150	222	275 J	106	<210	40.9
SW 6010B* (µg/L)							
Lead	15	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0

Sample Location	NCGWQS	MW-19	MW-20	MW-21	MW-22	MW-23
Date Sampled		11/23/04	11/22/04	11/23/04	11/22/04	11/23/04
EPA 602 (µg/L)						
Benzene	1	<1.0	<1.0	20.8	<1.0	73.9
Ethylbenzene	29	<1.0	<1.0	5.2	<1.0	1.3
Toluene	1000	<1.0	<1.0	2.0	<1.0	<1.0
Xylenes (total)	530	<3.0	<3.0	2.7 J	<3.0	1.3 J
Methyl Tert Butyl Ether	200	<1.0	<1.0	21.3	<1.0	34.3
Total BTEX		ND	ND	30.7	ND	76.5
EPA 610 (µg/L)						
Acenaphthene	80	<4.8	<4.8	<4.8	<4.8	<4.8
Acenaphthylene	210	<4.8	<4.8	<4.8	<4.8	<4.8
Anthracene	2100	<4.8	<4.8	<4.8	<4.8	<4.8
Benzo(a)anthracene	0.05	<4.8	<4.8	<4.8	<4.8	<4.8
Fluoranthene	280	<4.8	<4.8	<4.8	<4.8	<4.8
Fluorene	280	<4.8	<4.8	<4.8	<4.8	<4.8
1-Methylnaphthalene	RL	<4.8	<4.8	<4.8	<4.8	<4.8
2-Methylnaphthalene	14	<4.8	<4.8	<4.8	<4.8	<4.8
Naphthalene	21	<4.8	14.9	15.3	<4.8	<4.8
Phenanthrene	210	<4.8	<4.8	<4.8	<4.8	<4.8
Pyrene	210	<4.8	<4.8	<4.8	<4.8	<4.8
MADEP VPH (µg/L)						
C5-C8 Aliphatics	420	<190	143 J	<190	<190	149
C9-C12 Aliphatics		<190	<190	<190	<190	<190
C9-C10 Aromatics		<190	<190	<190	<190	<190
MADEP EPH (µg/L)						
C9-C18 Aliphatics		<75	<75	<75	<75	<75
C19-C36 Aliphatics	42000	<55	<55	119	<55	<55
C11-C22 Aromatics		<20	<20	95.8	<20	<20
MADEP VPH + EPH (µg/L)						
C9-C12 + C9-C18 Aliphatics	4200	<265	<265	<265	<265	<265
C9-C10 + C11-C22 Aromatics	210	<210	<210	95.8	<210	<210
SW 6010B/3030C (µg/L)						
Lead	15	<5.0	7.7	<40	<5.0	<50

* At well MW-02, Chlorobenzene was detected at a concentration of 3.0 ug/L (NCGWQS of 50 ug/L)

NCGWQS: North Carolina Groundwater Quality Standard

RL: Reporting Limit, no NCGWQS established for the constituent; therefore, 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

µg/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
Historical Groundwater Analytical Data
March 2005 Sampling Event
LCH4015

Sample Location	NCGWQS	MW-24
Date Sampled		03/07/05
EPA 602 (µg/L)		
Benzene	1	4.38
Ethylbenzene	29	0.785 J
Toluene	1000	0.418 J
m,p-Xylene (1)		1.11 J
o-Xylene (1)		0.978 J
Total Xylenes (1)	530	2.088 J
1,2-Dichlorobenzene	620	15.8
1,3-Dichlorobenzene	620	<1.00
1,4-Dichlorobenzene	75	0.799 J
Naphthalene	21	19.3
Methyl-tert butyl ether	200	1.89 J
Diisopropyl ether	70	3.97
EPA 610 (µg/L)		
Acenaphthene	80	1.40 J
Bis(2-ethylhexyl)phthalate	3	1.40 J
Dimethylphthalate	RL	1.50 J
Fluorene	280	1.70 J
Naphthalene	21	11.1
TICs (total)		241.21 J
MADEP VPH (µg/L)		
C5-C8 Aliphatics	420	220
C9-C12 Aliphatics		130
C9-C10 Aromatics		300
MADEP EPH (µg/L)		
C9-C18 Aliphatics		<100
C19-C36 Aliphatics	42000	<100
C11-C22 Aromatics		140
MADEP VPH + EPH (µg/L)		
C9-C12 + C9-C18 Aliphatics	4200	130
C9-C10 + C11-C22 Aromatics	210	440
SW 6010B* (µg/L)		
Lead	15	<5.0

* At well MW-02, Chlorobenzene was detected at a concentration

NCGWQS: North Carolina Groundwater Quality Standard

RL: Reporting Limit, no NCGWQS established for the constituent

Total BTEX: Sum of detected concentrations of benzene, toluene

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

µg/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 I

Table
Historical Groundwater Analytical Data
May 2005 Sampling Event
LCH4015

Sample Location	NCGWQS	MW-01	MW-02	MW-03	DUP (MW-03)	MW-13	MW-18
Date Sampled		05/10/05	05/10/05	05/10/05	05/10/05	05/11/05	05/11/05
EPA 602 (µg/L)							
Benzene	1	30.1	13.1	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	29	270	13.5	<1.0	<1.0	<1.0	<1.0
Toluene	1000	14.8	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes (total)	530	659	32.6	<3.0	<3.0	<3.0	<3.0
Chlorobenzene	50	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	620	50.7	10.0	7.7	7.0	<1.0	2.4
1,3-Dichlorobenzene	620	<5.0	<1.0	0.83 J	0.59 J	<1.0	1.3
1,4-Dichlorobenzene	75	<5.0	<1.0	0.59 J	<1.0	<1.0	<1.0
Methyl Tert Butyl Ether	200	7.8	52.5	<1.0	<1.0	<1.0	<1.0
Total BTEX		973.9	59.2	ND	ND	ND	ND
EPA 625 (µg/L)							
Acenaphthene	80	<4.9	<4.8	1.3 J	1.2 J	<4.8	2.3 J
Acenaphthylene	210	<4.9	<4.8	<4.8	<5.0	<4.8	<5.0
Anthracene	2100	<4.9	<4.8	<4.8	<5.0	<4.8	<5.0
Benzo(a)anthracene	0.05	<4.9	<4.8	<4.8	<5.0	<4.8	<5.0
Fluoranthene	280	<4.9	<4.8	<4.8	<5.0	<4.8	<5.0
Fluorene	280	<4.9	<4.8	1.4 J	1.2 J	<4.8	3.1 J
1-Methylnaphthalene	RL	23.1	<4.8	<4.8	<5.0	<4.8	<5.0
2-Methylnaphthalene	14	34.2	<4.8	<4.8	<5.0	<4.8	<5.0
Naphthalene	21	165	11.5	1.6 J	<5.0	<4.8	<5.0
Phenanthrene	210	<4.9	<4.8	<4.8	<5.0	<4.8	<5.0
Pyrene	210	<4.9	<4.8	<4.8	<5.0	<4.8	<5.0
SW 6010B* (µg/L)							
Lead	15	<5.0	<10	<5.0	<5.0	<5.0	<5.0

Sample Location	NCGWQS	MW-19	MW-20	MW-21	MW-22	MW-23	MW-24
Date Sampled		05/11/05	05/10/05	05/11/05	05/10/05	05/11/05	05/10/05
EPA 602 (µg/L)							
Benzene	1	<1.0	<1.0	17.5	<1.0	47.1	2.3
Ethylbenzene	29	<1.0	<1.0	4.2	<1.0	0.79 J	<1.0
Toluene	1000	<1.0	<1.0	1.1	0.96 J	<1.0	<1.0
Xylenes (total)	530	<3.0	<3.0	1.1 J	<3.0	<3.0	<3.0
Chlorobenzene	50	<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	22.1
1,3-Dichlorobenzene	620	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	75	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl Tert Butyl Ether	200	<1.0	<1.0	28.8	1.2	31.9	3.0
Total BTEX		ND	ND	23.9	0.96	47.89	2.3
EPA 625 (µg/L)							
Acenaphthene	80	2.6 J	<4.8	<4.8	<4.8	<4.8	1.5 J
Acenaphthylene	210	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8
Anthracene	2100	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8
Benzo(a)anthracene	0.05	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8
Fluoranthene	280	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8
Fluorene	280	1.1 J	<4.8	<4.8	<4.8	<4.8	1.8 J
1-Methylnaphthalene	RL	<4.8	<4.8	<4.8	<4.8	<4.8	2.6 J
2-Methylnaphthalene	14	<4.8	<4.8	<4.8	<4.8	<4.8	2.8 J
Naphthalene	21	<4.8	24.8	20.4	<4.8	<4.8	<4.8
Phenanthrene	210	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8
Pyrene	210	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8
SW 6010B/3030C (µg/L)							
Lead	15	<5.0	<5.0	<50	<5.0	<50	<5.0

NCGWQS: North Carolina Groundwater Quality Standard

RL: Reporting Limit, no NCGWQS established for the constituent; therefore, 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

µg/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
Historical Groundwater Analytical Data
November 2005 Sampling Event
LCH4015

Sample Location	NCGWQS	MW-01	MW-02	MW-03	DUP (MW-02)	MW-13	MW-18
Date Sampled		11/14/05	11/14/05	11/14/05	11/14/05	11/14/05	11/14/05
EPA 602 (µg/L)							
Benzene	1	48.1	1.5	<1.0	1.9	<1.0	<1.0
Ethylbenzene	29	143	2.0	<1.0	2.3	<1.0	<1.0
Toluene	1000	4.9	<1.0	<1.0	<1.0	0.54 J	0.59 J
Xylenes (total)	530	268	5.6	<3.0	10.7	<3.0	<3.0
Chlorobenzene	50	2.1	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	620	<32	<120	<10	<120	<3.0	<3.0
1,3-Dichlorobenzene	620	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	75	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl Tert Butyl Ether	200	7.2	49.6	1.1	50.1	<1.0	<1.0
Total BTEX		464	9.1	ND	14.9	0.54	0.59
EPA 625 (µg/L)							
Acenaphthene	80	<4.9	<5.0	1.6 J	<5.0	<5.3	3 J
Acenaphthylene	210	<4.9	<5.0	<5.0	<5.0	<5.3	<5.3
Anthracene	2100	<4.9	<5.0	<5.0	<5.0	<5.3	<5.3
Benzo(a)anthracene	0.05	<4.9	<5.0	<5.0	<5.0	<5.3	<5.3
Fluoranthene	280	<4.9	<5.0	<5.0	<5.0	<5.3	<5.3
Fluorene	280	<4.9	<5.0	1.6 J	<5.0	<5.3	4.3 J
1-Methylnaphthalene	RL	23.1	15	5.2	<5.0	<4.8	<5.0
2-Methylnaphthalene	14	34.2	5.5	7.9	<5.0	<4.8	<5.0
Naphthalene	21	105	2.3 J	<5.0	2.1 J	<5.3	<5.3
Phenanthrene	210	<4.9	<5.0	<5.0	<5.0	<5.3	<5.3
Pyrene	210	<4.9	<5.0	<5.0	<5.0	<5.3	<5.3
SW 6010B* (µg/L)							
Lead	15	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0

Sample Location	NCGWQS	MW-19	MW-20	MW-21	MW-22	MW-23	MW-24
Date Sampled		11/14/05	11/14/05	11/14/05	11/14/05	11/14/05	11/14/05
EPA 602 (µg/L)							
Benzene	1	<1.0	<1.0	10.9	<1.0	4.2	1.8
Ethylbenzene	29	<1.0	<1.0	1.9	<1.0	0.66 J	<1.0
Toluene	1000	0.63 J	<1.0	0.7 J	0.89 J	0.71 J	0.57 J
Xylenes (total)	530	<3.0	<3.0	1.3 J	<3.0	1.3 J	<3.0
Chlorobenzene	50	<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	<15
1,3-Dichlorobenzene	620	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	75	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl Tert Butyl Ether	200	<1.0	<1.0	26.1	1.9	17.9	1.7
Total BTEX		0.63	ND	14.76	0.89	6.87	2.37
EPA 625 (µg/L)							
Acenaphthene	80	<5.0	<4.8	<5.3	<5.3	<4.8	1.9 J
Acenaphthylene	210	<5.0	<4.8	<5.3	<5.3	<4.8	<5.6
Anthracene	2100	<5.0	<4.8	<5.3	<5.3	<4.8	<5.6
Benzo(a)anthracene	0.05	<5.0	<4.8	<5.3	<5.3	<4.8	<5.6
Fluoranthene	280	<5.0	<4.8	<5.3	<5.3	<4.8	<5.6
Fluorene	280	<5.0	<4.8	<5.3	<5.3	<4.8	2.1 J
1-Methylnaphthalene	RL	<4.8	<4.8	<4.8	<4.8	<4.8	2.6 J
2-Methylnaphthalene	14	<4.8	<4.8	<4.8	<4.8	<4.8	2.8 J
Naphthalene	21	<5.0	9.2	32.3	<5.3	<4.8	4.4 J
Phenanthrene	210	<5.0	<4.8	<5.3	<5.3	<4.8	<5.6
Pyrene	210	<5.0	<4.8	<5.3	<5.3	<4.8	<5.6
SW 6010B/3030C (µg/L)							
Lead	15	<5.0	<5.0	18.8	<5.0	10.1	<5.0

NCGWQS: North Carolina Groundwater Quality Standard

RL: Reporting Limit, no NCGWQS established for the constituent; therefore, 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

µg/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
Historical Groundwater Analytical Data
January 2006 Sampling Event
LCH4015

Parameter	NCGWQS	GCL	MW-01	MW-02	MW-03	MW-13	Duplicate	MW-19	MW-20	MW-21	MW-22	MW-23
VOCs by EPA Method 6210D (µg/L)												
All Compounds	Varies	Varies	<16.0	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
Benzene	1	5,000	45.5	3.63	<1.00	<1.00	<1.00	<1.00	<1.00	20.2	<1.00	25.9
Diisopropyl ether (DIPE)			<8.00	<1.00	0.651	<1.00	<1.00	<1.00	<1.00	0.670	<1.00	1.81
Ethylbenzene	29	29,000	179	6.10	<1.00	<1.00	<1.00	<1.00	<1.00	3.05	<1.00	0.400
Methyl-tert butyl ether (MTBE)	200		4.98	16.7	0.949	<2.00	<2.00	<2.00	<2.00	15.4	<2.00	15.0
Toluene	1,000	257,500	10.1	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
m/p-Xylene			333	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
o-Xylene			37.5	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	0.632	<2.00	<2.00
Xylenes (total)	530	87,500	<32.0	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00	<4.00
SVOCs by EPA Method 625 (µg/L)												
Bis(2-ethylhexyl)phthalate			8.70	<10.0	<10.0	<10.0	<10.0	2.80	<10.0	<10.0	<10.0	4.90
Flourene	280	950	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Naphthalene	21	15,500	111	2.10	<10.0	<10.0	<10.0	<10.0	<10.0	31.7	<10.0	<10.0
Phenol			< 10.0	< 10.0	< 10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
TICs (total)			835.4	143.25	54.91	<10.0	<10.0	<10.0	<10.0	89.7	<10.0	<10.0
All other Compounds	Varies	Varies	<10.0	<10.0	< 10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Metals by EPA Method SW-6010B/3030C (µg/L)												
Lead	15	15,000	0.600	<5.0	<5.0	<5.0	<5.0	0.675	2.28	<5.0	<5.0	<5.0

Bold type indicates detectable concentrations

Bold and highlighted indicates detectable concentrations above the GCL

NCGWQS - North Carolina Groundwater Quality Standard

GCL - Gross Contaminant Level

<# - not detected at the indicated reporting limit

mg/L - milligrams per liter

ug/L - micrograms per liter

NE - Not established

RL - the NCGWQS for the constituent is the reporting limit

ND - None detected (no summed constituents were detected)

J - estimated concentration between minimum detection limit and reporting limit

NA - Not analyzed; laboratory quantitation for the indicated analyte was not conducted

NS - Not sampled; the indicated location was not designated for sampling during the event

E - estimated concentration above the linear quantitation range

Table
Historical Groundwater Analytical Data
October 2006 Sampling Event
LCH4015

Parameter	NCGWQS	MW-01	MW-02	MW-03	MW-13	MW-19	MW-20	MW-21	MW-22	MW-23	MW-24	Duplicate
VOCs by EPA Method 602 (ug/L)												
Benzene	1	12	5.70	<1.00	<1.00	0.329 J	0.383 J	13.2	<1.00	116	1.34	6.03
Diisopropyl ether (DIPE)	70	7.23	<1.00	<1.00	<1.00	<1.00	<1.00	0.692 J	<1.00	7.05	1.53	0.602 J
Ethylbenzene	29	118	6.34	0.367 J	0.202 J	0.832 J	0.731 J	2.59	0.705 J	3.51 J	0.760 J	6.06
Toluene	1,000	5.21	1.94	0.831 J	0.785 J	3.76	2.99	3.86	3.09	5.17	2.16	2.13
Xylenes (total)	530	191.20	82.18	0.924 J	<2.00	4.56	4.39	4.80 J	2.57	5.74 J	3.21 J	88.67
Methyl-tert butyl ether (MTBE)	200	21.1	14.1	0.768 J	<2.00	<2.00	<2.00	15.7	9.31	84.4	1.39 J	14.6
Total BTEX		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SVOCs by EPA Method 625 (ug/L)												
Acenaphthene	80	<10.0	<10.0	<10.0	<10.0	1.40 J	<10.0	<10.0	<10.0	<10.0	2.10 J	<10.0
Acenaphthylene	210	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Bis(2-ethylhexyl)phthalate	3	10.7	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Diethylphthalate	5,000	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Di-n-octylphthalate	140	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Anthracene	2100	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Benzo(a)anthracene	0.05	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Flouranthene	280	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Flourene	280	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	2.60 J	<10.0
1-Methylnaphthalene	RL	11.1	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
2-Methylnaphthalene	14	16.4	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Naphthalene	21	45.5	9.40 J	<10.0	<10.0	<10.0	<10.0	44.0	<10.0	<10.0	4.80 J	9.80 J
Phenanthrene	210	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
TIC's		938.4	395.9	67.74	170.07	78.35	8.01	96.69	9.56	50.0	225.67	187.55
Pyrene	210	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPA 200.7 / SM 3030C (ug/L)												
Lead (EPA 6010B / SM 3030C) (ug/L)	15	0.875 J	0.500 J	< 5.0	< 5.0	< 5.0	0.800 J	1.90 J	< 5.0	< 5.0	1.33 J	2.33 J

Bold type indicates detectable contaminant concentrations

Bold and shaded indicates detectable concentrations above the NCGWQS

Bold and shaded indicates detectable concentrations above the GCL

NCGWQS - North Carolina Groundwater Quality Standard

GCL - Gross Contaminant Level

<# - not detected at the indicated reporting limit

ug/L - micrograms per liter

NE - Not established

RL - the NCGWQS for the constituent is the reporting limit

ND - None detected (no summed constituents were detected)

J - estimated concentration between minimum detection limit and reporting limit

B - Amount in prep blank > MDL

Table
Historical Groundwater Analytical Data
February 2007 Sampling Event
LCH4015

Parameter	NCGWQS	MW-01	MW-02	MW-03	MW-13	MW-18	MW-19	MW-20	MW-21	MW-22	MW-23	MW-24	Duplicate
VOCs by EPA Method 602 (ug/L)													
Benzene	1	6.80	<1.00	0.965 J	<1.00	<1.00	<1.00	<1.00	21.1	<1.00	122	<1.00	<1.00
Diisopropyl ether (DIPE)	70	0.809 J	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	0.513 J	<1.00	4.50	0.770 J	<1.00
Ethylbenzene	29	23.7	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	1.80	<1.00	<1.00	<1.00	<1.00
Toluene	1,000	1.57	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	0.465 J	<1.00	<1.00	<1.00	<1.00
Xylenes (total)	530	26.26	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00
Methyl-tert butyl ether (MTBE)	200	19.5	14.2	<2.00	<2.00	<2.00	<2.00	<2.00	21.3	8.34	77.5	<2.00	<2.00
Total BTEX		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
SVOCs by EPA Method 625 (ug/L)													
Acenaphthene	80	<10.0	<10.0	<10.0	<10.0	2.10 J	1.40 J	<10.0	<10.0	<10.0	<10.0	<10.0	1.50 J
Acenaphthylene	210	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Bis(2-ethylhexyl)phthalate	3	55.1	<10.0	5.80 J	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Diethylphthalate	5,000	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Di-n-octylphthalate	140	<10.0	<10.0	20.2	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Anthracene	2100	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Benzo(a)anthracene	0.05	< 4.9	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Flouranthene	280	< 4.9	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Flourene	280	<10.0	<10.0	<10.0	<10.0	2.70 J	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
1-Methylnaphthalene	RL	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
2-Methylnaphthalene	14	4.00 J	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Naphthalene	21	17.1	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	54.3	<10.0	<10.0	<10.0	<10.0
Phenanthrene	210	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
TIC's		712.2	125.93	106.39	10.6	16.7	21.9	9.0	111.5	27.7	110.8	213.47	12.3
Pyrene	210	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPA 200.7 / SM 3030C (ug/L)													
Lead (EPA 6010B / SM 3030C) (ug/L)	15	1.53 J	0.500 J	< 5.0	< 5.0	1.57 J	0.525 J	1.02 J	0.650 J	< 5.0	< 5.0	< 5.0	< 5.0

Bold type indicates detectable contaminant concentrations

Bold and shaded indicates detectable concentrations above the NCGWQS

Bold and shaded indicates detectable concentrations above the GCL

NCGWQS - North Carolina Groundwater Quality Standard

GCL - Gross Contaminant Level

<# - not detected at the indicated reporting limit

ug/L - micrograms per liter

NE - Not established

RL - the NCGWQS for the constituent is the reporting limit

ND - None detected (no summed constituents were detected)

J - estimated concentration between minimum detection limit and reporting limit

B - Amount in prep blank > MDL

APPENDIX B

LABORATORY REPORTS AND CHAIN OF CUSTODY DOCUMENTATION FROM 2006-2007 SAMPLING EVENTS



Mr. Chris Murray
Sovereign Consulting
405 Oakmeads Crescent
Suite 1
Virginia Beach VA 23462
Report Number: G650-118
Client Project: NV019

Dear Mr. Murray:

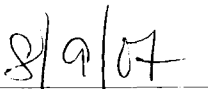
Enclosed are the results of the analytical services performed under the referenced project. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period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

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

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

Sincerely,
SGS/Paradigm Analytical Laboratories, Inc.


Laboratory Director
J. Patrick Weaver


Date



CASE NARRATIVE

Date: August 9, 2007

Sovereign Consulting Project ID: NV019 LCH4015
SGS Environmental ID: G650-118

Twenty five water samples were submitted to the laboratory for analysis by methods 602, 625+10 tics and Pb by 3030c. The samples were received in good condition and within temperature limits.

All analyses were completed within holding time and without quality control problems with the following exceptions.

The first three samples from this set were received and digested for Pb by 3030c outside of the method specified holding time. The affected samples were USTLCH4015-MW14, MW13 and MW12. The results have been included in the report.

The 625 analysis for samples USTLCH4015-MW20, MW15, and the duplicate were extracted within holding time. However, several of the surrogates recovered below the control limit in these extractions. There was insufficient volume for re-extraction for sample MW-20 because this sample was chosen for the MS/MSD during the initial extraction. The other two samples were re-extracted and all surrogates passed recovery limits. However, the re-extractions were performed outside of the 7-day holding time limit.

Results for both extractions are included in the following summary report.

**Results for Volatiles**

by GC 602

Client Sample ID: USTLCH4015-MW14

Analyzed By: RSB

Client Project ID: NV019

Date Collected: 7/23/2007 15:59

Lab Sample ID: G650-118-1D

Date Received: 7/26/2007

Lab Project ID: G650-118

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.183	1	7/31/2007	
Diisopropyl ether (DIPE)	BQL	1.00	0.229	1	7/31/2007	
Ethylbenzene	BQL	1.00	0.181	1	7/31/2007	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.359	1	7/31/2007	
Toluene	BQL	1.00	0.157	1	7/31/2007	
m/p-Xylene	BQL	2.00	0.481	1	7/31/2007	
o-Xylene	BQL	2.00	0.584	1	7/31/2007	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	40.3	101

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: USTLCH4015-TRIP BLANK

Analyzed By: RSB

Client Project ID: NV019

Date Collected: 7/23/2007 0:00

Lab Sample ID: G650-118-2G

Date Received: 7/26/2007

Lab Project ID: G650-118

Matrix: Water

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

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	40.8	102

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: USTLCH4015-MW13

Analyzed By: RSB

Client Project ID: NV019

Date Collected: 7/23/2007 16:38

Lab Sample ID: G650-118-3D

Date Received: 7/26/2007

Lab Project ID: G650-118

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.183	1	7/31/2007	
Diisopropyl ether (DIPE)	BQL	1.00	0.229	1	7/31/2007	
Ethylbenzene	BQL	1.00	0.181	1	7/31/2007	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.359	1	7/31/2007	
Toluene	BQL	1.00	0.157	1	7/31/2007	
m/p-Xylene	BQL	2.00	0.481	1	7/31/2007	
o-Xylene	BQL	2.00	0.584	1	7/31/2007	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	40.8	102

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: USTLCH4015-MW12

Analyzed By: RSB

Client Project ID: NV019

Date Collected: 7/23/2007 17:22

Lab Sample ID: G650-118-4D

Date Received: 7/26/2007

Lab Project ID: G650-118

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.183	1	7/31/2007	
Diisopropyl ether (DIPE)	BQL	1.00	0.229	1	7/31/2007	
Ethylbenzene	BQL	1.00	0.181	1	7/31/2007	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.359	1	7/31/2007	
Toluene	BQL	1.00	0.157	1	7/31/2007	
m/p-Xylene	BQL	2.00	0.481	1	7/31/2007	
o-Xylene	BQL	2.00	0.584	1	7/31/2007	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	40.5	101

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: USTLCH4015-MW21

Analyzed By: RSB

Client Project ID: NV019

Date Collected: 7/24/2007 9:32

Lab Sample ID: G650-118-5D

Date Received: 7/26/2007

Lab Project ID: G650-118

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	21.0	1.00	0.183	1	7/31/2007	
Diisopropyl ether (DIPE)	0.378	1.00	0.229	1	7/31/2007	J
Ethylbenzene	1.31	1.00	0.181	1	7/31/2007	
Methyl-tert butyl ether (MTBE)	19.4	2.00	0.359	1	7/31/2007	
Toluene	BQL	1.00	0.157	1	7/31/2007	
m/p-Xylene	BQL	2.00	0.481	1	7/31/2007	
o-Xylene	BQL	2.00	0.584	1	7/31/2007	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	38.9	97.4

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: USTLCH4015-MW19

Analyzed By: RSB

Client Project ID: NV019

Date Collected: 7/24/2007 10:04

Lab Sample ID: G650-118-6D

Date Received: 7/26/2007

Lab Project ID: G650-118

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.183	1	7/31/2007	
Diisopropyl ether (DIPE)	BQL	1.00	0.229	1	7/31/2007	
Ethylbenzene	BQL	1.00	0.181	1	7/31/2007	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.359	1	7/31/2007	
Toluene	BQL	1.00	0.157	1	7/31/2007	
m/p-Xylene	BQL	2.00	0.481	1	7/31/2007	
o-Xylene	BQL	2.00	0.584	1	7/31/2007	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	40.3	101

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: USTLCH4015-MW18

Analyzed By: RSB

Client Project ID: NV019

Date Collected: 7/24/2007 10:25

Lab Sample ID: G650-118-7E

Date Received: 7/26/2007

Lab Project ID: G650-118

Matrix: Water

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

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	43.1	108

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: USTLCH4015-MW22

Analyzed By: RSB

Client Project ID: NV019

Date Collected: 7/24/2007 11:24

Lab Sample ID: G650-118-8E

Date Received: 7/26/2007

Lab Project ID: G650-118

Matrix: Water

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

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-VOA_WA

**Results for Volatiles**

by GC 602

Client Sample ID: USTLCH4015-MW20

Analyzed By: RSB

Client Project ID: NV019

Date Collected: 7/24/2007 12:12

Lab Sample ID: G650-118-9E

Date Received: 7/26/2007

Lab Project ID: G650-118

Matrix: Water

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

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	41.1	103

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: USTLCH4015-MW02

Analyzed By: RSB

Client Project ID: NV019

Date Collected: 7/24/2007 12:39

Lab Sample ID: G650-118-10E

Date Received: 7/26/2007

Lab Project ID: G650-118

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	3.16	1.00	0.183	1	8/1/2007	
Diisopropyl ether (DIPE)	BQL	1.00	0.229	1	8/1/2007	
Ethylbenzene	2.76	1.00	0.181	1	8/1/2007	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.359	1	8/1/2007	
Toluene	BQL	1.00	0.157	1	8/1/2007	
m/p-Xylene	11.5	2.00	0.481	1	8/1/2007	
o-Xylene	BQL	2.00	0.584	1	8/1/2007	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	42.1	105

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: USTLCH4015-MW23

Analyzed By: RSB

Client Project ID: NV019

Date Collected: 7/24/2007 16:36

Lab Sample ID: G650-118-11E

Date Received: 7/26/2007

Lab Project ID: G650-118

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	46.3	4.00	0.732	4	8/1/2007	
Diisopropyl ether (DIPE)	3.24	4.00	0.916	4	8/1/2007	J
Ethylbenzene	BQL	4.00	0.724	4	8/1/2007	
Methyl-tert butyl ether (MTBE)	42.3	8.00	1.44	4	8/1/2007	
Toluene	BQL	4.00	0.628	4	8/1/2007	
m/p-Xylene	BQL	8.00	1.92	4	8/1/2007	
o-Xylene	BQL	8.00	2.34	4	8/1/2007	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	38.8	97

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: USTLCH4015-MW01

Analyzed By: RSB

Client Project ID: NV019

Date Collected: 7/24/2007 17:12

Lab Sample ID: G650-118-12D

Date Received: 7/26/2007

Lab Project ID: G650-118

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	9.74	8.00	1.46	8	7/31/2007	
Diisopropyl ether (DIPE)	BQL	8.00	1.83	8	7/31/2007	
Ethylbenzene	145	8.00	1.45	8	7/31/2007	
Methyl-tert butyl ether (MTBE)	BQL	16.0	2.87	8	7/31/2007	
Toluene	BQL	8.00	1.26	8	7/31/2007	
m/p-Xylene	293	16.0	3.85	8	7/31/2007	
o-Xylene	BQL	16.0	4.67	8	7/31/2007	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	42.1	105

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: USTLCH4015-MW07

Analyzed By: RSB

Client Project ID: NV019

Date Collected: 7/24/2007 17:57

Lab Sample ID: G650-118-13E

Date Received: 7/26/2007

Lab Project ID: G650-118

Matrix: Water

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

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	40.8	102

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: USTLCH4015-MW16

Analyzed By: RSB

Client Project ID: NV019

Date Collected: 7/24/2007 18:22

Lab Sample ID: G650-118-14E

Date Received: 7/26/2007

Lab Project ID: G650-118

Matrix: Water

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

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	41.0	102

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: USTLCH4015-MW15

Analyzed By: RSB

Client Project ID: NV019

Date Collected: 7/24/2007 19:01

Lab Sample ID: G650-118-15E

Date Received: 7/26/2007

Lab Project ID: G650-118

Matrix: Water

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

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	40.6	102

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: USTLCH4015-MW08

Analyzed By: RSB

Client Project ID: NV019

Date Collected: 7/25/2007 9:17

Lab Sample ID: G650-118-16E

Date Received: 7/26/2007

Lab Project ID: G650-118

Matrix: Water

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

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	40.7	102

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: USTLCH4015-MW04

Analyzed By: RSB

Client Project ID: NV019

Date Collected: 7/25/2007 9:39

Lab Sample ID: G650-118-17E

Date Received: 7/26/2007

Lab Project ID: G650-118

Matrix: Water

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

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	40.9	102

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: USTLCH4015-MW05

Analyzed By: RSB

Client Project ID: NV019

Date Collected: 7/25/2007 10:47

Lab Sample ID: G650-118-18E

Date Received: 7/26/2007

Lab Project ID: G650-118

Matrix: Water

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

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	40.5	101

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: USTLCH4015-MW03

Analyzed By: RSB

Client Project ID: NV019

Date Collected: 7/25/2007 11:17

Lab Sample ID: G650-118-19E

Date Received: 7/26/2007

Lab Project ID: G650-118

Matrix: Water

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

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	42.2	106

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: USTLCH4015-MW09

Analyzed By: RSB

Client Project ID: NV019

Date Collected: 7/25/2007 11:40

Lab Sample ID: G650-118-20E

Date Received: 7/26/2007

Lab Project ID: G650-118

Matrix: Water

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

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	40.3	101

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: USTLCH4015-MW24

Analyzed By: RSB

Client Project ID: NV019

Date Collected: 7/25/2007 12:07

Lab Sample ID: G650-118-21E

Date Received: 7/26/2007

Lab Project ID: G650-118

Matrix: Water

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

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	43.1	108

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: USTLCH4015-MW10

Analyzed By: RSB

Client Project ID: NV019

Date Collected: 7/25/2007 12:36

Lab Sample ID: G650-118-22E

Date Received: 7/26/2007

Lab Project ID: G650-118

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.183	1	8/2/2007	
Diisopropyl ether (DIPE)	BQL	1.00	0.229	1	8/2/2007	
Ethylbenzene	BQL	1.00	0.181	1	8/2/2007	
Methyl-tert butyl ether (MTBE)	0.587	2.00	0.359	1	8/2/2007	J
Toluene	BQL	1.00	0.157	1	8/2/2007	
m/p-Xylene	BQL	2.00	0.481	1	8/2/2007	
o-Xylene	BQL	2.00	0.584	1	8/2/2007	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	41.1	103

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: USTLCH4015-MW06

Analyzed By: RSB

Client Project ID: NV019

Date Collected: 7/25/2007 13:06

Lab Sample ID: G650-118-23E

Date Received: 7/26/2007

Lab Project ID: G650-118

Matrix: Water

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

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	40.9	102

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: USTLCH4015-MW11

Analyzed By: RSB

Client Project ID: NV019

Date Collected: 7/25/2007 13:36

Lab Sample ID: G650-118-24E

Date Received: 7/26/2007

Lab Project ID: G650-118

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.183	1	8/2/2007	
Diisopropyl ether (DIPE)	BQL	1.00	0.229	1	8/2/2007	
Ethylbenzene	5.04	1.00	0.181	1	8/2/2007	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.359	1	8/2/2007	
Toluene	BQL	1.00	0.157	1	8/2/2007	
m/p-Xylene	BQL	2.00	0.481	1	8/2/2007	
o-Xylene	BQL	2.00	0.584	1	8/2/2007	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	40.7	102

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: USTLCH4015-DUPLICATE

Analyzed By: RSB

Client Project ID: NV019

Date Collected: 7/24/2007 0:00

Lab Sample ID: G650-118-25E

Date Received: 7/26/2007

Lab Project ID: G650-118

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	46.2	4.00	0.732	4	8/1/2007	
Diisopropyl ether (DIPE)	3.21	4.00	0.916	4	8/1/2007	J
Ethylbenzene	BQL	4.00	0.724	4	8/1/2007	
Methyl-tert butyl ether (MTBE)	44.9	8.00	1.44	4	8/1/2007	
Toluene	BQL	4.00	0.628	4	8/1/2007	
m/p-Xylene	BQL	8.00	1.92	4	8/1/2007	
o-Xylene	BQL	8.00	2.34	4	8/1/2007	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	38.7	96.8

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: Method Blank

Analyzed By: RSB

Client Project ID:

Date Collected:

Lab Sample ID: VBLK1073107A

Date Received:

Lab Project ID:

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.183	1	7/31/2007	
Diisopropyl ether (DIPE)	BQL	1.00	0.229	1	7/31/2007	
Ethylbenzene	BQL	1.00	0.181	1	7/31/2007	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.359	1	7/31/2007	
Toluene	BQL	1.00	0.157	1	7/31/2007	
m/p-Xylene	BQL	2.00	0.481	1	7/31/2007	
o-Xylene	BQL	2.00	0.584	1	7/31/2007	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	40.7	102

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

Summary Results for QC Check

Method : 601

Filename : 1073107/002F

Compound	SA	Result	Rec	F	QC Limits	
	ug/L	ug/L	(%)		Lower	Upper
Bromodichloromethane	20.0	18.7	93.7		76.0	124.0
Bromoform	20.0	18.6	92.9		73.5	126.5
Bromomethane	20.0	17.9	89.4		58.5	141.5
Carbon tetrachloride	40.0	39.7	99.2		68.5	131.5
Chlorobenzene	20.0	19.6	97.8		72.0	128.0
Chloroethane	20.0	18.0	90.0		77.0	123.0
Chloroform	20.0	19.5	97.7		75.0	125.0
Chloromethane	20.0	19.6	97.8		59.5	140.5
Dibromochloromethane	20.0	19.0	95.1		65.5	134.5
1,2-Dibromoethane	20.0	19.1	95.4		13.6	186.4
1,2-Dichlorobenzene	20.0	19.4	97.1		70.0	130.0
1,3-Dichlorobenzene	20.0	19.9	99.4		49.5	150.5
1,4-Dichlorobenzene	20.0	19.8	99.2		69.5	130.5
1,1-Dichloroethane	20.0	19.8	99.0		84.0	116.0
1,2-Dichloroethane	20.0	19.3	96.6		71.5	128.5
1,1-Dichloroethene	20.0	18.8	94.1		63.0	137.0
cis-1,2-Dichloroethene	40.0	42.4	105.9		34.4	180.6
trans-1,2-Dichloroethene	20.0	19.3	96.6		64.0	136.0
1,2-Dichloropropane	20.0	19.5	97.7		74.0	126.0
cis-1,3-Dichloropropene	20.0	19.2	96.0		64.0	136.0
trans-1,3-Dichloropropene	20.0	19.1	95.5		64.0	136.0
Methylene Chloride	20.0	18.9	94.6		77.5	122.5
1,1,2,2-Tetrachloroethane	60.0	57.2	95.4		49.0	151.0
Tetrachloroethene	40.0	39.1	97.8		70.0	130.0
1,1,1-Trichloroethane	20.0	19.5	97.7		71.0	129.0
1,1,2-Trichloroethane	20.0	18.9	94.7		78.5	121.5
Trichloroethene	20.0	19.6	98.0		77.0	123.0
Trichlorofluoromethane	20.0	18.1	90.3		66.5	133.5
Vinyl Chloride	20.0	18.0	89.8		68.5	131.5

Method: 602

Filename : 1073107/002r

Compound	SA	Result	Rec	F	QC Limits	
	ug/L	ug/L	(%)		Lower	Upper
Benzene	20.0	20.5	102.5		77.0	123.0
Chlorobenzene	20.0	20.4	101.9		80.5	119.5
1,2-Dichlorobenzene	40.0	41.7	104.2		68.0	132.0
1,3-Dichlorobenzene	20.0	20.6	103.1		72.5	127.5
1,4-Dichlorobenzene	40.0	41.8	104.4		69.5	130.5
Diisopropyl ether	20.0	19.7	98.5		43.1	156.9
Ethylbenzene	20.0	21.2	106.1		63.0	137.0
MTBE	40.0	38.7	96.9		46.8	153.2
Toluene	20.0	20.8	103.8		77.5	127.0
m,p-Xylene	40.0	42.4	105.9		11.2	188.8
o-Xylene	40.0	41.8	104.5		47.6	152.4

Flags :

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

Summary Results for Laboratory Control Spike

Method : 601

Filename : 1073107/004F

Compound	SA	Result	Rec	F	LCS Limits	
	ug/L	ug/L	(%)		Lower	Upper
Bromodichloromethane	10.0	9.6	96.0		42	172
Bromoform	10.0	9.5	94.9		13	159
Bromomethane	10.0	10.6	106.1		0	144
Carbon tetrachloride	20.0	20.6	102.8		43	143
Chlorobenzene	10.0	10.0	100.0		38	150
Chloroethane	10.0	10.6	106.5		46	137
Chloroform	10.0	10.0	100.5		49	133
Chloromethane	10.0	11.5	114.8		0	193
Dibromochloromethane	10.0	9.7	96.8		24	191
• 1,2-Dibromoethane	10.0	9.6	96.3		0	206
1,2-Dichlorobenzene	10.0	10.1	101.2		0	208
1,3-Dichlorobenzene	10.0	10.3	102.7		7	187
1,4-Dichlorobenzene	10.0	10.1	101.0		42	143
1,1-Dichloroethane	10.0	10.1	100.9		47	132
1,2-Dichloroethane	10.0	10.0	99.7		51	147
1,1-Dichloroethene	10.0	9.9	98.9		28	167
• cis-1,2-Dichloroethene	20.0	22.0	110.0		19	181
trans-1,2-Dichloroethene	10.0	10.0	100.2		38	155
1,2-Dichloropropane	10.0	10.4	103.7		44	156
cis-1,3-Dichloropropene	10.0	9.8	97.8		22	178
trans-1,3-Dichloropropene	10.0	9.7	97.3		22	178
Methylene Chloride	10.0	9.2	92.0		25	162
1,1,2,2-Tetrachloroethane	30.0	29.7	98.9		8	184
Tetrachloroethane	10.0	10.4	104.5		26	162
1,1,1-Trichloroethane	10.0	10.0	100.2		41	138
1,1,2-Trichloroethane	10.0	10.0	99.8		39	136
Trichloroethene	10.0	10.1	100.8		35	146
Trichlorofluoromethane	10.0	10.6	106.2		21	156
Vinyl Chloride	10.0	10.9	109.1		28	163

Method: 602

Filename : 1073107/004r

Compound	SA	Result	Rec	LCS Limits	
	ug/L	ug/L	(%)	Lower	Upper
Benzene	10.0	10.4	103.7	39	150
Chlorobenzene	10.0	10.4	104.3	55	135
1,2-Dichlorobenzene	20.0	21.3	106.7	37	154
1,3-Dichlorobenzene	10.0	10.7	106.6	50	141
1,4-Dichlorobenzene	20.0	21.6	108.0	42	143
• Diisopropyl ether	10.0	10.0	99.9	30	170
Ethylbenzene	10.0	10.9	109.0	32	160
• MTBE	20.0	19.7	98.4	35	165
Toluene	10.0	10.6	106.0	46	148
• m,p-Xylene	20.0	21.8	109.2	0	239
• o-Xylene	20.0	21.6	108.0	36	164

Flags :

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

Method : 601

Summary Results for MS-MSD

Sample : 1073107/015F::1073107/015R

MS : 1073107/017F::1073107/017R

MSD : 1073107/018F::1073107/018R

Compound	SA	µg/L			REC(%)		REC Limits	
		Sam.	MS	MSD	MS	MSD	Lower	Upper
Bromodichloromethane	10.0	ND	9.4	8.5	93	84	42	172
Bromoform	10.0	ND	9.6	8.8	96	88	13	159
Bromomethane	10.0	ND	8.6	9.6	86	96	D	144
Carbon tetrachloride	20.0	ND	19.8	19.1	99	95	43	143
Chlorobenzene	10.0	ND	9.4	9.0	94	90	38	150
Chloroethane	10.0	ND	8.6	9.5	86	95	46	137
Chloroform	10.0	ND	9.9	9.4	99	94	49	133
Chloromethane	10.0	ND	10.0	10.7	95	102	D	193
Dibromochloromethane	10.0	ND	9.5	9.1	95	91	24	191
1,2-Dibromoethane	10.0	ND	9.7	8.8	97	88	D	206
1,2-Dichlorobenzene	10.0	ND	10.0	9.3	100	93	D	208
1,3-Dichlorobenzene	10.0	ND	9.6	9.3	96	93	7	187
1,4-Dichlorobenzene	10.0	ND	9.9	9.4	99	94	42	143
1,1-Dichloroethane	10.0	ND	9.7	9.1	97	91	47	132
1,2-Dichloroethane	10.0	ND	9.8	9.1	98	91	51	147
1,1-Dichloroethene	10.0	ND	9.4	8.7	94	87	28	167
cis-1,2-Dichloroethene	20.0	ND	21.2	20.1	106	100	19	181
trans-1,2-Dichloroethene	10.0	ND	9.7	9.1	97	91	38	155
1,2-Dichloropropane	10.0	ND	10.0	9.3	94	87	44	156
cis-1,3-Dichloropropene	10.0	ND	9.5	8.7	95	87	22	178
trans-1,3-Dichloropropene	10.0	ND	9.3	8.9	93	89	22	178
Methylene Chloride	10.0	ND	9.2	8.7	101	97	25	162
1,1,2,2-Tetrachloroethane	20.0	ND	29.7	28.2	149	141	8	184
Tetrachloroethane	20.0	ND	19.9	18.7	103	96	26	162
1,1,1-Trichloroethane	10.0	ND	9.8	9.3	98	93	41	138
1,1,2-Trichloroethane	10.0	ND	9.8	9.3	98	93	39	136
Trichloroethene	10.0	ND	9.8	9.1	98	91	35	146
Trichlorofluoromethane	10.0	ND	8.6	9.3	86	93	21	156
Vinyl Chloride	10.0	ND	8.6	9.9	82	95	28	163

Method: 602

Compound	SA	µg/L			P(%)		P Limits	
		Sam.	MS	MSD	MS	MSD	Lower	Upper
Benzene	10.0	ND	10.7	10.3	107	103	39	150
Chlorobenzene	10.0	ND	10.0	9.5	100	95	55	135
1,2-Dichlorobenzene	20.0	ND	20.6	19.8	104	101	37	154
1,3-Dichlorobenzene	10.0	ND	10.1	9.8	106	103	50	141
1,4-Dichlorobenzene	20.0	ND	19.5	18.8	93	89	42	143
Diisopropyl ether	10.0	ND	10.7	10.1	111	105	30	170
Ethylbenzene	10.0	1.5	12.4	12.0	109	105	32	160
MTBE	20.0	ND	19.2	18.5	102	98	35	165
Toluene	10.0	17.8	27.5	27.2	97	95	46	148
m,p-Xylene	20.0	9.8	31.4	30.6	108	104	D	239
o-Xylene	20.0	3.9	25.4	24.6	108	104	36	164

Flags :

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

**Results for Volatiles**

by GC 602

Client Sample ID: Method Blank

Analyzed By: RSB

Client Project ID:

Date Collected:

Lab Sample ID: VBLK1073107B

Date Received:

Lab Project ID:

Matrix: Water

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

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	40.8	102

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.



Summary Results for QC Check

Method: 602

Filename : 1073107/024r

Compound	SA	Result	Rec	QC Limits	
	ug/L	ug/L	(%)	Lower	Upper
Benzene	20.0	18.3	91.7	77.0	123.0
Chlorobenzene	20.0	18.3	91.3	80.5	119.5
1,2-Dichlorobenzene	40.0	37.5	93.8	68.0	132.0
1,3-Dichlorobenzene	20.0	18.8	93.9	72.5	127.5
1,4-Dichlorobenzene	40.0	37.6	94.0	69.5	130.5
• Diisopropyl ether	20.0	17.6	87.9	43.1	156.9
Ethylbenzene	20.0	19.1	95.3	63.0	137.0
• MTBE	40.0	34.5	86.3	46.8	153.2
Toluene	20.0	18.7	93.5	77.5	127.0
• m,p-Xylene	40.0	38.2	95.6	11.2	188.8
• o-Xylene	40.0	37.9	94.9	47.6	152.4

Flags :

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

Summary Results for Laboratory Control Spike

Method: 602

Filename : 1073107/026r

Compound	SA	Result	Rec	LCS Limits	
	ug/L	ug/L	(%)	Lower	Upper
Benzene	10.0	9.3	93.0	39	150
Chlorobenzene	10.0	9.2	92.3	55	135
1,2-Dichlorobenzene	20.0	18.5	92.7	37	154
1,3-Dichlorobenzene	10.0	9.4	94.5	50	141
1,4-Dichlorobenzene	20.0	19.0	94.8	42	143
• Diisopropyl ether	10.0	8.9	88.6	30	170
Ethylbenzene	10.0	9.7	96.6	32	160
• MTBE	20.0	17.5	87.7	35	165
Toluene	10.0	9.6	95.6	46	148
• m,p-Xylene	20.0	19.3	96.4	0	239
• o-Xylene	20.0	19.2	95.8	36	164

Flags :

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

Summary Results for MS-MSD

Method: 882

Sample : 1073107/039F::1073107/039R

MS : 1073107/041F::1073107/041R

MSD : 1073107/042F::1073107/042R

Compound	SA	µg/L			REC(%)		REC Limits	
		Sam.	MS	MSD	MS	MSD	Lower	Upper
Benzene	10.0	ND	8.5	8.7	85	85	39	150
Chlorobenzene	10.0	ND	8.1	8.6	81	81	55	135
1,2-Dichlorobenzene	20.0	ND	15.8	16.2	79	79	37	154
1,3-Dichlorobenzene	10.0	ND	8.0	8.4	80	80	50	141
1,4-Dichlorobenzene	20.0	ND	16.3	16.9	82	82	42	143
• Diisopropyl ether	10.0	ND	7.9	8.4	79	79	30	170
Ethylbenzene	10.0	ND	8.4	8.8	84	84	32	160
• MTBE	20.0	ND	15.6	16.6	78	78	35	165
Toluene	10.0	ND	8.4	8.8	84	84	46	148
• m,p-Xylene	20.0	ND	16.7	17.5	84	84	D	239
• o-Xylene	20.0	ND	16.5	17.4	82	82	36	164

Flags :

+ = out of QC limits.

• = lab generated limits.

D = Detected

ND = None Detected

SA= Spike Added

**Results for Volatiles**

by GC 602

Client Sample ID: Method Blank

Analyzed By: RSB

Client Project ID:

Date Collected:

Lab Sample ID: VBLK1080107A

Date Received:

Lab Project ID:

Matrix: Water

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

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	41.1	103

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

Summary Results for QC Check

Method: 602

Filename : 1080107/002R

Compound	SA	Result	Rec	QC Limits	
	ug/L	ug/L	(%)	Lower	Upper
Benzene	20.0	18.1	90.7	77.0	123.0
Chlorobenzene	20.0	18.0	89.8	80.5	119.5
1,2-Dichlorobenzene	40.0	33.8	84.6	68.0	132.0
1,3-Dichlorobenzene	20.0	17.5	87.7	72.5	127.5
1,4-Dichlorobenzene	40.0	34.6	86.4	69.5	130.5
• Diisopropyl ether	20.0	17.5	87.3	43.1	156.9
Ethylbenzene	20.0	18.5	92.7	63.0	137.0
• MTBE	40.0	34.6	86.5	46.8	153.2
Toluene	20.0	18.3	91.5	77.5	127.0
• m,p-Xylene	40.0	37.0	92.4	11.2	188.8
• o-Xylene	40.0	36.4	91.0	47.6	152.4

Flags :

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

Summary Results for Laboratory Control Spike

Method: 602

Filename : 1080107/004R

Compound	SA	Result	Rec	LCS Limits	
	ug/L	ug/L	(%)	Lower	Upper
Benzene	10.0	10.9	109.2	39	150
Chlorobenzene	10.0	10.8	108.0	55	135
1,2-Dichlorobenzene	20.0	21.5	107.7	37	154
1,3-Dichlorobenzene	10.0	10.9	109.4	50	141
1,4-Dichlorobenzene	20.0	21.7	108.3	42	143
• Diisopropyl ether	10.0	10.4	104.2	30	170
Ethylbenzene	10.0	11.2	112.4	32	160
• MTBE	20.0	20.5	102.7	35	165
Toluene	10.0	11.1	111.0	46	148
• m,p-Xylene	20.0	22.4	112.2	0	239
• o-Xylene	20.0	22.1	110.7	36	164

Flags :

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

Summary Results for MS-MSD

Method: 602

Sample : 1080107/015F::1080107/015R

MS : 1080107/017F::1080107/017R

MSD : 1080107/018F::1080107/018R

Compound	SA	µg/L			REC(%)		REC Limits	
		Sam.	MS	MSD	MS	MSD	Lower	Upper
Benzene	10.0	ND	10.3	10.2	103	103	39	150
Chlorobenzene	10.0	ND	9.6	9.5	96	96	55	135
1,2-Dichlorobenzene	10.0	ND	19.8	19.3	198 +	198 +	37	154
1,3-Dichlorobenzene	10.0	ND	9.8	9.6	98	98	50	141
1,4-Dichlorobenzene	10.0	ND	19.6	19.5	196 +	196 +	42	143
• Diisopropyl ether	10.0	ND	9.5	9.5	95	95	30	170
Ethylbenzene	10.0	ND	10.0	9.9	100	100	32	160
• MTBE	20.0	ND	19.2	18.9	96	96	35	165
Toluene	10.0	ND	9.9	9.9	99	99	46	148
• m,p-Xylene	20.0	ND	19.7	19.7	99	99	D	239
• o-Xylene	20.0	ND	19.7	19.6	98	98	36	164

Flags :

+ = out of QC limits.

• = lab generated limits.

D = Detected

ND = None Detected

SA= Spike Added

**Results for Volatiles**

by GC 602

Client Sample ID: Method Blank

Analyzed By: RSB

Client Project ID:

Date Collected:

Lab Sample ID: VBLK1080107B

Date Received:

Lab Project ID:

Matrix: Water

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

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	41.3	103

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

Summary Results for QC Check

Method: 602

Filename : 1080107/021R

Compound	SA	Result	Rec	QC Limits	
	ug/L	ug/L	(%)	Lower	Upper
Benzene	20.0	20.5	102.5	77.0	123.0
Chlorobenzene	20.0	20.3	101.7	80.5	119.5
1,2-Dichlorobenzene	40.0	40.4	101.0	68.0	132.0
1,3-Dichlorobenzene	20.0	20.3	101.5	72.5	127.5
1,4-Dichlorobenzene	40.0	40.7	101.7	69.5	130.5
• Diisopropyl ether	20.0	20.3	101.3	43.1	156.9
Ethylbenzene	20.0	21.0	104.9	63.0	137.0
• MTBE	40.0	39.6	98.9	46.8	153.2
Toluene	20.0	20.7	103.5	77.5	127.0
• m,p-Xylene	40.0	41.8	104.6	11.2	188.8
• o-Xylene	40.0	41.5	103.8	47.6	152.4

Flags :

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



Summary Results for Laboratory Control Spike

Method: 602

Filename : 1080107/023R

Compound	SA	Result	Rec	LCS Limits	
	ug/L	ug/L	(%)	Lower	Upper
Benzene	10.0	11.0	109.7	39	150
Chlorobenzene	10.0	10.9	108.8	55	135
1,2-Dichlorobenzene	20.0	21.8	109.2	37	154
1,3-Dichlorobenzene	10.0	11.0	109.9	50	141
1,4-Dichlorobenzene	20.0	22.3	111.7	42	143
• Diisopropyl ether	10.0	10.6	106.3	30	170
Ethylbenzene	10.0	11.3	112.6	32	160
• MTBE	20.0	20.8	103.9	35	165
Toluene	10.0	11.1	111.3	46	148
• m,p-Xylene	20.0	22.5	112.7	0	239
• o-Xylene	20.0	22.3	111.7	36	164

Flags :

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

Summary Results for MS-MSD

Method: 602

Sample : 1080107/035F::1080107/035R

MS : 1080107/037F::1080107/037R

MSD : 1080107/038F::1080107/038R

		µg/L			REC(%)		REC Limits	
Compound	SA	Sam.	MS	MSD	MS	MSD	Lower	Upper
Benzene	10.0	ND	10.1	10.2	101	101	39	150
Chlorobenzene	10.0	ND	9.9	10.0	99	99	55	135
1,2-Dichlorobenzene	10.0	ND	18.3	19.7	183 +	183 +	37	154
1,3-Dichlorobenzene	10.0	ND	9.6	10.0	96	96	50	141
1,4-Dichlorobenzene	10.0	ND	19.0	20.2	190 +	190 +	42	143
• Diisopropyl ether	10.0	ND	9.7	9.9	97	97	30	170
Ethylbenzene	10.0	ND	10.1	10.4	101	101	32	160
• MTBE	20.0	ND	19.0	19.3	95	95	35	165
Toluene	10.0	ND	10.2	10.4	102	102	46	148
• m,p-Xylene	20.0	ND	20.1	20.6	100	100	D	239
• o-Xylene	20.0	ND	19.9	20.5	99	99	36	164

Flags :

+ = out of QC limits.

• = lab generated limits.

D = Detected

ND = None Detected

SA= Spike Added

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTLCH4015-MW14
Client Project ID: NV019
Lab Sample ID: G650-118-11
Lab Project ID: G650-118

Analyzed By: EAW
Date Collected: 7/23/2007 15:59
Date Received: 7/26/2007
Date Extracted: 7/27/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	7/31/2007	
Acenaphthylene	BQL	10.0	1.12	1	7/31/2007	
Anthracene	BQL	10.0	1.75	1	7/31/2007	
Benzo[a]anthracene	BQL	10.0	1.36	1	7/31/2007	
Benzo[a]pyrene	BQL	10.0	1.27	1	7/31/2007	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	7/31/2007	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	7/31/2007	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	7/31/2007	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	7/31/2007	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	7/31/2007	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	7/31/2007	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	7/31/2007	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	7/31/2007	
Butylbenzylphthalate	BQL	10.0	1.53	1	7/31/2007	
2-Chloronaphthalene	BQL	10.0	1.25	1	7/31/2007	
2-Chlorophenol	BQL	10.0	4.22	1	7/31/2007	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	7/31/2007	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	7/31/2007	
Chrysene	BQL	10.0	1.11	1	7/31/2007	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	7/31/2007	
Di-n-Butylphthalate	BQL	10.0	1.65	1	7/31/2007	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	7/31/2007	
2,4-Dichlorophenol	BQL	10.0	3.75	1	7/31/2007	
Diethylphthalate	BQL	10.0	1.48	1	7/31/2007	
Dimethylphthalate	BQL	10.0	1.04	1	7/31/2007	
2,4-Dimethylphenol	BQL	10.0	9.25	1	7/31/2007	
Di-n-octylphthalate	BQL	10.0	1.16	1	7/31/2007	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	7/31/2007	
2,4-Dinitrophenol	BQL	50.0	4.20	1	7/31/2007	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	7/31/2007	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	7/31/2007	
Diphenylamine *	BQL	10.0	1.53	1	7/31/2007	
Fluoranthene	BQL	10.0	1.41	1	7/31/2007	
Fluorene	BQL	10.0	1.22	1	7/31/2007	
Hexachlorobenzene	BQL	10.0	1.22	1	7/31/2007	
Hexachlorobutadiene	BQL	10.0	1.58	1	7/31/2007	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	7/31/2007	
Hexachloroethane	BQL	10.0	1.58	1	7/31/2007	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	7/31/2007	
Isophorone	BQL	10.0	1.27	1	7/31/2007	
Naphthalene	BQL	10.0	1.08	1	7/31/2007	
Nitrobenzene	BQL	10.0	1.32	1	7/31/2007	
2-Nitrophenol	BQL	10.0	3.52	1	7/31/2007	
4-Nitrophenol	BQL	50.0	3.17	1	7/31/2007	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	7/31/2007	
Pentachlorophenol	BQL	50.0	2.83	1	7/31/2007	
Phenanthrene	BQL	10.0	1.38	1	7/31/2007	

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTLCH4015-MW14
Client Project ID: NV019
Lab Sample ID: G650-118-11
Lab Project ID: G650-118

Analyzed By: EAW
Date Collected: 7/23/2007 15:59
Date Received: 7/26/2007
Date Extracted: 7/27/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Phenol	BQL	10.0	3.38	1	7/31/2007	
Pyrene	BQL	10.0	2.08	1	7/31/2007	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	7/31/2007	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	7/31/2007	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	7.1	71		
2-Fluorophenol		10	6.4	64		
Nitrobenzene-d5		10	7	70		
Phenol-d6		10	6.7	67		
2,4,6-Tribromophenol		10	6.4	64		
4-Terphenyl-d14		10	8.3	83		

Comments:

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

Flags:

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By: 

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

Client Sample ID: USTLCH4015-MW14
Client Project ID: NV019
Lab Sample ID: G650-118-11
Lab Project ID: G650-118
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: EAW
Date Collected: 7/23/2007 15:59
Date Received: 7/26/2007
Date Extracted: 7/27/2007
Date Analyzed: 7/31/2007
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Unknown	6.29			8.26
2	Unknown	12.38			7.87
3	Alkane, Unknown	7.80			4.75
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: USTLCH4015-MW13
Client Project ID: NV019
Lab Sample ID: G650-118-3G
Lab Project ID: G650-118

Analyzed By: EAW
Date Collected: 7/23/2007 16:38
Date Received: 7/26/2007
Date Extracted: 7/27/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	7/31/2007	
Acenaphthylene	BQL	10.0	1.12	1	7/31/2007	
Anthracene	BQL	10.0	1.75	1	7/31/2007	
Benzo[a]anthracene	BQL	10.0	1.36	1	7/31/2007	
Benzo[a]pyrene	BQL	10.0	1.27	1	7/31/2007	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	7/31/2007	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	7/31/2007	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	7/31/2007	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	7/31/2007	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	7/31/2007	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	7/31/2007	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	7/31/2007	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	7/31/2007	
Butylbenzylphthalate	BQL	10.0	1.53	1	7/31/2007	
2-Chloronaphthalene	BQL	10.0	1.25	1	7/31/2007	
2-Chlorophenol	BQL	10.0	4.22	1	7/31/2007	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	7/31/2007	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	7/31/2007	
Chrysene	BQL	10.0	1.11	1	7/31/2007	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	7/31/2007	
Di-n-Butylphthalate	BQL	10.0	1.65	1	7/31/2007	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	7/31/2007	
2,4-Dichlorophenol	BQL	10.0	3.75	1	7/31/2007	
Diethylphthalate	BQL	10.0	1.48	1	7/31/2007	
Dimethylphthalate	BQL	10.0	1.04	1	7/31/2007	
2,4-Dimethylphenol	BQL	10.0	9.25	1	7/31/2007	
Di-n-octylphthalate	BQL	10.0	1.16	1	7/31/2007	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	7/31/2007	
2,4-Dinitrophenol	BQL	50.0	4.20	1	7/31/2007	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	7/31/2007	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	7/31/2007	
Diphenylamine *	BQL	10.0	1.53	1	7/31/2007	
Fluoranthene	BQL	10.0	1.41	1	7/31/2007	
Fluorene	BQL	10.0	1.22	1	7/31/2007	
Hexachlorobenzene	BQL	10.0	1.22	1	7/31/2007	
Hexachlorobutadiene	BQL	10.0	1.58	1	7/31/2007	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	7/31/2007	
Hexachloroethane	BQL	10.0	1.58	1	7/31/2007	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	7/31/2007	
Isophorone	BQL	10.0	1.27	1	7/31/2007	
Naphthalene	BQL	10.0	1.08	1	7/31/2007	
Nitrobenzene	BQL	10.0	1.32	1	7/31/2007	
2-Nitrophenol	BQL	10.0	3.52	1	7/31/2007	
4-Nitrophenol	BQL	50.0	3.17	1	7/31/2007	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	7/31/2007	
Pentachlorophenol	BQL	50.0	2.83	1	7/31/2007	
Phenanthrene	BQL	10.0	1.38	1	7/31/2007	

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTLCH4015-MW13
Client Project ID: NV019
Lab Sample ID: G650-118-3G
Lab Project ID: G650-118

Analyzed By: EAW
Date Collected: 7/23/2007 16:38
Date Received: 7/26/2007
Date Extracted: 7/27/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Phenol	BQL	10.0	3.38	1	7/31/2007	
Pyrene	BQL	10.0	2.08	1	7/31/2007	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	7/31/2007	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	7/31/2007	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	6.8	68		
2-Fluorophenol		10	6.3	63		
Nitrobenzene-d5		10	6.9	69		
Phenol-d6		10	6.6	66		
2,4,6-Tribromophenol		10	6.6	66		
4-Terphenyl-d14		10	8.6	86		

Comments:

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

Flags:

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By: 

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

Client Sample ID: USTLCH4015-MW13
Client Project ID: NV019
Lab Sample ID: G650-118-3G
Lab Project ID: G650-118
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: EAW
Date Collected: 7/23/2007 16:38
Date Received: 7/26/2007
Date Extracted: 7/27/2007
Date Analyzed: 7/31/2007
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Unknown	6.29			22.9
2	Unknown	8.61			10.6
3	Unknown	12.38			9.8
4	Unknown	5.16			4.41
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: USTLCH4015-MW12
Client Project ID: NV019
Lab Sample ID: G650-118-4G
Lab Project ID: G650-118

Analyzed By: EAW
Date Collected: 7/23/2007 17:22
Date Received: 7/26/2007
Date Extracted: 7/27/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	7/31/2007	
Acenaphthylene	BQL	10.0	1.12	1	7/31/2007	
Anthracene	BQL	10.0	1.75	1	7/31/2007	
Benzo[a]anthracene	BQL	10.0	1.36	1	7/31/2007	
Benzo[a]pyrene	BQL	10.0	1.27	1	7/31/2007	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	7/31/2007	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	7/31/2007	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	7/31/2007	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	7/31/2007	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	7/31/2007	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	7/31/2007	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	7/31/2007	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	7/31/2007	
Butylbenzylphthalate	BQL	10.0	1.53	1	7/31/2007	
2-Chloronaphthalene	BQL	10.0	1.25	1	7/31/2007	
2-Chlorophenol	BQL	10.0	4.22	1	7/31/2007	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	7/31/2007	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	7/31/2007	
Chrysene	BQL	10.0	1.11	1	7/31/2007	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	7/31/2007	
Di-n-Butylphthalate	BQL	10.0	1.65	1	7/31/2007	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	7/31/2007	
2,4-Dichlorophenol	BQL	10.0	3.75	1	7/31/2007	
Diethylphthalate	BQL	10.0	1.48	1	7/31/2007	
Dimethylphthalate	BQL	10.0	1.04	1	7/31/2007	
2,4-Dimethylphenol	BQL	10.0	9.25	1	7/31/2007	
Di-n-octylphthalate	BQL	10.0	1.16	1	7/31/2007	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	7/31/2007	
2,4-Dinitrophenol	BQL	50.0	4.20	1	7/31/2007	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	7/31/2007	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	7/31/2007	
Diphenylamine *	BQL	10.0	1.53	1	7/31/2007	
Fluoranthene	BQL	10.0	1.41	1	7/31/2007	
Fluorene	BQL	10.0	1.22	1	7/31/2007	
Hexachlorobenzene	BQL	10.0	1.22	1	7/31/2007	
Hexachlorobutadiene	BQL	10.0	1.58	1	7/31/2007	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	7/31/2007	
Hexachloroethane	BQL	10.0	1.58	1	7/31/2007	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	7/31/2007	
Isophorone	BQL	10.0	1.27	1	7/31/2007	
Naphthalene	BQL	10.0	1.08	1	7/31/2007	
Nitrobenzene	BQL	10.0	1.32	1	7/31/2007	
2-Nitrophenol	BQL	10.0	3.52	1	7/31/2007	
4-Nitrophenol	BQL	50.0	3.17	1	7/31/2007	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	7/31/2007	
Pentachlorophenol	BQL	50.0	2.83	1	7/31/2007	
Phenanthrene	BQL	10.0	1.38	1	7/31/2007	

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTLCH4015-MW12
Client Project ID: NV019
Lab Sample ID: G650-118-4G
Lab Project ID: G650-118

Analyzed By: EAW
Date Collected: 7/23/2007 17:22
Date Received: 7/26/2007
Date Extracted: 7/27/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Phenol	BQL	10.0	3.38	1	7/31/2007	
Pyrene	BQL	10.0	2.08	1	7/31/2007	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	7/31/2007	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	7/31/2007	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	6.9	69		
2-Fluorophenol		10	6.4	64		
Nitrobenzene-d5		10	6.9	69		
Phenol-d6		10	6.9	69		
2,4,6-Tribromophenol		10	6.7	67		
4-Terphenyl-d14		10	8.5	85		

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: USTLCH4015-MW12
Client Project ID: NV019
Lab Sample ID: G650-118-4G
Lab Project ID: G650-118
Sample Wt/Vol: 500 ML
Dilution: 1

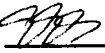
Analyzed By: EAW
Date Collected: 7/23/2007 17:22
Date Received: 7/26/2007
Date Extracted: 7/27/2007
Date Analyzed: 7/31/2007
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Alkene, Unknown	6.29			18.4
2	Unknown	12.38			9.05
3	Unknown	8.61			5.72
4	Unknown	5.16			4.99
5	Unknown	7.80			4.26
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: USTLCH4015-MW21
Client Project ID: NV019
Lab Sample ID: G650-118-5G
Lab Project ID: G650-118

Analyzed By: EAW
Date Collected: 7/24/2007 9:32
Date Received: 7/26/2007
Date Extracted: 7/27/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	7/31/2007	
Acenaphthylene	BQL	10.0	1.12	1	7/31/2007	
Anthracene	BQL	10.0	1.75	1	7/31/2007	
Benzo[a]anthracene	BQL	10.0	1.36	1	7/31/2007	
Benzo[a]pyrene	BQL	10.0	1.27	1	7/31/2007	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	7/31/2007	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	7/31/2007	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	7/31/2007	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	7/31/2007	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	7/31/2007	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	7/31/2007	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	7/31/2007	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	7/31/2007	
Butylbenzylphthalate	BQL	10.0	1.53	1	7/31/2007	
2-Chloronaphthalene	BQL	10.0	1.25	1	7/31/2007	
2-Chlorophenol	BQL	10.0	4.22	1	7/31/2007	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	7/31/2007	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	7/31/2007	
Chrysene	BQL	10.0	1.11	1	7/31/2007	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	7/31/2007	
Di-n-Butylphthalate	BQL	10.0	1.65	1	7/31/2007	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	7/31/2007	
2,4-Dichlorophenol	BQL	10.0	3.75	1	7/31/2007	
Diethylphthalate	BQL	10.0	1.48	1	7/31/2007	
Dimethylphthalate	BQL	10.0	1.04	1	7/31/2007	
2,4-Dimethylphenol	BQL	10.0	9.25	1	7/31/2007	
Di-n-octylphthalate	BQL	10.0	1.16	1	7/31/2007	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	7/31/2007	
2,4-Dinitrophenol	BQL	50.0	4.20	1	7/31/2007	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	7/31/2007	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	7/31/2007	
Diphenylamine *	BQL	10.0	1.53	1	7/31/2007	
Fluoranthene	BQL	10.0	1.41	1	7/31/2007	
Fluorene	BQL	10.0	1.22	1	7/31/2007	
Hexachlorobenzene	BQL	10.0	1.22	1	7/31/2007	
Hexachlorobutadiene	BQL	10.0	1.58	1	7/31/2007	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	7/31/2007	
Hexachloroethane	BQL	10.0	1.58	1	7/31/2007	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	7/31/2007	
Isophorone	BQL	10.0	1.27	1	7/31/2007	
Naphthalene	41.8	10.0	1.08	1	7/31/2007	
Nitrobenzene	BQL	10.0	1.32	1	7/31/2007	
2-Nitrophenol	BQL	10.0	3.52	1	7/31/2007	
4-Nitrophenol	BQL	50.0	3.17	1	7/31/2007	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	7/31/2007	
Pentachlorophenol	BQL	50.0	2.83	1	7/31/2007	
Phenanthrene	BQL	10.0	1.38	1	7/31/2007	

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTLCH4015-MW21
Client Project ID: NV019
Lab Sample ID: G650-118-5G
Lab Project ID: G650-118

Analyzed By: EAW
Date Collected: 7/24/2007 9:32
Date Received: 7/26/2007
Date Extracted: 7/27/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Phenol	BQL	10.0	3.38	1	7/31/2007	
Pyrene	BQL	10.0	2.08	1	7/31/2007	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	7/31/2007	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	7/31/2007	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	6.3	63		
2-Fluorophenol		10	5.9	59		
Nitrobenzene-d5		10	6.3	64		
Phenol-d6		10	6.1	61		
2,4,6-Tribromophenol		10	6.6	66		
4-Terphenyl-d14		10	6.8	68		

Comments:

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

Flags:

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By: 

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

Client Sample ID: USTLCH4015-MW21
Client Project ID: NV019
Lab Sample ID: G650-118-5G
Lab Project ID: G650-118
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: EAW
Date Collected: 7/24/2007 9:32
Date Received: 7/26/2007
Date Extracted: 7/27/2007
Date Analyzed: 7/31/2007
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Indane	7.38	000496-11-7	93	62.6
2	Unknown	6.29			12.2
3	Unknown	12.37			10.9
4	Unknown	5.16			8.86
5	Unknown	8.61			4.21
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: USTLCH4015-MW19
Client Project ID: NV019
Lab Sample ID: G650-118-6G
Lab Project ID: G650-118

Analyzed By: EAW
Date Collected: 7/24/2007 10:04
Date Received: 7/26/2007
Date Extracted: 7/27/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	2.20	10.0	1.22	1	7/31/2007	J
Acenaphthylene	BQL	10.0	1.12	1	7/31/2007	
Anthracene	BQL	10.0	1.75	1	7/31/2007	
Benzo[a]anthracene	BQL	10.0	1.36	1	7/31/2007	
Benzo[a]pyrene	BQL	10.0	1.27	1	7/31/2007	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	7/31/2007	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	7/31/2007	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	7/31/2007	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	7/31/2007	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	7/31/2007	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	7/31/2007	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	7/31/2007	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	7/31/2007	
Butylbenzylphthalate	BQL	10.0	1.53	1	7/31/2007	
2-Chloronaphthalene	BQL	10.0	1.25	1	7/31/2007	
2-Chlorophenol	BQL	10.0	4.22	1	7/31/2007	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	7/31/2007	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	7/31/2007	
Chrysene	BQL	10.0	1.11	1	7/31/2007	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	7/31/2007	
Di-n-Butylphthalate	BQL	10.0	1.65	1	7/31/2007	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	7/31/2007	
2,4-Dichlorophenol	BQL	10.0	3.75	1	7/31/2007	
Diethylphthalate	BQL	10.0	1.48	1	7/31/2007	
Dimethylphthalate	BQL	10.0	1.04	1	7/31/2007	
2,4-Dimethylphenol	BQL	10.0	9.25	1	7/31/2007	
Di-n-octylphthalate	BQL	10.0	1.16	1	7/31/2007	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	7/31/2007	
2,4-Dinitrophenol	BQL	50.0	4.20	1	7/31/2007	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	7/31/2007	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	7/31/2007	
Diphenylamine *	BQL	10.0	1.53	1	7/31/2007	
Fluoranthene	BQL	10.0	1.41	1	7/31/2007	
Fluorene	BQL	10.0	1.22	1	7/31/2007	
Hexachlorobenzene	BQL	10.0	1.22	1	7/31/2007	
Hexachlorobutadiene	BQL	10.0	1.58	1	7/31/2007	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	7/31/2007	
Hexachloroethane	BQL	10.0	1.58	1	7/31/2007	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	7/31/2007	
Isophorone	BQL	10.0	1.27	1	7/31/2007	
Naphthalene	BQL	10.0	1.08	1	7/31/2007	
Nitrobenzene	BQL	10.0	1.32	1	7/31/2007	
2-Nitrophenol	BQL	10.0	3.52	1	7/31/2007	
4-Nitrophenol	BQL	50.0	3.17	1	7/31/2007	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	7/31/2007	
Pentachlorophenol	BQL	50.0	2.83	1	7/31/2007	
Phenanthrene	BQL	10.0	1.38	1	7/31/2007	

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTLCH4015-MW19
Client Project ID: NV019
Lab Sample ID: G650-118-6G
Lab Project ID: G650-118

Analyzed By: EAW
Date Collected: 7/24/2007 10:04
Date Received: 7/26/2007
Date Extracted: 7/27/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Phenol	BQL	10.0	3.38	1	7/31/2007	
Pyrene	BQL	10.0	2.08	1	7/31/2007	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	7/31/2007	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	7/31/2007	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	6.3	64		
2-Fluorophenol		10	5.8	58		
Nitrobenzene-d5		10	6.3	64		
Phenol-d6		10	6	60		
2,4,6-Tribromophenol		10	5.7	57		
4-Terphenyl-d14		10	7.7	77		

Comments:

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

Flags:

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By: 

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

Client Sample ID: USTLCH4015-MW19
Client Project ID: NV019
Lab Sample ID: G650-118-6G
Lab Project ID: G650-118
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: EAW
Date Collected: 7/24/2007 10:04
Date Received: 7/26/2007
Date Extracted: 7/27/2007
Date Analyzed: 7/31/2007
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Unknown	5.16			12.8
2	Unknown	12.38			8.59
3	Unknown	6.29			8.13
4	Alkane, Unknown	8.61			4.95
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: USTLCH4015-MW18
Client Project ID: NV019
Lab Sample ID: G650-118-7G
Lab Project ID: G650-118

Analyzed By: EAW
Date Collected: 7/24/2007 10:25
Date Received: 7/26/2007
Date Extracted: 7/27/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	7/31/2007	
Acenaphthylene	BQL	10.0	1.12	1	7/31/2007	
Anthracene	BQL	10.0	1.75	1	7/31/2007	
Benzo[a]anthracene	BQL	10.0	1.36	1	7/31/2007	
Benzo[a]pyrene	BQL	10.0	1.27	1	7/31/2007	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	7/31/2007	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	7/31/2007	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	7/31/2007	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	7/31/2007	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	7/31/2007	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	7/31/2007	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	7/31/2007	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	7/31/2007	
Butylbenzylphthalate	BQL	10.0	1.53	1	7/31/2007	
2-Chloronaphthalene	BQL	10.0	1.25	1	7/31/2007	
2-Chlorophenol	BQL	10.0	4.22	1	7/31/2007	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	7/31/2007	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	7/31/2007	
Chrysene	BQL	10.0	1.11	1	7/31/2007	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	7/31/2007	
Di-n-Butylphthalate	BQL	10.0	1.65	1	7/31/2007	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	7/31/2007	
2,4-Dichlorophenol	BQL	10.0	3.75	1	7/31/2007	
Diethylphthalate	BQL	10.0	1.48	1	7/31/2007	
Dimethylphthalate	BQL	10.0	1.04	1	7/31/2007	
2,4-Dimethylphenol	BQL	10.0	9.25	1	7/31/2007	
Di-n-octylphthalate	BQL	10.0	1.16	1	7/31/2007	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	7/31/2007	
2,4-Dinitrophenol	BQL	50.0	4.20	1	7/31/2007	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	7/31/2007	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	7/31/2007	
Diphenylamine *	BQL	10.0	1.53	1	7/31/2007	
Fluoranthene	BQL	10.0	1.41	1	7/31/2007	
Fluorene	1.30	10.0	1.22	1	7/31/2007	J
Hexachlorobenzene	BQL	10.0	1.22	1	7/31/2007	
Hexachlorobutadiene	BQL	10.0	1.58	1	7/31/2007	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	7/31/2007	
Hexachloroethane	BQL	10.0	1.58	1	7/31/2007	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	7/31/2007	
Isophorone	BQL	10.0	1.27	1	7/31/2007	
Naphthalene	BQL	10.0	1.08	1	7/31/2007	
Nitrobenzene	BQL	10.0	1.32	1	7/31/2007	
2-Nitrophenol	BQL	10.0	3.52	1	7/31/2007	
4-Nitrophenol	BQL	50.0	3.17	1	7/31/2007	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	7/31/2007	
Pentachlorophenol	BQL	50.0	2.83	1	7/31/2007	
Phenanthrene	BQL	10.0	1.38	1	7/31/2007	

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTLCH4015-MW18

Client Project ID: NV019

Lab Sample ID: G650-118-7G

Lab Project ID: G650-118

Analyzed By: EAW

Date Collected: 7/24/2007 10:25

Date Received: 7/26/2007

Date Extracted: 7/27/2007

Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Phenol	BQL	10.0	3.38	1	7/31/2007	
Pyrene	BQL	10.0	2.08	1	7/31/2007	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	7/31/2007	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	7/31/2007	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	7.4	74		
2-Fluorophenol		10	7.1	71		
Nitrobenzene-d5		10	7.7	77		
Phenol-d6		10	7.6	76		
2,4,6-Tribromophenol		10	7.6	76		
4-Terphenyl-d14		10	8.9	89		

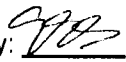
Comments:

* 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: USTLCH4015-MW18
Client Project ID: NV019
Lab Sample ID: G650-118-7G
Lab Project ID: G650-118
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: EAW
Date Collected: 7/24/2007 10:25
Date Received: 7/26/2007
Date Extracted: 7/27/2007
Date Analyzed: 7/31/2007
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Unknown	12.38			11.7
2	Unknown	6.29			6.63
3	Unknown	5.16			5.98
4	Alkane, Unknown	7.80			5.78
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: USTLCH4015-MW22
Client Project ID: NV019
Lab Sample ID: G650-118-8G
Lab Project ID: G650-118

Analyzed By: EAW
Date Collected: 7/24/2007 11:24
Date Received: 7/26/2007
Date Extracted: 7/27/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	7/31/2007	
Acenaphthylene	BQL	10.0	1.12	1	7/31/2007	
Anthracene	BQL	10.0	1.75	1	7/31/2007	
Benzo[a]anthracene	BQL	10.0	1.36	1	7/31/2007	
Benzo[a]pyrene	BQL	10.0	1.27	1	7/31/2007	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	7/31/2007	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	7/31/2007	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	7/31/2007	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	7/31/2007	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	7/31/2007	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	7/31/2007	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	7/31/2007	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	7/31/2007	
Butylbenzylphthalate	BQL	10.0	1.53	1	7/31/2007	
2-Chloronaphthalene	BQL	10.0	1.25	1	7/31/2007	
2-Chlorophenol	BQL	10.0	4.22	1	7/31/2007	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	7/31/2007	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	7/31/2007	
Chrysene	BQL	10.0	1.11	1	7/31/2007	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	7/31/2007	
Di-n-Butylphthalate	BQL	10.0	1.65	1	7/31/2007	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	7/31/2007	
2,4-Dichlorophenol	BQL	10.0	3.75	1	7/31/2007	
Diethylphthalate	BQL	10.0	1.48	1	7/31/2007	
Dimethylphthalate	BQL	10.0	1.04	1	7/31/2007	
2,4-Dimethylphenol	BQL	10.0	9.25	1	7/31/2007	
Di-n-octylphthalate	BQL	10.0	1.16	1	7/31/2007	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	7/31/2007	
2,4-Dinitrophenol	BQL	50.0	4.20	1	7/31/2007	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	7/31/2007	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	7/31/2007	
Diphenylamine *	BQL	10.0	1.53	1	7/31/2007	
Fluoranthene	BQL	10.0	1.41	1	7/31/2007	
Fluorene	BQL	10.0	1.22	1	7/31/2007	
Hexachlorobenzene	BQL	10.0	1.22	1	7/31/2007	
Hexachlorobutadiene	BQL	10.0	1.58	1	7/31/2007	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	7/31/2007	
Hexachloroethane	BQL	10.0	1.58	1	7/31/2007	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	7/31/2007	
Isophorone	BQL	10.0	1.27	1	7/31/2007	
Naphthalene	BQL	10.0	1.08	1	7/31/2007	
Nitrobenzene	BQL	10.0	1.32	1	7/31/2007	
2-Nitrophenol	BQL	10.0	3.52	1	7/31/2007	
4-Nitrophenol	BQL	50.0	3.17	1	7/31/2007	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	7/31/2007	
Pentachlorophenol	BQL	50.0	2.83	1	7/31/2007	
Phenanthrene	BQL	10.0	1.38	1	7/31/2007	

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTLCH4015-MW22

Client Project ID: NV019

Lab Sample ID: G650-118-8G

Lab Project ID: G650-118

Analyzed By: EAW

Date Collected: 7/24/2007 11:24

Date Received: 7/26/2007

Date Extracted: 7/27/2007

Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Phenol	BQL	10.0	3.38	1	7/31/2007	
Pyrene	BQL	10.0	2.08	1	7/31/2007	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	7/31/2007	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	7/31/2007	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	6.3	63		
2-Fluorophenol		10	5.9	59		
Nitrobenzene-d5		10	6.6	66		
Phenol-d6		10	6.1	61		
2,4,6-Tribromophenol		10	5.9	59		
4-Terphenyl-d14		10	8.4	84		

Comments:

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

Flags:

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By: 

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

Client Sample ID: USTLCH4015-MW22
Client Project ID: NV019
Lab Sample ID: G650-118-8G
Lab Project ID: G650-118
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: EAW
Date Collected: 7/24/2007 11:24
Date Received: 7/26/2007
Date Extracted: 7/27/2007
Date Analyzed: 7/31/2007
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Unknown	6.29			10.8
2	Unknown	5.16			8.31
3	Unknown	12.37			8.01
4	Alkane, Unknown	8.61			5.86
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: USTLCH4015-MW20

Client Project ID: NV019

Lab Sample ID: G650-118-9G

Lab Project ID: G650-118

Analyzed By: EAW

Date Collected: 7/24/2007 12:12

Date Received: 7/26/2007

Date Extracted: 7/27/2007

Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	7/31/2007	
Acenaphthylene	BQL	10.0	1.12	1	7/31/2007	
Anthracene	BQL	10.0	1.75	1	7/31/2007	
Benzo[a]anthracene	BQL	10.0	1.36	1	7/31/2007	
Benzo[a]pyrene	BQL	10.0	1.27	1	7/31/2007	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	7/31/2007	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	7/31/2007	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	7/31/2007	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	7/31/2007	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	7/31/2007	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	7/31/2007	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	7/31/2007	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	7/31/2007	
Butylbenzylphthalate	BQL	10.0	1.53	1	7/31/2007	
2-Chloronaphthalene	BQL	10.0	1.25	1	7/31/2007	
2-Chlorophenol	BQL	10.0	4.22	1	7/31/2007	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	7/31/2007	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	7/31/2007	
Chrysene	BQL	10.0	1.11	1	7/31/2007	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	7/31/2007	
Di-n-Butylphthalate	BQL	10.0	1.65	1	7/31/2007	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	7/31/2007	
2,4-Dichlorophenol	BQL	10.0	3.75	1	7/31/2007	
Diethylphthalate	BQL	10.0	1.48	1	7/31/2007	
Dimethylphthalate	BQL	10.0	1.04	1	7/31/2007	
2,4-Dimethylphenol	BQL	10.0	9.25	1	7/31/2007	
Di-n-octylphthalate	BQL	10.0	1.16	1	7/31/2007	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	7/31/2007	
2,4-Dinitrophenol	BQL	50.0	4.20	1	7/31/2007	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	7/31/2007	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	7/31/2007	
Diphenylamine *	BQL	10.0	1.53	1	7/31/2007	
Fluoranthene	BQL	10.0	1.41	1	7/31/2007	
Fluorene	BQL	10.0	1.22	1	7/31/2007	
Hexachlorobenzene	BQL	10.0	1.22	1	7/31/2007	
Hexachlorobutadiene	BQL	10.0	1.58	1	7/31/2007	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	7/31/2007	
Hexachloroethane	BQL	10.0	1.58	1	7/31/2007	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	7/31/2007	
Isophorone	BQL	10.0	1.27	1	7/31/2007	
Naphthalene	BQL	10.0	1.08	1	7/31/2007	
Nitrobenzene	BQL	10.0	1.32	1	7/31/2007	
2-Nitrophenol	BQL	10.0	3.52	1	7/31/2007	
4-Nitrophenol	BQL	50.0	3.17	1	7/31/2007	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	7/31/2007	
Pentachlorophenol	BQL	50.0	2.83	1	7/31/2007	
Phenanthrene	BQL	10.0	1.38	1	7/31/2007	
Phenol	BQL	10.0	3.38	1	7/31/2007	

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTLCH4015-MW20
Client Project ID: NV019
Lab Sample ID: G650-118-9G
Lab Project ID: G650-118

Analyzed By: EAW
Date Collected: 7/24/2007 12:12
Date Received: 7/26/2007
Date Extracted: 7/27/2007
Matrix: Water

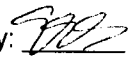
Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Pyrene	BQL	10.0	2.08	1	7/31/2007	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	7/31/2007	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	7/31/2007	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	4.3	43 #		
2-Fluorophenol		10	3.5	35		
Nitrobenzene-d5		10	4.2	42 #		
Phenol-d6		10	4.1	41 #		
2,4,6-Tribromophenol		10	3.9	39		
4-Terphenyl-d14		10	6.2	62		

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.
Insufficient sample amount for re-extract due to MS/MSD performed on sample.

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: USTLCH4015-MW20
Client Project ID: NV019
Lab Sample ID: G650-118-9G
Lab Project ID: G650-118
Sample Wt/Vol: 500 ML
Dilution: 1

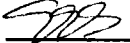
Analyzed By: EAW
Date Collected: 7/24/2007 12:12
Date Received: 7/26/2007
Date Extracted: 7/27/2007
Date Analyzed: 7/31/2007
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Unknown	12.38			8.36
2	Unknown	6.29			7.81
3	Unknown	5.17			7.42
4	Alkane, Unknown	8.61			4.24
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: USTLCH4015-MW02
Client Project ID: NV019
Lab Sample ID: G650-118-10G
Lab Project ID: G650-118

Analyzed By: EAW
Date Collected: 7/24/2007 12:39
Date Received: 7/26/2007
Date Extracted: 7/27/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	7/31/2007	
Acenaphthylene	BQL	10.0	1.12	1	7/31/2007	
Anthracene	BQL	10.0	1.75	1	7/31/2007	
Benzo[a]anthracene	BQL	10.0	1.36	1	7/31/2007	
Benzo[a]pyrene	BQL	10.0	1.27	1	7/31/2007	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	7/31/2007	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	7/31/2007	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	7/31/2007	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	7/31/2007	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	7/31/2007	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	7/31/2007	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	7/31/2007	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	7/31/2007	
Butylbenzylphthalate	BQL	10.0	1.53	1	7/31/2007	
2-Chloronaphthalene	BQL	10.0	1.25	1	7/31/2007	
2-Chlorophenol	BQL	10.0	4.22	1	7/31/2007	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	7/31/2007	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	7/31/2007	
Chrysene	BQL	10.0	1.11	1	7/31/2007	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	7/31/2007	
Di-n-Butylphthalate	BQL	10.0	1.65	1	7/31/2007	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	7/31/2007	
2,4-Dichlorophenol	BQL	10.0	3.75	1	7/31/2007	
Diethylphthalate	BQL	10.0	1.48	1	7/31/2007	
Dimethylphthalate	BQL	10.0	1.04	1	7/31/2007	
2,4-Dimethylphenol	BQL	10.0	9.25	1	7/31/2007	
Di-n-octylphthalate	BQL	10.0	1.16	1	7/31/2007	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	7/31/2007	
2,4-Dinitrophenol	BQL	50.0	4.20	1	7/31/2007	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	7/31/2007	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	7/31/2007	
Diphenylamine *	BQL	10.0	1.53	1	7/31/2007	
Fluoranthene	BQL	10.0	1.41	1	7/31/2007	
Fluorene	BQL	10.0	1.22	1	7/31/2007	
Hexachlorobenzene	BQL	10.0	1.22	1	7/31/2007	
Hexachlorobutadiene	BQL	10.0	1.58	1	7/31/2007	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	7/31/2007	
Hexachloroethane	BQL	10.0	1.58	1	7/31/2007	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	7/31/2007	
Isophorone	BQL	10.0	1.27	1	7/31/2007	
Naphthalene	24.7	10.0	1.08	1	7/31/2007	
Nitrobenzene	BQL	10.0	1.32	1	7/31/2007	
2-Nitrophenol	BQL	10.0	3.52	1	7/31/2007	
4-Nitrophenol	BQL	50.0	3.17	1	7/31/2007	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	7/31/2007	
Pentachlorophenol	BQL	50.0	2.83	1	7/31/2007	
Phenanthrene	BQL	10.0	1.38	1	7/31/2007	
Phenol	BQL	10.0	3.38	1	7/31/2007	

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTLCH4015-MW02
Client Project ID: NV019
Lab Sample ID: G650-118-10G
Lab Project ID: G650-118

Analyzed By: EAW
Date Collected: 7/24/2007 12:39
Date Received: 7/26/2007
Date Extracted: 7/27/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Pyrene	BQL	10.0	2.08	1	7/31/2007	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	7/31/2007	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	7/31/2007	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	6.7	67		
2-Fluorophenol		10	6.2	62		
Nitrobenzene-d5		10	6.6	66		
Phenol-d6		10	6.9	69		
2,4,6-Tribromophenol		10	7	70		
4-Terphenyl-d14		10	7.5	75		

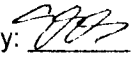
Comments:

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

Flags:

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By: 

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

Client Sample ID: USTLCH4015-MW02
Client Project ID: NV019
Lab Sample ID: G650-118-10G
Lab Project ID: G650-118
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: EAW
Date Collected: 7/24/2007
Date Received: 7/26/2007
Date Extracted: 7/27/2007
Date Analyzed: 7/31/2007
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Indane	7.38	000496-11-7	93	167
2	Unknown	6.99			106
3	Aromatic, Unknown	10.34			37.7
4	Unknown	11.66			30.8
5	Alcohol, Unknown	5.24			25.5
6	Alcohol, Unknown	11.53			23
7	2,3-Dihydro-1-methylindene	8.64	027133-93-3	97	19.5
8	Unknown	6.89			19.4
9	Benzo[b]thiophene	9.15	000095-15-8	94	16.5
10	Unknown	12.06			14.7

Comment:

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

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

Reviewed by: 

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTLCH4015-MW23
Client Project ID: NV019
Lab Sample ID: G650-118-11G
Lab Project ID: G650-118

Analyzed By: EAW
Date Collected: 7/24/2007 16:36
Date Received: 7/26/2007
Date Extracted: 7/27/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	8/1/2007	
Acenaphthylene	BQL	10.0	1.12	1	8/1/2007	
Anthracene	BQL	10.0	1.75	1	8/1/2007	
Benzo[a]anthracene	BQL	10.0	1.36	1	8/1/2007	
Benzo[a]pyrene	BQL	10.0	1.27	1	8/1/2007	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	8/1/2007	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	8/1/2007	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	8/1/2007	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	8/1/2007	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	8/1/2007	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	8/1/2007	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	8/1/2007	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	8/1/2007	
Butylbenzylphthalate	BQL	10.0	1.53	1	8/1/2007	
2-Chloronaphthalene	BQL	10.0	1.25	1	8/1/2007	
2-Chlorophenol	BQL	10.0	4.22	1	8/1/2007	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	8/1/2007	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	8/1/2007	
Chrysene	BQL	10.0	1.11	1	8/1/2007	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	8/1/2007	
Di-n-Butylphthalate	BQL	10.0	1.65	1	8/1/2007	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	8/1/2007	
2,4-Dichlorophenol	BQL	10.0	3.75	1	8/1/2007	
Diethylphthalate	BQL	10.0	1.48	1	8/1/2007	
Dimethylphthalate	BQL	10.0	1.04	1	8/1/2007	
2,4-Dimethylphenol	BQL	10.0	9.25	1	8/1/2007	
Di-n-octylphthalate	BQL	10.0	1.16	1	8/1/2007	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	8/1/2007	
2,4-Dinitrophenol	BQL	50.0	4.20	1	8/1/2007	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	8/1/2007	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	8/1/2007	
Diphenylamine *	BQL	10.0	1.53	1	8/1/2007	
Fluoranthene	BQL	10.0	1.41	1	8/1/2007	
Fluorene	BQL	10.0	1.22	1	8/1/2007	
Hexachlorobenzene	BQL	10.0	1.22	1	8/1/2007	
Hexachlorobutadiene	BQL	10.0	1.58	1	8/1/2007	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	8/1/2007	
Hexachloroethane	BQL	10.0	1.58	1	8/1/2007	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	8/1/2007	
Isophorone	BQL	10.0	1.27	1	8/1/2007	
Naphthalene	BQL	10.0	1.08	1	8/1/2007	
Nitrobenzene	BQL	10.0	1.32	1	8/1/2007	
2-Nitrophenol	BQL	10.0	3.52	1	8/1/2007	
4-Nitrophenol	BQL	50.0	3.17	1	8/1/2007	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	8/1/2007	
Pentachlorophenol	BQL	50.0	2.83	1	8/1/2007	
Phenanthrene	BQL	10.0	1.38	1	8/1/2007	
Phenol	BQL	10.0	3.38	1	8/1/2007	

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTLCH4015-MW23
Client Project ID: NV019
Lab Sample ID: G650-118-11G
Lab Project ID: G650-118

Analyzed By: EAW
Date Collected: 7/24/2007 16:36
Date Received: 7/26/2007
Date Extracted: 7/27/2007
Matrix: Water

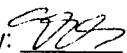
Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Pyrene	BQL	10.0	2.08	1	8/1/2007	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	8/1/2007	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	8/1/2007	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	6.6	66		
2-Fluorophenol		10	6.2	62		
Nitrobenzene-d5		10	6.9	69		
Phenol-d6		10	6.6	66		
2,4,6-Tribromophenol		10	6.9	69		
4-Terphenyl-d14		10	6.5	65		

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: USTLCH4015-MW23
Client Project ID: NV019
Lab Sample ID: G650-118-11G
Lab Project ID: G650-118
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: EAW
Date Collected: 7/24/2007
Date Received: 7/26/2007
Date Extracted: 7/27/2007
Date Analyzed: 8/1/2007
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Unknown	7.52			14.5
2	Alcohol, Unknown	5.69			11.4
3	Unknown	12.38			11.1
4	Unknown	5.24			8.25
5	Unknown	6.29			8.11
6	Unknown	6.99			6.22
7	Unknown	5.16			5.28
8	Unknown	8.50			4.76
9	Unknown	6.90			4.46
10	Unknown	8.61			4.32

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: USTLCH4015-MW01
Client Project ID: NV019
Lab Sample ID: G650-118-12G
Lab Project ID: G650-118

Analyzed By: EAW
Date Collected: 7/24/2007 17:12
Date Received: 7/26/2007
Date Extracted: 7/27/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	8/1/2007	
Acenaphthylene	BQL	10.0	1.12	1	8/1/2007	
Anthracene	BQL	10.0	1.75	1	8/1/2007	
Benzo[a]anthracene	BQL	10.0	1.36	1	8/1/2007	
Benzo[a]pyrene	BQL	10.0	1.27	1	8/1/2007	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	8/1/2007	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	8/1/2007	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	8/1/2007	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	8/1/2007	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	8/1/2007	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	8/1/2007	
Bis(2-ethylhexyl)phthalate	9.90	10.0	1.33	1	8/1/2007	J
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	8/1/2007	
Butylbenzylphthalate	BQL	10.0	1.53	1	8/1/2007	
2-Chloronaphthalene	BQL	10.0	1.25	1	8/1/2007	
2-Chlorophenol	BQL	10.0	4.22	1	8/1/2007	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	8/1/2007	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	8/1/2007	
Chrysene	BQL	10.0	1.11	1	8/1/2007	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	8/1/2007	
Di-n-Butylphthalate	BQL	10.0	1.65	1	8/1/2007	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	8/1/2007	
2,4-Dichlorophenol	BQL	10.0	3.75	1	8/1/2007	
Diethylphthalate	BQL	10.0	1.48	1	8/1/2007	
Dimethylphthalate	BQL	10.0	1.04	1	8/1/2007	
2,4-Dimethylphenol	BQL	10.0	9.25	1	8/1/2007	
Di-n-octylphthalate	BQL	10.0	1.16	1	8/1/2007	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	8/1/2007	
2,4-Dinitrophenol	BQL	50.0	4.20	1	8/1/2007	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	8/1/2007	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	8/1/2007	
Diphenylamine *	BQL	10.0	1.53	1	8/1/2007	
Fluoranthene	BQL	10.0	1.41	1	8/1/2007	
Fluorene	BQL	10.0	1.22	1	8/1/2007	
Hexachlorobenzene	BQL	10.0	1.22	1	8/1/2007	
Hexachlorobutadiene	BQL	10.0	1.58	1	8/1/2007	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	8/1/2007	
Hexachloroethane	BQL	10.0	1.58	1	8/1/2007	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	8/1/2007	
Isophorone	BQL	10.0	1.27	1	8/1/2007	
Naphthalene	100	10.0	1.08	1	8/1/2007	
Nitrobenzene	BQL	10.0	1.32	1	8/1/2007	
2-Nitrophenol	BQL	10.0	3.52	1	8/1/2007	
4-Nitrophenol	BQL	50.0	3.17	1	8/1/2007	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	8/1/2007	
Pentachlorophenol	BQL	50.0	2.83	1	8/1/2007	
Phenanthrene	BQL	10.0	1.38	1	8/1/2007	

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTLCH4015-MW01
Client Project ID: NV019
Lab Sample ID: G650-118-12G
Lab Project ID: G650-118

Analyzed By: EAW
Date Collected: 7/24/2007 17:12
Date Received: 7/26/2007
Date Extracted: 7/27/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Phenol	BQL	10.0	3.38	1	8/1/2007	
Pyrene	BQL	10.0	2.08	1	8/1/2007	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	8/1/2007	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	8/1/2007	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	6.2	62		
2-Fluorophenol		10	5.7	57		
Nitrobenzene-d5		10	6.1	61		
Phenol-d6		10	6	60		
2,4,6-Tribromophenol		10	6.3	64		
4-Terphenyl-d14		10	7.4	74		

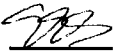
Comments:

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

Flags:

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By: 

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

Client Sample ID: USTLCH4015-MW01
Client Project ID: NV019
Lab Sample ID: G650-118-12G
Lab Project ID: G650-118
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: EAW
Date Collected: 7/24/2007 17:12
Date Received: 7/26/2007
Date Extracted: 7/27/2007
Date Analyzed: 8/1/2007
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	1,2,4-Trimethylbenzene	6.88	000095-36-3	97	228
2	Indane	7.38	000496-11-7	94	132
3	Benzene, 1,3-diethyl-	7.59	000141-93-5	96	87.8
4	Ethylbenzene	5.18	000100-41-4	93	79.3
5	1,2,4-Trimethylbenzene	7.21	000095-36-3	93	71.3
6	Unknown	6.99			68.1
7	2,3-Dihydro-1-methylindene	8.65	027133-93-3	93	65.9
8	Unknown	11.66			50.5
9	Benzene, 1-ethyl-4-methyl-	6.50	000622-96-8	95	50.4
10	Benzene, 1,3,5-trimethyl-	6.57	000108-67-8	95	48.7

Comment:

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

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

Reviewed by: 

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTLCH4015-MW07
Client Project ID: NV019
Lab Sample ID: G650-118-13G
Lab Project ID: G650-118

Analyzed By: EAW
Date Collected: 7/24/2007 17:57
Date Received: 7/26/2007
Date Extracted: 7/27/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	8/1/2007	
Acenaphthylene	BQL	10.0	1.12	1	8/1/2007	
Anthracene	BQL	10.0	1.75	1	8/1/2007	
Benzo[a]anthracene	BQL	10.0	1.36	1	8/1/2007	
Benzo[a]pyrene	BQL	10.0	1.27	1	8/1/2007	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	8/1/2007	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	8/1/2007	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	8/1/2007	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	8/1/2007	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	8/1/2007	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	8/1/2007	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	8/1/2007	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	8/1/2007	
Butylbenzylphthalate	BQL	10.0	1.53	1	8/1/2007	
2-Chloronaphthalene	BQL	10.0	1.25	1	8/1/2007	
2-Chlorophenol	BQL	10.0	4.22	1	8/1/2007	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	8/1/2007	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	8/1/2007	
Chrysene	BQL	10.0	1.11	1	8/1/2007	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	8/1/2007	
Di-n-Butylphthalate	BQL	10.0	1.65	1	8/1/2007	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	8/1/2007	
2,4-Dichlorophenol	BQL	10.0	3.75	1	8/1/2007	
Diethylphthalate	BQL	10.0	1.48	1	8/1/2007	
Dimethylphthalate	BQL	10.0	1.04	1	8/1/2007	
2,4-Dimethylphenol	BQL	10.0	9.25	1	8/1/2007	
Di-n-octylphthalate	BQL	10.0	1.16	1	8/1/2007	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	8/1/2007	
2,4-Dinitrophenol	BQL	50.0	4.20	1	8/1/2007	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	8/1/2007	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	8/1/2007	
Diphenylamine *	BQL	10.0	1.53	1	8/1/2007	
Fluoranthene	BQL	10.0	1.41	1	8/1/2007	
Fluorene	BQL	10.0	1.22	1	8/1/2007	
Hexachlorobenzene	BQL	10.0	1.22	1	8/1/2007	
Hexachlorobutadiene	BQL	10.0	1.58	1	8/1/2007	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	8/1/2007	
Hexachloroethane	BQL	10.0	1.58	1	8/1/2007	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	8/1/2007	
Isophorone	BQL	10.0	1.27	1	8/1/2007	
Naphthalene	1.20	10.0	1.08	1	8/1/2007	J
Nitrobenzene	BQL	10.0	1.32	1	8/1/2007	
2-Nitrophenol	BQL	10.0	3.52	1	8/1/2007	
4-Nitrophenol	BQL	50.0	3.17	1	8/1/2007	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	8/1/2007	
Pentachlorophenol	BQL	50.0	2.83	1	8/1/2007	
Phenanthrene	BQL	10.0	1.38	1	8/1/2007	

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTLCH4015-MW07
Client Project ID: NV019
Lab Sample ID: G650-118-13G
Lab Project ID: G650-118

Analyzed By: EAW
Date Collected: 7/24/2007 17:57
Date Received: 7/26/2007
Date Extracted: 7/27/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Phenol	BQL	10.0	3.38	1	8/1/2007	
Pyrene	BQL	10.0	2.08	1	8/1/2007	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	8/1/2007	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	8/1/2007	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	6.7	67		
2-Fluorophenol		10	6.3	63		
Nitrobenzene-d5		10	6.6	66		
Phenol-d6		10	6.9	69		
2,4,6-Tribromophenol		10	6.6	66		
4-Terphenyl-d14		10	7.9	79		

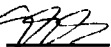
Comments:

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

Flags:

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By: 

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

Client Sample ID: USTLCH4015-MW07
Client Project ID: NV019
Lab Sample ID: G650-118-13G
Lab Project ID: G650-118
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: EAW
Date Collected: 7/24/2007 17:57
Date Received: 7/26/2007
Date Extracted: 7/27/2007
Date Analyzed: 8/1/2007
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Unknown	6.29			14.1
2	Unknown	12.38			8.64
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: SWB

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTLCH4015-MW16
Client Project ID: NV019
Lab Sample ID: G650-118-14G
Lab Project ID: G650-118

Analyzed By: EAW
Date Collected: 7/24/2007 18:22
Date Received: 7/26/2007
Date Extracted: 7/27/2007
Matrix: Water

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

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTLCH4015-MW16
Client Project ID: NV019
Lab Sample ID: G650-118-14G
Lab Project ID: G650-118

Analyzed By: EAW
Date Collected: 7/24/2007 18:22
Date Received: 7/26/2007
Date Extracted: 7/27/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Phenol	BQL	10.0	3.38	1	8/1/2007	
Pyrene	BQL	10.0	2.08	1	8/1/2007	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	8/1/2007	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	8/1/2007	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	7.2	72		
2-Fluorophenol		10	7	70		
Nitrobenzene-d5		10	7.3	73		
Phenol-d6		10	7	70		
2,4,6-Tribromophenol		10	6.7	67		
4-Terphenyl-d14		10	8.6	86		

Comments:

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

Flags:

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By: 

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

Client Sample ID: USTLCH4015-MW16
Client Project ID: NV019
Lab Sample ID: G650-118-14G
Lab Project ID: G650-118
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: EAW
Date Collected: 7/24/2007 18:22
Date Received: 7/26/2007
Date Extracted: 7/27/2007
Date Analyzed: 8/1/2007
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Unknown	6.29			23.4
2	Unknown	12.39			6.82
3	Unknown	8.61			4.32
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: USTLCH4015-MW15
Client Project ID: NV019
Lab Sample ID: G650-118-15G
Lab Project ID: G650-118

Analyzed By: EAW
Date Collected: 7/24/2007 19:01
Date Received: 7/26/2007
Date Extracted: 7/27/2007
Matrix: Water

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

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTLCH4015-MW15
Client Project ID: NV019
Lab Sample ID: G650-118-15G
Lab Project ID: G650-118

Analyzed By: EAW
Date Collected: 7/24/2007 19:01
Date Received: 7/26/2007
Date Extracted: 7/27/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Phenol	BQL	10.0	3.38	1	8/1/2007	
Pyrene	BQL	10.0	2.08	1	8/1/2007	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	8/1/2007	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	8/1/2007	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	3	30 #		
2-Fluorophenol		10	2.7	27 #		
Nitrobenzene-d5		10	3	30 #		
Phenol-d6		10	2.8	28 #		
2,4,6-Tribromophenol		10	2.8	28 #		
4-Terphenyl-d14		10	3.4	34		

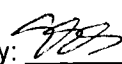
Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.
Sample being re-extracted due to low surrogate recovery.

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: USTLCH4015-MW15
Client Project ID: NV019
Lab Sample ID: G650-118-15G
Lab Project ID: G650-118
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: EAW
Date Collected: 7/24/2007 19:01
Date Received: 7/26/2007
Date Extracted: 7/27/2007
Date Analyzed: 8/1/2007
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Unknown	12.38			12.7
2					
3					
4					
5					
6					
7					
8					
9					
10					

Comment:

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

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

Reviewed by: 

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTLCH4015-MW15
Client Project ID: NV019
Lab Sample ID: G650-118-15H
Lab Project ID: G650-118

Analyzed By: EAW
Date Collected: 7/24/2007 19:01
Date Received: 7/26/2007
Date Extracted: 8/1/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	11.6	1.42	1	8/3/2007	
Acenaphthylene	BQL	11.6	1.30	1	8/3/2007	
Anthracene	BQL	11.6	2.03	1	8/3/2007	
Benzo[a]anthracene	BQL	11.6	1.58	1	8/3/2007	
Benzo[a]pyrene	BQL	11.6	1.48	1	8/3/2007	
Benzo[b]fluoranthene	BQL	11.6	1.66	1	8/3/2007	
Benzo[g,h,i]perylene	BQL	11.6	5.31	1	8/3/2007	
Benzo[k]fluoranthene	BQL	11.6	1.27	1	8/3/2007	
Bis(2-chloroethoxy)methane	BQL	11.6	1.29	1	8/3/2007	
Bis(2-chloroethyl)ether	BQL	11.6	1.27	1	8/3/2007	
Bis(2-chloroisopropyl)ether	BQL	11.6	1.83	1	8/3/2007	
Bis(2-ethylhexyl)phthalate	BQL	11.6	1.55	1	8/3/2007	
4-bromophenyl phenyl ether	BQL	11.6	2.31	1	8/3/2007	
Butylbenzylphthalate	BQL	11.6	1.78	1	8/3/2007	
2-Chloronaphthalene	BQL	11.6	1.45	1	8/3/2007	
2-Chlorophenol	BQL	11.6	4.91	1	8/3/2007	
4-Chloro-3-methylphenol	BQL	11.6	3.79	1	8/3/2007	
4-Chlorophenyl phenyl ether	BQL	11.6	1.65	1	8/3/2007	
Chrysene	BQL	11.6	1.29	1	8/3/2007	
Dibenzo[a,h]anthracene	BQL	11.6	5.66	1	8/3/2007	
Di-n-Butylphthalate	BQL	11.6	1.92	1	8/3/2007	
3,3'-Dichlorobenzidine	BQL	23.3	4.77	1	8/3/2007	
2,4-Dichlorophenol	BQL	11.6	4.36	1	8/3/2007	
Diethylphthalate	BQL	11.6	1.72	1	8/3/2007	
Dimethylphthalate	BQL	11.6	1.21	1	8/3/2007	
2,4-Dimethylphenol	BQL	11.6	10.8	1	8/3/2007	
Di-n-octylphthalate	BQL	11.6	1.35	1	8/3/2007	
4,6-Dinitro-2-methylphenol	BQL	58.1	4.31	1	8/3/2007	
2,4-Dinitrophenol	BQL	58.1	4.88	1	8/3/2007	
2,4-Dinitrotoluene	BQL	11.6	1.77	1	8/3/2007	
2,6-Dinitrotoluene	BQL	11.6	1.64	1	8/3/2007	
Diphenylamine *	BQL	11.6	1.78	1	8/3/2007	
Fluoranthene	BQL	11.6	1.64	1	8/3/2007	
Fluorene	BQL	11.6	1.42	1	8/3/2007	
Hexachlorobenzene	BQL	11.6	1.42	1	8/3/2007	
Hexachlorobutadiene	BQL	11.6	1.84	1	8/3/2007	
Hexachlorocyclopentadiene	BQL	23.3	23.3	1	8/3/2007	
Hexachloroethane	BQL	11.6	1.84	1	8/3/2007	
Indeno(1,2,3-c,d)pyrene	BQL	11.6	5.31	1	8/3/2007	
Isophorone	BQL	11.6	1.48	1	8/3/2007	
Naphthalene	BQL	11.6	1.26	1	8/3/2007	
Nitrobenzene	BQL	11.6	1.53	1	8/3/2007	
2-Nitrophenol	BQL	11.6	4.09	1	8/3/2007	
4-Nitrophenol	BQL	58.1	3.69	1	8/3/2007	
N-Nitrosodi-n-propylamine	BQL	11.6	2.17	1	8/3/2007	
Pentachlorophenol	BQL	58.1	3.29	1	8/3/2007	
Phenanthrene	BQL	11.6	1.60	1	8/3/2007	

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTLCH4015-MW15
Client Project ID: NV019
Lab Sample ID: G650-118-15H
Lab Project ID: G650-118

Analyzed By: EAW
Date Collected: 7/24/2007 19:01
Date Received: 7/26/2007
Date Extracted: 8/1/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Phenol	BQL	11.6	3.93	1	8/3/2007	
Pyrene	BQL	11.6	2.42	1	8/3/2007	
1,2,4-Trichlorobenzene	BQL	11.6	1.55	1	8/3/2007	
2,4,6-Trichlorophenol	BQL	11.6	3.40	1	8/3/2007	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	6.8	68		
2-Fluorophenol		10	6.7	67		
Nitrobenzene-d5		10	6.8	68		
Phenol-d6		10	6.7	67		
2,4,6-Tribromophenol		10	7.7	77		
4-Terphenyl-d14		10	8.2	82		

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.
Sample was re-extracted out of hold.

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: USTLCH4015-MW15
Client Project ID: NV019
Lab Sample ID: G650-118-15H
Lab Project ID: G650-118
Sample Wt/Vol: 430 ML
Dilution: 1

Analyzed By: EAW
Date Collected: 7/24/2007 19:01
Date Received: 7/26/2007
Date Extracted: 8/1/2007
Date Analyzed: 8/3/2007
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Unknown	12.27			10.5
2	Cyclohexane, 1,2-dichloro-, trans-	7.70	000822-86-6	78	5.47
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: USTLCH4015-MW08
Client Project ID: NV019
Lab Sample ID: G650-118-16H
Lab Project ID: G650-118

Analyzed By: EAW
Date Collected: 7/25/2007 9:17
Date Received: 7/26/2007
Date Extracted: 8/1/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	11.6	1.42	1	8/3/2007	
Acenaphthylene	BQL	11.6	1.30	1	8/3/2007	
Anthracene	BQL	11.6	2.03	1	8/3/2007	
Benzo[a]anthracene	BQL	11.6	1.58	1	8/3/2007	
Benzo[a]pyrene	BQL	11.6	1.48	1	8/3/2007	
Benzo[b]fluoranthene	BQL	11.6	1.66	1	8/3/2007	
Benzo[g,h,i]perylene	BQL	11.6	5.31	1	8/3/2007	
Benzo[k]fluoranthene	BQL	11.6	1.27	1	8/3/2007	
Bis(2-chloroethoxy)methane	BQL	11.6	1.29	1	8/3/2007	
Bis(2-chloroethyl)ether	BQL	11.6	1.27	1	8/3/2007	
Bis(2-chloroisopropyl)ether	BQL	11.6	1.83	1	8/3/2007	
Bis(2-ethylhexyl)phthalate	BQL	11.6	1.55	1	8/3/2007	
4-bromophenyl phenyl ether	BQL	11.6	2.31	1	8/3/2007	
Butylbenzylphthalate	BQL	11.6	1.78	1	8/3/2007	
2-Chloronaphthalene	BQL	11.6	1.45	1	8/3/2007	
2-Chlorophenol	BQL	11.6	4.91	1	8/3/2007	
4-Chloro-3-methylphenol	BQL	11.6	3.79	1	8/3/2007	
4-Chlorophenyl phenyl ether	BQL	11.6	1.65	1	8/3/2007	
Chrysene	BQL	11.6	1.29	1	8/3/2007	
Dibenzo[a,h]anthracene	BQL	11.6	5.66	1	8/3/2007	
Di-n-Butylphthalate	BQL	11.6	1.92	1	8/3/2007	
3,3'-Dichlorobenzidine	BQL	23.3	4.77	1	8/3/2007	
2,4-Dichlorophenol	BQL	11.6	4.36	1	8/3/2007	
Diethylphthalate	BQL	11.6	1.72	1	8/3/2007	
Dimethylphthalate	BQL	11.6	1.21	1	8/3/2007	
2,4-Dimethylphenol	BQL	11.6	10.8	1	8/3/2007	
Di-n-octylphthalate	BQL	11.6	1.35	1	8/3/2007	
4,6-Dinitro-2-methylphenol	BQL	58.1	4.31	1	8/3/2007	
2,4-Dinitrophenol	BQL	58.1	4.88	1	8/3/2007	
2,4-Dinitrotoluene	BQL	11.6	1.77	1	8/3/2007	
2,6-Dinitrotoluene	BQL	11.6	1.64	1	8/3/2007	
Diphenylamine *	BQL	11.6	1.78	1	8/3/2007	
Fluoranthene	BQL	11.6	1.64	1	8/3/2007	
Fluorene	BQL	11.6	1.42	1	8/3/2007	
Hexachlorobenzene	BQL	11.6	1.42	1	8/3/2007	
Hexachlorobutadiene	BQL	11.6	1.84	1	8/3/2007	
Hexachlorocyclopentadiene	BQL	23.3	23.3	1	8/3/2007	
Hexachloroethane	BQL	11.6	1.84	1	8/3/2007	
Indeno(1,2,3-c,d)pyrene	BQL	11.6	5.31	1	8/3/2007	
Isophorone	BQL	11.6	1.48	1	8/3/2007	
Naphthalene	BQL	11.6	1.26	1	8/3/2007	
Nitrobenzene	BQL	11.6	1.53	1	8/3/2007	
2-Nitrophenol	BQL	11.6	4.09	1	8/3/2007	
4-Nitrophenol	BQL	58.1	3.69	1	8/3/2007	
N-Nitrosodi-n-propylamine	BQL	11.6	2.17	1	8/3/2007	
Pentachlorophenol	BQL	58.1	3.29	1	8/3/2007	
Phenanthrene	BQL	11.6	1.60	1	8/3/2007	

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTLCH4015-MW08
Client Project ID: NV019
Lab Sample ID: G650-118-16H
Lab Project ID: G650-118

Analyzed By: EAW
Date Collected: 7/25/2007 9:17
Date Received: 7/26/2007
Date Extracted: 8/1/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Phenol	BQL	11.6	3.93	1	8/3/2007	
Pyrene	BQL	11.6	2.42	1	8/3/2007	
1,2,4-Trichlorobenzene	BQL	11.6	1.55	1	8/3/2007	
2,4,6-Trichlorophenol	BQL	11.6	3.40	1	8/3/2007	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	6.5	65		
2-Fluorophenol		10	6.6	66		
Nitrobenzene-d5		10	6.8	68		
Phenol-d6		10	6.5	65		
2,4,6-Tribromophenol		10	7.5	75		
4-Terphenyl-d14		10	8.3	83		

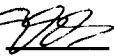
Comments:

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

Flags:

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By: 

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

Client Sample ID: USTLCH4015-MW08
Client Project ID: NV019
Lab Sample ID: G650-118-16H
Lab Project ID: G650-118
Sample Wt/Vol: 430 ML
Dilution: 1

Analyzed By: EAW
Date Collected: 7/25/2007 9:17
Date Received: 7/26/2007
Date Extracted: 8/1/2007
Date Analyzed: 8/3/2007
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Unknown	12.27			11.2
2	Cyclohexane, 1,2-dichloro-, trans-	7.70	000822-86-6	90	7.04
3	Unknown	6.18			4.02
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: USTLCH4015-MW04
Client Project ID: NV019
Lab Sample ID: G650-118-17H
Lab Project ID: G650-118

Analyzed By: EAW
Date Collected: 7/25/2007 9:39
Date Received: 7/26/2007
Date Extracted: 8/1/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	11.6	1.42	1	8/3/2007	
Acenaphthylene	BQL	11.6	1.30	1	8/3/2007	
Anthracene	BQL	11.6	2.03	1	8/3/2007	
Benzo[a]anthracene	BQL	11.6	1.58	1	8/3/2007	
Benzo[a]pyrene	BQL	11.6	1.48	1	8/3/2007	
Benzo[b]fluoranthene	BQL	11.6	1.66	1	8/3/2007	
Benzo[g,h,i]perylene	BQL	11.6	5.31	1	8/3/2007	
Benzo[k]fluoranthene	BQL	11.6	1.27	1	8/3/2007	
Bis(2-chloroethoxy)methane	BQL	11.6	1.29	1	8/3/2007	
Bis(2-chloroethyl)ether	BQL	11.6	1.27	1	8/3/2007	
Bis(2-chloroisopropyl)ether	BQL	11.6	1.83	1	8/3/2007	
Bis(2-ethylhexyl)phthalate	BQL	11.6	1.55	1	8/3/2007	
4-bromophenyl phenyl ether	BQL	11.6	2.31	1	8/3/2007	
Butylbenzylphthalate	BQL	11.6	1.78	1	8/3/2007	
2-Chloronaphthalene	BQL	11.6	1.45	1	8/3/2007	
2-Chlorophenol	BQL	11.6	4.91	1	8/3/2007	
4-Chloro-3-methylphenol	BQL	11.6	3.79	1	8/3/2007	
4-Chlorophenyl phenyl ether	BQL	11.6	1.65	1	8/3/2007	
Chrysene	BQL	11.6	1.29	1	8/3/2007	
Dibenzo[a,h]anthracene	BQL	11.6	5.66	1	8/3/2007	
Di-n-Butylphthalate	BQL	11.6	1.92	1	8/3/2007	
3,3'-Dichlorobenzidine	BQL	23.3	4.77	1	8/3/2007	
2,4-Dichlorophenol	BQL	11.6	4.36	1	8/3/2007	
Diethylphthalate	BQL	11.6	1.72	1	8/3/2007	
Dimethylphthalate	BQL	11.6	1.21	1	8/3/2007	
2,4-Dimethylphenol	BQL	11.6	10.8	1	8/3/2007	
Di-n-octylphthalate	BQL	11.6	1.35	1	8/3/2007	
4,6-Dinitro-2-methylphenol	BQL	58.1	4.31	1	8/3/2007	
2,4-Dinitrophenol	BQL	58.1	4.88	1	8/3/2007	
2,4-Dinitrotoluene	BQL	11.6	1.77	1	8/3/2007	
2,6-Dinitrotoluene	BQL	11.6	1.64	1	8/3/2007	
Diphenylamine *	BQL	11.6	1.78	1	8/3/2007	
Fluoranthene	BQL	11.6	1.64	1	8/3/2007	
Fluorene	BQL	11.6	1.42	1	8/3/2007	
Hexachlorobenzene	BQL	11.6	1.42	1	8/3/2007	
Hexachlorobutadiene	BQL	11.6	1.84	1	8/3/2007	
Hexachlorocyclopentadiene	BQL	23.3	23.3	1	8/3/2007	
Hexachloroethane	BQL	11.6	1.84	1	8/3/2007	
Indeno(1,2,3-c,d)pyrene	BQL	11.6	5.31	1	8/3/2007	
Isophorone	BQL	11.6	1.48	1	8/3/2007	
Naphthalene	2.33	11.6	1.26	1	8/3/2007	J
Nitrobenzene	BQL	11.6	1.53	1	8/3/2007	
2-Nitrophenol	BQL	11.6	4.09	1	8/3/2007	
4-Nitrophenol	BQL	58.1	3.69	1	8/3/2007	
N-Nitrosodi-n-propylamine	BQL	11.6	2.17	1	8/3/2007	
Pentachlorophenol	BQL	58.1	3.29	1	8/3/2007	
Phenanthrene	BQL	11.6	1.60	1	8/3/2007	

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTLCH4015-MW04
Client Project ID: NV019
Lab Sample ID: G650-118-17H
Lab Project ID: G650-118

Analyzed By: EAW
Date Collected: 7/25/2007 9:39
Date Received: 7/26/2007
Date Extracted: 8/1/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Phenol	BQL	11.6	3.93	1	8/3/2007	
Pyrene	BQL	11.6	2.42	1	8/3/2007	
1,2,4-Trichlorobenzene	BQL	11.6	1.55	1	8/3/2007	
2,4,6-Trichlorophenol	BQL	11.6	3.40	1	8/3/2007	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	7.2	72		
2-Fluorophenol		10	7.2	72		
Nitrobenzene-d5		10	7.3	73		
Phenol-d6		10	7.2	72		
2,4,6-Tribromophenol		10	8.6	86		
4-Terphenyl-d14		10	9.1	91		

Comments:

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

Flags:

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By: 

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

Client Sample ID: USTLCH4015-MW04
Client Project ID: NV019
Lab Sample ID: G650-118-17H
Lab Project ID: G650-118
Sample Wt/Vol: 430 ML
Dilution: 1

Analyzed By: EAW
Date Collected: 7/25/2007 9:39
Date Received: 7/26/2007
Date Extracted: 8/1/2007
Date Analyzed: 8/3/2007
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Unknown	12.27			11.2
2	Cyclohexane, 1,2-dichloro-, trans-	7.70	000822-86-6	90	7.04
3	Unknown	6.18			4.02
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: USTLCH4015-MW05
Client Project ID: NV019
Lab Sample ID: G650-118-18H
Lab Project ID: G650-118

Analyzed By: EAW
Date Collected: 7/25/2007 10:47
Date Received: 7/26/2007
Date Extracted: 8/1/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	11.6	1.42	1	8/3/2007	
Acenaphthylene	BQL	11.6	1.30	1	8/3/2007	
Anthracene	BQL	11.6	2.03	1	8/3/2007	
Benzo[a]anthracene	BQL	11.6	1.58	1	8/3/2007	
Benzo[a]pyrene	BQL	11.6	1.48	1	8/3/2007	
Benzo[b]fluoranthene	BQL	11.6	1.66	1	8/3/2007	
Benzo[g,h,i]perylene	BQL	11.6	5.31	1	8/3/2007	
Benzo[k]fluoranthene	BQL	11.6	1.27	1	8/3/2007	
Bis(2-chloroethoxy)methane	BQL	11.6	1.29	1	8/3/2007	
Bis(2-chloroethyl)ether	BQL	11.6	1.27	1	8/3/2007	
Bis(2-chloroisopropyl)ether	BQL	11.6	1.83	1	8/3/2007	
Bis(2-ethylhexyl)phthalate	BQL	11.6	1.55	1	8/3/2007	
4-bromophenyl phenyl ether	BQL	11.6	2.31	1	8/3/2007	
Butylbenzylphthalate	BQL	11.6	1.78	1	8/3/2007	
2-Chloronaphthalene	BQL	11.6	1.45	1	8/3/2007	
2-Chlorophenol	BQL	11.6	4.91	1	8/3/2007	
4-Chloro-3-methylphenol	BQL	11.6	3.79	1	8/3/2007	
4-Chlorophenyl phenyl ether	BQL	11.6	1.65	1	8/3/2007	
Chrysene	BQL	11.6	1.29	1	8/3/2007	
Dibenzo[a,h]anthracene	BQL	11.6	5.66	1	8/3/2007	
Di-n-Butylphthalate	BQL	11.6	1.92	1	8/3/2007	
3,3'-Dichlorobenzidine	BQL	23.3	4.77	1	8/3/2007	
2,4-Dichlorophenol	BQL	11.6	4.36	1	8/3/2007	
Diethylphthalate	4.77	11.6	1.72	1	8/3/2007	J
Dimethylphthalate	BQL	11.6	1.21	1	8/3/2007	
2,4-Dimethylphenol	BQL	11.6	10.8	1	8/3/2007	
Di-n-octylphthalate	BQL	11.6	1.35	1	8/3/2007	
4,6-Dinitro-2-methylphenol	BQL	58.1	4.31	1	8/3/2007	
2,4-Dinitrophenol	BQL	58.1	4.88	1	8/3/2007	
2,4-Dinitrotoluene	BQL	11.6	1.77	1	8/3/2007	
2,6-Dinitrotoluene	BQL	11.6	1.64	1	8/3/2007	
Diphenylamine *	BQL	11.6	1.78	1	8/3/2007	
Fluoranthene	BQL	11.6	1.64	1	8/3/2007	
Fluorene	BQL	11.6	1.42	1	8/3/2007	
Hexachlorobenzene	BQL	11.6	1.42	1	8/3/2007	
Hexachlorobutadiene	BQL	11.6	1.84	1	8/3/2007	
Hexachlorocyclopentadiene	BQL	23.3	23.3	1	8/3/2007	
Hexachloroethane	BQL	11.6	1.84	1	8/3/2007	
Indeno(1,2,3-c,d)pyrene	BQL	11.6	5.31	1	8/3/2007	
Isophorone	BQL	11.6	1.48	1	8/3/2007	
Naphthalene	BQL	11.6	1.26	1	8/3/2007	
Nitrobenzene	BQL	11.6	1.53	1	8/3/2007	
2-Nitrophenol	BQL	11.6	4.09	1	8/3/2007	
4-Nitrophenol	BQL	58.1	3.69	1	8/3/2007	
N-Nitrosodi-n-propylamine	BQL	11.6	2.17	1	8/3/2007	
Pentachlorophenol	BQL	58.1	3.29	1	8/3/2007	
Phenanthrene	BQL	11.6	1.60	1	8/3/2007	

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTLCH4015-MW05
Client Project ID: NV019
Lab Sample ID: G650-118-18H
Lab Project ID: G650-118

Analyzed By: EAW
Date Collected: 7/25/2007 10:47
Date Received: 7/26/2007
Date Extracted: 8/1/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Phenol	BQL	11.6	3.93	1	8/3/2007	
Pyrene	BQL	11.6	2.42	1	8/3/2007	
1,2,4-Trichlorobenzene	BQL	11.6	1.55	1	8/3/2007	
2,4,6-Trichlorophenol	BQL	11.6	3.40	1	8/3/2007	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	7.2	72		
2-Fluorophenol		10	7.3	73		
Nitrobenzene-d5		10	7.4	74		
Phenol-d6		10	7.5	75		
2,4,6-Tribromophenol		10	8.2	82		
4-Terphenyl-d14		10	8.4	84		

Comments:

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

Flags:

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By: 

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

Client Sample ID: USTLCH4015-MW05
Client Project ID: NV019
Lab Sample ID: G650-118-18H
Lab Project ID: G650-118
Sample Wt/Vol: 430 ML
Dilution: 1

Analyzed By: EAW
Date Collected: 7/25/2007 10:47
Date Received: 7/26/2007
Date Extracted: 8/1/2007
Date Analyzed: 8/3/2007
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Unknown	12.27			10.1
2	Aromatic, Unknown	7.27			7.1
3	Alkane, Unknown	7.69			6.71
4	Unknown	6.18			5.47
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: USTLCH4015-MW03
Client Project ID: NV019
Lab Sample ID: G650-118-19H
Lab Project ID: G650-118

Analyzed By: EAW
Date Collected: 7/25/2007 11:17
Date Received: 7/26/2007
Date Extracted: 8/1/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	11.6	1.42	1	8/3/2007	
Acenaphthylene	BQL	11.6	1.30	1	8/3/2007	
Anthracene	BQL	11.6	2.03	1	8/3/2007	
Benzo[a]anthracene	BQL	11.6	1.58	1	8/3/2007	
Benzo[a]pyrene	BQL	11.6	1.48	1	8/3/2007	
Benzo[b]fluoranthene	BQL	11.6	1.66	1	8/3/2007	
Benzo[g,h,i]perylene	BQL	11.6	5.31	1	8/3/2007	
Benzo[k]fluoranthene	BQL	11.6	1.27	1	8/3/2007	
Bis(2-chloroethoxy)methane	BQL	11.6	1.29	1	8/3/2007	
Bis(2-chloroethyl)ether	BQL	11.6	1.27	1	8/3/2007	
Bis(2-chloroisopropyl)ether	BQL	11.6	1.83	1	8/3/2007	
Bis(2-ethylhexyl)phthalate	3.26	11.6	1.55	1	8/3/2007	J
4-bromophenyl phenyl ether	BQL	11.6	2.31	1	8/3/2007	
Butylbenzylphthalate	BQL	11.6	1.78	1	8/3/2007	
2-Chloronaphthalene	BQL	11.6	1.45	1	8/3/2007	
2-Chlorophenol	BQL	11.6	4.91	1	8/3/2007	
4-Chloro-3-methylphenol	BQL	11.6	3.79	1	8/3/2007	
4-Chlorophenyl phenyl ether	BQL	11.6	1.65	1	8/3/2007	
Chrysene	BQL	11.6	1.29	1	8/3/2007	
Dibenzo[a,h]anthracene	BQL	11.6	5.66	1	8/3/2007	
Di-n-Butylphthalate	BQL	11.6	1.92	1	8/3/2007	
3,3'-Dichlorobenzidine	BQL	23.3	4.77	1	8/3/2007	
2,4-Dichlorophenol	BQL	11.6	4.36	1	8/3/2007	
Diethylphthalate	BQL	11.6	1.72	1	8/3/2007	
Dimethylphthalate	BQL	11.6	1.21	1	8/3/2007	
2,4-Dimethylphenol	BQL	11.6	10.8	1	8/3/2007	
Di-n-octylphthalate	BQL	11.6	1.35	1	8/3/2007	
4,6-Dinitro-2-methylphenol	BQL	58.1	4.31	1	8/3/2007	
2,4-Dinitrophenol	BQL	58.1	4.88	1	8/3/2007	
2,4-Dinitrotoluene	BQL	11.6	1.77	1	8/3/2007	
2,6-Dinitrotoluene	BQL	11.6	1.64	1	8/3/2007	
Diphenylamine *	BQL	11.6	1.78	1	8/3/2007	
Fluoranthene	BQL	11.6	1.64	1	8/3/2007	
Fluorene	BQL	11.6	1.42	1	8/3/2007	
Hexachlorobenzene	BQL	11.6	1.42	1	8/3/2007	
Hexachlorobutadiene	BQL	11.6	1.84	1	8/3/2007	
Hexachlorocyclopentadiene	BQL	23.3	23.3	1	8/3/2007	
Hexachloroethane	BQL	11.6	1.84	1	8/3/2007	
Indeno(1,2,3-c,d)pyrene	BQL	11.6	5.31	1	8/3/2007	
Isophorone	BQL	11.6	1.48	1	8/3/2007	
Naphthalene	BQL	11.6	1.26	1	8/3/2007	
Nitrobenzene	BQL	11.6	1.53	1	8/3/2007	
2-Nitrophenol	BQL	11.6	4.09	1	8/3/2007	
4-Nitrophenol	BQL	58.1	3.69	1	8/3/2007	
N-Nitrosodi-n-propylamine	BQL	11.6	2.17	1	8/3/2007	
Pentachlorophenol	BQL	58.1	3.29	1	8/3/2007	
Phenanthrene	BQL	11.6	1.60	1	8/3/2007	

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTLCH4015-MW03
Client Project ID: NV019
Lab Sample ID: G650-118-19H
Lab Project ID: G650-118

Analyzed By: EAW
Date Collected: 7/25/2007 11:17
Date Received: 7/26/2007
Date Extracted: 8/1/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Phenol	BQL	11.6	3.93	1	8/3/2007	
Pyrene	BQL	11.6	2.42	1	8/3/2007	
1,2,4-Trichlorobenzene	BQL	11.6	1.55	1	8/3/2007	
2,4,6-Trichlorophenol	BQL	11.6	3.40	1	8/3/2007	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	7.4	74		
2-Fluorophenol		10	7.6	76		
Nitrobenzene-d5		10	7.6	76		
Phenol-d6		10	7.6	76		
2,4,6-Tribromophenol		10	8.7	87		
4-Terphenyl-d14		10	9	90		

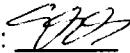
Comments:

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

Flags:

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By: 

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

Client Sample ID: USTLCH4015-MW03
Client Project ID: NV019
Lab Sample ID: G650-118-19H
Lab Project ID: G650-118
Sample Wt/Vol: 430 ML
Dilution: 1

Analyzed By: EAW
Date Collected: 7/25/2007 11:17
Date Received: 7/26/2007
Date Extracted: 8/1/2007
Date Analyzed: 8/3/2007
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Unknown	12.27			11.4
2	Unknown	6.19			5.36
3	Unknown	5.06			4.4
4	Cyclohexane, 1,2-dichloro-, trans-	7.69	000822-86-6	90	4.15
5					
6					
7					
8					
9					
10					

Comment:

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

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

Reviewed by: 

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTLCH4015-MW09
Client Project ID: NV019
Lab Sample ID: G650-118-20I
Lab Project ID: G650-118

Analyzed By: EAW
Date Collected: 7/25/2007 11:40
Date Received: 7/26/2007
Date Extracted: 8/1/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	11.6	1.42	1	8/3/2007	
Acenaphthylene	BQL	11.6	1.30	1	8/3/2007	
Anthracene	BQL	11.6	2.03	1	8/3/2007	
Benzo[a]anthracene	BQL	11.6	1.58	1	8/3/2007	
Benzo[a]pyrene	BQL	11.6	1.48	1	8/3/2007	
Benzo[b]fluoranthene	BQL	11.6	1.66	1	8/3/2007	
Benzo[g,h,i]perylene	BQL	11.6	5.31	1	8/3/2007	
Benzo[k]fluoranthene	BQL	11.6	1.27	1	8/3/2007	
Bis(2-chloroethoxy)methane	BQL	11.6	1.29	1	8/3/2007	
Bis(2-chloroethyl)ether	BQL	11.6	1.27	1	8/3/2007	
Bis(2-chloroisopropyl)ether	BQL	11.6	1.83	1	8/3/2007	
Bis(2-ethylhexyl)phthalate	BQL	11.6	1.55	1	8/3/2007	
4-bromophenyl phenyl ether	BQL	11.6	2.31	1	8/3/2007	
Butylbenzylphthalate	BQL	11.6	1.78	1	8/3/2007	
2-Chloronaphthalene	BQL	11.6	1.45	1	8/3/2007	
2-Chlorophenol	BQL	11.6	4.91	1	8/3/2007	
4-Chloro-3-methylphenol	BQL	11.6	3.79	1	8/3/2007	
4-Chlorophenyl phenyl ether	BQL	11.6	1.65	1	8/3/2007	
Chrysene	BQL	11.6	1.29	1	8/3/2007	
Dibenzo[a,h]anthracene	BQL	11.6	5.66	1	8/3/2007	
Di-n-Butylphthalate	BQL	11.6	1.92	1	8/3/2007	
3,3'-Dichlorobenzidine	BQL	23.3	4.77	1	8/3/2007	
2,4-Dichlorophenol	BQL	11.6	4.36	1	8/3/2007	
Diethylphthalate	BQL	11.6	1.72	1	8/3/2007	
Dimethylphthalate	BQL	11.6	1.21	1	8/3/2007	
2,4-Dimethylphenol	BQL	11.6	10.8	1	8/3/2007	
Di-n-octylphthalate	BQL	11.6	1.35	1	8/3/2007	
4,6-Dinitro-2-methylphenol	BQL	58.1	4.31	1	8/3/2007	
2,4-Dinitrophenol	BQL	58.1	4.88	1	8/3/2007	
2,4-Dinitrotoluene	BQL	11.6	1.77	1	8/3/2007	
2,6-Dinitrotoluene	BQL	11.6	1.64	1	8/3/2007	
Diphenylamine *	BQL	11.6	1.78	1	8/3/2007	
Fluoranthene	BQL	11.6	1.64	1	8/3/2007	
Fluorene	BQL	11.6	1.42	1	8/3/2007	
Hexachlorobenzene	BQL	11.6	1.42	1	8/3/2007	
Hexachlorobutadiene	BQL	11.6	1.84	1	8/3/2007	
Hexachlorocyclopentadiene	BQL	23.3	23.3	1	8/3/2007	
Hexachloroethane	BQL	11.6	1.84	1	8/3/2007	
Indeno(1,2,3-c,d)pyrene	BQL	11.6	5.31	1	8/3/2007	
Isophorone	BQL	11.6	1.48	1	8/3/2007	
Naphthalene	BQL	11.6	1.26	1	8/3/2007	
Nitrobenzene	BQL	11.6	1.53	1	8/3/2007	
2-Nitrophenol	BQL	11.6	4.09	1	8/3/2007	
4-Nitrophenol	BQL	58.1	3.69	1	8/3/2007	
N-Nitrosodi-n-propylamine	BQL	11.6	2.17	1	8/3/2007	
Pentachlorophenol	BQL	58.1	3.29	1	8/3/2007	
Phenanthrene	BQL	11.6	1.60	1	8/3/2007	

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTLCH4015-MW09
Client Project ID: NV019
Lab Sample ID: G650-118-20I
Lab Project ID: G650-118

Analyzed By: EAW
Date Collected: 7/25/2007 11:40
Date Received: 7/26/2007
Date Extracted: 8/1/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Phenol	BQL	11.6	3.93	1	8/3/2007	
Pyrene	BQL	11.6	2.42	1	8/3/2007	
1,2,4-Trichlorobenzene	BQL	11.6	1.55	1	8/3/2007	
2,4,6-Trichlorophenol	BQL	11.6	3.40	1	8/3/2007	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	7.2	72		
2-Fluorophenol		10	7	70		
Nitrobenzene-d5		10	7.3	73		
Phenol-d6		10	6.9	69		
2,4,6-Tribromophenol		10	7.9	79		
4-Terphenyl-d14		10	8.9	89		

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: USTLCH4015-MW09
Client Project ID: NV019
Lab Sample ID: G650-118-20I
Lab Project ID: G650-118
Sample Wt/Vol: 430 ML
Dilution: 1

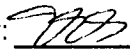
Analyzed By: EAW
Date Collected: 7/25/2007 11:40
Date Received: 7/26/2007
Date Extracted: 8/1/2007
Date Analyzed: 8/3/2007
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Unknown	12.27			9.46
2	Cyclohexane, 1,2-dichloro-, trans-	7.70	000822-86-6	90	5.28
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: USTLCH4015-MW24

Client Project ID: NV019

Lab Sample ID: G650-118-21J

Lab Project ID: G650-118

Analyzed By: EAW

Date Collected: 7/25/2007 12:07

Date Received: 7/26/2007

Date Extracted: 8/1/2007

Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	11.6	1.42	1	8/3/2007	
Acenaphthylene	BQL	11.6	1.30	1	8/3/2007	
Anthracene	BQL	11.6	2.03	1	8/3/2007	
Benzo[a]anthracene	BQL	11.6	1.58	1	8/3/2007	
Benzo[a]pyrene	BQL	11.6	1.48	1	8/3/2007	
Benzo[b]fluoranthene	BQL	11.6	1.66	1	8/3/2007	
Benzo[g,h,i]perylene	BQL	11.6	5.31	1	8/3/2007	
Benzo[k]fluoranthene	BQL	11.6	1.27	1	8/3/2007	
Bis(2-chloroethoxy)methane	BQL	11.6	1.29	1	8/3/2007	
Bis(2-chloroethyl)ether	BQL	11.6	1.27	1	8/3/2007	
Bis(2-chloroisopropyl)ether	BQL	11.6	1.83	1	8/3/2007	
Bis(2-ethylhexyl)phthalate	BQL	11.6	1.55	1	8/3/2007	
4-bromophenyl phenyl ether	BQL	11.6	2.31	1	8/3/2007	
Butylbenzylphthalate	BQL	11.6	1.78	1	8/3/2007	
2-Chloronaphthalene	BQL	11.6	1.45	1	8/3/2007	
2-Chlorophenol	BQL	11.6	4.91	1	8/3/2007	
4-Chloro-3-methylphenol	BQL	11.6	3.79	1	8/3/2007	
4-Chlorophenyl phenyl ether	BQL	11.6	1.65	1	8/3/2007	
Chrysene	BQL	11.6	1.29	1	8/3/2007	
Dibenzo[a,h]anthracene	BQL	11.6	5.66	1	8/3/2007	
Di-n-Butylphthalate	BQL	11.6	1.92	1	8/3/2007	
3,3'-Dichlorobenzidine	BQL	23.3	4.77	1	8/3/2007	
2,4-Dichlorophenol	BQL	11.6	4.36	1	8/3/2007	
Diethylphthalate	BQL	11.6	1.72	1	8/3/2007	
Dimethylphthalate	BQL	11.6	1.21	1	8/3/2007	
2,4-Dimethylphenol	BQL	11.6	10.8	1	8/3/2007	
Di-n-octylphthalate	BQL	11.6	1.35	1	8/3/2007	
4,6-Dinitro-2-methylphenol	BQL	58.1	4.31	1	8/3/2007	
2,4-Dinitrophenol	BQL	58.1	4.88	1	8/3/2007	
2,4-Dinitrotoluene	BQL	11.6	1.77	1	8/3/2007	
2,6-Dinitrotoluene	BQL	11.6	1.64	1	8/3/2007	
Diphenylamine *	BQL	11.6	1.78	1	8/3/2007	
Fluoranthene	BQL	11.6	1.64	1	8/3/2007	
Fluorene	BQL	11.6	1.42	1	8/3/2007	
Hexachlorobenzene	BQL	11.6	1.42	1	8/3/2007	
Hexachlorobutadiene	BQL	11.6	1.84	1	8/3/2007	
Hexachlorocyclopentadiene	BQL	23.3	23.3	1	8/3/2007	
Hexachloroethane	BQL	11.6	1.84	1	8/3/2007	
Indeno(1,2,3-c,d)pyrene	BQL	11.6	5.31	1	8/3/2007	
Isophorone	BQL	11.6	1.48	1	8/3/2007	
Naphthalene	BQL	11.6	1.26	1	8/3/2007	
Nitrobenzene	BQL	11.6	1.53	1	8/3/2007	
2-Nitrophenol	BQL	11.6	4.09	1	8/3/2007	
4-Nitrophenol	BQL	58.1	3.69	1	8/3/2007	
N-Nitrosodi-n-propylamine	BQL	11.6	2.17	1	8/3/2007	
Pentachlorophenol	BQL	58.1	3.29	1	8/3/2007	
Phenanthrene	BQL	11.6	1.60	1	8/3/2007	

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTLCH4015-MW24
Client Project ID: NV019
Lab Sample ID: G650-118-21J
Lab Project ID: G650-118

Analyzed By: EAW
Date Collected: 7/25/2007 12:07
Date Received: 7/26/2007
Date Extracted: 8/1/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Phenol	BQL	11.6	3.93	1	8/3/2007	
Pyrene	BQL	11.6	2.42	1	8/3/2007	
1,2,4-Trichlorobenzene	BQL	11.6	1.55	1	8/3/2007	
2,4,6-Trichlorophenol	BQL	11.6	3.40	1	8/3/2007	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	6.8	68		
2-Fluorophenol		10	7	70		
Nitrobenzene-d5		10	7.1	71		
Phenol-d6		10	6.7	67		
2,4,6-Tribromophenol		10	7.5	75		
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: USTLCH4015-MW24
Client Project ID: NV019
Lab Sample ID: G650-118-21J
Lab Project ID: G650-118
Sample Wt/Vol: 430 ML
Dilution: 1

Analyzed By: EAW
Date Collected: 7/25/2007 12:07
Date Received: 7/26/2007
Date Extracted: 8/1/2007
Date Analyzed: 8/3/2007
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Unknown	12.27			9.9
2	Cyclohexane, 1,2-dichloro-, trans-	7.70	000822-86-6	90	7.01
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: USTLCH4015-MW10
Client Project ID: NV019
Lab Sample ID: G650-118-22G
Lab Project ID: G650-118

Analyzed By: EAW
Date Collected: 7/25/2007 12:36
Date Received: 7/26/2007
Date Extracted: 7/27/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	7/31/2007	
Acenaphthylene	BQL	10.0	1.12	1	7/31/2007	
Anthracene	BQL	10.0	1.75	1	7/31/2007	
Benzo[a]anthracene	BQL	10.0	1.36	1	7/31/2007	
Benzo[a]pyrene	BQL	10.0	1.27	1	7/31/2007	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	7/31/2007	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	7/31/2007	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	7/31/2007	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	7/31/2007	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	7/31/2007	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	7/31/2007	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	7/31/2007	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	7/31/2007	
Butylbenzylphthalate	BQL	10.0	1.53	1	7/31/2007	
2-Chloronaphthalene	BQL	10.0	1.25	1	7/31/2007	
2-Chlorophenol	BQL	10.0	4.22	1	7/31/2007	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	7/31/2007	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	7/31/2007	
Chrysene	BQL	10.0	1.11	1	7/31/2007	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	7/31/2007	
Di-n-Butylphthalate	BQL	10.0	1.65	1	7/31/2007	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	7/31/2007	
2,4-Dichlorophenol	BQL	10.0	3.75	1	7/31/2007	
Diethylphthalate	BQL	10.0	1.48	1	7/31/2007	
Dimethylphthalate	BQL	10.0	1.04	1	7/31/2007	
2,4-Dimethylphenol	BQL	10.0	9.25	1	7/31/2007	
Di-n-octylphthalate	BQL	10.0	1.16	1	7/31/2007	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	7/31/2007	
2,4-Dinitrophenol	BQL	50.0	4.20	1	7/31/2007	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	7/31/2007	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	7/31/2007	
Diphenylamine *	BQL	10.0	1.53	1	7/31/2007	
Fluoranthene	BQL	10.0	1.41	1	7/31/2007	
Fluorene	BQL	10.0	1.22	1	7/31/2007	
Hexachlorobenzene	BQL	10.0	1.22	1	7/31/2007	
Hexachlorobutadiene	BQL	10.0	1.58	1	7/31/2007	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	7/31/2007	
Hexachloroethane	BQL	10.0	1.58	1	7/31/2007	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	7/31/2007	
Isophorone	BQL	10.0	1.27	1	7/31/2007	
Naphthalene	BQL	10.0	1.08	1	7/31/2007	
Nitrobenzene	BQL	10.0	1.32	1	7/31/2007	
2-Nitrophenol	BQL	10.0	3.52	1	7/31/2007	
4-Nitrophenol	BQL	50.0	3.17	1	7/31/2007	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	7/31/2007	
Pentachlorophenol	BQL	50.0	2.83	1	7/31/2007	
Phenanthrene	BQL	10.0	1.38	1	7/31/2007	

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTLCH4015-MW10
Client Project ID: NV019
Lab Sample ID: G650-118-22G
Lab Project ID: G650-118

Analyzed By: EAW
Date Collected: 7/25/2007 12:36
Date Received: 7/26/2007
Date Extracted: 7/27/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Phenol	BQL	10.0	3.38	1	7/31/2007	
Pyrene	BQL	10.0	2.08	1	7/31/2007	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	7/31/2007	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	7/31/2007	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	6.5	65		
2-Fluorophenol		10	5.8	58		
Nitrobenzene-d5		10	6.3	63		
Phenol-d6		10	6.2	62		
2,4,6-Tribromophenol		10	6.1	61		
4-Terphenyl-d14		10	7.9	79		

Comments:

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

Flags:

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By: 

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

Client Sample ID: USTLCH4015-MW10
Client Project ID: NV019
Lab Sample ID: G650-118-22G
Lab Project ID: G650-118
Sample Wt/Vol: 500 ML
Dilution: 1

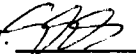
Analyzed By: EAW
Date Collected: 7/25/2007 12:36
Date Received: 7/26/2007
Date Extracted: 7/27/2007
Date Analyzed: 7/31/2007
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Unknown	6.29			14.9
2	Unknown	5.16			13.4
3	Unknown	12.37			9.25
4	Unknown	8.61			6.86
5	Unknown	12.04			4.17
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: USTLCH4015-MW06
Client Project ID: NV019
Lab Sample ID: G650-118-23H
Lab Project ID: G650-118

Analyzed By: EAW
Date Collected: 7/25/2007 13:06
Date Received: 7/26/2007
Date Extracted: 8/1/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	11.6	1.42	1	8/3/2007	
Acenaphthylene	BQL	11.6	1.30	1	8/3/2007	
Anthracene	BQL	11.6	2.03	1	8/3/2007	
Benzo[a]anthracene	BQL	11.6	1.58	1	8/3/2007	
Benzo[a]pyrene	BQL	11.6	1.48	1	8/3/2007	
Benzo[b]fluoranthene	BQL	11.6	1.66	1	8/3/2007	
Benzo[g,h,i]perylene	BQL	11.6	5.31	1	8/3/2007	
Benzo[k]fluoranthene	BQL	11.6	1.27	1	8/3/2007	
Bis(2-chloroethoxy)methane	BQL	11.6	1.29	1	8/3/2007	
Bis(2-chloroethyl)ether	BQL	11.6	1.27	1	8/3/2007	
Bis(2-chloroisopropyl)ether	BQL	11.6	1.83	1	8/3/2007	
Bis(2-ethylhexyl)phthalate	BQL	11.6	1.55	1	8/3/2007	
4-bromophenyl phenyl ether	BQL	11.6	2.31	1	8/3/2007	
Butylbenzylphthalate	BQL	11.6	1.78	1	8/3/2007	
2-Chloronaphthalene	BQL	11.6	1.45	1	8/3/2007	
2-Chlorophenol	BQL	11.6	4.91	1	8/3/2007	
4-Chloro-3-methylphenol	BQL	11.6	3.79	1	8/3/2007	
4-Chlorophenyl phenyl ether	BQL	11.6	1.65	1	8/3/2007	
Chrysene	BQL	11.6	1.29	1	8/3/2007	
Dibenzo[a,h]anthracene	BQL	11.6	5.66	1	8/3/2007	
Di-n-Butylphthalate	BQL	11.6	1.92	1	8/3/2007	
3,3'-Dichlorobenzidine	BQL	23.3	4.77	1	8/3/2007	
2,4-Dichlorophenol	BQL	11.6	4.36	1	8/3/2007	
Diethylphthalate	BQL	11.6	1.72	1	8/3/2007	
Dimethylphthalate	BQL	11.6	1.21	1	8/3/2007	
2,4-Dimethylphenol	BQL	11.6	10.8	1	8/3/2007	
Di-n-octylphthalate	BQL	11.6	1.35	1	8/3/2007	
4,6-Dinitro-2-methylphenol	BQL	58.1	4.31	1	8/3/2007	
2,4-Dinitrophenol	BQL	58.1	4.88	1	8/3/2007	
2,4-Dinitrotoluene	BQL	11.6	1.77	1	8/3/2007	
2,6-Dinitrotoluene	BQL	11.6	1.64	1	8/3/2007	
Diphenylamine *	BQL	11.6	1.78	1	8/3/2007	
Fluoranthene	BQL	11.6	1.64	1	8/3/2007	
Fluorene	BQL	11.6	1.42	1	8/3/2007	
Hexachlorobenzene	BQL	11.6	1.42	1	8/3/2007	
Hexachlorobutadiene	BQL	11.6	1.84	1	8/3/2007	
Hexachlorocyclopentadiene	BQL	23.3	23.3	1	8/3/2007	
Hexachloroethane	BQL	11.6	1.84	1	8/3/2007	
Indeno(1,2,3-c,d)pyrene	BQL	11.6	5.31	1	8/3/2007	
Isophorone	BQL	11.6	1.48	1	8/3/2007	
Naphthalene	BQL	11.6	1.26	1	8/3/2007	
Nitrobenzene	BQL	11.6	1.53	1	8/3/2007	
2-Nitrophenol	BQL	11.6	4.09	1	8/3/2007	
4-Nitrophenol	BQL	58.1	3.69	1	8/3/2007	
N-Nitrosodi-n-propylamine	BQL	11.6	2.17	1	8/3/2007	
Pentachlorophenol	BQL	58.1	3.29	1	8/3/2007	
Phenanthrene	BQL	11.6	1.60	1	8/3/2007	

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTLCH4015-MW06

Client Project ID: NV019

Lab Sample ID: G650-118-23H

Lab Project ID: G650-118

Analyzed By: EAW

Date Collected: 7/25/2007 13:06

Date Received: 7/26/2007

Date Extracted: 8/1/2007

Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Phenol	BQL	11.6	3.93	1	8/3/2007	
Pyrene	BQL	11.6	2.42	1	8/3/2007	
1,2,4-Trichlorobenzene	BQL	11.6	1.55	1	8/3/2007	
2,4,6-Trichlorophenol	BQL	11.6	3.40	1	8/3/2007	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	6.9	69		
2-Fluorophenol		10	6.9	69		
Nitrobenzene-d5		10	7.4	74		
Phenol-d6		10	7.1	71		
2,4,6-Tribromophenol		10	7.7	78		
4-Terphenyl-d14		10	8.9	89		

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: USTLCH4015-MW06
Client Project ID: NV019
Lab Sample ID: G650-118-23H
Lab Project ID: G650-118
Sample Wt/Vol: 430 ML
Dilution: 1

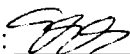
Analyzed By: EAW
Date Collected: 7/25/2007 13:06
Date Received: 7/26/2007
Date Extracted: 8/1/2007
Date Analyzed: 8/3/2007
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Unknown	12.27			9.42
2	Unknown	5.06			4.42
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: USTLCH4015-MW11
Client Project ID: NV019
Lab Sample ID: G650-118-24H
Lab Project ID: G650-118

Analyzed By: EAW
Date Collected: 7/25/2007 13:36
Date Received: 7/26/2007
Date Extracted: 8/1/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	11.6	1.42	1	8/3/2007	
Acenaphthylene	BQL	11.6	1.30	1	8/3/2007	
Anthracene	BQL	11.6	2.03	1	8/3/2007	
Benzo[a]anthracene	BQL	11.6	1.58	1	8/3/2007	
Benzo[a]pyrene	BQL	11.6	1.48	1	8/3/2007	
Benzo[b]fluoranthene	BQL	11.6	1.66	1	8/3/2007	
Benzo[g,h,i]perylene	BQL	11.6	5.31	1	8/3/2007	
Benzo[k]fluoranthene	BQL	11.6	1.27	1	8/3/2007	
Bis(2-chloroethoxy)methane	BQL	11.6	1.29	1	8/3/2007	
Bis(2-chloroethyl)ether	BQL	11.6	1.27	1	8/3/2007	
Bis(2-chloroisopropyl)ether	BQL	11.6	1.83	1	8/3/2007	
Bis(2-ethylhexyl)phthalate	BQL	11.6	1.55	1	8/3/2007	
4-bromophenyl phenyl ether	BQL	11.6	2.31	1	8/3/2007	
Butylbenzylphthalate	BQL	11.6	1.78	1	8/3/2007	
2-Chloronaphthalene	BQL	11.6	1.45	1	8/3/2007	
2-Chlorophenol	BQL	11.6	4.91	1	8/3/2007	
4-Chloro-3-methylphenol	BQL	11.6	3.79	1	8/3/2007	
4-Chlorophenyl phenyl ether	BQL	11.6	1.65	1	8/3/2007	
Chrysene	BQL	11.6	1.29	1	8/3/2007	
Dibenzo[a,h]anthracene	BQL	11.6	5.66	1	8/3/2007	
Di-n-Butylphthalate	BQL	11.6	1.92	1	8/3/2007	
3,3'-Dichlorobenzidine	BQL	23.3	4.77	1	8/3/2007	
2,4-Dichlorophenol	BQL	11.6	4.36	1	8/3/2007	
Diethylphthalate	BQL	11.6	1.72	1	8/3/2007	
Dimethylphthalate	BQL	11.6	1.21	1	8/3/2007	
2,4-Dimethylphenol	BQL	11.6	10.8	1	8/3/2007	
Di-n-octylphthalate	BQL	11.6	1.35	1	8/3/2007	
4,6-Dinitro-2-methylphenol	BQL	58.1	4.31	1	8/3/2007	
2,4-Dinitrophenol	BQL	58.1	4.88	1	8/3/2007	
2,4-Dinitrotoluene	BQL	11.6	1.77	1	8/3/2007	
2,6-Dinitrotoluene	BQL	11.6	1.64	1	8/3/2007	
Diphenylamine *	BQL	11.6	1.78	1	8/3/2007	
Fluoranthene	BQL	11.6	1.64	1	8/3/2007	
Fluorene	BQL	11.6	1.42	1	8/3/2007	
Hexachlorobenzene	BQL	11.6	1.42	1	8/3/2007	
Hexachlorobutadiene	BQL	11.6	1.84	1	8/3/2007	
Hexachlorocyclopentadiene	BQL	23.3	23.3	1	8/3/2007	
Hexachloroethane	BQL	11.6	1.84	1	8/3/2007	
Indeno(1,2,3-c,d)pyrene	BQL	11.6	5.31	1	8/3/2007	
Isophorone	BQL	11.6	1.48	1	8/3/2007	
Naphthalene	BQL	11.6	1.26	1	8/3/2007	
Nitrobenzene	BQL	11.6	1.53	1	8/3/2007	
2-Nitrophenol	BQL	11.6	4.09	1	8/3/2007	
4-Nitrophenol	BQL	58.1	3.69	1	8/3/2007	
N-Nitrosodi-n-propylamine	BQL	11.6	2.17	1	8/3/2007	
Pentachlorophenol	BQL	58.1	3.29	1	8/3/2007	
Phenanthrene	BQL	11.6	1.60	1	8/3/2007	

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTLCH4015-MW11
Client Project ID: NV019
Lab Sample ID: G650-118-24H
Lab Project ID: G650-118

Analyzed By: EAW
Date Collected: 7/25/2007 13:36
Date Received: 7/26/2007
Date Extracted: 8/1/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Phenol	BQL	11.6	3.93	1	8/3/2007	
Pyrene	BQL	11.6	2.42	1	8/3/2007	
1,2,4-Trichlorobenzene	BQL	11.6	1.55	1	8/3/2007	
2,4,6-Trichlorophenol	BQL	11.6	3.40	1	8/3/2007	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	6.8	68		
2-Fluorophenol		10	6.6	66		
Nitrobenzene-d5		10	7.1	71		
Phenol-d6		10	7	70		
2,4,6-Tribromophenol		10	8.4	84		
4-Terphenyl-d14		10	8.5	85		

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: USTLCH4015-MW11
Client Project ID: NV019
Lab Sample ID: G650-118-24H
Lab Project ID: G650-118
Sample Wt/Vol: 430 ML
Dilution: 1

Analyzed By: EAW
Date Collected: 7/25/2007 13:36
Date Received: 7/26/2007
Date Extracted: 8/1/2007
Date Analyzed: 8/3/2007
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Unknown	12.39			15.2
2	Unknown	12.28			13.9
3	Aromatic, Unknown	11.30			13.8
4	Unknown	11.79			13
5	Unknown	10.29			12.4
6	Unknown	8.53			8.13
7	Unknown	12.92			7.88
8	Unknown	10.15			7.88
9	Alkane, Unknown	7.70			7.8
10	Unknown	11.56			7.12

Comment:

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

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

Reviewed by: 

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTLCH4015-DUPLICATE
Client Project ID: NV019
Lab Sample ID: G650-118-25H
Lab Project ID: G650-118

Analyzed By: EAW
Date Collected: 7/24/2007 0:00
Date Received: 7/26/2007
Date Extracted: 7/27/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	8/1/2007	
Acenaphthylene	BQL	10.0	1.12	1	8/1/2007	
Anthracene	BQL	10.0	1.75	1	8/1/2007	
Benzo[a]anthracene	BQL	10.0	1.36	1	8/1/2007	
Benzo[a]pyrene	BQL	10.0	1.27	1	8/1/2007	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	8/1/2007	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	8/1/2007	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	8/1/2007	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	8/1/2007	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	8/1/2007	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	8/1/2007	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	8/1/2007	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	8/1/2007	
Butylbenzylphthalate	BQL	10.0	1.53	1	8/1/2007	
2-Chloronaphthalene	BQL	10.0	1.25	1	8/1/2007	
2-Chlorophenol	BQL	10.0	4.22	1	8/1/2007	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	8/1/2007	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	8/1/2007	
Chrysene	BQL	10.0	1.11	1	8/1/2007	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	8/1/2007	
Di-n-Butylphthalate	BQL	10.0	1.65	1	8/1/2007	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	8/1/2007	
2,4-Dichlorophenol	BQL	10.0	3.75	1	8/1/2007	
Diethylphthalate	BQL	10.0	1.48	1	8/1/2007	
Dimethylphthalate	BQL	10.0	1.04	1	8/1/2007	
2,4-Dimethylphenol	BQL	10.0	9.25	1	8/1/2007	
Di-n-octylphthalate	BQL	10.0	1.16	1	8/1/2007	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	8/1/2007	
2,4-Dinitrophenol	BQL	50.0	4.20	1	8/1/2007	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	8/1/2007	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	8/1/2007	
Diphenylamine *	BQL	10.0	1.53	1	8/1/2007	
Fluoranthene	BQL	10.0	1.41	1	8/1/2007	
Fluorene	BQL	10.0	1.22	1	8/1/2007	
Hexachlorobenzene	BQL	10.0	1.22	1	8/1/2007	
Hexachlorobutadiene	BQL	10.0	1.58	1	8/1/2007	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	8/1/2007	
Hexachloroethane	BQL	10.0	1.58	1	8/1/2007	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	8/1/2007	
Isophorone	BQL	10.0	1.27	1	8/1/2007	
Naphthalene	1.20	10.0	1.08	1	8/1/2007	J
Nitrobenzene	BQL	10.0	1.32	1	8/1/2007	
2-Nitrophenol	BQL	10.0	3.52	1	8/1/2007	
4-Nitrophenol	BQL	50.0	3.17	1	8/1/2007	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	8/1/2007	
Pentachlorophenol	BQL	50.0	2.83	1	8/1/2007	
Phenanthrene	BQL	10.0	1.38	1	8/1/2007	

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTLCH4015-DUPLICATE
Client Project ID: NV019
Lab Sample ID: G650-118-25H
Lab Project ID: G650-118

Analyzed By: EAW
Date Collected: 7/24/2007 0:00
Date Received: 7/26/2007
Date Extracted: 7/27/2007
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Phenol	BQL	10.0	3.38	1	8/1/2007	
Pyrene	BQL	10.0	2.08	1	8/1/2007	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	8/1/2007	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	8/1/2007	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	3	30 #		
2-Fluorophenol		10	2.7	27 #		
Nitrobenzene-d5		10	3	30 #		
Phenol-d6		10	2.9	29 #		
2,4,6-Tribromophenol		10	3.1	31		
4-Terphenyl-d14		10	2.9	29		

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.
Sample was re-extracted due to low surrogate recoveries.

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: USTLCH4015-DUPLICATE
Client Project ID: NV019
Lab Sample ID: G650-118-25H
Lab Project ID: G650-118
Sample Wt/Vol: 500 ML
Dilution: 1

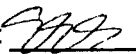
Analyzed By: EAW
Date Collected: 7/24/2007 0:00
Date Received: 7/26/2007
Date Extracted: 7/27/2007
Date Analyzed: 8/1/2007
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Unknown	12.38			12.6
2	Unknown	6.29			8.9
3	Unknown	7.52			8.36
4	1,2,4-Trimethylbenzene	6.88	000095-36-3	93	8.05
5	Alcohol, Unknown	5.69			7.54
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: USTLCH4015-DUPLICATE

Client Project ID: NV019

Lab Sample ID: G650-118-251

Lab Project ID: G650-118

Analyzed By: EAW

Date Collected: 7/24/2007 0:00

Date Received: 7/26/2007

Date Extracted: 8/1/2007

Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	11.6	1.42	1	8/3/2007	
Acenaphthylene	BQL	11.6	1.30	1	8/3/2007	
Anthracene	BQL	11.6	2.03	1	8/3/2007	
Benzo[a]anthracene	BQL	11.6	1.58	1	8/3/2007	
Benzo[a]pyrene	BQL	11.6	1.48	1	8/3/2007	
Benzo[b]fluoranthene	BQL	11.6	1.66	1	8/3/2007	
Benzo[g,h,i]perylene	BQL	11.6	5.31	1	8/3/2007	
Benzo[k]fluoranthene	BQL	11.6	1.27	1	8/3/2007	
Bis(2-chloroethoxy)methane	BQL	11.6	1.29	1	8/3/2007	
Bis(2-chloroethyl)ether	BQL	11.6	1.27	1	8/3/2007	
Bis(2-chloroisopropyl)ether	BQL	11.6	1.83	1	8/3/2007	
Bis(2-ethylhexyl)phthalate	BQL	11.6	1.55	1	8/3/2007	
4-bromophenyl phenyl ether	BQL	11.6	2.31	1	8/3/2007	
Butylbenzylphthalate	BQL	11.6	1.78	1	8/3/2007	
2-Chloronaphthalene	BQL	11.6	1.45	1	8/3/2007	
2-Chlorophenol	BQL	11.6	4.91	1	8/3/2007	
4-Chloro-3-methylphenol	BQL	11.6	3.79	1	8/3/2007	
4-Chlorophenyl phenyl ether	BQL	11.6	1.65	1	8/3/2007	
Chrysene	BQL	11.6	1.29	1	8/3/2007	
Dibenzo[a,h]anthracene	BQL	11.6	5.66	1	8/3/2007	
Di-n-Butylphthalate	BQL	11.6	1.92	1	8/3/2007	
3,3'-Dichlorobenzidine	BQL	23.3	4.77	1	8/3/2007	
2,4-Dichlorophenol	BQL	11.6	4.36	1	8/3/2007	
Diethylphthalate	BQL	11.6	1.72	1	8/3/2007	
Dimethylphthalate	BQL	11.6	1.21	1	8/3/2007	
2,4-Dimethylphenol	BQL	11.6	10.8	1	8/3/2007	
Di-n-octylphthalate	BQL	11.6	1.35	1	8/3/2007	
4,6-Dinitro-2-methylphenol	BQL	58.1	4.31	1	8/3/2007	
2,4-Dinitrophenol	BQL	58.1	4.88	1	8/3/2007	
2,4-Dinitrotoluene	BQL	11.6	1.77	1	8/3/2007	
2,6-Dinitrotoluene	BQL	11.6	1.64	1	8/3/2007	
Diphenylamine *	BQL	11.6	1.78	1	8/3/2007	
Fluoranthene	BQL	11.6	1.64	1	8/3/2007	
Fluorene	BQL	11.6	1.42	1	8/3/2007	
Hexachlorobenzene	BQL	11.6	1.42	1	8/3/2007	
Hexachlorobutadiene	BQL	11.6	1.84	1	8/3/2007	
Hexachlorocyclopentadiene	BQL	23.3	23.3	1	8/3/2007	
Hexachloroethane	BQL	11.6	1.84	1	8/3/2007	
Indeno(1,2,3-c,d)pyrene	BQL	11.6	5.31	1	8/3/2007	
Isophorone	BQL	11.6	1.48	1	8/3/2007	
Naphthalene	BQL	11.6	1.26	1	8/3/2007	
Nitrobenzene	BQL	11.6	1.53	1	8/3/2007	
2-Nitrophenol	BQL	11.6	4.09	1	8/3/2007	
4-Nitrophenol	BQL	58.1	3.69	1	8/3/2007	
N-Nitrosodi-n-propylamine	BQL	11.6	2.17	1	8/3/2007	
Pentachlorophenol	BQL	58.1	3.29	1	8/3/2007	
Phenanthrene	BQL	11.6	1.60	1	8/3/2007	

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTLCH4015-DUPLICATE
Client Project ID: NV019
Lab Sample ID: G650-118-25I
Lab Project ID: G650-118

Analyzed By: EAW
Date Collected: 7/24/2007 0:00
Date Received: 7/26/2007
Date Extracted: 8/1/2007
Matrix: Water

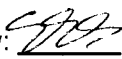
Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Phenol	BQL	11.6	3.93	1	8/3/2007	
Pyrene	BQL	11.6	2.42	1	8/3/2007	
1,2,4-Trichlorobenzene	BQL	11.6	1.55	1	8/3/2007	
2,4,6-Trichlorophenol	BQL	11.6	3.40	1	8/3/2007	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	6.2	62		
2-Fluorophenol		10	6.1	61		
Nitrobenzene-d5		10	6.5	65		
Phenol-d6		10	6.3	63		
2,4,6-Tribromophenol		10	7.7	77		
4-Terphenyl-d14		10	8.8	88		

Comments:

* N-Nitrosodiphenylamine is reported as the breakdown product Diphenylamine.
Sample was re-extracted out of hold.

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: USTLCH4015-DUPLICATE
Client Project ID: NV019
Lab Sample ID: G650-118-25I
Lab Project ID: G650-118
Sample Wt/Vol: 430 ML
Dilution: 1

Analyzed By: EAW
Date Collected: 7/24/2007 0:00
Date Received: 7/26/2007
Date Extracted: 8/1/2007
Date Analyzed: 8/3/2007
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Unknown	12.27			12.2
2	Unknown	7.41			11.8
3	Cyclohexanol, 1-methyl-	5.59	000590-67-0	91	7.83
4	Cyclohexane, 1,2-dichloro-, trans-	7.70	000822-86-6	90	7.68
5	Unknown	6.80			5.47
6	Alcohol, Unknown	5.14			4.92
7	Unknown	6.18			4.13
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: PB8744
Lab Project ID:

Analyzed By: EAW
Date Collected:
Date Received:
Date Extracted: 7/27/2007
Matrix: WATER

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	7/31/2007	
Acenaphthylene	BQL	10.0	1.12	1	7/31/2007	
Anthracene	BQL	10.0	1.75	1	7/31/2007	
Benzo[a]anthracene	BQL	10.0	1.36	1	7/31/2007	
Benzo[a]pyrene	BQL	10.0	1.27	1	7/31/2007	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	7/31/2007	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	7/31/2007	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	7/31/2007	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	7/31/2007	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	7/31/2007	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	7/31/2007	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	7/31/2007	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	7/31/2007	
Butylbenzylphthalate	BQL	10.0	1.53	1	7/31/2007	
2-Chloronaphthalene	BQL	10.0	1.25	1	7/31/2007	
2-Chlorophenol	BQL	10.0	4.22	1	7/31/2007	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	7/31/2007	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	7/31/2007	
Chrysene	BQL	10.0	1.11	1	7/31/2007	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	7/31/2007	
Di-n-Butylphthalate	BQL	10.0	1.65	1	7/31/2007	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	7/31/2007	
2,4-Dichlorophenol	BQL	10.0	3.75	1	7/31/2007	
Diethylphthalate	BQL	10.0	1.48	1	7/31/2007	
Dimethylphthalate	BQL	10.0	1.04	1	7/31/2007	
2,4-Dimethylphenol	BQL	10.0	9.25	1	7/31/2007	
Di-n-octylphthalate	BQL	10.0	1.16	1	7/31/2007	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	7/31/2007	
2,4-Dinitrophenol	BQL	50.0	4.20	1	7/31/2007	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	7/31/2007	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	7/31/2007	
Diphenylamine *	BQL	10.0	1.53	1	7/31/2007	
Fluoranthene	BQL	10.0	1.41	1	7/31/2007	
Fluorene	BQL	10.0	1.22	1	7/31/2007	
Hexachlorobenzene	BQL	10.0	1.22	1	7/31/2007	
Hexachlorobutadiene	BQL	10.0	1.58	1	7/31/2007	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	7/31/2007	
Hexachloroethane	BQL	10.0	1.58	1	7/31/2007	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	7/31/2007	
Isophorone	BQL	10.0	1.27	1	7/31/2007	
Naphthalene	BQL	10.0	1.08	1	7/31/2007	
Nitrobenzene	BQL	10.0	1.32	1	7/31/2007	
2-Nitrophenol	BQL	10.0	3.52	1	7/31/2007	
4-Nitrophenol	BQL	50.0	3.17	1	7/31/2007	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	7/31/2007	
Pentachlorophenol	BQL	50.0	2.83	1	7/31/2007	
Phenanthrene	BQL	10.0	1.38	1	7/31/2007	

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID: PB8744
Lab Project ID:

Analyzed By: EAW
Date Collected:
Date Received:
Date Extracted: 7/27/2007
Matrix: WATER

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Phenol	BQL	10.0	3.38	1	7/31/2007	
Pyrene	BQL	10.0	2.08	1	7/31/2007	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	7/31/2007	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	7/31/2007	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	7.3	73		
2-Fluorophenol		10	6.6	66		
Nitrobenzene-d5		10	7.1	71		
Phenol-d6		10	7.1	71		
2,4,6-Tribromophenol		10	6.6	66		
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 For Matrix Spike / Matrix Spike Duplicate and Laboratory Control Standard (MS/MSD/LCS)
by GCMS

Client Sample ID: Batch QC

Date Collected:

Client Project ID:

Date Received:

Lab Sample ID: Batch-8744-MS/MSD/LCS

Date Extracted: 07/27/07

Lab Project ID: G650-118-9G

Date Analyzed: 07/31/07

Matrix: WATER

Analyzed By: EAW

Prep Method: 3520

Dilution: 1

	Sample Amount (µg/L)	MS Spike (µg/L)	MS Conc. (µg/L)	MS Spike % Rec.	MSD Spike (µg/L)	MSD Conc. (µg/L)	MSD Conc. % Rec.	RPD	QC Limits	
									RPD	% Rec.
Acenaphthylene	BQL	238	260	109	238	255	107.0	2.31	30	62.0-119
4-Chloro-3-methylphenol	BQL	238	212	88.9	238	205	86.2	3.08	30	67.0-109
2-Chlorophenol	BQL	238	194	81.4	238	176	74.0	9.52	30	59.0-95.0
1,4-Dichlorobenzene	BQL	238	204	85.8	238	181	76.1	12.0	30	29.0-86.0
2,4-Dinitrotoluene	BQL	238	245	103	238	243	102.0	0.683	30	63.0-103
N-Nitrosodi-n-propylamine	13.7	238	249	105	238	230	96.5	8.15	30	67.0-107
4-Nitrophenol	15.3	238	170	71.6	238	168	70.4	1.69	30	49.0-146
Pentachlorophenol	BQL	238	192	80.6	238	192	80.7	0.124	30	43.0-106
Phenol	BQL	238	199	83.7	238	184	77.2	8.08	30	61.0-100
Pyrene	BQL	238	249	104	238	241	101.0	3.11	30	41.0-123
1,2,4-Trichlorobenzene	BQL	238	232	97.6*	238	214	89.7	8.44	30	41.0-96.0

	Spiked Amount (µg/L)	LCS Conc. (µg/L)	LCS Spike %	QC Limits
				% Rec.
Acenaphthylene	100	110	110	52.1-145
4-Chloro-3-methylphenol	100	87.5	87.5	51.1-135
2-Chlorophenol	100	80.4	80.4	43.7-128
1,4-Dichlorobenzene	100	90.3	90.3	30.0-110
2,4-Dinitrotoluene	100	104	104	56.3-144
N-Nitrosodi-n-propylamine	100	110	110	55.9-143
4-Nitrophenol	100	79.4	79.4	47.8-148
Pentachlorophenol	100	79.9	79.9	43.9-118
Phenol	100	82.6	82.6	48.0-124
Pyrene	100	104	104	29.9-185
1,2,4-Trichlorobenzene	100	98.7	98.7	43.9-122

Comments:

Concentrations reflect the spiked sample amounts.

Flags:

* = Out of limits.

NA = Not applicable.

Reviewed By:

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID: PB8745
Lab Project ID:

Analyzed By: EAW
Date Collected:
Date Received:
Date Extracted: 7/27/2007
Matrix: WATER

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	7/30/2007	
Acenaphthylene	BQL	10.0	1.12	1	7/30/2007	
Anthracene	BQL	10.0	1.75	1	7/30/2007	
Benzo[a]anthracene	BQL	10.0	1.36	1	7/30/2007	
Benzo[a]pyrene	BQL	10.0	1.27	1	7/30/2007	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	7/30/2007	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	7/30/2007	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	7/30/2007	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	7/30/2007	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	7/30/2007	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	7/30/2007	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	7/30/2007	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	7/30/2007	
Butylbenzylphthalate	BQL	10.0	1.53	1	7/30/2007	
2-Chloronaphthalene	BQL	10.0	1.25	1	7/30/2007	
2-Chlorophenol	BQL	10.0	4.22	1	7/30/2007	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	7/30/2007	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	7/30/2007	
Chrysene	BQL	10.0	1.11	1	7/30/2007	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	7/30/2007	
Di-n-Butylphthalate	BQL	10.0	1.65	1	7/30/2007	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	7/30/2007	
2,4-Dichlorophenol	BQL	10.0	3.75	1	7/30/2007	
Diethylphthalate	BQL	10.0	1.48	1	7/30/2007	
Dimethylphthalate	BQL	10.0	1.04	1	7/30/2007	
2,4-Dimethylphenol	BQL	10.0	9.25	1	7/30/2007	
Di-n-octylphthalate	BQL	10.0	1.16	1	7/30/2007	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	7/30/2007	
2,4-Dinitrophenol	BQL	50.0	4.20	1	7/30/2007	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	7/30/2007	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	7/30/2007	
Diphenylamine *	BQL	10.0	1.53	1	7/30/2007	
Fluoranthene	BQL	10.0	1.41	1	7/30/2007	
Fluorene	BQL	10.0	1.22	1	7/30/2007	
Hexachlorobenzene	BQL	10.0	1.22	1	7/30/2007	
Hexachlorobutadiene	BQL	10.0	1.58	1	7/30/2007	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	7/30/2007	
Hexachloroethane	BQL	10.0	1.58	1	7/30/2007	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	7/30/2007	
Isophorone	BQL	10.0	1.27	1	7/30/2007	
Naphthalene	BQL	10.0	1.08	1	7/30/2007	
Nitrobenzene	BQL	10.0	1.32	1	7/30/2007	
2-Nitrophenol	BQL	10.0	3.52	1	7/30/2007	
4-Nitrophenol	BQL	50.0	3.17	1	7/30/2007	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	7/30/2007	
Pentachlorophenol	BQL	50.0	2.83	1	7/30/2007	
Phenanthrene	BQL	10.0	1.38	1	7/30/2007	

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID: PB8745
Lab Project ID:

Analyzed By: EAW
Date Collected:
Date Received:
Date Extracted: 7/27/2007
Matrix: WATER

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Phenol	BQL	10.0	3.38	1	7/30/2007	
Pyrene	BQL	10.0	2.08	1	7/30/2007	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	7/30/2007	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	7/30/2007	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	6.2	62		
2-Fluorophenol		10	5.6	56		
Nitrobenzene-d5		10	6.2	62		
Phenol-d6		10	5.9	59		
2,4,6-Tribromophenol		10	5.8	58		
4-Terphenyl-d14		10	7.4	74		

Comments:

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

Flags:

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By: 



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

Client Sample ID: Batch QC

Date Collected:

Client Project ID:

Date Received:

Lab Sample ID: Batch-8745-MS/MSD/LCS

Date Extracted: 07/27/07

Lab Project ID: G650-118-22G

Date Analyzed: 07/31/07

Matrix: WATER

Analyzed By: EAW

Prep Method: 3520

Dilution: 1

	Sample Amount (µg/L)	MS Spike (µg/L)	MS Conc. (µg/L)	MS Spike % Rec.	MSD Spike (µg/L)	MSD Conc. (µg/L)	MSD Conc. % Rec.	RPD	QC Limits	
									RPD	% Rec.
Acenaphthylene	BQL	250	281	112	250	271	108.0	3.63	30	62.0-119
4-Chloro-3-methylphenol	BQL	250	229	91.6	250	222	89.0	2.88	30	67.0-109
2-Chlorophenol	BQL	250	189	75.6	250	185	73.9	2.27	30	59.0-95.0
1,4-Dichlorobenzene	BQL	250	194	77.8	250	202	80.6	3.54	30	29.0-86.0
2,4-Dinitrotoluene	BQL	250	265	106*	250	260	104*	2.10	30	63.0-103
N-Nitrosodi-n-propylamine	BQL	250	268	107*	250	259	104.0	3.32	30	67.0-107
4-Nitrophenol	BQL	250	193	77.3	250	193	77.4	0.129	30	49.0-146
Pentachlorophenol	BQL	250	203	81.1	250	209	83.6	3.04	30	43.0-106
Phenol	BQL	250	196	78.4	250	194	77.5	1.15	30	61.0-100
Pyrene	BQL	250	263	105	250	252	101.0	3.98	30	41.0-123
1,2,4-Trichlorobenzene	BQL	250	235	94.0	250	231	92.5	1.61	30	41.0-96.0

	Spiked Amount (µg/L)	LCS Conc. (µg/L)	LCS Spike %	QC Limits
				% Rec.
Acenaphthylene	100	110	110	52.1-145
4-Chloro-3-methylphenol	100	89.6	89.6	51.1-135
2-Chlorophenol	100	78.4	78.4	43.7-128
1,4-Dichlorobenzene	100	93.3	93.3	30.0-110
2,4-Dinitrotoluene	100	104	104	56.3-144
N-Nitrosodi-n-propylamine	100	108	108	55.9-143
4-Nitrophenol	100	73.4	73.4	47.8-148
Pentachlorophenol	100	78.2	78.2	43.9-118
Phenol	100	79.2	79.2	48.0-124
Pyrene	100	103	103	29.9-185
1,2,4-Trichlorobenzene	100	99.3	99.3	43.9-122

Comments:

Concentrations reflect the spiked sample amounts.

Flags:

* = Out of limits.

NA = Not applicable.

Reviewed By:

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID: PB8768
Lab Project ID:

Analyzed By: EAW
Date Collected:
Date Received:
Date Extracted: 8/1/2007
Matrix: WATER

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

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID: PB8768
Lab Project ID:

Analyzed By: EAW
Date Collected:
Date Received:
Date Extracted: 8/1/2007
Matrix: WATER

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Phenol	BQL	10.0	3.38	1	8/6/2007	
Pyrene	BQL	10.0	2.08	1	8/6/2007	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	8/6/2007	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	8/6/2007	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	7.1	71		
2-Fluorophenol		10	6.3	63		
Nitrobenzene-d5		10	7.3	73		
Phenol-d6		10	6.8	68		
2,4,6-Tribromophenol		10	6.5	65		
4-Terphenyl-d14		10	10.2	102		

Comments:

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

Flags:

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

Reviewed By: 



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

Client Sample ID: Batch QC

Date Collected:

Client Project ID:

Date Received:

Lab Sample ID: Batch-8768-MS/MSD/LCS

Date Extracted: 08/01/07

Lab Project ID: G898-8-34B

Date Analyzed: 08/06/07

Matrix: WATER

Analyzed By: EAW

Prep Method: 3520

Dilution: 1

	Sample Amount (µg/L)	MS Spike (µg/L)	MS Conc. (µg/L)	MS Spike % Rec.	MSD Spike (µg/L)	MSD Conc. (µg/L)	MSD Conc. % Rec.	RPD	QC Limits	
									RPD	% Rec.
Acenaphthylene	BQL	233	202	86.7	233	211	90.6	4.40	30	62.0-119
4-Chloro-3-methylphenol	BQL	233	194	83.6	233	193	82.8	0.962	30	67.0-109
2-Chlorophenol	BQL	233	171	73.7	233	180	77.5	5.03	30	59.0-95.0
1,4-Dichlorobenzene	BQL	233	134	57.5	233	178	76.5	28.4	30	29.0-86.0
2,4-Dinitrotoluene	BQL	233	192	82.5	233	197	84.8	2.75	30	63.0-103
N-Nitrosodi-n-propylamine	BQL	233	197	84.5	233	210	90.5	6.86	30	67.0-107
4-Nitrophenol	BQL	233	173	74.2	233	161	69.4	6.69	30	49.0-146
Pentachlorophenol	BQL	233	186	80.0	233	192	82.4	2.96	30	43.0-106
Phenol	BQL	233	181	77.9	233	189	81.2	4.15	30	61.0-100
Pyrene	BQL	233	243	105	233	239	103.0	1.83	30	41.0-123
1,2,4-Trichlorobenzene	BQL	233	170	72.9	233	192	82.4	12.2	30	41.0-96.0

	Spiked Amount (µg/L)	LCS Conc. (µg/L)	LCS Spike %	QC Limits
				% Rec.
Acenaphthylene	100	95.1	95.1	52.1-145
4-Chloro-3-methylphenol	100	90.7	90.7	51.1-135
2-Chlorophenol	100	78.4	78.4	43.7-128
1,4-Dichlorobenzene	100	86.6	86.6	30.0-110
2,4-Dinitrotoluene	100	90.7	90.7	56.3-144
N-Nitrosodi-n-propylamine	100	93.4	93.4	55.9-143
4-Nitrophenol	100	76.4	76.4	47.8-148
Pentachlorophenol	100	80.3	80.3	43.9-118
Phenol	100	79.1	79.1	48.0-124
Pyrene	100	106	106	29.9-185
1,2,4-Trichlorobenzene	100	88.9	88.9	43.9-122

Comments:

Concentrations reflect the spiked sample amounts.

Flags:

* = Out of limits.

NA = Not applicable.

Reviewed By:



Results for Metals

Client Sample ID: USTLCH4015-MW14
Client Project ID: NV019
Lab Sample ID: G650-118-1
Lab Project ID: G650-118
Batch ID: 8736

Analyzed By: AEC
Date Collected: 7/23/2007 15:59
Date Received: 7/26/2007
Matrix: WATER

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Lead	0.775	5.00	0.278	25	UG/L	6020	7/27/2007	J

Comments

BQL = Below Quantitation Limits

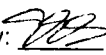
DF = Dilution Factor

J = Between MDL and RL

B= Amount in Prep Blank > MDL

Samples Prepared by 3030C

3030c digestion performed outside of the 72 hour holding time

Reviewed By: 
MET_4.2



Results for Metals

Client Sample ID: USTLCH4015-MW14
Client Project ID: NV019
Lab Sample ID: G650-118-1
Lab Project ID: G650-118
Batch ID:

Analyzed By: AEC
Date Collected: 7/23/2007 15:59
Date Received: 7/26/2007
Matrix: WATER

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Lead	0.775	5.00	0.278	25	UG/L	6020	7/27/2007	J

Comments

BQL = Below Quantitation Limits

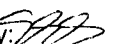
DF = Dilution Factor

J = Between MDL and RL

B= Amount in Prep Blank > MDL

Samples Prepared by 3030C

3030c digestion performed outside of the 72 hour holding time

Reviewed By: 
MET_4.2



Results for Metals

Client Sample ID: USTLCH4015-MW13
Client Project ID: NV019
Lab Sample ID: G650-118-3
Lab Project ID: G650-118
Batch ID: 8736

Analyzed By: AEC
Date Collected: 7/23/2007 16:38
Date Received: 7/26/2007
Matrix: WATER

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Lead	BQL	5.00	0.278	25	UG/L	6020	7/27/2007	

Comments

BQL = Below Quantitation Limits

DF = Dilution Factor

J = Between MDL and RL

B= Amount in Prep Blank > MDL

Samples Prepared by 3030C

3030c digestion performed outside of the 72 hour holding time

Reviewed By: 
MET_4.2



Results for Metals

Client Sample ID: USTLCH4015-MW21
Client Project ID: NV019
Lab Sample ID: G650-118-5
Lab Project ID: G650-118
Batch ID: 8736

Analyzed By: AEC
Date Collected: 7/24/07 9:32
Date Received: 7/26/07
Matrix: WATER

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Lead	BQL	5.00	0.278	25	UG/L	6020	7/27/07	

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_4.2



Results for Metals

Client Sample ID: USTLCH4015-MW19
Client Project ID: NV019
Lab Sample ID: G650-118-6
Lab Project ID: G650-118
Batch ID: 8736

Analyzed By: AEC
Date Collected: 7/24/07 10:04
Date Received: 7/26/07
Matrix: WATER

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Lead	BQL	5.00	0.278	25	UG/L	6020	7/27/07	

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_4.2



Results for Metals

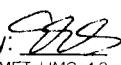
Client Sample ID: USTLCH4015-MW18
Client Project ID: NV019
Lab Sample ID: G650-118-7
Lab Project ID: G650-118
Batch ID: 8736

Analyzed By: AEC
Date Collected: 7/24/07 10:25
Date Received: 7/26/07
Matrix: WATER

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Lead	BQL	5.00	0.278	25	UG/L	6020	7/27/07	

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_4.2

**Results for Metals**

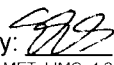
Client Sample ID: USTLCH4015-MW22
Client Project ID: NV019
Lab Sample ID: G650-118-8
Lab Project ID: G650-118
Batch ID: 8736

Analyzed By: AEC
Date Collected: 7/24/07 11:24
Date Received: 7/26/07
Matrix: WATER

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Lead	BQL	5.00	0.278	25	UG/L	6020	7/27/07	

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_4.2



Results for Metals

Client Sample ID: USTLCH4015-MW20
Client Project ID: NV019
Lab Sample ID: G650-118-9
Lab Project ID: G650-118
Batch ID: 8736

Analyzed By: AEC
Date Collected: 7/24/07 12:12
Date Received: 7/26/07
Matrix: WATER

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Lead	BQL	5.00	0.278	25	UG/L	6020	7/27/07	

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_4.2



Results for Metals

Client Sample ID: USTLCH4015-MW02
Client Project ID: NV019
Lab Sample ID: G650-118-10
Lab Project ID: G650-118
Batch ID: 8736

Analyzed By: AEC
Date Collected: 7/24/2007 12:39
Date Received: 7/26/2007
Matrix: WATER

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Lead	BQL	5.00	0.278	25	UG/L	6020	7/27/2007	

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_4.2

**Results for Metals**

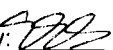
Client Sample ID: USTLCH4015-MW23
Client Project ID: NV019
Lab Sample ID: G650-118-11
Lab Project ID: G650-118
Batch ID: 8736

Analyzed By: AEC
Date Collected: 7/24/2007 16:36
Date Received: 7/26/2007
Matrix: WATER

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Lead	BQL	5.00	0.278	25	UG/L	6020	7/27/2007	

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_4.2



Results for Metals

Client Sample ID: USTLCH4015-MW01
Client Project ID: NV019
Lab Sample ID: G650-118-12
Lab Project ID: G650-118
Batch ID: 8736

Analyzed By: AEC
Date Collected: 7/24/07 17:12
Date Received: 7/26/07
Matrix: WATER

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Lead	BQL	5.00	0.278	25	UG/L	6020	7/27/07	

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_4.2



Results for Metals

Client Sample ID: USTLCH4015-MW07
Client Project ID: NV019
Lab Sample ID: G650-118-13
Lab Project ID: G650-118
Batch ID: 8736

Analyzed By: AEC
Date Collected: 7/24/07 17:57
Date Received: 7/26/07
Matrix: WATER

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Lead	BQL	5.00	0.278	25	UG/L	6020	7/27/07	

Comments

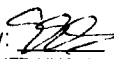
BQL = Below Quantitation Limits

DF = Dilution Factor

J = Between MDL and RL

B= Amount in Prep Blank > MDL

Samples Prepared by 3030C

Reviewed By: 

MET_LIMS_4.2



Results for Metals

Client Sample ID: USTLCH4015-MW16
Client Project ID: NV019
Lab Sample ID: G650-118-14
Lab Project ID: G650-118
Batch ID: 8736

Analyzed By: AEC
Date Collected: 7/24/07 18:22
Date Received: 7/26/07
Matrix: WATER

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Lead	BQL	5.00	0.278	25	UG/L	6020	7/27/07	

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_4.2

**Results for Metals**

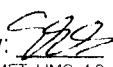
Client Sample ID: USTLCH4015-MW15
Client Project ID: NV019
Lab Sample ID: G650-118-15
Lab Project ID: G650-118
Batch ID: 8736

Analyzed By: AEC
Date Collected: 7/24/07 19:01
Date Received: 7/26/07
Matrix: WATER

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Lead	BQL	5.00	0.278	25	UG/L	6020	7/27/07	

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_4.2

**Results for Metals**

Client Sample ID: USTLCH4015-MW08
Client Project ID: NV019
Lab Sample ID: G650-118-16
Lab Project ID: G650-118
Batch ID: 8736

Analyzed By: AEC
Date Collected: 7/25/07 9:17
Date Received: 7/26/07
Matrix: WATER

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Lead	BQL	5.00	0.278	25	UG/L	6020	7/27/07	

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_4.2

**Results for Metals**

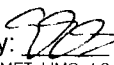
Client Sample ID: USTLCH4015-MW04
Client Project ID: NV019
Lab Sample ID: G650-118-17
Lab Project ID: G650-118
Batch ID: 8736

Analyzed By: AEC
Date Collected: 7/25/07 9:39
Date Received: 7/26/07
Matrix: WATER

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Lead	BQL	5.00	0.278	25	UG/L	6020	7/27/07	

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_4.2

**Results for Metals**

Client Sample ID: USTLCH4015-MW05
Client Project ID: NV019
Lab Sample ID: G650-118-18
Lab Project ID: G650-118
Batch ID: 8736

Analyzed By: AEC
Date Collected: 7/25/07 10:47
Date Received: 7/26/07
Matrix: WATER

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Lead	BQL	5.00	0.278	25	UG/L	6020	7/27/07	

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_4.2



Results for Metals

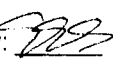
Client Sample ID: USTLCH4015-MW03
Client Project ID: NV019
Lab Sample ID: G650-118-19
Lab Project ID: G650-118
Batch ID: 8736

Analyzed By: AEC
Date Collected: 7/25/07 11:17
Date Received: 7/26/07
Matrix: WATER

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Lead	BQL	5.00	0.278	25	UG/L	6020	7/27/07	

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_4.2

**Results for Metals**

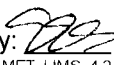
Client Sample ID: USTLCH4015-MW09
Client Project ID: NV019
Lab Sample ID: G650-118-20
Lab Project ID: G650-118
Batch ID: 8736

Analyzed By: AEC
Date Collected: 7/25/07 11:40
Date Received: 7/26/07
Matrix: WATER

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Lead	BQL	5.00	0.278	25	UG/L	6020	7/27/07	

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_4.2

**Results for Metals**

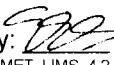
Client Sample ID: USTLCH4015-MW24
Client Project ID: NV019
Lab Sample ID: G650-118-21
Lab Project ID: G650-118
Batch ID: 8738

Analyzed By: AEC
Date Collected: 7/25/07 12:07
Date Received: 7/26/07
Matrix: WATER

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Lead	BQL	5.00	0.278	25	UG/L	6020	7/31/07	

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_4.2

**Results for Metals**

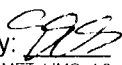
Client Sample ID: USTLCH4015-MW10
Client Project ID: NV019
Lab Sample ID: G650-118-22
Lab Project ID: G650-118
Batch ID: 8738

Analyzed By: AEC
Date Collected: 7/25/07 12:36
Date Received: 7/26/07
Matrix: WATER

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Lead	BQL	5.00	0.278	25	UG/L	6020	7/31/07	

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_4.2

**Results for Metals**

Client Sample ID: USTLCH4015-MW06
Client Project ID: NV019
Lab Sample ID: G650-118-23
Lab Project ID: G650-118
Batch ID: 8738

Analyzed By: AEC
Date Collected: 7/25/07 13:06
Date Received: 7/26/07
Matrix: WATER

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Lead	4.30	5.00	0.278	25	UG/L	6020	7/31/07	J

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_4.2

**Results for Metals**

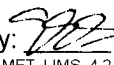
Client Sample ID: USTLCH4015-MW11
Client Project ID: NV019
Lab Sample ID: G650-118-24
Lab Project ID: G650-118
Batch ID: 8738

Analyzed By: AEC
Date Collected: 7/25/07 13:36
Date Received: 7/26/07
Matrix: WATER

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Lead	BQL	5.00	0.278	25	UG/L	6020	7/31/07	

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_4.2



Results for Metals

Client Sample ID: USTLCH4015-DUPLICATE
Client Project ID: NV019
Lab Sample ID: G650-118-25
Lab Project ID: G650-118
Batch ID: 8738

Analyzed By: AEC
Date Collected: 7/24/07 0:00
Date Received: 7/26/07
Matrix: WATER

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Lead	BQL	5.00	0.278	25	UG/L	6020	7/31/07	

Comments

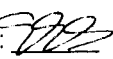
BQL = Below Quantitation Limits

DF = Dilution Factor

J = Between MDL and RL

B= Amount in Prep Blank > MDL

Samples Prepared by 3030C

Reviewed By: 
MET_LIMS_4.2

**Results for Metals**

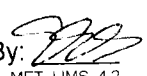
Client Sample ID: Lab Blank
Client Project ID:
Lab Sample ID: pb8736
Lab Project ID:
Batch ID: 8736

Analyzed By: AEC
Date Collected:
Date Received:
Matrix: WATER

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Lead	BQL	5.00	0.278	25	UG/L	6020	7/27/07	

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_4.2



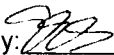
Results for Metals

Client Sample ID: Lab Blank
Client Project ID:
Lab Sample ID: pb8738
Lab Project ID:
Batch ID: 8738

Analyzed By: AEC
Date Collected:
Date Received:
Matrix: WATER

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Lead	BQL	5.00	0.278	25	UG/L	6020	7/31/07	

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_4.2

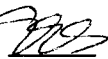


METALS Results for LCS/LCD

ICP Batch: 8736
HG Batch:
Other:

Matrix: WATER
Units: MG/L

						Limit					
Analyte	TRUE Value	LCS	LCS %REC		LCD	LCD %REC	Lower	Upper	RPD		RPD Limit
Lead	0.400	0.382	95.5		0.384	96.0	80	120	0.522		20

Reviewed By: 



METALS Results for LCS/LCD

ICP Batch: 8738
HG Batch:
Other:

Matrix: WATER
Units: MG/L

						Limit				
Analyte	TRUE Value	LCS	LCS %REC		LCD	LCD %REC	Lower	Upper	RPD	RPD Limit
Lead	0.400	0.382	95.5		0.378	94.5	80	120	1.05	20

Reviewed By: 



MS/MSD Results for METALS

Lab ID: G650-118-1
MS Lab ID: G650-118-1
MSD Lab ID: G650-118-1
ICP Batch: 8736
HG Batch:
Other:

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

Analyte	Sample Result	SA MS	MS Result	MS %REC	SA MSD	MSD Result	MSD %REC	Limit		RPD	RPD Limit
								Lower	Upper		
Lead	BQL	0.400	0.387	96.8	0.400	0.386	96.5	75	125	0.259	20

Comments

*=Out of Limits

NA = Not applicable, due to sample concentration greater than three times spike concentration

Reviewed By: 



MS/MSD Results for METALS

Lab ID: G650-118-21
MS Lab ID: G650-118-21
MSD Lab ID: G650-118-21
ICP Batch: 8738
HG Batch:
Other:

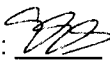
Analyzed By: AEC
Matrix: Water
Units: MG/L

Analyte	Sample Result	SA MS	MS Result	MS %REC	SA MSD	MSD Result	MSD %REC	Limit		RPD	RPD Limit
								Lower	Upper		
Lead	BQL	0.400	0.358	89.5	0.400	0.375	93.8	75	125	4.64	20

Comments

*=Out of Limits

NA = Not applicable, due to sample concentration greater than three times spike concentration

Reviewed By: 



CHAIN OF CUSTODY RECORD
SGS Environmental Services Inc.

Locations Nationwide
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• Ohio
• New Jersey
• West Virginia
• Hawaii
• Maryland
• North Carolina
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1		CLIENT: <u>Sovereign Consulting Inc.</u>		SGS Reference: <u>G650-118</u>		PAGE <u>1</u> OF <u>3</u>	
CONTACT: <u>Kurt Meikle</u>		PHONE NO: <u>(910) 358-0555</u>					
PROJECT: <u>NW019</u>		SITE/PSID#: <u>LCH4015</u>					
REPORTS TO: <u>Chris Murray</u>		E-MAIL: <u>cmurray@sovercon.com</u>					
425 oak meadows crescent suite 1		FAX NO: <u>(910) 358-0595</u>					
14 Beach VA 23902							
INVOICE TO: <u>Same as above</u>		QUOTE #					
P.O. NUMBER <u>NW019</u>							
2		3		4		5	
LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX	No	SAMPLE TYPE	Preservatives Used
1	WSTLCH4015-MW14	7/23/07	1559	GW	5	C	3 1 1
2	WSTLCH4015-Trip blank	7/23/07		TB	2		2
3	WSTLCH4015-MW13	7/23/07	1638	GW	5	C	3 1 1
4	WSTLCH4015-MW12	7/23/07	1722	GW	5	C	3 1 1
5	WSTLCH4015-MW21	7/24/07	0932	GW	5	C	3 1 1
6	WSTLCH4015-MW19	7/24/07	1009	GW	5	C	3 1 1
7	WSTLCH4015-MW18	7/24/07	1025	GW	5	C	3 1 1
8	WSTLCH4015-MW22	7/24/07	1124	GW	5	C	3 1 1
9	WSTLCH4015-MW20	7/24/07	1212	GW	5	C	3 1 1
10	WSTLCH4015-MW02	7/24/07	1239	GW	5	C	3 1 1
Collected/Relinquished By: (1) <u>[Signature]</u>		Date	Time	Received By: <u>[Signature]</u>	Date	Time	Shipping Carrier: <u>555</u>
Relinquished By: (2)		Date	Time	Received By:	Date	Time	Shipping Ticket No:
Relinquished By: (3)		Date	Time	Received By:	Date	Time	Special Deliverable Requirements: <u>ESD Format</u>
Relinquished By: (4)		Date	Time	Received By:	Date	Time	Special Instructions: <u>CHIEF NOTIFIED OF MW14, MW13, MW12 COT FOR 3000 YD. NW ANCHORAGE COT 208 7/27/07</u>
		Date	Time	Received By:	Date	Time	Chain of Custody Seal: (Circle) <u>INTACT</u> <u>BROKEN</u> <u>ABSENT</u>
		Date	Time	Received By:	Date	Time	Requested Turnaround Time: <u>STD</u>



CHAIN OF CUSTODY RECORD
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• Hawaii
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• North Carolina
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0759



1		CLIENT: <u>Sovereign Consulting Inc</u>		SGS Reference:		PAGE <u>3</u> OF <u>3</u>				
CONTACT: <u>Kurt Merkle</u>		PHONE NO: <u>(910) 358-0555</u>								
PROJECT: <u>NU019</u>		SITE/PWSID#: <u>Bldg LCH 4015</u>								
REPORTS TO: <u>Chris Murray</u>		E-MAIL: <u>cmurray@secon.com</u>								
INVOICE TO: <u>same as above</u>		QUOTE #								
P.O. NUMBER <u>NU019</u>										
LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX	No CONTAINERS	SAMPLE TYPE C= COMP G= GRAB	Preservatives Used Analysis Required (3)	HCL	Hardness	REMARKS
21	USTLCH4015-MW124	7/25/07	1207	GW	5	C				
22	USTLCH4015-MW10	7/25/07	1206	GW	5	C				
23	USTLCH4015-MW06	7/25/07	1306	GW	5	C				
24	USTLCH4015-MW11	7/25/07	1336	GW	5	C				
25	USTLCH4015-Duplicate	7/24/07		GW	5	C				
5		Collected/Relinquished By: (1)	Date	Time	Received By:	Date	Time	Shipping Carrier:		Samples Received Cold? (Circle) YES NO
		Relinquished By: (2)	Date	Time	Received By:	Date	Time	Shipping Ticket No:		Temperature (C): <u>4.6</u>
		Relinquished By: (3)	Date	Time	Received By:	Date	Time	Special Deliverable Requirements:		Chain of Custody Seal: (Circle) INTACT BROKEN
		Relinquished By: (4)	Date	Time	Received By:	Date	Time	Special Instructions:		ABSENT
		Requested Turnaround Time:					Date Needed			

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

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

200 W. 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



Mr. Chris Murray
Sovereign Consulting
405 Oakmeads Crescent
Suite 1
Virginia Beach VA 23462
Report Number: G650-120
Client Project: NV018-001-02

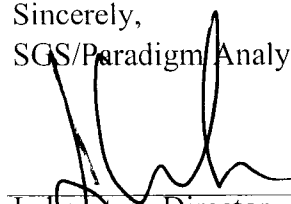
Dear Mr. Murray:

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

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

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

Sincerely,
SGS/Paradigm Analytical Laboratories, Inc.



Laboratory Director
J. Patrick Weaver

8/23/2007

Date



List of Reporting Abbreviations and Data Qualifiers

B = Compound also detected in batch blank

BQL = Below Quantitation Limit (RL or MDL)

DF = Dilution Factor

Dup = Duplicate

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

E = Estimated concentration, exceeds calibration range.

J = Estimated concentration, below calibration range and above MDL

LCS(D) = Laboratory Control Spike (Duplicate)

MDL = Method Detection Limit

MS(D) = Matrix Spike (Duplicate)

PQL = Practical Quantitation Limit

RL = Reporting Limit

RPD = Relative Percent Difference

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

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

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

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

% Rec = Percent Recovery

% solids = Percent Solids

Special Notes:

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

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

Client Sample ID: USTLCH4015-SB13A

Client Project ID: NV018-001-02

Lab Sample ID: G650-120-1

Lab Project ID: G650-120

Report Basis: Dry Weight

Analyzed By: DVG

Date Collected: 8/20/2007 13:00

Date Received: 8/21/2007

Matrix: Soil

Solids 85.71

Analyte	Result MG/KG	RL MG/KG	Prep Method	Dilution Factor	Date Analyzed
Gasoline Range Organics	BQL	5.41	5035	1	08/22/07
Diesel Range Organics	32.4	7.12	3541	1	08/22/07

Comments:

Flags:

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

Client Sample ID: USTLCH4015-SB38A

Client Project ID: NV018-001-02

Lab Sample ID: G650-120-2

Lab Project ID: G650-120

Report Basis: Dry Weight

Analyzed By: DVG

Date Collected: 8/20/2007 13:10

Date Received: 8/21/2007

Matrix: Soil

Solids 95.91

Analyte	Result MG/KG	RL MG/KG	Prep Method	Dilution Factor	Date Analyzed
Gasoline Range Organics	47.2	5.95	5035	1	08/21/07
Diesel Range Organics	73.4	6.38	3541	1	08/22/07

Comments:

Flags:

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

Client Sample ID: USTLCH4015-SB36A

Client Project ID: NV018-001-02

Lab Sample ID: G650-120-3

Lab Project ID: G650-120

Report Basis: Dry Weight

Analyzed By: DVG

Date Collected: 8/20/2007 13:25

Date Received: 8/21/2007

Matrix: Soil

Solids 87.14

Analyte	Result MG/KG	RL MG/KG	Prep Method	Dilution Factor	Date Analyzed
Gasoline Range Organics	129	19.7	5035	5	08/22/07
Diesel Range Organics	129	6.77	3541	1	08/22/07

Comments:

Flags:

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

Client Sample ID: USTLCH4015-SB37A

Client Project ID: NV018-001-02

Lab Sample ID: G650-120-4

Lab Project ID: G650-120

Report Basis: Dry Weight

Analyzed By: DVG

Date Collected: 8/20/2007 13:40

Date Received: 8/21/2007

Matrix: Soil

Solids 90.29

Analyte	Result MG/KG	RL MG/KG	Prep Method	Dilution Factor	Date Analyzed
Gasoline Range Organics	137	20.1	5035	5	08/22/07
Diesel Range Organics	9950	326	3541	50	08/22/07

Comments:

Flags:

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

Client Sample ID: USTLCH4015-SB26A

Client Project ID: NV018-001-02

Lab Sample ID: G650-120-5

Lab Project ID: G650-120

Report Basis: Dry Weight

Analyzed By: DVG

Date Collected: 8/20/2007 14:00

Date Received: 8/21/2007

Matrix: Soil

Solids 90.13

Analyte	Result MG/KG	RL MG/KG	Prep Method	Dilution Factor	Date Analyzed
Gasoline Range Organics	BQL	5.71	5035	1	08/21/07
Diesel Range Organics	BQL	6.76	3541	1	08/22/07

Comments:

Flags:

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

Client Sample ID: USTLCH4015-SB18A

Client Project ID: NV018-001-02

Lab Sample ID: G650-120-6

Lab Project ID: G650-120

Report Basis: Dry Weight

Analyzed By: DVG

Date Collected: 8/20/2007 14:20

Date Received: 8/21/2007

Matrix: Soil

Solids 87.11

Analyte	Result MG/KG	RL MG/KG	Prep Method	Dilution Factor	Date Analyzed
Gasoline Range Organics	BQL	5.91	5035	1	08/21/07
Diesel Range Organics	8.06	7.17	3541	1	08/22/07

Comments:

Flags:

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

Client Sample ID: USTLCH4015-SB14A

Client Project ID: NV018-001-02

Lab Sample ID: G650-120-7

Lab Project ID: G650-120

Report Basis: Dry Weight

Analyzed By: DVG

Date Collected: 8/20/2007 14:35

Date Received: 8/21/2007

Matrix: Soil

Solids 87.68

Analyte	Result MG/KG	RL MG/KG	Prep Method	Dilution Factor	Date Analyzed
Gasoline Range Organics	BQL	6.19	5035	1	08/21/07
Diesel Range Organics	14.8	6.76	3541	1	08/22/07

Comments:

Flags:

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

Client Sample ID: USTLCH4015-SB20A

Client Project ID: NV018-001-02

Lab Sample ID: G650-120-8

Lab Project ID: G650-120

Report Basis: Dry Weight

Analyzed By: DVG

Date Collected: 8/20/2007 14:50

Date Received: 8/21/2007

Matrix: Soil

Solids 91.48

Analyte	Result MG/KG	RL MG/KG	Prep Method	Dilution Factor	Date Analyzed
Gasoline Range Organics	BQL	5.55	5035	1	08/21/07
Diesel Range Organics	BQL	6.78	3541	1	08/22/07

Comments:

Flags:

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

Client Sample ID: USTLCH4015-SB24A

Client Project ID: NV018-001-02

Lab Sample ID: G650-120-9

Lab Project ID: G650-120

Report Basis: Dry Weight

Analyzed By: DVG

Date Collected: 8/20/2007 15:15

Date Received: 8/21/2007

Matrix: Soil

Solids 83.29

Analyte	Result MG/KG	RL MG/KG	Prep Method	Dilution Factor	Date Analyzed
Gasoline Range Organics	BQL	5.27	5035	1	08/21/07
Diesel Range Organics	BQL	7.43	3541	1	08/22/07

Comments:

Flags:

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

Client Sample ID: USTLCH4015-SB38B

Client Project ID: NV018-001-02

Lab Sample ID: G650-120-10

Lab Project ID: G650-120

Report Basis: Dry Weight

Analyzed By: DVG

Date Collected: 8/20/2007 13:15

Date Received: 8/21/2007

Matrix: Soil

Solids 87.74

Analyte	Result MG/KG	RL MG/KG	Prep Method	Dilution Factor	Date Analyzed
Gasoline Range Organics	36.5	5.11	5035	1	08/21/07
Diesel Range Organics	35.4	7.10	3541	1	08/22/07

Comments:

Flags:

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

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID: VBLK4082107A
Lab Project ID:
Report Basis: Dry Weight

Analyzed By: DVG
Date Collected:
Date Received:
Matrix: Soil
Solids 100.00

Analyte	Result mg/kg	RL mg/kg	Prep Method	Dilution Factor	Date Analyzed
Gasoline Range Organics	BQL	6.00	5035	1	08/21/07

Comments:

Flags:

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

Client Sample ID: Batch QC

Lab Sample ID: g211-1999-12b

LCS ID: LCS4082107A / VP082107

Analyzed By: DVG

Matrix: Soil

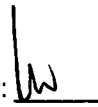
Solids 78.81

MS/MSD

Analyte	Sample MG/KG	Spiked MG/KG	MS MG/KG	REC %	Spiked MG/KG	MSD MG/KG	REC % (70-130)	RPD %
GRO	BQL	27.1	26.7	98.5	27.1	27.3	101	2.51

LCS

Analyte	Spiked MG/KG	Result MG/KG	REC %	LIMITS	
				Lower	Upper
GRO	40	38	95.3	70	130

Comments:Reviewed By: 

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

Client Sample ID: Batch QC

Lab Sample ID: g510-530-1a

LCS ID: LCS4082207A / VP082207

Analyzed By: DVG

Matrix: Soil

Solids 90.64

MS/MSD

Analyte	Sample MG/KG	Spiked MG/KG	MS MG/KG	REC %	Spiked MG/KG	MSD MG/KG	REC % (70-130)	RPD %
GRO	BQL	43.7	43.8	100	43.7	47.8	109	8.61

LCS

Analyte	Spiked MG/KG	Result MG/KG	REC %	LIMITS	
				Lower	Upper
GRO	40	37	92	70	130

Comments:Reviewed By: 

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

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID: VBLK4082207A
Lab Project ID:
Report Basis: Dry Weight

Analyzed By: DVG
Date Collected:
Date Received:
Matrix: Soil
Solids 100.00

Analyte	Result mg/kg	RL mg/kg	Prep Method	Dilution Factor	Date Analyzed
Gasoline Range Organics	BQL	6.00	5035	1	08/22/07

Comments:

Flags:

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

Client Sample ID: Method Blank

Client Project ID:

Lab Sample ID: PB8946

Lab Project ID:

Report Basis: Dry Weight

Analyzed By: BWS

Date Collected:

Date Received:

Matrix: SOIL

Solids 100.00

Analyte	Result mg/KG	RL mg/KG	Prep Method	Dilution Factor	Date Analyzed
Diesel Range Organics	BQL	6.25	3541	1	08/23/07

Comments:

Flags:

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

Client Sample ID: Batch QC
Lab Sample ID: G161-2642-3F
Batch ID: 8946

Analyzed By: BWS
Matrix: Soil
Solids 85.81

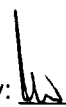
MS/MSD

Analyte units	Sample MG/KG	Spiked MG/KG	MS MG/KG	REC %	Spiked MG/KG	MSD MG/KG	REC %	RPD %
DRO	12.2	72.8	58.9	64.1	72	57.4	62.8	2.05

LCS

Analyte units	Spiked MG/KG	Result MG/KG	REC %	LIMITS	
				Lower	Upper
DRO	62.5	56.9	91	40	140

Comments:

Reviewed By: 



Mr. Chris Murray
Sovereign Consulting
405 Oakmears Crescent
Suite 1
Virginia Beach VA 23462
Report Number: G650-130
Client Project: NV018

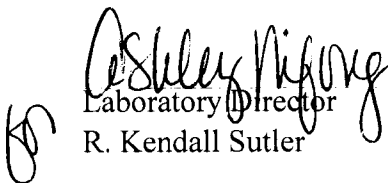
Dear Mr. Murray:

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

Sincerely,
SGS Environmental Services, Inc.


Laboratory Director
R. Kendall Sutler

2/4/08
Date



List of Reporting Abbreviations and Data Qualifiers

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

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LCS(D) = Laboratory Control Spike (Duplicate)

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

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% Rec = Percent Recovery

% solids = Percent Solids

Special Notes:

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

**Results for Volatiles**

by GC 602

Client Sample ID: USTLCH4015-MW01

Analyzed By: RSB

Client Project ID: NV018

Date Collected: 1/23/08 18:13

Lab Sample ID: G650-130-1B

Date Received: 1/25/08

Lab Project ID: G650-130

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	7.75	2.00	0.366	2	1/30/08	
Diisopropyl ether (DIPE)	BQL	2.00	0.458	2	1/30/08	
Ethylbenzene	31.7	2.00	0.362	2	1/30/08	
Methyl-tert butyl ether (MTBE)	12.6	4.00	0.718	2	1/30/08	
Toluene	1.30	2.00	0.314	2	1/30/08	J
m/p-Xylene	34.5	4.00	0.962	2	1/30/08	
o-Xylene	5.43	4.00	1.17	2	1/30/08	

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-VOA_WA.XLS

**Results for Volatiles**

by GC 602

Client Sample ID: USTLCH4015-MW23

Analyzed By: RSB

Client Project ID: NV018

Date Collected: 1/23/08 17:28

Lab Sample ID: G650-130-2A

Date Received: 1/25/08

Lab Project ID: G650-130

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	8.42	1.00	0.183	1	1/29/08	
Diisopropyl ether (DIPE)	4.09	1.00	0.229	1	1/29/08	
Ethylbenzene	BQL	1.00	0.181	1	1/29/08	
Methyl-tert butyl ether (MTBE)	27.4	2.00	0.359	1	1/29/08	
Toluene	BQL	1.00	0.157	1	1/29/08	
m/p-Xylene	BQL	2.00	0.481	1	1/29/08	
o-Xylene	BQL	2.00	0.584	1	1/29/08	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	37.9	94.8

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

Reviewed By: 

GC-VOL_11A.XLS

**Results for Volatiles**

by GC 602

Client Sample ID: USTLCH4015-MW20

Analyzed By: RSB

Client Project ID: NV018

Date Collected: 1/24/08 8:45

Lab Sample ID: G650-130-3A

Date Received: 1/25/08

Lab Project ID: G650-130

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.183	1	1/29/08	
Diisopropyl ether (DIPE)	BQL	1.00	0.229	1	1/29/08	
Ethylbenzene	BQL	1.00	0.181	1	1/29/08	
Methyl-tert butyl ether (MTBE)	0.812	2.00	0.359	1	1/29/08	J
Toluene	BQL	1.00	0.157	1	1/29/08	
m/p-Xylene	BQL	2.00	0.481	1	1/29/08	
o-Xylene	BQL	2.00	0.584	1	1/29/08	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	39.4	98.6

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: USTLCH4015-Duplicate

Analyzed By: RSB

Client Project ID: NV018

Date Collected: 1/24/08 0:00

Lab Sample ID: G650-130-4A

Date Received: 1/25/08

Lab Project ID: G650-130

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.183	1	1/29/08	
Diisopropyl ether (DIPE)	BQL	1.00	0.229	1	1/29/08	
Ethylbenzene	BQL	1.00	0.181	1	1/29/08	
Methyl-tert butyl ether (MTBE)	0.850	2.00	0.359	1	1/29/08	J
Toluene	BQL	1.00	0.157	1	1/29/08	
m/p-Xylene	BQL	2.00	0.481	1	1/29/08	
o-Xylene	BQL	2.00	0.584	1	1/29/08	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	39.7	99.1

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

Reviewed By: 

GC-VOA_WA.XLS

**Results for Volatiles**

by GC 602

Client Sample ID: USTLCH4015-MW02

Analyzed By: RSB

Client Project ID: NV018

Date Collected: 1/24/08 9:00

Lab Sample ID: G650-130-5A

Date Received: 1/25/08

Lab Project ID: G650-130

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	8.26	1.00	0.183	1	1/29/08	
Diisopropyl ether (DIPE)	BQL	1.00	0.229	1	1/29/08	
Ethylbenzene	12.3	1.00	0.181	1	1/29/08	
Methyl-tert butyl ether (MTBE)	3.51	2.00	0.359	1	1/29/08	
Toluene	1.39	1.00	0.157	1	1/29/08	
m/p-Xylene	20.5	2.00	0.481	1	1/29/08	
o-Xylene	BQL	2.00	0.584	1	1/29/08	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	40.6	102

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: USTLCH4015-MW22

Analyzed By: RSB

Client Project ID: NV018

Date Collected: 1/24/08 9:40

Lab Sample ID: G650-130-6A

Date Received: 1/25/08

Lab Project ID: G650-130

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.183	1	1/30/08	
Diisopropyl ether (DIPE)	BQL	1.00	0.229	1	1/30/08	
Ethylbenzene	BQL	1.00	0.181	1	1/30/08	
Methyl-tert butyl ether (MTBE)	3.35	2.00	0.359	1	1/30/08	
Toluene	BQL	1.00	0.157	1	1/30/08	
m/p-Xylene	BQL	2.00	0.481	1	1/30/08	
o-Xylene	BQL	2.00	0.584	1	1/30/08	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	39.3	98.4

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

Reviewed By: 

GC-VOA_VA.XLS

**Results for Volatiles**

by GC 602

Client Sample ID: USTLCH4015-MW19

Analyzed By: RSB

Client Project ID: NV018

Date Collected: 1/24/08 10:18

Lab Sample ID: G650-130-7B

Date Received: 1/25/08

Lab Project ID: G650-130

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.183	1	1/30/08	
Diisopropyl ether (DIPE)	BQL	1.00	0.229	1	1/30/08	
Ethylbenzene	BQL	1.00	0.181	1	1/30/08	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.359	1	1/30/08	
Toluene	BQL	1.00	0.157	1	1/30/08	
m/p-Xylene	BQL	2.00	0.481	1	1/30/08	
o-Xylene	BQL	2.00	0.584	1	1/30/08	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	39.4	98.5

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

Reviewed By: 

GC-VOA_WA.XLS

**Results for Volatiles**

by GC 602

Client Sample ID: USTLCH4015-MW21

Analyzed By: RSB

Client Project ID: NV018

Date Collected: 1/24/08 10:30

Lab Sample ID: G650-130-8B

Date Received: 1/25/08

Lab Project ID: G650-130

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	26.0	2.00	0.366	2	1/30/08	
Diisopropyl ether (DIPE)	1.18	2.00	0.458	2	1/30/08	J
Ethylbenzene	2.05	2.00	0.362	2	1/30/08	
Methyl-tert butyl ether (MTBE)	19.3	4.00	0.718	2	1/30/08	
Toluene	BQL	2.00	0.314	2	1/30/08	
m/p-Xylene	BQL	4.00	0.962	2	1/30/08	
o-Xylene	BQL	4.00	1.17	2	1/30/08	

Surrogate Spike Recoveries**Spike
Added****Spike
Result****Percent
Recovery**

Trifluorotoluene

40

38.3

95.7

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: USTLCH4015-MW13

Analyzed By: RSB

Client Project ID: NV018

Date Collected: 1/24/08 11:21

Lab Sample ID: G650-130-9A

Date Received: 1/25/08

Lab Project ID: G650-130

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.183	1	1/30/08	
Diisopropyl ether (DIPE)	BQL	1.00	0.229	1	1/30/08	
Ethylbenzene	BQL	1.00	0.181	1	1/30/08	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.359	1	1/30/08	
Toluene	BQL	1.00	0.157	1	1/30/08	
m/p-Xylene	BQL	2.00	0.481	1	1/30/08	
o-Xylene	BQL	2.00	0.584	1	1/30/08	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	39.4	98.4

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

Reviewed By: 

GC-VOA_WA.XLS

**Results for Volatiles**

by GC 602

Client Sample ID: USTLCH4015-MW03

Analyzed By: RSB

Client Project ID: NV018

Date Collected: 1/24/08 12:00

Lab Sample ID: G650-130-10A

Date Received: 1/25/08

Lab Project ID: G650-130

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.183	1	1/30/08	
Diisopropyl ether (DIPE)	BQL	1.00	0.229	1	1/30/08	
Ethylbenzene	BQL	1.00	0.181	1	1/30/08	
Methyl-tert butyl ether (MTBE)	0.707	2.00	0.359	1	1/30/08	J
Toluene	BQL	1.00	0.157	1	1/30/08	
m/p-Xylene	BQL	2.00	0.481	1	1/30/08	
o-Xylene	BQL	2.00	0.584	1	1/30/08	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	40.4	101

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

Reviewed By: 

GC-VOL-WA.XLS

**Results for Volatiles**

by GC 602

Client Sample ID: USTLCH4015-MW24

Analyzed By: RSB

Client Project ID: NV018

Date Collected: 1/24/08 12:00

Lab Sample ID: G650-130-11A

Date Received: 1/25/08

Lab Project ID: G650-130

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.183	1	1/29/08	
Diisopropyl ether (DIPE)	BQL	1.00	0.229	1	1/29/08	
Ethylbenzene	BQL	1.00	0.181	1	1/29/08	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.359	1	1/29/08	
Toluene	BQL	1.00	0.157	1	1/29/08	
m/p-Xylene	BQL	2.00	0.481	1	1/29/08	
o-Xylene	BQL	2.00	0.584	1	1/29/08	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	42.5	106

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

Reviewed By: 

GC-VOA_WA.XLS

**Results for Volatiles**

by GC 602

Client Sample ID: USTLCH4015-Trip Blank

Analyzed By: RSB

Client Project ID: NV018

Date Collected: 1/23/08 0:00

Lab Sample ID: G650-130-12A

Date Received: 1/25/08

Lab Project ID: G650-130

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.183	1	1/29/08	
Diisopropyl ether (DIPE)	BQL	1.00	0.229	1	1/29/08	
Ethylbenzene	BQL	1.00	0.181	1	1/29/08	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.359	1	1/29/08	
Toluene	BQL	1.00	0.157	1	1/29/08	
m/p-Xylene	BQL	2.00	0.481	1	1/29/08	
o-Xylene	BQL	2.00	0.584	1	1/29/08	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	39.5	98.8

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: Method Blank

Analyzed By: RSB

Client Project ID:

Date Collected:

Lab Sample ID: VBLK1012908A

Date Received:

Lab Project ID:

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.183	1	1/29/08	
Diisopropyl ether (DIPE)	BQL	1.00	0.229	1	1/29/08	
Ethylbenzene	BQL	1.00	0.181	1	1/29/08	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.359	1	1/29/08	
Toluene	BQL	1.00	0.157	1	1/29/08	
m/p-Xylene	BQL	2.00	0.481	1	1/29/08	
o-Xylene	BQL	2.00	0.584	1	1/29/08	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	39.3	98.2

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

Reviewed By: 

GC-VOA_WA.XLS

**Results for Volatiles**

by GC 602

Client Sample ID: Method Blank

Analyzed By: RSB

Client Project ID:

Date Collected:

Lab Sample ID: VBLK1012908B

Date Received:

Lab Project ID:

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.183	1	1/29/08	
Diisopropyl ether (DIPE)	BQL	1.00	0.229	1	1/29/08	
Ethylbenzene	BQL	1.00	0.181	1	1/29/08	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.359	1	1/29/08	
Toluene	BQL	1.00	0.157	1	1/29/08	
m/p-Xylene	BQL	2.00	0.481	1	1/29/08	
o-Xylene	BQL	2.00	0.584	1	1/29/08	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	39.4	98.6

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

**Results for Volatiles**

by GC 602

Client Sample ID: Method Blank

Analyzed By: RSB

Client Project ID:

Date Collected:

Lab Sample ID: VBLK1013008A

Date Received:

Lab Project ID:

Matrix: Water

Analyte	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flags
Benzene	BQL	1.00	0.183	1	1/30/08	
Diisopropyl ether (DIPE)	BQL	1.00	0.229	1	1/30/08	
Ethylbenzene	BQL	1.00	0.181	1	1/30/08	
Methyl-tert butyl ether (MTBE)	BQL	2.00	0.359	1	1/30/08	
Toluene	BQL	1.00	0.157	1	1/30/08	
m/p-Xylene	BQL	2.00	0.481	1	1/30/08	
o-Xylene	BQL	2.00	0.584	1	1/30/08	

Surrogate Spike Recoveries

	Spike Added	Spike Result	Percent Recovery
Trifluorotoluene	40	39.7	99.3

Comments:

All values corrected for dilution.

BQL = Below quantitation limit.

Reviewed By: 

GC-VSA_WA.XLS

Summary Results for QC Check

Method: 602

Filename : 1012908/003R

Compound	SA	Resul	Rec	QC Limits	
	ug/L	ug/L	(%)	Lower	Upper
Benzene	20.0	20.6	102.9	77.0	123.0
Chlorobenzene	20.0	20.5	102.6	80.5	119.5
1,2-Dichlorobenzene	40.0	43.1	107.7	68.0	132.0
1,3-Dichlorobenzene	20.0	21.5	107.5	72.5	127.5
1,4-Dichlorobenzene	40.0	41.9	104.9	69.5	130.5
• Diisopropyl ether	20.0	20.7	103.3	43.1	156.9
Ethylbenzene	20.0	20.6	102.9	63.0	137.0
• MTBE	40.0	40.5	101.3	46.8	153.2
Toluene	20.0	20.4	102.2	77.5	127.0
• m,p-Xylene	40.0	41.3	103.3	11.2	188.8
• o-Xylene	40.0	41.7	104.3	47.6	152.4

Flags :

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

Summary Results for Laboratory Control Spike

Method: 602

Filename : 1012908/004R

Compound	SA	Result	Rec	LCS Limits	
	ug/L	ug/L	(%)	Lower	Upper
Benzene	10.0	9.9	99.1	39	150
Chlorobenzene	10.0	9.8	98.4	55	135
1,2-Dichlorobenzene	20.0	21.5	107.3	37	154
1,3-Dichlorobenzene	10.0	10.7	106.9	50	141
1,4-Dichlorobenzene	20.0	20.9	104.6	42	143
• Diisopropyl ether	10.0	9.7	97.1	30	170
Ethylbenzene	10.0	9.9	99.5	32	160
• MTBE	20.0	19.3	96.4	35	165
Toluene	10.0	9.9	98.7	46	148
• m,p-Xylene	20.0	19.8	99.2	0	239
• o-Xylene	20.0	20.3	101.7	36	164

Flags :

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

Summary Results for MS-MSD

Sample : 1012908/015F::1012908/015R

MS : 1012908/017F::1012908/017R

MSD : 1012908/018F::1012908/018R

Compound	SA	µg/L			REC(%)		REC Limits	
		Sam.	MS	MSD	MS	MSD	Lower	Upper
Benzene	10.0	ND	10.9	10.0	109	109	39	150
Chlorobenzene	10.0	ND	10.9	9.9	109	109	55	135
1,2-Dichlorobenzene	10.0	ND	22.9	20.4	229 +	229 +	37	154
1,3-Dichlorobenzene	10.0	ND	11.5	10.3	115	115	50	141
1,4-Dichlorobenzene	10.0	ND	22.3	20.1	223 +	223 +	42	143
• Diisopropyl ether	10.0	ND	11.0	9.9	110	110	30	170
• Ethylbenzene	10.0	ND	11.0	10.0	110	110	32	160
• MTBE	20.0	ND	21.4	19.4	107	107	35	165
Toluene	10.0	ND	11.0	10.0	110	110	46	148
• m,p-Xylene	20.0	ND	22.1	20.0	110	110	D	239
• o-Xylene	20.0	ND	22.3	20.1	112	112	36	164

Flags :

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

Summary Results for QC Check

Method: 602

Filename : 1012908/021R

Compound	SA	Resul	Rec	QC Limits	
	ug/L	ug/L	(%)	Lower	Upper
Benzene	20.0	20.3	101.4	77.0	123.0
Chlorobenzene	20.0	20.2	100.8	80.5	119.5
1,2-Dichlorobenzene	40.0	41.2	103.1	68.0	132.0
1,3-Dichlorobenzene	20.0	21.0	105.0	72.5	127.5
1,4-Dichlorobenzene	40.0	40.4	101.1	69.5	130.5
• Diisopropyl ether	20.0	20.3	101.4	43.1	156.9
Ethylbenzene	20.0	20.2	100.8	63.0	137.0
• MTBE	40.0	39.6	99.0	46.8	153.2
Toluene	20.0	20.1	100.3	77.5	127.0
• m,p-Xylene	40.0	40.5	101.3	11.2	188.8
• o-Xylene	40.0	40.9	102.2	47.6	152.4

Flags :

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



Summary Results for Laboratory Control Spike

Method: 602

Filename : 1012908/022R

Compound	SA	Result	Rec	LCS Limits	
	ug/L	ug/L	(%)	Lower	Upper
Benzene	10.0	10.0	100.2	39	150
Chlorobenzene	10.0	10.1	101.1	55	135
1,2-Dichlorobenzene	20.0	21.5	107.3	37	154
1,3-Dichlorobenzene	10.0	10.7	106.6	50	141
1,4-Dichlorobenzene	20.0	21.2	105.8	42	143
• Diisopropyl ether	10.0	9.8	97.9	30	170
Ethylbenzene	10.0	10.2	102.0	32	160
• MTBE	20.0	19.6	98.0	35	165
Toluene	10.0	10.1	100.5	46	148
• m,p-Xylene	20.0	20.5	102.6	0	239
• o-Xylene	20.0	20.7	103.4	36	164

Flags :

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

Summary Results for MS-MSD

Method: 8032

Sample : 1012908/035F::1012908/035R

MS : 1012908/037F::1012908/037R

MSD : 1012908/038F::1012908/038R

		µg/L			REC(%)		REC Limits	
Compound	SA	Sam.	MS	MSD	MS	MSD	Lower	Upper
Benzene	10.0	ND	10.4	10.3	104	104	39	150
Chlorobenzene	10.0	ND	10.0	9.9	100	100	55	135
1,2-Dichlorobenzene	10.0	8.4	19.3	18.9	193 +	193 +	37	154
1,3-Dichlorobenzene	10.0	ND	10.9	10.7	109	109	50	141
1,4-Dichlorobenzene	10.0	20.0	-0.3	-0.4	-3 +	-3 +	42	143
• Diisopropyl ether	10.0	ND	10.5	10.4	105	105	30	170
Ethylbenzene	10.0	5.4	9.5	9.3	95	95	32	160
• MTBE	20.0	ND	19.5	19.2	97	97	35	165
Toluene	10.0	ND	9.9	9.9	99	99	46	148
• m,p-Xylene	20.0	19.7	18.1	17.6	91	91	D	239
• o-Xylene	20.0	ND	20.5	20.4	103	103	36	164

Flags :

+ = out of QC limits.

• = lab generated limits.

D = Detected

ND = None Detected

SA= Spike Added

Summary Results for QC Check

Method: 602

Filename : 1013008/004R

Compound	SA	Resul	Rec	QC Limits	
	ug/L	ug/L	(%)	Lower	Upper
Benzene	20.0	20.7	103.5	77.0	123.0
Chlorobenzene	20.0	20.5	102.7	80.5	119.5
1,2-Dichlorobenzene	40.0	43.8	109.6	68.0	132.0
1,3-Dichlorobenzene	20.0	21.8	108.9	72.5	127.5
1,4-Dichlorobenzene	40.0	42.5	106.2	69.5	130.5
• Diisopropyl ether	20.0	20.9	104.3	43.1	156.9
Ethylbenzene	20.0	20.7	103.4	63.0	137.0
• MTBE	40.0	41.1	102.7	46.8	153.2
Toluene	20.0	20.6	102.8	77.5	127.0
• m,p-Xylene	40.0	41.8	104.6	11.2	188.8
• o-Xylene	40.0	42.2	105.4	47.6	152.4

Flags :

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



Summary Results for Laboratory Control Spike

Method: 602

Filename : 1013008/005R

Compound	SA	Result	Rec	LCS Limits	
	ug/L	ug/L	(%)	Lower	Upper
Benzene	10.0	9.8	97.9	39	150
Chlorobenzene	10.0	9.8	97.9	55	135
1,2-Dichlorobenzene	20.0	21.4	106.9	37	154
1,3-Dichlorobenzene	10.0	10.7	106.8	50	141
1,4-Dichlorobenzene	20.0	20.8	104.1	42	143
• Diisopropyl ether	10.0	9.7	97.0	30	170
Ethylbenzene	10.0	9.9	99.4	32	160
• MTBE	20.0	19.1	95.6	35	165
Toluene	10.0	9.8	97.9	46	148
• m,p-Xylene	20.0	20.1	100.5	0	239
• o-Xylene	20.0	20.3	101.6	36	164

Flags :

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

Summary Results for MS-MSD

Method: 802

Sample : 1013008/018F::1013008/018R

MS : 1013008/020F::1013008/020R

MSD : 1013008/021F::1013008/021R

Compound	SA	µg/L			REC(%)		REC Limits	
		Sam.	MS	MSD	MS	MSD	Lower	Upper
Benzene	10.0	10.1	9.9	9.8	99	99	39	150
Chlorobenzene	10.0	ND	10.3	10.1	103	103	55	135
1,2-Dichlorobenzene	10.0	5.4	20.6	20.7	206 +	206 +	37	154
1,3-Dichlorobenzene	10.0	ND	11.0	11.0	110	110	50	141
1,4-Dichlorobenzene	10.0	15.3	4.9	4.7	49	49	42	143
• Diisopropyl ether	10.0	1.7	11.6	11.3	116	116	30	170
Ethylbenzene	10.0	8.9	10.0	9.9	100	100	32	160
• MTBE	20.0	ND	20.4	20.0	102	102	35	165
Toluene	10.0	16.3	9.4	9.4	94	94	46	148
• m,p-Xylene	20.0	22.1	19.4	19.5	97	97	D	239
• o-Xylene	20.0	32.1	18.6	18.9	93	93	36	164

Flags :

+ = out of QC limits.

• = lab generated limits.

D = Detected

ND = None Detected

SA= Spike Added

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTLCH4015-MW01

Client Project ID: NV018

Lab Sample ID: G650-130-11

Lab Project ID: G650-130

Analyzed By: DCS

Date Collected: 1/23/2008 18:13

Date Received: 1/25/2008

Date Extracted: 1/28/2008

Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	1/31/2008	
Acenaphthylene	BQL	10.0	1.12	1	1/31/2008	
Anthracene	BQL	10.0	1.75	1	1/31/2008	
Benzo[a]anthracene	BQL	10.0	1.36	1	1/31/2008	
Benzo[a]pyrene	BQL	10.0	1.27	1	1/31/2008	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	1/31/2008	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	1/31/2008	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	1/31/2008	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	1/31/2008	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	1/31/2008	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	1/31/2008	
Bis(2-ethylhexyl)phthalate	4.20	10.0	1.33	1	1/31/2008	J
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	1/31/2008	
Butylbenzylphthalate	BQL	10.0	1.53	1	1/31/2008	
2-Chloronaphthalene	BQL	10.0	1.25	1	1/31/2008	
2-Chlorophenol	BQL	10.0	4.22	1	1/31/2008	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	1/31/2008	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	1/31/2008	
Chrysene	BQL	10.0	1.11	1	1/31/2008	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	1/31/2008	
Di-n-Butylphthalate	BQL	10.0	1.65	1	1/31/2008	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	1/31/2008	
2,4-Dichlorophenol	BQL	10.0	3.75	1	1/31/2008	
Diethylphthalate	BQL	10.0	1.48	1	1/31/2008	
Dimethylphthalate	BQL	10.0	1.04	1	1/31/2008	
2,4-Dimethylphenol	BQL	10.0	9.25	1	1/31/2008	
Di-n-octylphthalate	BQL	10.0	1.16	1	1/31/2008	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	1/31/2008	
2,4-Dinitrophenol	BQL	50.0	4.20	1	1/31/2008	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	1/31/2008	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	1/31/2008	
Diphenylamine *	BQL	10.0	1.53	1	1/31/2008	
Fluoranthene	BQL	10.0	1.41	1	1/31/2008	
Fluorene	BQL	10.0	1.22	1	1/31/2008	
Hexachlorobenzene	BQL	10.0	1.22	1	1/31/2008	
Hexachlorobutadiene	BQL	10.0	1.58	1	1/31/2008	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	1/31/2008	
Hexachloroethane	BQL	10.0	1.58	1	1/31/2008	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	1/31/2008	
Isophorone	BQL	10.0	1.27	1	1/31/2008	
Naphthalene	20.3	10.0	1.08	1	1/31/2008	
Nitrobenzene	BQL	10.0	1.32	1	1/31/2008	
2-Nitrophenol	BQL	10.0	3.52	1	1/31/2008	
4-Nitrophenol	BQL	50.0	3.17	1	1/31/2008	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	1/31/2008	
Pentachlorophenol	BQL	50.0	2.83	1	1/31/2008	
Phenanthrene	BQL	10.0	1.38	1	1/31/2008	

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTLCH4015-MW01
Client Project ID: NV018
Lab Sample ID: G650-130-1I
Lab Project ID: G650-130

Analyzed By: DCS
Date Collected: 1/23/2008 18:13
Date Received: 1/25/2008
Date Extracted: 1/28/2008
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Phenol	BQL	10.0	3.38	1	1/31/2008	
Pyrene	BQL	10.0	2.08	1	1/31/2008	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	1/31/2008	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	1/31/2008	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	8.7	87		
2-Fluorophenol		10	9.6	96		
Nitrobenzene-d5		10	8.8	88		
Phenol-d6		10	9.3	93		
2,4,6-Tribromophenol		10	9.7	97		
4-Terphenyl-d14		10	9.7	97		

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: USTLCH4015-MW01
Client Project ID: NV018
Lab Sample ID: G650-130-11
Lab Project ID: G650-130
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: DCS
Date Collected: 1/23/2008 18:13
Date Received: 1/25/2008
Date Extracted: 1/28/2008
Date Analyzed: 1/31/2008
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
0	Benzene, 1-ethyl-4-methyl-	6.05	000622-96-8	91	63.6
2	Aromatic, Unknown	10.37			56
3	Alkane, Unknown	6.54			53.3
4	2,3-Dihydro-1-methylindene	7.80	027133-93-3	90	34.7
5	Unknown	6.17			20.4
6	Benzene, 1-ethyl-3-methyl-	5.75	000620-14-4	90	17.2
7	Unknown	7.22			16.6
8	Unknown	10.84			13.6
9	Aromatic, Unknown	6.38			12.9
10	Unknown	5.80			12.4

Comment:

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

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

Reviewed by: _____



**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTLCH4015-MW23
Client Project ID: NV018
Lab Sample ID: G650-130-2G
Lab Project ID: G650-130

Analyzed By: DCS
Date Collected: 1/23/2008 17:28
Date Received: 1/25/2008
Date Extracted: 1/28/2008
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	1/31/2008	
Acenaphthylene	BQL	10.0	1.12	1	1/31/2008	
Anthracene	BQL	10.0	1.75	1	1/31/2008	
Benzo[a]anthracene	BQL	10.0	1.36	1	1/31/2008	
Benzo[a]pyrene	BQL	10.0	1.27	1	1/31/2008	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	1/31/2008	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	1/31/2008	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	1/31/2008	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	1/31/2008	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	1/31/2008	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	1/31/2008	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	1/31/2008	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	1/31/2008	
Butylbenzylphthalate	BQL	10.0	1.53	1	1/31/2008	
2-Chloronaphthalene	BQL	10.0	1.25	1	1/31/2008	
2-Chlorophenol	BQL	10.0	4.22	1	1/31/2008	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	1/31/2008	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	1/31/2008	
Chrysene	BQL	10.0	1.11	1	1/31/2008	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	1/31/2008	
Di-n-Butylphthalate	BQL	10.0	1.65	1	1/31/2008	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	1/31/2008	
2,4-Dichlorophenol	BQL	10.0	3.75	1	1/31/2008	
Diethylphthalate	BQL	10.0	1.48	1	1/31/2008	
Dimethylphthalate	BQL	10.0	1.04	1	1/31/2008	
2,4-Dimethylphenol	BQL	10.0	9.25	1	1/31/2008	
Di-n-octylphthalate	BQL	10.0	1.16	1	1/31/2008	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	1/31/2008	
2,4-Dinitrophenol	BQL	50.0	4.20	1	1/31/2008	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	1/31/2008	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	1/31/2008	
Diphenylamine *	BQL	10.0	1.53	1	1/31/2008	
Fluoranthene	BQL	10.0	1.41	1	1/31/2008	
Fluorene	BQL	10.0	1.22	1	1/31/2008	
Hexachlorobenzene	BQL	10.0	1.22	1	1/31/2008	
Hexachlorobutadiene	BQL	10.0	1.58	1	1/31/2008	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	1/31/2008	
Hexachloroethane	BQL	10.0	1.58	1	1/31/2008	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	1/31/2008	
Isophorone	BQL	10.0	1.27	1	1/31/2008	
Naphthalene	BQL	10.0	1.08	1	1/31/2008	
Nitrobenzene	BQL	10.0	1.32	1	1/31/2008	
2-Nitrophenol	BQL	10.0	3.52	1	1/31/2008	
4-Nitrophenol	BQL	50.0	3.17	1	1/31/2008	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	1/31/2008	
Pentachlorophenol	BQL	50.0	2.83	1	1/31/2008	
Phenanthrene	BQL	10.0	1.38	1	1/31/2008	

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTLCH4015-MW23
Client Project ID: NV018
Lab Sample ID: G650-130-2G
Lab Project ID: G650-130

Analyzed By: DCS
Date Collected: 1/23/2008 17:28
Date Received: 1/25/2008
Date Extracted: 1/28/2008
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Phenol	BQL	10.0	3.38	1	1/31/2008	
Pyrene	BQL	10.0	2.08	1	1/31/2008	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	1/31/2008	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	1/31/2008	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	8	80		
2-Fluorophenol		10	7.9	79		
Nitrobenzene-d5		10	8.1	81		
Phenol-d6		10	7.8	78		
2,4,6-Tribromophenol		10	8.2	82		
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: USTLCH4015-MW23
Client Project ID: NV018
Lab Sample ID: G650-130-2G
Lab Project ID: G650-130
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: DCS
Date Collected: 1/23/2008 17:28
Date Received: 1/25/2008
Date Extracted: 1/28/2008
Date Analyzed: 1/31/2008
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Unknown	15.22			7.16
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: USTLCH4015-MW20
Client Project ID: NV018
Lab Sample ID: G650-130-3G
Lab Project ID: G650-130

Analyzed By: DCS
Date Collected: 1/24/2008 8:45
Date Received: 1/25/2008
Date Extracted: 1/28/2008
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	1/31/2008	
Acenaphthylene	BQL	10.0	1.12	1	1/31/2008	
Anthracene	BQL	10.0	1.75	1	1/31/2008	
Benzo[a]anthracene	BQL	10.0	1.36	1	1/31/2008	
Benzo[a]pyrene	BQL	10.0	1.27	1	1/31/2008	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	1/31/2008	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	1/31/2008	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	1/31/2008	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	1/31/2008	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	1/31/2008	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	1/31/2008	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	1/31/2008	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	1/31/2008	
Butylbenzylphthalate	BQL	10.0	1.53	1	1/31/2008	
2-Chloronaphthalene	BQL	10.0	1.25	1	1/31/2008	
2-Chlorophenol	BQL	10.0	4.22	1	1/31/2008	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	1/31/2008	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	1/31/2008	
Chrysene	BQL	10.0	1.11	1	1/31/2008	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	1/31/2008	
Di-n-Butylphthalate	BQL	10.0	1.65	1	1/31/2008	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	1/31/2008	
2,4-Dichlorophenol	BQL	10.0	3.75	1	1/31/2008	
Diethylphthalate	BQL	10.0	1.48	1	1/31/2008	
Dimethylphthalate	BQL	10.0	1.04	1	1/31/2008	
2,4-Dimethylphenol	BQL	10.0	9.25	1	1/31/2008	
Di-n-octylphthalate	BQL	10.0	1.16	1	1/31/2008	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	1/31/2008	
2,4-Dinitrophenol	BQL	50.0	4.20	1	1/31/2008	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	1/31/2008	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	1/31/2008	
Diphenylamine *	BQL	10.0	1.53	1	1/31/2008	
Fluoranthene	BQL	10.0	1.41	1	1/31/2008	
Fluorene	BQL	10.0	1.22	1	1/31/2008	
Hexachlorobenzene	BQL	10.0	1.22	1	1/31/2008	
Hexachlorobutadiene	BQL	10.0	1.58	1	1/31/2008	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	1/31/2008	
Hexachloroethane	BQL	10.0	1.58	1	1/31/2008	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	1/31/2008	
Isophorone	BQL	10.0	1.27	1	1/31/2008	
Naphthalene	BQL	10.0	1.08	1	1/31/2008	
Nitrobenzene	BQL	10.0	1.32	1	1/31/2008	
2-Nitrophenol	BQL	10.0	3.52	1	1/31/2008	
4-Nitrophenol	BQL	50.0	3.17	1	1/31/2008	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	1/31/2008	
Pentachlorophenol	BQL	50.0	2.83	1	1/31/2008	
Phenanthrene	BQL	10.0	1.38	1	1/31/2008	

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTLCH4015-MW20
Client Project ID: NV018
Lab Sample ID: G650-130-3G
Lab Project ID: G650-130

Analyzed By: DCS
Date Collected: 1/24/2008 8:45
Date Received: 1/25/2008
Date Extracted: 1/28/2008
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Phenol	BQL	10.0	3.38	1	1/31/2008	
Pyrene	BQL	10.0	2.08	1	1/31/2008	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	1/31/2008	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	1/31/2008	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	8.7	87		
2-Fluorophenol		10	7.8	78		
Nitrobenzene-d5		10	8.6	86		
Phenol-d6		10	9.1	91		
2,4,6-Tribromophenol		10	9.3	93		
4-Terphenyl-d14		10	9.7	97		

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: USTLCH4015-MW20
Client Project ID: NV018
Lab Sample ID: G650-130-3G
Lab Project ID: G650-130
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: DCS
Date Collected: 1/24/2008 8:45
Date Received: 1/25/2008
Date Extracted: 1/28/2008
Date Analyzed: 1/31/2008
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: USTLCH4015-Duplicate
Client Project ID: NV018
Lab Sample ID: G650-130-4G
Lab Project ID: G650-130

Analyzed By: DCS
Date Collected: 1/24/2008 0:00
Date Received: 1/25/2008
Date Extracted: 1/29/2008
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	2/1/2008	
Acenaphthylene	BQL	10.0	1.12	1	2/1/2008	
Anthracene	BQL	10.0	1.75	1	2/1/2008	
Benzo[a]anthracene	BQL	10.0	1.36	1	2/1/2008	
Benzo[a]pyrene	BQL	10.0	1.27	1	2/1/2008	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	2/1/2008	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	2/1/2008	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	2/1/2008	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	2/1/2008	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	2/1/2008	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	2/1/2008	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	2/1/2008	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	2/1/2008	
Butylbenzylphthalate	BQL	10.0	1.53	1	2/1/2008	
2-Chloronaphthalene	BQL	10.0	1.25	1	2/1/2008	
2-Chlorophenol	BQL	10.0	4.22	1	2/1/2008	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	2/1/2008	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	2/1/2008	
Chrysene	BQL	10.0	1.11	1	2/1/2008	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	2/1/2008	
Di-n-Butylphthalate	BQL	10.0	1.65	1	2/1/2008	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	2/1/2008	
2,4-Dichlorophenol	BQL	10.0	3.75	1	2/1/2008	
Diethylphthalate	BQL	10.0	1.48	1	2/1/2008	
Dimethylphthalate	BQL	10.0	1.04	1	2/1/2008	
2,4-Dimethylphenol	BQL	10.0	9.25	1	2/1/2008	
Di-n-octylphthalate	BQL	10.0	1.16	1	2/1/2008	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	2/1/2008	
2,4-Dinitrophenol	BQL	50.0	4.20	1	2/1/2008	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	2/1/2008	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	2/1/2008	
Diphenylamine *	BQL	10.0	1.53	1	2/1/2008	
Fluoranthene	BQL	10.0	1.41	1	2/1/2008	
Fluorene	BQL	10.0	1.22	1	2/1/2008	
Hexachlorobenzene	BQL	10.0	1.22	1	2/1/2008	
Hexachlorobutadiene	BQL	10.0	1.58	1	2/1/2008	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	2/1/2008	
Hexachloroethane	BQL	10.0	1.58	1	2/1/2008	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	2/1/2008	
Isophorone	BQL	10.0	1.27	1	2/1/2008	
Naphthalene	BQL	10.0	1.08	1	2/1/2008	
Nitrobenzene	BQL	10.0	1.32	1	2/1/2008	
2-Nitrophenol	BQL	10.0	3.52	1	2/1/2008	
4-Nitrophenol	BQL	50.0	3.17	1	2/1/2008	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	2/1/2008	
Pentachlorophenol	BQL	50.0	2.83	1	2/1/2008	
Phenanthrene	BQL	10.0	1.38	1	2/1/2008	

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTLCH4015-Duplicate
Client Project ID: NV018
Lab Sample ID: G650-130-4G
Lab Project ID: G650-130

Analyzed By: DCS
Date Collected: 1/24/2008 0:00
Date Received: 1/25/2008
Date Extracted: 1/29/2008
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Phenol	BQL	10.0	3.38	1	2/1/2008	
Pyrene	BQL	10.0	2.08	1	2/1/2008	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	2/1/2008	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	2/1/2008	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	8	80		
2-Fluorophenol		10	8.6	86		
Nitrobenzene-d5		10	9	90		
Phenol-d6		10	8.2	82		
2,4,6-Tribromophenol		10	8.1	81		
4-Terphenyl-d14		10	10.1	101		

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: USTLCH4015-Duplicate
Client Project ID: NV018
Lab Sample ID: G650-130-4G
Lab Project ID: G650-130
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: DCS
Date Collected: 1/24/2008 0:00
Date Received: 1/25/2008
Date Extracted: 1/29/2008
Date Analyzed: 2/1/2008
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: USTLCH4015-MW02
Client Project ID: NV018
Lab Sample ID: G650-130-5G
Lab Project ID: G650-130

Analyzed By: DCS
Date Collected: 1/24/2008 9:00
Date Received: 1/25/2008
Date Extracted: 1/29/2008
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	2/1/2008	
Acenaphthylene	BQL	10.0	1.12	1	2/1/2008	
Anthracene	BQL	10.0	1.75	1	2/1/2008	
Benzo[a]anthracene	BQL	10.0	1.36	1	2/1/2008	
Benzo[a]pyrene	BQL	10.0	1.27	1	2/1/2008	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	2/1/2008	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	2/1/2008	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	2/1/2008	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	2/1/2008	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	2/1/2008	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	2/1/2008	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	2/1/2008	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	2/1/2008	
Butylbenzylphthalate	BQL	10.0	1.53	1	2/1/2008	
2-Chloronaphthalene	BQL	10.0	1.25	1	2/1/2008	
2-Chlorophenol	BQL	10.0	4.22	1	2/1/2008	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	2/1/2008	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	2/1/2008	
Chrysene	BQL	10.0	1.11	1	2/1/2008	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	2/1/2008	
Di-n-Butylphthalate	BQL	10.0	1.65	1	2/1/2008	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	2/1/2008	
2,4-Dichlorophenol	BQL	10.0	3.75	1	2/1/2008	
Diethylphthalate	BQL	10.0	1.48	1	2/1/2008	
Dimethylphthalate	BQL	10.0	1.04	1	2/1/2008	
2,4-Dimethylphenol	BQL	10.0	9.25	1	2/1/2008	
Di-n-octylphthalate	BQL	10.0	1.16	1	2/1/2008	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	2/1/2008	
2,4-Dinitrophenol	BQL	50.0	4.20	1	2/1/2008	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	2/1/2008	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	2/1/2008	
Diphenylamine *	BQL	10.0	1.53	1	2/1/2008	
Fluoranthene	BQL	10.0	1.41	1	2/1/2008	
Fluorene	BQL	10.0	1.22	1	2/1/2008	
Hexachlorobenzene	BQL	10.0	1.22	1	2/1/2008	
Hexachlorobutadiene	BQL	10.0	1.58	1	2/1/2008	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	2/1/2008	
Hexachloroethane	BQL	10.0	1.58	1	2/1/2008	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	2/1/2008	
Isophorone	BQL	10.0	1.27	1	2/1/2008	
Naphthalene	23.4	10.0	1.08	1	2/1/2008	
Nitrobenzene	BQL	10.0	1.32	1	2/1/2008	
2-Nitrophenol	BQL	10.0	3.52	1	2/1/2008	
4-Nitrophenol	BQL	50.0	3.17	1	2/1/2008	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	2/1/2008	
Pentachlorophenol	BQL	50.0	2.83	1	2/1/2008	
Phenanthrene	BQL	10.0	1.38	1	2/1/2008	

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTLCH4015-MW02
Client Project ID: NV018
Lab Sample ID: G650-130-5G
Lab Project ID: G650-130

Analyzed By: DCS
Date Collected: 1/24/2008 9:00
Date Received: 1/25/2008
Date Extracted: 1/29/2008
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Phenol	BQL	10.0	3.38	1	2/1/2008	
Pyrene	BQL	10.0	2.08	1	2/1/2008	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	2/1/2008	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	2/1/2008	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	7.6	76		
2-Fluorophenol		10	9.3	93		
Nitrobenzene-d5		10	9.4	94		
Phenol-d6		10	8.9	89		
2,4,6-Tribromophenol		10	8.7	87		
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: USTLCH4015-MW02
Client Project ID: NV018
Lab Sample ID: G650-130-5G
Lab Project ID: G650-130
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: DES
Date Collected: 1/24/2008 9:00
Date Received: 1/25/2008
Date Extracted: 1/29/2008
Date Analyzed: 2/1/2008
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Unknown	4.17			290
2	Unknown	3.91			177
3	Unknown	6.89			61.8
4	Benzoic acid, 2,4,6-trimethyl-	6.54	000480-63-7	95	43.2
5	Unknown	6.80			34
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: USTLCH4015-MW22
Client Project ID: NV018
Lab Sample ID: G650-130-6G
Lab Project ID: G650-130

Analyzed By: DCS
Date Collected: 1/24/2008 9:40
Date Received: 1/25/2008
Date Extracted: 1/29/2008
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	2/1/2008	
Acenaphthylene	BQL	10.0	1.12	1	2/1/2008	
Anthracene	BQL	10.0	1.75	1	2/1/2008	
Benzo[a]anthracene	BQL	10.0	1.36	1	2/1/2008	
Benzo[a]pyrene	BQL	10.0	1.27	1	2/1/2008	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	2/1/2008	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	2/1/2008	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	2/1/2008	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	2/1/2008	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	2/1/2008	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	2/1/2008	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	2/1/2008	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	2/1/2008	
Butylbenzylphthalate	BQL	10.0	1.53	1	2/1/2008	
2-Chloronaphthalene	BQL	10.0	1.25	1	2/1/2008	
2-Chlorophenol	BQL	10.0	4.22	1	2/1/2008	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	2/1/2008	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	2/1/2008	
Chrysene	BQL	10.0	1.11	1	2/1/2008	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	2/1/2008	
Di-n-Butylphthalate	BQL	10.0	1.65	1	2/1/2008	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	2/1/2008	
2,4-Dichlorophenol	BQL	10.0	3.75	1	2/1/2008	
Diethylphthalate	BQL	10.0	1.48	1	2/1/2008	
Dimethylphthalate	BQL	10.0	1.04	1	2/1/2008	
2,4-Dimethylphenol	BQL	10.0	9.25	1	2/1/2008	
Di-n-octylphthalate	BQL	10.0	1.16	1	2/1/2008	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	2/1/2008	
2,4-Dinitrophenol	BQL	50.0	4.20	1	2/1/2008	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	2/1/2008	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	2/1/2008	
Diphenylamine *	BQL	10.0	1.53	1	2/1/2008	
Fluoranthene	BQL	10.0	1.41	1	2/1/2008	
Fluorene	BQL	10.0	1.22	1	2/1/2008	
Hexachlorobenzene	BQL	10.0	1.22	1	2/1/2008	
Hexachlorobutadiene	BQL	10.0	1.58	1	2/1/2008	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	2/1/2008	
Hexachloroethane	BQL	10.0	1.58	1	2/1/2008	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	2/1/2008	
Isophorone	BQL	10.0	1.27	1	2/1/2008	
Naphthalene	BQL	10.0	1.08	1	2/1/2008	
Nitrobenzene	BQL	10.0	1.32	1	2/1/2008	
2-Nitrophenol	BQL	10.0	3.52	1	2/1/2008	
4-Nitrophenol	BQL	50.0	3.17	1	2/1/2008	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	2/1/2008	
Pentachlorophenol	BQL	50.0	2.83	1	2/1/2008	
Phenanthrene	BQL	10.0	1.38	1	2/1/2008	

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTLCH4015-MW22
Client Project ID: NV018
Lab Sample ID: G650-130-6G
Lab Project ID: G650-130

Analyzed By: DCS
Date Collected: 1/24/2008 9:40
Date Received: 1/25/2008
Date Extracted: 1/29/2008
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Phenol	BQL	10.0	3.38	1	2/1/2008	
Pyrene	BQL	10.0	2.08	1	2/1/2008	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	2/1/2008	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	2/1/2008	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	7.9	79		
2-Fluorophenol		10	8.4	84		
Nitrobenzene-d5		10	8.9	89		
Phenol-d6		10	8.2	82		
2,4,6-Tribromophenol		10	8.3	83		
4-Terphenyl-d14		10	10	100		

Comments:

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

Flags:

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By: 

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

Client Sample ID: USTLCH4015-MW22
Client Project ID: NV018
Lab Sample ID: G650-130-6G
Lab Project ID: G650-130
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: DES
Date Collected: 1/24/2008 9:40
Date Received: 1/25/2008
Date Extracted: 1/29/2008
Date Analyzed: 2/1/2008
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: USTLCH4015-MW19
Client Project ID: NV018
Lab Sample ID: G650-130-7G
Lab Project ID: G650-130

Analyzed By: DCS
Date Collected: 1/24/2008 10:18
Date Received: 1/25/2008
Date Extracted: 1/29/2008
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	12.7	10.0	1.22	1	2/1/2008	
Acenaphthylene	BQL	10.0	1.12	1	2/1/2008	
Anthracene	BQL	10.0	1.75	1	2/1/2008	
Benzo[a]anthracene	BQL	10.0	1.36	1	2/1/2008	
Benzo[a]pyrene	BQL	10.0	1.27	1	2/1/2008	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	2/1/2008	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	2/1/2008	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	2/1/2008	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	2/1/2008	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	2/1/2008	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	2/1/2008	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	2/1/2008	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	2/1/2008	
Butylbenzylphthalate	BQL	10.0	1.53	1	2/1/2008	
2-Chloronaphthalene	BQL	10.0	1.25	1	2/1/2008	
2-Chlorophenol	BQL	10.0	4.22	1	2/1/2008	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	2/1/2008	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	2/1/2008	
Chrysene	BQL	10.0	1.11	1	2/1/2008	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	2/1/2008	
Di-n-Butylphthalate	BQL	10.0	1.65	1	2/1/2008	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	2/1/2008	
2,4-Dichlorophenol	BQL	10.0	3.75	1	2/1/2008	
Diethylphthalate	BQL	10.0	1.48	1	2/1/2008	
Dimethylphthalate	BQL	10.0	1.04	1	2/1/2008	
2,4-Dimethylphenol	BQL	10.0	9.25	1	2/1/2008	
Di-n-octylphthalate	BQL	10.0	1.16	1	2/1/2008	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	2/1/2008	
2,4-Dinitrophenol	BQL	50.0	4.20	1	2/1/2008	
2,4-Dinitrotoluene	20.3	10.0	1.52	1	2/1/2008	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	2/1/2008	
Diphenylamine *	BQL	10.0	1.53	1	2/1/2008	
Fluoranthene	BQL	10.0	1.41	1	2/1/2008	
Fluorene	BQL	10.0	1.22	1	2/1/2008	
Hexachlorobenzene	BQL	10.0	1.22	1	2/1/2008	
Hexachlorobutadiene	BQL	10.0	1.58	1	2/1/2008	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	2/1/2008	
Hexachloroethane	BQL	10.0	1.58	1	2/1/2008	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	2/1/2008	
Isophorone	BQL	10.0	1.27	1	2/1/2008	
Naphthalene	BQL	10.0	1.08	1	2/1/2008	
Nitrobenzene	BQL	10.0	1.32	1	2/1/2008	
2-Nitrophenol	BQL	10.0	3.52	1	2/1/2008	
4-Nitrophenol	BQL	50.0	3.17	1	2/1/2008	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	2/1/2008	
Pentachlorophenol	BQL	50.0	2.83	1	2/1/2008	
Phenanthrene	BQL	10.0	1.38	1	2/1/2008	

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTLCH4015-MW19
Client Project ID: NV018
Lab Sample ID: G650-130-7G
Lab Project ID: G650-130

Analyzed By: DCS
Date Collected: 1/24/2008 10:18
Date Received: 1/25/2008
Date Extracted: 1/29/2008
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Phenol	BQL	10.0	3.38	1	2/1/2008	
Pyrene	BQL	10.0	2.08	1	2/1/2008	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	2/1/2008	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	2/1/2008	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	7.2	72		
2-Fluorophenol		10	7.2	72		
Nitrobenzene-d5		10	8	80		
Phenol-d6		10	7.1	71		
2,4,6-Tribromophenol		10	7.7	77		
4-Terphenyl-d14		10	10	100		

Comments:

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

Flags:

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By: 

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

Client Sample ID: USTLCH4015-MW19
Client Project ID: NV018
Lab Sample ID: G650-130-7G
Lab Project ID: G650-130
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: DES
Date Collected: 1/24/2008 10:18
Date Received: 1/25/2008
Date Extracted: 1/29/2008
Date Analyzed: 2/1/2008
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: USTLCH4015-MW21

Client Project ID: NV018

Lab Sample ID: G650-130-8G

Lab Project ID: G650-130

Analyzed By: DCS

Date Collected: 1/24/2008 10:30

Date Received: 1/25/2008

Date Extracted: 1/29/2008

Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	2/1/2008	
Acenaphthylene	BQL	10.0	1.12	1	2/1/2008	
Anthracene	BQL	10.0	1.75	1	2/1/2008	
Benzo[a]anthracene	BQL	10.0	1.36	1	2/1/2008	
Benzo[a]pyrene	BQL	10.0	1.27	1	2/1/2008	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	2/1/2008	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	2/1/2008	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	2/1/2008	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	2/1/2008	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	2/1/2008	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	2/1/2008	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	2/1/2008	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	2/1/2008	
Butylbenzylphthalate	BQL	10.0	1.53	1	2/1/2008	
2-Chloronaphthalene	BQL	10.0	1.25	1	2/1/2008	
2-Chlorophenol	BQL	10.0	4.22	1	2/1/2008	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	2/1/2008	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	2/1/2008	
Chrysene	BQL	10.0	1.11	1	2/1/2008	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	2/1/2008	
Di-n-Butylphthalate	BQL	10.0	1.65	1	2/1/2008	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	2/1/2008	
2,4-Dichlorophenol	BQL	10.0	3.75	1	2/1/2008	
Diethylphthalate	BQL	10.0	1.48	1	2/1/2008	
Dimethylphthalate	BQL	10.0	1.04	1	2/1/2008	
2,4-Dimethylphenol	BQL	10.0	9.25	1	2/1/2008	
Di-n-octylphthalate	BQL	10.0	1.16	1	2/1/2008	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	2/1/2008	
2,4-Dinitrophenol	BQL	50.0	4.20	1	2/1/2008	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	2/1/2008	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	2/1/2008	
Diphenylamine *	BQL	10.0	1.53	1	2/1/2008	
Fluoranthene	BQL	10.0	1.41	1	2/1/2008	
Fluorene	BQL	10.0	1.22	1	2/1/2008	
Hexachlorobenzene	BQL	10.0	1.22	1	2/1/2008	
Hexachlorobutadiene	BQL	10.0	1.58	1	2/1/2008	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	2/1/2008	
Hexachloroethane	BQL	10.0	1.58	1	2/1/2008	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	2/1/2008	
Isophorone	BQL	10.0	1.27	1	2/1/2008	
Naphthalene	44.3	10.0	1.08	1	2/1/2008	
Nitrobenzene	BQL	10.0	1.32	1	2/1/2008	
2-Nitrophenol	BQL	10.0	3.52	1	2/1/2008	
4-Nitrophenol	BQL	50.0	3.17	1	2/1/2008	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	2/1/2008	
Pentachlorophenol	BQL	50.0	2.83	1	2/1/2008	
Phenanthrene	BQL	10.0	1.38	1	2/1/2008	

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTLCH4015-MW21
Client Project ID: NV018
Lab Sample ID: G650-130-8G
Lab Project ID: G650-130

Analyzed By: DCS
Date Collected: 1/24/2008 10:30
Date Received: 1/25/2008
Date Extracted: 1/29/2008
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Phenol	BQL	10.0	3.38	1	2/1/2008	
Pyrene	BQL	10.0	2.08	1	2/1/2008	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	2/1/2008	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	2/1/2008	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	7.7	78		
2-Fluorophenol		10	8.5	85		
Nitrobenzene-d5		10	9.2	92		
Phenol-d6		10	8.1	81		
2,4,6-Tribromophenol		10	8.6	86		
4-Terphenyl-d14		10	10.1	101		

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: USTLCH4015-MW21
Client Project ID: NV018
Lab Sample ID: G650-130-8G
Lab Project ID: G650-130
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: DES
Date Collected: 1/24/2008 10:30
Date Received: 1/25/2008
Date Extracted: 1/29/2008
Date Analyzed: 2/1/2008
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Aromatic, Unknown	4.16			97.2
2					
3					
4					
5					
6					
7					
8					
9					
10					

Comment:

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

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

Reviewed by: 

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTLCH4015-MW13
Client Project ID: NV018
Lab Sample ID: G650-130-9G
Lab Project ID: G650-130

Analyzed By: DCS
Date Collected: 1/24/2008 11:21
Date Received: 1/25/2008
Date Extracted: 1/29/2008
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	2/1/2008	
Acenaphthylene	BQL	10.0	1.12	1	2/1/2008	
Anthracene	BQL	10.0	1.75	1	2/1/2008	
Benzo[a]anthracene	BQL	10.0	1.36	1	2/1/2008	
Benzo[a]pyrene	BQL	10.0	1.27	1	2/1/2008	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	2/1/2008	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	2/1/2008	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	2/1/2008	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	2/1/2008	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	2/1/2008	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	2/1/2008	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	2/1/2008	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	2/1/2008	
Butylbenzylphthalate	BQL	10.0	1.53	1	2/1/2008	
2-Chloronaphthalene	BQL	10.0	1.25	1	2/1/2008	
2-Chlorophenol	BQL	10.0	4.22	1	2/1/2008	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	2/1/2008	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	2/1/2008	
Chrysene	BQL	10.0	1.11	1	2/1/2008	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	2/1/2008	
Di-n-Butylphthalate	BQL	10.0	1.65	1	2/1/2008	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	2/1/2008	
2,4-Dichlorophenol	BQL	10.0	3.75	1	2/1/2008	
Diethylphthalate	BQL	10.0	1.48	1	2/1/2008	
Dimethylphthalate	BQL	10.0	1.04	1	2/1/2008	
2,4-Dimethylphenol	BQL	10.0	9.25	1	2/1/2008	
Di-n-octylphthalate	BQL	10.0	1.16	1	2/1/2008	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	2/1/2008	
2,4-Dinitrophenol	BQL	50.0	4.20	1	2/1/2008	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	2/1/2008	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	2/1/2008	
Diphenylamine *	BQL	10.0	1.53	1	2/1/2008	
Fluoranthene	BQL	10.0	1.41	1	2/1/2008	
Fluorene	BQL	10.0	1.22	1	2/1/2008	
Hexachlorobenzene	BQL	10.0	1.22	1	2/1/2008	
Hexachlorobutadiene	BQL	10.0	1.58	1	2/1/2008	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	2/1/2008	
Hexachloroethane	BQL	10.0	1.58	1	2/1/2008	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	2/1/2008	
Isophorone	BQL	10.0	1.27	1	2/1/2008	
Naphthalene	BQL	10.0	1.08	1	2/1/2008	
Nitrobenzene	BQL	10.0	1.32	1	2/1/2008	
2-Nitrophenol	BQL	10.0	3.52	1	2/1/2008	
4-Nitrophenol	BQL	50.0	3.17	1	2/1/2008	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	2/1/2008	
Pentachlorophenol	BQL	50.0	2.83	1	2/1/2008	
Phenanthrene	BQL	10.0	1.38	1	2/1/2008	

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTLCH4015-MW13
Client Project ID: NV018
Lab Sample ID: G650-130-9G
Lab Project ID: G650-130

Analyzed By: DCS
Date Collected: 1/24/2008 11:21
Date Received: 1/25/2008
Date Extracted: 1/29/2008
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Phenol	BQL	10.0	3.38	1	2/1/2008	
Pyrene	BQL	10.0	2.08	1	2/1/2008	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	2/1/2008	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	2/1/2008	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	7.5	75		
2-Fluorophenol		10	8	80		
Nitrobenzene-d5		10	8.3	83		
Phenol-d6		10	7.7	77		
2,4,6-Tribromophenol		10	7.6	76		
4-Terphenyl-d14		10	9.5	95		

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: USTLCH4015-MW13
Client Project ID: NV018
Lab Sample ID: G650-130-9G
Lab Project ID: G650-130
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: DES
Date Collected: 1/24/2008 11:21
Date Received: 1/25/2008
Date Extracted: 1/29/2008
Date Analyzed: 2/1/2008
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: USTLCH4015-MW03
Client Project ID: NV018
Lab Sample ID: G650-130-10G
Lab Project ID: G650-130

Analyzed By: DCS
Date Collected: 1/24/2008 12:00
Date Received: 1/25/2008
Date Extracted: 1/29/2008
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	12.4	10.0	1.22	1	2/1/2008	
Acenaphthylene	BQL	10.0	1.12	1	2/1/2008	
Anthracene	BQL	10.0	1.75	1	2/1/2008	
Benzo[a]anthracene	BQL	10.0	1.36	1	2/1/2008	
Benzo[a]pyrene	BQL	10.0	1.27	1	2/1/2008	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	2/1/2008	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	2/1/2008	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	2/1/2008	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	2/1/2008	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	2/1/2008	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	2/1/2008	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	2/1/2008	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	2/1/2008	
Butylbenzylphthalate	BQL	10.0	1.53	1	2/1/2008	
2-Chloronaphthalene	BQL	10.0	1.25	1	2/1/2008	
2-Chlorophenol	BQL	10.0	4.22	1	2/1/2008	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	2/1/2008	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	2/1/2008	
Chrysene	BQL	10.0	1.11	1	2/1/2008	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	2/1/2008	
Di-n-Butylphthalate	BQL	10.0	1.65	1	2/1/2008	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	2/1/2008	
2,4-Dichlorophenol	BQL	10.0	3.75	1	2/1/2008	
Diethylphthalate	BQL	10.0	1.48	1	2/1/2008	
Dimethylphthalate	BQL	10.0	1.04	1	2/1/2008	
2,4-Dimethylphenol	BQL	10.0	9.25	1	2/1/2008	
Di-n-octylphthalate	BQL	10.0	1.16	1	2/1/2008	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	2/1/2008	
2,4-Dinitrophenol	BQL	50.0	4.20	1	2/1/2008	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	2/1/2008	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	2/1/2008	
Diphenylamine *	BQL	10.0	1.53	1	2/1/2008	
Fluoranthene	BQL	10.0	1.41	1	2/1/2008	
Fluorene	BQL	10.0	1.22	1	2/1/2008	
Hexachlorobenzene	BQL	10.0	1.22	1	2/1/2008	
Hexachlorobutadiene	BQL	10.0	1.58	1	2/1/2008	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	2/1/2008	
Hexachloroethane	BQL	10.0	1.58	1	2/1/2008	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	2/1/2008	
Isophorone	BQL	10.0	1.27	1	2/1/2008	
Naphthalene	BQL	10.0	1.08	1	2/1/2008	
Nitrobenzene	BQL	10.0	1.32	1	2/1/2008	
2-Nitrophenol	BQL	10.0	3.52	1	2/1/2008	
4-Nitrophenol	BQL	50.0	3.17	1	2/1/2008	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	2/1/2008	
Pentachlorophenol	BQL	50.0	2.83	1	2/1/2008	
Phenanthrene	BQL	10.0	1.38	1	2/1/2008	

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTLCH4015-MW03
Client Project ID: NV018
Lab Sample ID: G650-130-10G
Lab Project ID: G650-130

Analyzed By: DCS
Date Collected: 1/24/2008 12:00
Date Received: 1/25/2008
Date Extracted: 1/29/2008
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Phenol	BQL	10.0	3.38	1	2/1/2008	
Pyrene	BQL	10.0	2.08	1	2/1/2008	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	2/1/2008	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	2/1/2008	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	7.5	75		
2-Fluorophenol		10	8.4	84		
Nitrobenzene-d5		10	8.8	88		
Phenol-d6		10	8	80		
2,4,6-Tribromophenol		10	8.3	83		
4-Terphenyl-d14		10	9.4	94		

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: USTLCH4015-MW03
Client Project ID: NV018
Lab Sample ID: G650-130-10G
Lab Project ID: G650-130
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: DES
Date Collected: 1/24/2008 12:00
Date Received: 1/25/2008
Date Extracted: 1/29/2008
Date Analyzed: 2/1/2008
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Unknown	4.17			12.9
2	2,3-Dihydro-1-methylindene	4.94	027133-93-3	90	5.75
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: USTLCH4015-MW24

Client Project ID: NV018

Lab Sample ID: G650-130-11H

Lab Project ID: G650-130

Analyzed By: DCS

Date Collected: 1/24/2008 12:00

Date Received: 1/25/2008

Date Extracted: 1/29/2008

Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	13.1	10.0	1.22	1	2/1/2008	
Acenaphthylene	BQL	10.0	1.12	1	2/1/2008	
Anthracene	BQL	10.0	1.75	1	2/1/2008	
Benzo[a]anthracene	BQL	10.0	1.36	1	2/1/2008	
Benzo[a]pyrene	BQL	10.0	1.27	1	2/1/2008	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	2/1/2008	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	2/1/2008	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	2/1/2008	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	2/1/2008	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	2/1/2008	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	2/1/2008	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	2/1/2008	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	2/1/2008	
Butylbenzylphthalate	BQL	10.0	1.53	1	2/1/2008	
2-Chloronaphthalene	BQL	10.0	1.25	1	2/1/2008	
2-Chlorophenol	BQL	10.0	4.22	1	2/1/2008	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	2/1/2008	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	2/1/2008	
Chrysene	BQL	10.0	1.11	1	2/1/2008	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	2/1/2008	
Di-n-Butylphthalate	BQL	10.0	1.65	1	2/1/2008	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	2/1/2008	
2,4-Dichlorophenol	BQL	10.0	3.75	1	2/1/2008	
Diethylphthalate	BQL	10.0	1.48	1	2/1/2008	
Dimethylphthalate	BQL	10.0	1.04	1	2/1/2008	
2,4-Dimethylphenol	BQL	10.0	9.25	1	2/1/2008	
Di-n-octylphthalate	BQL	10.0	1.16	1	2/1/2008	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	2/1/2008	
2,4-Dinitrophenol	BQL	50.0	4.20	1	2/1/2008	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	2/1/2008	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	2/1/2008	
Diphenylamine *	BQL	10.0	1.53	1	2/1/2008	
Fluoranthene	BQL	10.0	1.41	1	2/1/2008	
Fluorene	2.70	10.0	1.22	1	2/1/2008	J
Hexachlorobenzene	BQL	10.0	1.22	1	2/1/2008	
Hexachlorobutadiene	BQL	10.0	1.58	1	2/1/2008	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	2/1/2008	
Hexachloroethane	BQL	10.0	1.58	1	2/1/2008	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	2/1/2008	
Isophorone	BQL	10.0	1.27	1	2/1/2008	
Naphthalene	BQL	10.0	1.08	1	2/1/2008	
Nitrobenzene	BQL	10.0	1.32	1	2/1/2008	
2-Nitrophenol	BQL	10.0	3.52	1	2/1/2008	
4-Nitrophenol	BQL	50.0	3.17	1	2/1/2008	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	2/1/2008	
Pentachlorophenol	BQL	50.0	2.83	1	2/1/2008	
Phenanthrene	BQL	10.0	1.38	1	2/1/2008	

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: USTLCH4015-MW24
Client Project ID: NV018
Lab Sample ID: G650-130-11H
Lab Project ID: G650-130

Analyzed By: DCS
Date Collected: 1/24/2008 12:00
Date Received: 1/25/2008
Date Extracted: 1/29/2008
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Phenol	BQL	10.0	3.38	1	2/1/2008	
Pyrene	BQL	10.0	2.08	1	2/1/2008	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	2/1/2008	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	2/1/2008	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	7.3	73		
2-Fluorophenol		10	7.9	79		
Nitrobenzene-d5		10	8.4	84		
Phenol-d6		10	7.5	75		
2,4,6-Tribromophenol		10	8.1	81		
4-Terphenyl-d14		10	8.9	89		

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: USTLCH4015-MW24
Client Project ID: NV018
Lab Sample ID: G650-130-11H
Lab Project ID: G650-130
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: DES
Date Collected: 1/24/2008 12:00
Date Received: 1/25/2008
Date Extracted: 1/29/2008
Date Analyzed: 2/1/2008
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Aromatic, Unknown	4.17			56.5
2	1H-Indene, 2,3-dihydro-4-methyl-	4.94	000824-22-6	97	38.4
3	Unknown	4.22			10.4
4	Naphthalene, 1,2,3,4-tetrahydro-5-methyl-	5.87	002809-64-5	90	7.64
5	Unknown	4.30			7.2
6	Aromatic, Unknown	4.28			5.61
7	Benzene, 1,2,4,5-tetramethyl-	4.70	000095-93-2	93	5.4
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: PB10240
Lab Project ID:

Analyzed By: DCS
Date Collected:
Date Received:
Date Extracted: 1/28/2008
Matrix: WATER

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	1/31/2008	
Acenaphthylene	BQL	10.0	1.12	1	1/31/2008	
Anthracene	BQL	10.0	1.75	1	1/31/2008	
Benzo[a]anthracene	BQL	10.0	1.36	1	1/31/2008	
Benzo[a]pyrene	BQL	10.0	1.27	1	1/31/2008	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	1/31/2008	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	1/31/2008	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	1/31/2008	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	1/31/2008	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	1/31/2008	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	1/31/2008	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	1/31/2008	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	1/31/2008	
Butylbenzylphthalate	BQL	10.0	1.53	1	1/31/2008	
2-Chloronaphthalene	BQL	10.0	1.25	1	1/31/2008	
2-Chlorophenol	BQL	10.0	4.22	1	1/31/2008	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	1/31/2008	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	1/31/2008	
Chrysene	BQL	10.0	1.11	1	1/31/2008	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	1/31/2008	
Di-n-Butylphthalate	BQL	10.0	1.65	1	1/31/2008	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	1/31/2008	
2,4-Dichlorophenol	BQL	10.0	3.75	1	1/31/2008	
Diethylphthalate	BQL	10.0	1.48	1	1/31/2008	
Dimethylphthalate	BQL	10.0	1.04	1	1/31/2008	
2,4-Dimethylphenol	BQL	10.0	9.25	1	1/31/2008	
Di-n-octylphthalate	BQL	10.0	1.16	1	1/31/2008	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	1/31/2008	
2,4-Dinitrophenol	BQL	50.0	4.20	1	1/31/2008	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	1/31/2008	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	1/31/2008	
Diphenylamine *	BQL	10.0	1.53	1	1/31/2008	
Fluoranthene	BQL	10.0	1.41	1	1/31/2008	
Fluorene	BQL	10.0	1.22	1	1/31/2008	
Hexachlorobenzene	BQL	10.0	1.22	1	1/31/2008	
Hexachlorobutadiene	BQL	10.0	1.58	1	1/31/2008	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	1/31/2008	
Hexachloroethane	BQL	10.0	1.58	1	1/31/2008	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	1/31/2008	
Isophorone	BQL	10.0	1.27	1	1/31/2008	
Naphthalene	BQL	10.0	1.08	1	1/31/2008	
Nitrobenzene	BQL	10.0	1.32	1	1/31/2008	
2-Nitrophenol	BQL	10.0	3.52	1	1/31/2008	
4-Nitrophenol	BQL	50.0	3.17	1	1/31/2008	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	1/31/2008	
Pentachlorophenol	BQL	50.0	2.83	1	1/31/2008	
Phenanthrene	BQL	10.0	1.38	1	1/31/2008	

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID: PB10240
Lab Project ID:

Analyzed By: DCS
Date Collected:
Date Received:
Date Extracted: 1/28/2008
Matrix: WATER

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Phenol	BQL	10.0	3.38	1	1/31/2008	
Pyrene	BQL	10.0	2.08	1	1/31/2008	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	1/31/2008	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	1/31/2008	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	8.3	83		
2-Fluorophenol		10	7.1	71		
Nitrobenzene-d5		10	8.4	84		
Phenol-d6		10	7.9	79		
2,4,6-Tribromophenol		10	9	90		
4-Terphenyl-d14		10	8.9	89		

Comments:

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

Flags:

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By: 



LABORATORY CONTROL SAMPLE SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: SGS Environmental Services, Inc.

Lab Code: NC00919

Case No.:

SAS No.:

SDG No:

Matrix: (soil/water) WATER

Lab Sample ID: LCS10240

Sample wt/vol: 0.5 (L)

Lab File ID: 0130A18.D

Level: (low/med) LOW

% Moisture: NA Decanted: (Y/N) NA

Date Analyzed: 01/31/08 15:54

Concentrated Extract Volume: 5000 (µL)

Dilution Factor: 1

Injection Volume: 1 (µL)

Extraction: (Type) CONT

GPC Cleanup: N

CAS NO.	COMPOUND	SPIKE AMT (µg/L)	SAMP CONC (µg/L)	% REC #	QC LIMITS
83-32-9	Acenaphthene	100	98.6	98.6	52.8-133
208-96-8	Acenaphthylene	100	112	112	52.1-145
120-12-7	Anthracene	100	87.6	87.6	50.1-138
56-55-3	Benzo[a]anthracene	100	95.1	95.1	50.6-152
50-32-8	Benzo[a]pyrene	100	93.5	93.5	46.5-154
205-99-2	Benzo[b]fluoranthene	100	97.9	97.9	49.9-144
191-24-2	Benzo[g,h,i]perylene	100	94.6	94.6	33.2-173
207-08-9	Benzo[k]fluoranthene	100	99.5	99.5	43.9-153
65-85-0	Benzoic Acid	100	128	128	23.8-164
100-51-6	Benzyl Alcohol	100	91.1	91.1	23.8-164
111-91-1	Bis(2-chloroethoxy)methane	100	88.8	88.8	51.0-134
111-44-4	Bis(2-chloroethyl)ether	100	92.0	92.0	48.8-122
108-60-1	Bis(2-chloroisopropyl)ether	100	86.3	86.3	50.5-126
117-81-7	Bis(2-ethylhexyl)phthalate	100	94.4	94.4	35.6-155
101-55-3	4-bromophenyl phenyl ether	100	88.3	88.3	47.1-138
85-68-7	Butylbenzylphthalate	100	93.3	93.3	53.2-145
106-47-8	4-Chloroaniline	100	64.2	64.2	0.00-212
59-50-7	4-Chloro-3-methylphenol	100	88.7	88.7	51.1-135
91-58-7	2-Chloronaphthalene	100	111	111	34.9-166
95-57-8	2-Chlorophenol	100	87.7	87.7	43.7-128
7005-72-3	4-Chlorophenyl phenyl ether	100	95.7	95.7	51.1-135
218-01-9	Chrysene	100	99.4	99.4	53.7-137
84-74-2	Di-n-Butylphthalate	100	92.0	92.0	58.0-140
117-84-0	Di-n-octylphthalate	100	95.8	95.8	30.9-159
53-70-3	Dibenzo[a,h]anthracene	100	86.3	86.3	0.00-208
132-64-9	Dibenzofuran	100	96.4	96.4	54.0-130
95-50-1	1,2-Dichlorobenzene	100	69.8	69.8	32.5-111
541-73-1	1,3-Dichlorobenzene	100	71.1	71.1	26.7-109
106-46-7	1,4-Dichlorobenzene	100	71.2	71.2	30.0-110
91-94-1	3,3'-Dichlorobenzidine	100	83.3	83.3	0.00-243
120-83-2	2,4-Dichlorophenol	100	82.5	82.5	47.5-133
84-66-2	Diethylphthalate	100	101	101	58.5-144
105-67-9	2,4-Dimethylphenol	100	85.1	85.1	5.40-141
131-11-3	Dimethylphthalate	100	95.0	95.0	55.7-140
534-52-1	4,6-Dinitro-2-methylphenol	100	99.7	99.7	60.0-139
51-28-5	2,4-Dinitrophenol	100	97.3	97.3	55.4-130
121-14-2	2,4-Dinitrotoluene	100	95.0	95.0	56.3-144
606-20-2	2,6-Dinitrotoluene	100	97.3	97.3	55.0-150
206-44-0	Fluoranthene	100	90.6	90.6	55.5-132
86-73-7	Fluorene	100	100	100	55.0-136
118-74-1	Hexachlorobenzene	100	91.2	91.2	49.9-139



LABORATORY CONTROL SAMPLE SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: SGS Environmental Services, Inc.

Lab Code: NC00919

Case No.:

SAS No.:

SDG No:

Matrix: (soil/water) WATER

Lab Sample ID: LCS10240

Sample wt/vol: 0.5 (L)

Lab File ID: 0130A18.D

Level: (low/med) LOW

% Moisture: NA Decanted: (Y/N) NA

Date Analyzed: 01/31/08 15:54

Concentrated Extract Volume: 5000 (µL)

Dilution Factor: 1

Injection Volume: 1 (µL)

Extraction: (Type) CONT

GPC Cleanup: N

CAS NO.	COMPOUND	SPIKE AMT (µg/L)	SAMP CONC (µg/L)	% REC #	QC LIMITS
87-68-3	Hexachlorobutadiene	100	74.4	74.4	37.9-123
77-47-4	Hexachlorocyclopentadiene	100	127	127	0.00-181
67-72-1	Hexachloroethane	100	68.4	68.4	20.3-112
193-39-5	Indeno(1,2,3-c,d)pyrene	100	88.1	88.1	22.5-158
78-59-1	Isophorone	100	87.9	87.9	58.0-146
90-12-0	1-Methylnaphthalene	100	92.0	92.0	52.2-134
91-57-6	2-Methylnaphthalene	100	90.8	90.8	40.4-120
95-48-7	2-Methylphenol	100	90.2	90.2	49.3-126
108-39-4	4-Methylphenol	200	165	82.5	75.6-244
621-64-7	N-Nitrosodi-n-propylamine	100	91.3	91.3	55.9-143
86-30-6	Diphenylamine	50.0	48.6	97.2	24.4-236
91-20-3	Naphthalene	100	81.9	81.9	35.6-130
88-74-4	2-Nitroaniline	100	93.9	93.9	55.0-139
99-09-2	3-Nitroaniline	100	83.7	83.7	0.00-286
100-01-6	4-Nitroaniline	100	77.9	77.9	0.00-238
98-95-3	Nitrobenzene	100	85.2	85.2	52.0-137
88-75-5	2-Nitrophenol	100	86.9	86.9	23.8-145
100-02-7	4-Nitrophenol	100	83.7	83.7	47.8-148
87-86-5	Pentachlorophenol	100	72.3	72.3	43.9-118
85-01-8	Phenanthrene	100	92.3	92.3	53.6-136
108-95-2	Phenol	100	76.8	76.8	48.0-124
129-00-0	Pyrene	100	97.8	97.8	29.9-185
110-86-1	Pyridine	100	12.6	12.6	0.00-125
120-82-1	1,2,4-Trichlorobenzene	100	81.8	81.8	43.9-122
95-95-4	2,4,5-Trichlorophenol	100	94.6	94.6	51.1-140
88-06-2	2,4,6-Trichlorophenol	100	90.3	90.3	70.7-112



SGS ENVIRONMENTAL SERVICES, INC.

Paradigm Analytical Laboratories, INC.

3C

WATER SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SGS Environmental Services, Inc.

Contract:

Lab Code: NC00919

Case No.:

SAS No.:

SDG No.:

Matrix Spike - EPA Sample No.: G650-130-11

COMPOUND	SAMPLE CONC (µg/L)	MS SPIKE (µg/L)	MS CONC (µg/L)	MS % REC #	MSD SPIKE (µg/L)	MSD CONC (µg/L)	MSD % REC #	% RPD	QC LIMITS	
									RPD	REC
Acenaphthene	BQL	208	216	104	208	205	98.5	4.95	30	55.0-106
Acenaphthylene	BQL	208	240	115	208	222	107	7.65	30	62.0-119
Anthracene	BQL	208	191	91.6	208	187	89.6	2.21	30	44.0-96.0
Benzo[a]anthracene	BQL	208	211	102	208	207	99.4	2.09	30	50.0-109
Benzo[a]pyrene	BQL	208	195	93.8	208	203	97.4	3.77	30	39.0-100
Benzo[b]fluoranthene	BQL	208	209	100	208	215	103	3.24	30	34.0-105
Benzo[g,h,i]perylene	BQL	208	208	99.7	208	193	92.6	7.38	30	36.0-116
Benzo[k]fluoranthene	BQL	208	223	107	208	223	107	0.187	30	26.0-120
Benzoic Acid	BQL	208	351	168*	208	341	164*	2.77	30	44.0-107
Benzyl Alcohol	BQL	208	218	105*	208	176	84.6	21.1	30	62.0-104
Bis(2-chloroethoxy)methane	BQL	208	200	95.8	208	199	95.4	0.418	30	58.0-101
Bis(2-chloroethyl) ether	BQL	208	221	106*	208	190	91.3	14.9	30	47.0-93.0
Bis(2-chloroisopropyl) ether	BQL	208	205	98.3	208	190	91.3	7.38	30	58.0-100
Bis(2-ethylhexyl)phthalate	BQL	208	210	101	208	218	104	3.51	30	46.0-131
4-bromophenyl phenyl ether	BQL	208	193	92.5	208	186	89.5	3.30	30	36.0-112
Butylbenzylphthalate	BQL	208	198	95.0	208	206	98.9	4.02	30	54.0-117
4-Chloroaniline	BQL	208	89.0	42.7	208	89.8	43.1	0.932	30	12.0-198
4-Chloro-3-methylphenol	BQL	208	197	94.4	208	200	96.2	1.89	30	67.0-109
2-Chloronaphthalene	BQL	208	235	113*	208	226	109*	3.97	30	54.0-105
2-Chlorophenol	BQL	208	202	96.9*	208	183	88.0	9.63	30	59.0-95.0
4-Chlorophenyl phenyl ether	BQL	208	214	103	208	194	93.3	9.49	30	51.0-114
Chrysene	BQL	208	215	103	208	217	104	0.867	30	52.0-114
Di-n-Butylphthalate	BQL	208	201	96.7	208	196	94.1	2.73	30	53.0-111
Di-n-octylphthalate	BQL	208	211	101	208	231	111	9.23	30	22.0-113
Dibenzo[a,h]anthracene	BQL	208	219	105	208	194	93.3	12.0	30	33.0-117
Dibenzofuran	BQL	208	208	99.7	208	194	93.0	6.95	30	62.0-108
1,2-Dichlorobenzene	BQL	208	165	79.1	208	137	66.0	18.1	30	31.0-93.0
1,3-Dichlorobenzene	BQL	208	150	72.1	208	129	62.0	15.1	30	25.0-87.0
1,4-Dichlorobenzene	BQL	208	159	76.3	208	130	62.4	20.0	30	29.0-86.0
3,3'-Dichlorobenzidine	BQL	208	0.00	0.00*	208	0.00	0.00*	0.00*	30	10.0-383
2,4-Dichlorophenol	BQL	208	183	87.9	208	188	90.4	2.80	30	61.0-97.0
Diethylphthalate	BQL	208	213	102	208	197	94.4	7.74	30	65.0-102
2,4-Dimethylphenol	BQL	208	193	92.8	208	185	88.6	4.63	30	29.0-110
Dimethylphthalate	BQL	208	211	101*	208	203	97.6	3.72	30	61.0-100
4,6-Dinitro-2-methylphenol	BQL	208	231	111*	208	215	103	6.82	30	46.0-104
2,4-Dinitrophenol	BQL	208	222	107	208	214	103	3.82	30	47.0-109
2,4-Dinitrotoluene	BQL	208	210	101	208	203	97.3	3.63	30	63.0-103
2,6-Dinitrotoluene	BQL	208	219	105*	208	201	96.7	8.42	30	61.0-101
Fluoranthene	BQL	208	206	99.1	208	196	94.2	5.07	30	49.0-109
Fluorene	BQL	208	219	105	208	204	97.9	7.00	30	58.0-108
Hexachlorobenzene	BQL	208	198	95.1	208	193	92.5	2.77	30	38.0-114

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 1 out of 72 outside of limits

Spike Recovery: 16 out of 144 outside of limits

COMMENTS:

Paradigm Analytical Laboratories, INC.

3C

WATER SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SGS Environmental Services, Inc.

Contract:

Lab Code: NC00919

Case No. :

SAS No. :

SDG No. :

Matrix Spike - EPA Sample No.: G650-130-11

[illegible]

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 1 out of 72 outside of limits

Spike Recovery: 16 out of 144 outside of limits

COMMENTS :

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID: PB10251
Lab Project ID:

Analyzed By: DES
Date Collected:
Date Received:
Date Extracted: 1/29/2008
Matrix: WATER

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	1/30/2008	
Acenaphthylene	BQL	10.0	1.12	1	1/30/2008	
Anthracene	BQL	10.0	1.75	1	1/30/2008	
Benzo[a]anthracene	BQL	10.0	1.36	1	1/30/2008	
Benzo[a]pyrene	BQL	10.0	1.27	1	1/30/2008	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	1/30/2008	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	1/30/2008	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	1/30/2008	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	1/30/2008	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	1/30/2008	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	1/30/2008	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	1/30/2008	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	1/30/2008	
Butylbenzylphthalate	BQL	10.0	1.53	1	1/30/2008	
2-Chloronaphthalene	BQL	10.0	1.25	1	1/30/2008	
2-Chlorophenol	BQL	10.0	4.22	1	1/30/2008	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	1/30/2008	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	1/30/2008	
Chrysene	BQL	10.0	1.11	1	1/30/2008	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	1/30/2008	
Di-n-Butylphthalate	BQL	10.0	1.65	1	1/30/2008	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	1/30/2008	
2,4-Dichlorophenol	BQL	10.0	3.75	1	1/30/2008	
Diethylphthalate	BQL	10.0	1.48	1	1/30/2008	
Dimethylphthalate	BQL	10.0	1.04	1	1/30/2008	
2,4-Dimethylphenol	BQL	10.0	9.25	1	1/30/2008	
Di-n-octylphthalate	BQL	10.0	1.16	1	1/30/2008	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	1/30/2008	
2,4-Dinitrophenol	BQL	50.0	4.20	1	1/30/2008	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	1/30/2008	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	1/30/2008	
Diphenylamine *	BQL	10.0	1.53	1	1/30/2008	
Fluoranthene	BQL	10.0	1.41	1	1/30/2008	
Fluorene	BQL	10.0	1.22	1	1/30/2008	
Hexachlorobenzene	BQL	10.0	1.22	1	1/30/2008	
Hexachlorobutadiene	BQL	10.0	1.58	1	1/30/2008	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	1/30/2008	
Hexachloroethane	BQL	10.0	1.58	1	1/30/2008	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	1/30/2008	
Isophorone	BQL	10.0	1.27	1	1/30/2008	
Naphthalene	BQL	10.0	1.08	1	1/30/2008	
Nitrobenzene	BQL	10.0	1.32	1	1/30/2008	
2-Nitrophenol	BQL	10.0	3.52	1	1/30/2008	
4-Nitrophenol	BQL	50.0	3.17	1	1/30/2008	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	1/30/2008	
Pentachlorophenol	BQL	50.0	2.83	1	1/30/2008	
Phenanthrene	BQL	10.0	1.38	1	1/30/2008	

**Results for Semivolatiles
by GCMS 625**

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID: PB10251
Lab Project ID:

Analyzed By: DES
Date Collected:
Date Received:
Date Extracted: 1/29/2008
Matrix: WATER

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Phenol	BQL	10.0	3.38	1	1/30/2008	
Pyrene	BQL	10.0	2.08	1	1/30/2008	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	1/30/2008	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	1/30/2008	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	8.9	88		
2-Fluorophenol		10	7.4	74		
Nitrobenzene-d5		10	8.9	89		
Phenol-d6		10	8.1	81		
2,4,6-Tribromophenol		10	7.6	76		
4-Terphenyl-d14		10	12.2	122		

Comments:

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

Flags:

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By: 



LABORATORY CONTROL SAMPLE SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: SGS Environmental Services, Inc.

Lab Code: NC00919

Case No.:

SAS No.:

SDG No:

Matrix: (soil/water) WATER

Lab Sample ID: LCS10251

Sample wt/vol: 0.5 (L)

Lab File ID: 0130A18.D

Level: (low/med) LOW

% Moisture: NA Decanted: (Y/N) NA

Date Analyzed: 01/31/08 15:54

Concentrated Extract Volume: 5000 (µL)

Dilution Factor: 1

Injection Volume: 1 (µL)

Extraction: (Type) CONT

GPC Cleanup: N

CAS NO.	COMPOUND	SPIKE AMT (µg/L)	SAMP CONC (µg/L)	% REC #	QC LIMITS
83-32-9	Acenaphthene	100	98.6	98.6	52.8-133
208-96-8	Acenaphthylene	100	112	112	52.1-145
120-12-7	Anthracene	100	87.6	87.6	50.1-138
56-55-3	Benzo[a]anthracene	100	95.1	95.1	50.6-152
50-32-8	Benzo[a]pyrene	100	93.5	93.5	46.5-154
205-99-2	Benzo[b]fluoranthene	100	97.9	97.9	49.9-144
191-24-2	Benzo[g,h,i]perylene	100	94.6	94.6	33.2-173
207-08-9	Benzo[k]fluoranthene	100	99.5	99.5	43.9-153
65-85-0	Benzoic Acid	100	128	128	23.8-164
100-51-6	Benzyl Alcohol	100	91.1	91.1	23.8-164
111-91-1	Bis(2-chloroethoxy)methane	100	88.8	88.8	51.0-134
111-44-4	Bis(2-chloroethyl)ether	100	92.0	92.0	48.8-122
108-60-1	Bis(2-chloroisopropyl)ether	100	86.3	86.3	50.5-126
117-81-7	Bis(2-ethylhexyl)phthalate	100	94.4	94.4	35.6-155
101-55-3	4-bromophenyl phenyl ether	100	88.3	88.3	47.1-138
85-68-7	Butylbenzylphthalate	100	93.3	93.3	53.2-145
106-47-8	4-Chloroaniline	100	64.2	64.2	0.00-212
59-50-7	4-Chloro-3-methylphenol	100	88.7	88.7	51.1-135
91-58-7	2-Chloronaphthalene	100	111	111	34.9-166
95-57-8	2-Chlorophenol	100	87.7	87.7	43.7-128
7005-72-3	4-Chlorophenyl phenyl ether	100	95.7	95.7	51.1-135
218-01-9	Chrysene	100	99.4	99.4	53.7-137
84-74-2	Di-n-Butylphthalate	100	92.0	92.0	58.0-140
117-84-0	Di-n-octylphthalate	100	95.8	95.8	30.9-159
53-70-3	Dibenzo[a,h]anthracene	100	86.3	86.3	0.00-208
132-64-9	Dibenzofuran	100	96.4	96.4	54.0-130
95-50-1	1,2-Dichlorobenzene	100	69.8	69.8	32.5-111
541-73-1	1,3-Dichlorobenzene	100	71.1	71.1	26.7-109
106-46-7	1,4-Dichlorobenzene	100	71.2	71.2	30.0-110
91-94-1	3,3'-Dichlorobenzidine	100	83.3	83.3	0.00-243
120-83-2	2,4-Dichlorophenol	100	82.5	82.5	47.5-133
84-66-2	Diethylphthalate	100	101	101	58.5-144
105-67-9	2,4-Dimethylphenol	100	85.1	85.1	5.40-141
131-11-3	Dimethylphthalate	100	95.0	95.0	55.7-140
534-52-1	4,6-Dinitro-2-methylphenol	100	99.7	99.7	60.0-139
51-28-5	2,4-Dinitrophenol	100	97.3	97.3	55.4-130
121-14-2	2,4-Dinitrotoluene	100	95.0	95.0	56.3-144
606-20-2	2,6-Dinitrotoluene	100	97.3	97.3	55.0-150
206-44-0	Fluoranthene	100	90.6	90.6	55.5-132
86-73-7	Fluorene	100	100	100	55.0-136
118-74-1	Hexachlorobenzene	100	91.2	91.2	49.9-139



LABORATORY CONTROL SAMPLE SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: SGS Environmental Services, Inc.

Lab Code: NC00919

Case No.:

SAS No.:

SDG No:

Matrix: (soil/water) WATER

Lab Sample ID: LCS10251

Sample wt/vol: 0.5 (L)

Lab File ID: 0130A18.D

Level: (low/med) LOW

% Moisture: NA Decanted: (Y/N) NA

Date Analyzed: 01/31/08 15:54

Concentrated Extract Volume: 5000 (µL)

Dilution Factor: 1

Injection Volume: 1 (µL)

Extraction: (Type) CONT

GPC Cleanup: N

CAS NO.	COMPOUND	SPIKE AMT (µg/L)	SAMP CONC (µg/L)	% REC #	QC LIMITS
87-68-3	Hexachlorobutadiene	100	74.4	74.4	37.9-123
77-47-4	Hexachlorocyclopentadiene	100	127	127	0.00-181
67-72-1	Hexachloroethane	100	68.4	68.4	20.3-112
193-39-5	Indeno (1,2,3-c,d) pyrene	100	88.1	88.1	22.5-158
78-59-1	Isophorone	100	87.9	87.9	58.0-146
90-12-0	1-Methylnaphthalene	100	92.0	92.0	52.2-134
91-57-6	2-Methylnaphthalene	100	90.8	90.8	40.4-120
95-48-7	2-Methylphenol	100	90.2	90.2	49.3-126
108-39-4	4-Methylphenol	200	165	82.5	75.6-244
621-64-7	N-Nitrosodi-n-propylamine	100	91.3	91.3	55.9-143
86-30-6	Diphenylamine	50.0	48.6	97.2	24.4-236
91-20-3	Naphthalene	100	81.9	81.9	35.6-130
88-74-4	2-Nitroaniline	100	93.9	93.9	55.0-139
99-09-2	3-Nitroaniline	100	83.7	83.7	0.00-286
100-01-6	4-Nitroaniline	100	77.9	77.9	0.00-238
98-95-3	Nitrobenzene	100	85.2	85.2	52.0-137
88-75-5	2-Nitrophenol	100	86.9	86.9	23.8-145
100-02-7	4-Nitrophenol	100	83.7	83.7	47.8-148
87-86-5	Pentachlorophenol	100	72.3	72.3	43.9-118
85-01-8	Phenanthrene	100	92.3	92.3	53.6-136
108-95-2	Phenol	100	76.8	76.8	48.0-124
129-00-0	Pyrene	100	97.8	97.8	29.9-185
110-86-1	Pyridine	100	12.6	12.6	0.00-125
120-82-1	1,2,4-Trichlorobenzene	100	81.8	81.8	43.9-122
95-95-4	2,4,5-Trichlorophenol	100	94.6	94.6	51.1-140
88-06-2	2,4,6-Trichlorophenol	100	90.3	90.3	70.7-112



SGS ENVIRONMENTAL SERVICES, INC.

Paradigm Analytical Laboratories, INC.

3C

WATER SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SGS Environmental Services, Inc.

Contract:

Lab Code: NC00919

Case No.:

SAS No.:

SDG No.:

Matrix Spike - EPA Sample No.: G650-128-11H

COMPOUND	SAMPLE CONC (µg/L)	MS SPIKE (µg/L)	MS CONC (µg/L)	MS % REC #	MSD SPIKE (µg/L)	MSD CONC (µg/L)	MSD % REC #	% RPD	QC LIMITS	
									RPD	REC
Acenaphthene	12.7	278	194	69.7	278	203	73.1	4.76	30	55.0-106
Acenaphthylene	BQL	278	233	83.9	278	245	88.1	4.88	30	62.0-119
Anthracene	BQL	278	221	79.4	278	229	82.3	3.59	30	44.0-96.0
Benzo[a]anthracene	BQL	278	239	86.2	278	242	87.0	0.924	30	50.0-109
Benzo[a]pyrene	BQL	278	220	79.2	278	225	81.1	2.37	30	39.0-100
Benzo[b]fluoranthene	BQL	278	200	72.0	278	207	74.5	3.41	30	34.0-105
Benzo[g,h,i]perylene	BQL	278	249	89.8	278	255	91.9	2.31	30	36.0-116
Benzo[k]fluoranthene	BQL	278	243	87.5	278	252	90.7	3.59	30	26.0-120
Benzoic Acid	BQL	278	165	59.4	278	274	98.6	49.6*	30	44.0-107
Benzyl Alcohol	BQL	278	226	81.4	278	240	86.4	5.96	30	62.0-104
Bis(2-chloroethoxy)methane	BQL	278	252	90.7	278	266	95.6	5.26	30	58.0-101
Bis(2-chloroethyl)ether	BQL	278	234	84.4	278	252	90.7	7.20	30	47.0-93.0
Bis(2-chloroisopropyl)ether	BQL	278	230	82.7	278	243	87.5	5.64	30	58.0-100
Bis(2-ethylhexyl)phthalate	BQL	278	261	93.8	278	261	93.9	0.107	30	46.0-131
4-bromophenyl phenyl ether	BQL	278	213	76.8	278	222	80.0	4.08	30	36.0-112
Butylbenzylphthalate	BQL	278	234	84.3	278	236	84.9	0.709	30	54.0-117
4-Chloroaniline	BQL	278	191	68.6	278	193	69.6	1.45	30	12.0-198
4-Chloro-3-methylphenol	BQL	278	240	86.3	278	255	91.9	6.29	30	67.0-109
2-Chloronaphthalene	BQL	278	241	86.6	278	253	91.1	5.06	30	54.0-105
2-Chlorophenol	BQL	278	200	71.9	278	211	75.9	5.41	30	59.0-95.0
4-Chlorophenyl phenyl ether	BQL	278	224	80.5	278	237	85.2	5.67	30	51.0-114
Chrysene	BQL	278	243	87.6	278	243	87.5	0.114	30	52.0-114
Di-n-Butylphthalate	BQL	278	244	88.0	278	246	88.5	0.567	30	53.0-111
Di-n-octylphthalate	BQL	278	227	81.8	278	233	83.9	2.53	30	22.0-113
Dibenzo[a,h]anthracene	BQL	278	237	85.3	278	243	87.5	2.55	30	33.0-117
Dibenzofuran	BQL	278	202	72.7	278	214	77.0	5.74	30	62.0-108
1,2-Dichlorobenzene	BQL	278	147	52.9	278	159	57.2	7.81	30	31.0-93.0
1,3-Dichlorobenzene	BQL	278	134	48.4	278	145	52.2	7.55	30	25.0-87.0
1,4-Dichlorobenzene	BQL	278	140	50.3	278	151	54.3	7.65	30	29.0-86.0
3,3'-Dichlorobenzidine	BQL	278	203	73.0	278	198	71.3	2.36	30	10.0-383
2,4-Dichlorophenol	BQL	278	206	74.2	278	215	77.5	4.35	30	61.0-97.0
Diethylphthalate	BQL	278	232	83.5	278	241	86.9	3.99	30	65.0-102
2,4-Dimethylphenol	BQL	278	200	71.9	278	194	69.9	2.82	30	29.0-110
Dimethylphthalate	BQL	278	216	77.8	278	226	81.3	4.40	30	61.0-100
4,6-Dinitro-2-methylphenol	BQL	278	205	73.8	278	210	75.5	2.28	30	46.0-104
2,4-Dinitrophenol	BQL	278	157	56.6	278	162	58.4	3.13	30	47.0-109
2,4-Dinitrotoluene	BQL	278	204	73.3	278	214	76.9	4.79	30	63.0-103
2,6-Dinitrotoluene	BQL	278	216	77.7	278	230	82.9	6.48	30	61.0-101
Fluoranthene	BQL	278	228	81.9	278	233	84.0	2.53	30	49.0-109
Fluorene	BQL	278	242	87.0	278	254	91.4	4.93	30	58.0-108
Hexachlorobenzene	BQL	278	217	78.2	278	227	81.8	4.50	30	38.0-114

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 2 out of 72 outside of limits

Spike Recovery: 2 out of 144 outside of limits

COMMENTS:

3C

WATER SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: SGS Environmental Services, Inc.

Contract:

Lab Code: NC00919

Case No. :

SAS No. :

SDG No. :

Matrix Spike - EPA Sample No.: G650-128-11H

[illegible]

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 2 out of 72 outside of limits

Spike Recovery: 2 out of 144 outside of limits

COMMENTS :



Results for Metals

Client Sample ID: USTLCH4015-MW01
Client Project ID: NV018
Lab Sample ID: G650-130-1
Lab Project ID: G650-130
Batch ID: 10223

Analyzed By: PSW
Date Collected: 1/23/2008 18:13
Date Received: 1/25/2008
Matrix: WATER

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Lead	1.38	5.00	0.617	25	UG/L	6020	1/28/2008	J

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:


METALS



Results for Metals

Client Sample ID: USTLCH4015-MW23
Client Project ID: NV018
Lab Sample ID: G650-130-2
Lab Project ID: G650-130
Batch ID: 10223

Analyzed By: PSW
Date Collected: 1/23/2008 17:28
Date Received: 1/25/2008
Matrix: WATER

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Lead	BQL	5.00	0.617	25	UG/L	6020	1/28/2008	

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: 

METALS



Results for Metals

Client Sample ID: USTLCH4015-MW20
Client Project ID: NV018
Lab Sample ID: G650-130-3
Lab Project ID: G650-130
Batch ID: 10223

Analyzed By: PSW
Date Collected: 1/24/2008 8:45
Date Received: 1/25/2008
Matrix: WATER

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Lead	1.40	5.00	0.617	25	UG/L	6020	1/28/2008	J

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: 

METALS



Results for Metals

Client Sample ID: USTLCH4015-Duplicate
Client Project ID: NV018
Lab Sample ID: G650-130-4
Lab Project ID: G650-130
Batch ID: 10223

Analyzed By: PSW
Date Collected: 1/24/2008 0:00
Date Received: 1/25/2008
Matrix: WATER

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Lead	1.23	5.00	0.617	25	UG/L	6020	1/28/2008	J

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:



Results for Metals

Client Sample ID: USTLCH4015-MW02
Client Project ID: NV018
Lab Sample ID: G650-130-5
Lab Project ID: G650-130
Batch ID: 10223

Analyzed By: PSW
Date Collected: 1/24/2008 9:00
Date Received: 1/25/2008
Matrix: WATER

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Lead	1.08	5.00	0.617	25	UG/L	6020	1/28/2008	J

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:


METALS



Results for Metals

Client Sample ID: USTLCH4015-MW22
Client Project ID: NV018
Lab Sample ID: G650-130-6
Lab Project ID: G650-130
Batch ID: 10223

Analyzed By: PSW
Date Collected: 1/24/2008 9:40
Date Received: 1/25/2008
Matrix: WATER

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Lead	BQL	5.00	0.617	25	UG/L	6020	1/28/2008	

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: 

METALS



Results for Metals

Client Sample ID: USTLCH4015-MW19
Client Project ID: NV018
Lab Sample ID: G650-130-7
Lab Project ID: G650-130
Batch ID: 10223

Analyzed By: PSW
Date Collected: 1/24/2008 10:18
Date Received: 1/25/2008
Matrix: WATER

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Lead	BQL	5.00	0.617	25	UG/L	6020	1/28/2008	

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: 

METALS



Results for Metals

Client Sample ID: USTLCH4015-MW21
Client Project ID: NV018
Lab Sample ID: G650-130-8
Lab Project ID: G650-130
Batch ID: 10223

Analyzed By: PSW
Date Collected: 1/24/2008 10:30
Date Received: 1/25/2008
Matrix: WATER

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Lead	BQL	5.00	0.617	25	UG/L	6020	1/28/2008	

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: 

METALS



Results for Metals

Client Sample ID: USTLCH4015-MW13
Client Project ID: NV018
Lab Sample ID: G650-130-9
Lab Project ID: G650-130
Batch ID: 10223

Analyzed By: PSW
Date Collected: 1/24/2008 11:21
Date Received: 1/25/2008
Matrix: WATER

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Lead	BQL	5.00	0.617	25	UG/L	6020	1/28/2008	

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: 

METALS



Results for Metals

Client Sample ID: USTLCH4015-MW03
Client Project ID: NV018
Lab Sample ID: G650-130-10
Lab Project ID: G650-130
Batch ID: 10223

Analyzed By: PSW
Date Collected: 1/24/2008 12:00
Date Received: 1/25/2008
Matrix: WATER

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Lead	BQL	5.00	0.617	25	UG/L	6020	1/28/2008	

Comments

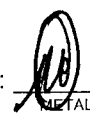
BQL = Below Quantitation Limits

DF = Dilution Factor

J = Between MDL and RL

B= Amount in Prep Blank > MDL

Samples Prepared by 3030C

Reviewed By: 

METALS



Results for Metals

Client Sample ID: USTLCH4015-MW24
Client Project ID: NV018
Lab Sample ID: G650-130-11
Lab Project ID: G650-130
Batch ID: 10223

Analyzed By: PSW
Date Collected: 1/24/2008 12:00
Date Received: 1/25/2008
Matrix: WATER

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Lead	BQL	5.00	0.617	25	UG/L	6020	1/28/2008	

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: _____





Results for Metals

Client Sample ID: Lab Blank
Client Project ID:
Lab Sample ID: pb10223
Lab Project ID:
Batch ID: 10223

Analyzed By: PSW
Date Collected:
Date Received:
Matrix: WATER

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Lead	BQL	5.00	0.617	25	UG/L	6020	1/28/2008	

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:


METALS



METALS Results for LCS/LCD

ICP Batch: 10223
HG Batch:
Other:

Matrix: WATER
Units: MG/L

Analyte	TRUE Value	LCS	LCS %REC		LCD	LCD %REC	Limit		RPD		RPD Limit
							Lower	Upper			
Lead	0.400	0.403	101		0.402	101	80	120	0.248		20

Reviewed By:



MS/MSD Results for METALS

Lab ID: G650-130-1
MS Lab ID: G650-130-1
MSD Lab ID: G650-130-1
ICP Batch: 10223
HG Batch:
Other:

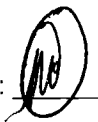
Analyzed By: PSW
Matrix: Water
Units: MG/L

Analyte	Sample Result	SA MS	MS Result	MS %REC	SA MSD	MSD Result	MSD %REC	Limit		RPD	RPD Limit
								Lower	Upper		
Lead	BQL	0.400	0.398	99.5	0.400	0.384	96.0	75	125	3.58	20

Comments

*=Out of Limits

NA = Not applicable, due to sample concentration greater than three times spike concentration

Reviewed By: 



CHAIN OF CUSTODY RECORD
SGS Environmental Services Inc.

Locations Nationwide
• Alaska
• Ohio
• New Jersey
• West Virginia
• Hawaii
• Maryland
• North Carolina
www.us.sgs.com



0931

1 CLIENT: Sovereign Consulting, Inc.
CONTACT: Amy Weir PHONE NO: (910) 358-0555
PROJECT: NV018 SITE/PWSID#: LCH4015
REPORTS TO: Chris Murray E-MAIL: cmurray@soucon.com
INVOICE TO: C. Murray QUOTE #
425 Oak Meads Crescent, Suite 1
VA Beach, VA 23462 P.O. NUMBER NV018

2

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX	No	CONTAINERS	SAMPLE TYPE	Preservatives Used	Analysis Required	REMARKS
	USTLCH4015-MW01	01/23/08	10:13	GW	5	G	G	1	1	Full 425 #3
	USTLCH4015-MW23	01/23/08	17:28	GW	5	G	G	1	1	REMOVED FROM PROJECT
	USTLCH4015-MW20	01/24/08	08:45	GW	5	G	G	1	1	FOR ANALYSIS 1/25/08
	USTLCH4015-Duplicate	01/24/08		GW	5	G	G	1	1	
	USTLCH4015-MW02	01/24/08	09:00	GW	5	G	G	1	1	
	USTLCH4015-MW22	01/24/08	09:40	GW	5	G	G	1	1	
	USTLCH4015-MW19	01/24/08	10:10	GW	5	G	G	1	1	
	USTLCH4015-MW21	01/24/08	10:30	GW	5	G	G	1	1	
	USTLCH4015-MW13	01/24/08	11:21	GW	5	G	G	1	1	
	USTLCH4015-MW03	01/24/08	12:00	GW	5	G	G	1	1	

3

Collected/Relinquished By: (1) Amy Weir Date 01/25/08 Time 2:10
Relinquished By: (2) [Signature] Date 01/25/08 Time 2:10

4

Relinquished By: (3) [Signature] Date 01/25/08 Time 2:10
Relinquished By: (4) [Signature] Date 01/25/08 Time 2:10

5

Shipping Carrier: UPS Shipping Ticket No: 425-585-560
Special Deliverable Requirements: EDD Format
Special Instructions: Email results "EDD format" to: cmurray@soucon.com / amweir@soucon.com
Requested Turnaround Time: 1/25/08
Date Needed: 1/25/08

6

Samples Received Cold? (Circle) YES NO
Temperature (C): 4.2, 5.8, 5.6
Chain of Custody Seal: (Circle) INTACT BROKEN
ABSENT

7

☐ RUSH ☒ STD

(1)			
CLIENT: Sovereign Consulting, Inc.			
CONTACT: Amy McNeil	PHONE NO.:(910) 388-0555		
PROJECT: NVO19	SITE/PWSID#: LCH4015		
REPORTS TO:	E-MAIL: cmurray@soicon.com		
CHRIS MURRAY	FAX NO.:()		
INVOICE TO: C. Murray		QUOTE #	
425 Oak Meigs Crescent Suite B		NVO19	
VIA Beach VA 23062			
(2)			
LAB NO.	SAMPLE IDENTIFICATION	DATE	MATRIX
	USTLCH4015-MW24	01/24/08	GW
	USTLCH4015-Trip Blank	01/23/08	TB
(5)			
Collected/Relinquished By: (1)	Date	Time	Received By:
Amy McNeil	01/25/08	2:10	[Signature]
Relinquished By: (2)	Date	Time	Received By:
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	Date	Time	Received By:

Collected/Relinquished By: (1)	Date	Time	Received By:	Date	Time	4 Shipping Carrier: Shipping Ticket No: Special Deliverable Requirements: EDD Format Special Instructions: Email results "EDD Format" to: cmurray@soncon.com / aweir@soncon.com Requested Turnaround Time: ☐ RUSH ☒ STD
August 11	012500	210	[Signature]	11/25/08	210	
Relinquished By: (2)	Date	Time	Received By:	Date	Time	
Relinquished By: (3)	Date	Time	Received By:	Date	Time	
Relinquished By: (4)	Date	Time	Received By:	Date	Time	

200 W. Potter Drive Anchorage, AK 99518 Tel: (907) 562-2343 Fax: (907) 561-5301
 5000 W. Potter Drive Anchorage, AK 99518 Tel: (907) 562-2343 Fax: (907) 561-5301

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

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

☐ 200 W. 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

APPENDIX C

FIELD DATA



CHAIN OF CUSTODY RECORD
SGS Environmental Services Inc.

- Locations Nationwide
- Alaska
 - Ohio
 - New Jersey
 - West Virginia
 - Hawaii
 - Maryland
 - North Carolina

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093106

1 CLIENT: <u>Superior Consulting, Inc</u>										SGS Reference:		PAGE <u>1</u> OF <u>2</u>							
CONTACT: <u>Amy Miller</u>										PHONE NO: <u>(910) 358-0225</u>									
PROJECT: <u>NV018</u>										SITE/PWSID#: <u>1CH4015</u>									
REPORTS TO: <u>Chris Murray</u>										E-MAIL: <u>cmurray@svwcon.com</u>									
INVOICE TO: <u>C. Murray</u>										QUOTE #									
425 Oakmeads Dr. Suite 1										P.O. NUMBER									
VA Beach, VA 23412										FAX NO: ()									
2										LAB NO.		SAMPLE IDENTIFICATION		DATE		TIME		MATRIX	
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												1STLCH4015-MW02		01/24/08		13:28		GM	
												1STLCH4015-MW03		01/24/08		10:45		GM	
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												1STLCH4015-MW150		01/24/08		12:00		GM	
												1STLCH4015-MW151		01/24/08		12:00		GM	

ashley@cs.cmu.edu

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

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

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

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

Date: 01/23/08
SITE: LCH 4015

Gauged By: S. Murray

WELL NUMBER	DEPTH TO BOTTOM MEASURED FROM TOC		TIME OF GAUGING	DEPTH TO WATER FROM TOP OF CASING	DEPTH TO LNAPL FROM TOP OF CASING	LNAPL THICKNESS	COMMENTS
	Installed	Measured					
USTLCH 4015-MW01		15.00	11:00	2.86			
USTLCH 4015-MW02		9.16	11:00	1.56			
USTLCH 4015-MW03		15.38	9:40	4.99			
USTLCH 4015-MW04		15.41	9:41	8.71			
USTLCH 4015-MW05		11.70	9:59	2.51			
USTLCH 4015-MW06		11.70	10:07	9.77			
USTLCH 4015-MW07		11.41	10:17	1.67			
USTLCH 4015-MW08		13.44	9:38	1.67			
USTLCH 4015-MW09		12.14	9:32	1.47			
USTLCH 4015-MW10		12.35	10:13	3.38			
USTLCH 4015-MW11		11.79	10:30	3.70			
USTLCH 4015-MW12		47.73	10:30	3.32			
USTLCH 4015-MW13		10.06	10:33	4.06			
USTLCH 4015-MW14		1.42	10:40	3.48			
USTLCH 4015-MW15		11.87	11:41	4.49			
USTLCH 4015-MW16							
USTLCH 4015-MW17							
USTLCH 4015-MW18		12.01	10:50	1.01			lost in gravel drive
USTLCH 4015-MW19		53.22	10:50	2.70			
USTLCH 4015-MW20		48.44	11:11	2.66			
USTLCH 4015-MW21		30.21	11:03	2.62			
USTLCH 4015-MW22		30.01	11:27	2.12			
USTLCH 4015-MW23		30.00	11:34	2.04			
USTLCH 4015-MW24		14.37	9:46	1.93			Unknown location/new well in parking area?

PURGING AND BAILING GROUNDWATER SAMPLING FORM
MCB Camp LeJeune and New River MCAS

Digitized by Google

ALL DEPTHS ARE TO BE COLLECTED FROM THE TOP OF THE CASING.

7

2.86
15.00

Low Flow Method

12308 / 1655

80

K/13 1123108

[illegible]

PURGING AND BAILING GROUNDWATER SAMPLING FORM
MCB Camp LeJeune and New River MCAS

Weather

cloudy 24.5°

Well Condition

900

ALL DEPTHS ARE TO BE COLLECTED FROM THE TOP OF THE CASING.

Inner Casing Diameter (inch)

4/13/73 (0.163) 1953

Water Column (feet)

7.k

Casing Volume (gal)

4.96

Purge/Sample Method:

Low Flow Method

Start Purge Date/Time:

1349 0805

Total Volume Purged (gal)

520

Sample Time/Date

124107 0900

Sampler Name

Handwritten initials: *AK* and *BW*

[illegible]

MCB Camp LeJeune and New River MCAS

cloudy 250

U5TLCH4015-MW03

2nd 9th (10-163) 453

10.47

489

1127107 1050

70

112407 1200

[Handwritten signature]

[illegible]

MCB Camp LeJeune and New River MCAS

NV018-001-02

LC 40.5

01.24.08

clear 40s

USTLCH415-MW19

USTLCH-4015-MW 19

good

ALL DEPTHS ARE TO BE COLLECTED FROM THE TOP OF THE CASING.

16" Manway

 $\frac{2}{n} (0.163)$ 

23.70

52.25

~~79.15~~ 79 55

4.105

Low Flow Method

01/24/08 0937

4.72

01/24/08 1010

AW|KR

Time	Rate (ml/min) 200-500ml	Cumulative Gallons Purged	pH	Conductivity ms/cm	Temp (°C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mv)	Comments
0937	500	0							
1000		3.0	7.18	0.407	20.63	0.45	3.46	-104.1	
1003			7.19	0.409	20.55	0.41	3.14	-103.3	
1006			7.18	0.412	20.57	0.37	8.09	-103.4	
1009			7.17	0.413	20.24	0.36	6.99	-103.5	
1012		4.75	7.17	0.413	20.62	0.37	7.46	-104.1	

[illegible]

[illegible]

MCB Camp LeJeune and New River MCAS

Weather

LC# 4015

1125104

Sunny & 50°

Well Condition

USTLCH4A15-MIN72

USTLCH4015-MW73

good

Protective Casing Diameter (inch).

Inner Casing Diameter (inch)

Depth to Product from TOC (feet):

Initial Depth to Water from TOC (feet):

Product Thickness (feet):

Total Depth from TOC (feet)

280 (0.163)

23.09

32.02

Water Column (feet)

Casing Volume (gal)

Purge/Sample Method

Start Purge Date/Time:

Total Volume Purged (gal)

Sample Time/Date

Sampler Name

8.92

146

Low Flow Method

112308 1650

12345678910111213141516171819202122232425262728293031323334353637383940414243444546474849505152535455565758596061626364656667686970717273747576777879808182838485868788899091929394959697989910010110210310410510610710810911011111211311411511611711811912012112212312412512612712812913013113213313413513613713813914014114214314414514614714814915015115215315415515615715815916016116216316416516616716816917017117217317417517617717817918018118218318418518618718818919019119219319419519619719819920020120220320420520620720820921021121221321421521621721821922022122222322422522622722822923023123223323423523623723823924024124224324424524624724824925025125225325425525625725825926026126226326426526626726826927027127227327427527627727827928028128228328428528628728828929029129229329429529629729829930030130230330430530630730830931031131231331431531631731831932032132232332432532632732832933033133233333433533633733833934034134234334434534634734834935035135235335435535635735835936036136236336436536636736836937037137237337437537637737837938038138238338438538638738838939039139239339439539639739839940040140240340440540640740840941041141241341441541641741841942042142242342442542642742842943043143243343443543643743843944044144244344444544644744844945045145245345445545645745845946046146246346446546646746846947047147247347447547647747847948048148248348448548648748848949049149249349449549649749849950050150250350450550650750850951051151251351451551651751851952052152252352452552652752852953053153253353453553653753853954054154254354454554654754854955055155255355455555655755855956056156256356456556656756856957057157257357457557657757857958058158258358458558658758858959059159259359459559659759859960060160260360460560660760860961061161261361461561661761861962062162262362462562662762862963063163263363463563663763863964064164264364464564664764864965065165265365465565665765865966066166266366466566666766866967067167267367467567667767867968068168268368468568668768868969069169269369469569669769869970070170270370470570670770870971071171271371471571671771871972072172272372472572672772872973073173273373473573673773873974074174274374474574674774874975075175275375475575675775875976076176276376476576676776876977077177277377477577677777877978078178278378478578678778878979079179279379479579679779879980080180280380480580680780880981081181281381481581681781881982082182282382482582682782882983083183283383483583683783883984084184284384484584684784884985085185285385485585685785885986086186286386486586686786886987087187287387487587687787887988088188288388488588688788888989089189289389489589689789889990090190290390490590690790890991091191291391491591691791891992092192292392492592692792892993093193293393493593693793893994094194294394494594694794894995095195295395495595695795895996096196296396496596696796896997097197297397497597697797897998098198298398498598698798898999099199299399499599699799899910001001100210031004100510061007100810091010101110121013101410151016101710181019102010211022102310241025102610271028102910301031103210331034103510361037103810391040104110421043104410451046104710481049105010511052105310541055105610571058105910601061106210631064106510661067106810691070107110721073107410751076107710781079108010811082108310841085108610871088108910901091109210931094109510961097109810991100110111021103110411051106110711081109111011111112111311141115111611171118111911201121112211231124112511261127112811291130113111321133113411351136113711381139114011411142114311441145114611471148114911501151115211531154115511561157115811591160116111621163116411651166116711681169117011711172117311741175117611771178117911801181118211831184118511861187118811891190119111921193119411951196119711981199120012011202120312041205120612071208120912101211121212131214121512161217121812191220122112221223122412251226122712281229123012311232123312341235123612371238123912401241124212431244124512461247124812491250125112521253125412551256125712581259126012611262126312641265126612671268126912701271127212731274127512761277127812791280128112821283128412851286128712881289129012911292129312941295129612971298129913001

2/26/84

[illegible]

Abstract

1974

1974



Locations Nationwide

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

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075974

[illegible]

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



CHAIN OF CUSTODY RECORD
SGS Environmental Services Inc.

Locations Nationwide
• Alaska • Hawaii
• Ohio • Maryland
• New Jersey • North Carolina
• West Virginia
www.us.sgs.com

075973

1 CLIENT: Sovereign Consulting Inc.
CONTACT: Karl Markle PHONE NO: (910) 358-0555
PROJECT: FT 21019 SITE/PWSID#: Bldg 4015
REPORTS TO: Chris Muller E-MAIL: cmuller@sovereign.com
425 Oak Ridge Parkway Suite 200
VA Beach VA 23062 FAX NO: (855) 454-5095
INVOICE TO: Same as above QUOTE #
P.O. NUMBER: 11019

SGS Reference:

No	SAMPLE TYPE	Preservatives Used	Analysis Required	Remarks
C	C	1 (C)	1 (AC)	
O	O	1 (C)	1 (AC)	
N	N	1 (C)	1 (AC)	
T	T	1 (C)	1 (AC)	
A	A	1 (C)	1 (AC)	
I	I	1 (C)	1 (AC)	
N	N	1 (C)	1 (AC)	
E	E	1 (C)	1 (AC)	
R	R	1 (C)	1 (AC)	
S	S	1 (C)	1 (AC)	

LAB NO	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX
1	ASTICH 4015-MW001	7/24/07	1636	GW
2	ASTICH 4015-MW001	7/24/07	1712	GW
3	ASTICH 4015-MW002	7/24/07	1757	GW
4	ASTICH 4015-MW006	7/24/07	1822	GW
5	ASTICH 4015-MW015	7/24/07	1901	GW
6	ASTICH 4015-MW008	7/25/07	0917	GW
7	ASTICH 4015-MW004	7/25/07	0939	GW
8	ASTICH 4015-MW005	7/25/07	1047	GW
9	ASTICH 4015-MW003	7/25/07	1117	GW
10	ASTICH 4015-MW009	7/25/07	1140	GW

2 Collected/Relinquished By: (1) [Signature] Date: 7/26/07 Time: 1555
Relinquished By: (2) [Signature] Date: 7/26/07 Time: 1555
Relinquished By: (3) [Signature] Date: 7/26/07 Time: 1555
Relinquished By: (4) [Signature] Date: 7/26/07 Time: 1555

3 Shipping Carrier: UPS Shipping Ticket No: 1350
Special Deliverable Requirements: FOB Consignee
Special Instructions: None

4 Samples Received Gold? (Circle) YES NO
Temperature (C): 16
Chain of Custody Seal: (Circle) INTACT BROKEN
Requested Turnaround Time: ASAP
☐ RUSH ☒ STD



CHAIN OF CUSTODY RECORD
SGS Environmental Services Inc.

Locations Nationwide
• Alaska • Hawaii
• Ohio • Maryland
• New Jersey • North Carolina
• West Virginia
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075972

1 CLIENT: Sovereign Consulting Inc
CONTACT: Kurt Merkle PHONE NO: (910) 358-0555
PROJECT: NVO19 SITE/PROJECT: Bldg LCH 4015
REPORTS TO: Chris Murray E-MAIL: cmurray@sovereign.com
INVOICE TO: same as above QUOTE # 42501 FAX NO: (910) 358-0555
P.O. NUMBER: NVO19

2

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX
	<u>WSTICH 4015-MW124</u>	<u>7/25/07</u>	<u>1207</u>	<u>GW</u>
	<u>WSTICH 4015-MW10</u>	<u>7/25/07</u>	<u>1206</u>	<u>GW</u>
	<u>WSTICH 4015-MW06</u>	<u>7/25/07</u>	<u>1306</u>	<u>GW</u>
	<u>WSTICH 4015-MW11</u>	<u>7/25/07</u>	<u>1306</u>	<u>GW</u>
	<u>WSTICH 4015-Duplicate</u>	<u>7/25/07</u>		<u>GW</u>

SGS Reference

No	SAMPLE TYPE	Preservatives Used	Analysis Required	HCL	AWC	REMARKS
C	C					
O	O					
N	N					
T	T					
A	A					
I	I					
N	N					
E	E					
R	R					
S	S					

3

4

5

Collected/Relinquished By: (1) [Signature] Date 7/25/07 Time 1555
Relinquished By: (2) [Signature] Date 7/25/07 Time 1555
Relinquished By: (3) [Signature] Date 7/25/07 Time 1555
Relinquished By: (4) [Signature] Date 7/25/07 Time 1555

Shipping Carrier: 5000 Shipping Ticket No: 5000
Special Deliverable Requirements: 5000
Special Instructions: 5000

Samples Received Cold? (Circle) YES NO
Temperature (C) 15
Chain of Custody Seal: (Circle) INTACT BROKEN
Requested Turnaround Time: 5000
Date Needed: 5000

White - Retained by Lab
Yellow - Returned with Report

MW14

Observations During Sampling (e.g. slow recharge, turbidity, odor, sheen, PID/FID readings, or change in pump interval setting):

Slight odor

Analysis	Method
Volatile Organics	602 w/xylenes
EDB	625-10 TCS
BNS/PAHs	
Total Metals	3030C lead
Dissolved Metals	

Stabilization Ranges

Dissolved Oxygen: no greater than 20% of saturation the the field temp

Turbidity: no greater than 20 NTUs

Specific Conductance: +/- 5% of reading

Temperature: +/- 2

pH: +/- 0.2 Standard Units

MW14

Observations During Sampling (e.g. slow recharge, turbidity, odor, sheen, PID/FID readings, or change in pump interval setting):

MW13

no odor

Analysis	Method
Volatile Organics	GC/MS w/xylenes
EDB SUOC	GC/MS
BNs/PAHs	
Total Metals	3030C lead
Dissolved Metals	

Stabilization Ranges

Dissolved Oxygen: no greater than 20% of saturation the the field temp

Turbidity: no greater than 20 NTUs

Specific Conductance: +/- 5% of reading

Temperature: +/-2

pH: +/- 0.2 Standard Units

MCB Camp LeJeune and New River MCAS

NV019

25 H 4015

7123107

Sunny - 69.5°

MW 2

~~WEST 401 DISTRICT 4015 - MW~~

ALL DEPTHS ARE TO BE COLLECTED FROM THE TOP OF THE CASING.

71

211

45

11.7

72

1. 2. 3.

Low Flow Method

712310 1510

463

7123107 1722

K. Kass

[illegible]

MW12

Observations During Sampling (e.g. slow recharge, turbidity, odor, sheen, PID/FID readings, or change in pump interval setting):

no odor

Analysis	Method
Volatile Organics	607 w/xylenes
EDB	625 + 10 TICS
BNs/PAHs	
Total Metals	3030 c lead
Dissolved Metals	

Stabilization Ranges

Dissolved Oxygen: no greater than 20% of saturation the the field temp

Turbidity: no greater than 20 NTUs

Specific Conductance: +/- 5% of reading

Temperature: +/- 2

pH: +/- 0.2 Standard Units

PURGING AND BAILING GROUNDWATER SAMPLING FORM
MCB Camp LeJeune and New River MCAS

Project Number:

Project Name:

Date: _____

Weather:

NV019

Well ID:

Sample ID:

Well Condition:

ALL DEPTHS ARE TO BE COLLECTED FROM THE TOP OF THE CASING.

Protective Casing Diameter (inch):

Inner Casing Diameter (inch):

Depth to Product from TOC (feet):

Initial Depth to Water from TOC (feet):

Product Thickness (feet):

Total Depth from TOC (feet):

Water Column (feet):

Casing Volume (gal):

Purge/Sample Method:

Start Purge Date/Time:

Total Volume Purged (gal):

Sample Time/Date

Sampler Name:

[illegible]

nw 21

Observations During Sampling (e.g. slow recharge, turbidity, odor, sheen, PID/FID readings, or change in pump interval setting):

slight odor

Analysis	Method
Volatile Organics	602 w/xylenes
EDB	425*10 TICS
BNs/PAHs	
Total Metals	3030C lead
Dissolved Metals	

Stabilization Ranges

Dissolved Oxygen: no greater than 20% of saturation the the field temp

Turbidity: no greater than 20 NTUs

Specific Conductance: +/- 5% of reading

Temperature: +/-2

pH: +/- 0.2 Standard Units

[illegible]

nw-19

Observations During Sampling (e.g. slow recharge, turbidity, odor, sheen, PID/FID readings, or change in pump interval setting):

no odor

Analysis	Method
Volatile Organics	602 w/Xylenes
EDB	625 + 10 TICs
BNs/PAHs	
Total Metals	3030C Lead
Dissolved Metals	

Stabilization Ranges

Dissolved Oxygen: no greater than 20% of saturation the the field temp

Turbidity: no greater than 20 NTUs

Specific Conductance: +/- 5% of reading

Temperature: +/-2

pH: +/- 0.2 Standard Units

PURGING AND BAILING GROUNDWATER SAMPLING FORM

MCB Camp LeJeune and New River MCAS

Project Number: NV019
 Project Name: Bldg 4015
 Date: 7/24/07
 Weather: Sunny & 90°

Well ID: MW18
 Sample ID: WSTICH4015-MW18
 Well Condition: good

ALL DEPTHS ARE TO BE COLLECTED FROM THE TOP OF THE CASING.

Protective Casing Diameter (inch): 12.4
 Inner Casing Diameter (inch): 2"
 Depth to Product from TOC (feet): NA
 Initial Depth to Water from TOC (feet): 2.54
 Product Thickness (feet): NA
 Total Depth from TOC (feet): 12.0

Water Column (feet): 9.46
 Casing Volume (gal): 1.64
 Purge/Carbide Method: Low Flow Method
 Start Purge Date/Time: 7/24/07 0940
 Total Volume Purged (gal): 2.35
 Sample Time/Date: 7/24/07 1025
 Sampler Name: K. Reggs

Time	Rate (ml/min) (100-500ml)	Cumulative Gallons Purged	pH	Conductivity <u>456</u>	Temp (°C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mv)	OTW (ft)	Comments
0943	450	0								
0946	250	1.25							4.01	
1013	250	1.75	6.34	483	28.95	0.35	2.26	-0.7	3.42	
1016	250	-	6.32	485	28.96	0.57	3.59	-11.2	3.41	
1019	250	-	6.31	485	29.03	0.61	4.25	-15.1	3.41	
1022	250	2.25	6.28	485	28.89	0.44	3.91	-12.1	3.41	
1025	250	2.35	6.27	483	28.80	0.40	2.83	-10.9	3.41	

nwi8

Observations During Sampling (e.g. slow recharge, turbidity, odor, sheen, PID/FID readings, or change in pump interval setting):

no odor

Analysis	Method
Volatile Organics	602 w/ Xylenes
EDB	625 4/10 TICS
BNs/PAHs	
Total Metals	3030C Lead
Dissoived Metals	

Stabilization Ranges

Dissolved Oxygen: no greater than 20% of saturation the the field temp

Turbidity: no greater than 20 NTUs

Specific Conductance: +/- 5% of reading

Temperature: +/- 2

pH: +/- 0.2 Standard Units

Project Number: NV019

Project Name: Bldg 4015

Date: 7/24/07

Weather: Sunny & 90°

Well ID: MW22

Sample ID: US1LCH 9015 MW22

Well Condition: good

Protective Casing Diameter (inch): 12"
 Inner Casing Diameter (inch): 2"
 Depth to Product from TOC (feet): NA
 Initial Depth to Water from TOC (feet): 21.32
 Product Thickness (feet): NA
 Total Depth from TOC (feet): 32.5

Water Column (feet): 11.18
Casing Volume (gal): 1.82
Purge/Sample Method: Low Flow Method
Start Purge Date/Time: 7/24/07 1055
Total Volume Purged (gal): 3.0
Sample Time/Date: 7/24/07 1124
Sampler Name: K. Riggs

[illegible]

MW22

Observations During Sampling (e.g. slow recharge, turbidity, odor, sheen, PID/FID readings, or change in pump interval setting):

Slight odor

Analysis	Method
Volatile Organics	602 w/Pylenes
EDB	62510 TICs
BNs/PAHs	
Total Metals	3030c Lead
Dissolved Metals	

Stabilization Ranges

Dissolved Oxygen: no greater than 20% of saturation the the field temp

Turbidity: no greater than 20 NTUs

Specific Conductance: +/- 5% of reading

Temperature: +/- 2

pH: +/- 0.2 Standard Units

Project Number	NVD19	Well ID	MW20
Project Name	Bldg 4015	Sample ID	WSTCH 4015-MW20
Date	7/2/07	Well Condition	good
Weather	Sunny-19°		

Protective Casing Diameter (inches)	12 ^W	Water Column (feet)	45.39
Inner Casing Diameter (inch)	2 ^W	Casing Volume (gal)	7.41
Depth to Product from TOC (feet)	NA	Purge/Sample Method	Low Flow Method
Initial Depth to Water from TOC (feet)	21.31	Start Purge Date/Time	7/24/07 1050
Product Thickness (feet)	NA	Total Volume Purged (gal)	8.20
Total Depth from TOC (feet)	66.7	Sample Time/Date	7/24/07 1212
		Sampler Name	K. Riggs

Time	Rate (ml/min) 250-500ml	Cumulative Gallons Purged	pH	Conductivity ms/cm	Temp (°C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mv)	DTW (ft)	Comments
1050	500	0								
1200	500	7.0	5.99	464	22.62	.37	22.2	-185.3	21.82	
1203	500	—	5.97	464	22.68	.43	11.1	-141.1	21.82	
1206	500	—	5.99	467	23.00	.47	5.88	-153.0	21.82	
1209	500	8.0	6.00	464	22.76	.044	2.71	-159.1	21.82	
1212	500	8.20	6.01	~~464~~ 464	22.72	.048	3.93	-162.3	21.82	

MW20

Observations During Sampling (e.g. slow recharge, turbidity, odor, sheen, PID/FID readings, or change in pump interval setting):

no odor

Analysis	Method
Volatile Organics	602 w/84 lenses
EDB	625 +10 TIC5
BNS/PAHs	
Total Metals	3030C lead
Dissolved Metals	

Stabilization Ranges

Dissolved Oxygen: no greater than 20% of saturation the the field temp

Turbidity: no greater than 20 NTUs

Specific Conductance: +/- 5% of reading

Temperature: +/- 2

pH: +/- 0.2 Standard Units

[illegible]

MW02

Observations During Sampling (e.g. slow recharge, turbidity, odor, sheen, PID/FID readings, or change in pump interval setting):

Slight odor - light sheen

Analysis	Method
Volatile Organics	402 w/Pylenes
EDB	425 + 10 TICS
BNs/PAHs	
Total Metals	3030C lead
Dissolved Metals	

Stabilization Ranges

Dissolved Oxygen: no greater than 20% of saturation the the field temp

Turbidity: no greater than 20 NTUs

Specific Conductance: +/- 5% of reading

Temperature: +/- 2

pH: +/- 0.2 Standard Units

Project Number	NV019	Well ID	MW16
Project Name	B2dg H015	Sample ID	USTICH 4015-MW16
Date	2/24/07	Well Condition	good
Weather	Sunny + 90°		

Protective Casing Diameter (inch):	8"	Water Column (feet):	9.14
Inner Casing Diameter (inch):	2"	Casing Volume (gal):	1.99
Depth to Product from TOC (feet):	NA	Purge/Sample Method:	Low Flow Method
Initial Depth to Water from TOC (feet):	2.71	Start Purge Date/Time:	7/24/07 1335
Product Thickness (feet):	NA	Total Volume Purged (gal):	4.20
Total Depth from TOC (feet):	11.90	Sample Time/Date:	7/24/07 1722
		Sampler Name:	K. Rogers

Time	Rate (ml/min) 200-500ml	Cumulative Gallons Purged	pH	Conductivity ~~25°C~~ µmS/cm	Temp (°C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mv)	DTW (ft)	Comments
1735	500	0							3.24	
1800	500	2.50							3.24	
1810	500	3.50	4946	472	26.43	0.90	0.86	325.6	3.24	
1813	500	—	4.55	484	25.83	0.66	0.59	429.9	3.24	
1816	500	—	4.52	487	25.57	0.62	0.23	443.9	3.24	
1819	500	4.50	4.50	491	25.39	0.52	0.47	450.1	3.74	
1822	500	4.70	4.52	494	25.35	0.48	0.62	459.2	3.74	

AW16

Observations During Sampling (e.g. slow recharge, turbidity, odor, sheen, PID/FID readings, or change in pump interval setting):

no odor

Analysis	Method
Volatile Organics	GC/MS w/ FID
EDB	GC/MS
BNs/PAHs	GC/MS
Total Metals	3030c lead
Dissolved Metals	

Stabilization Ranges

Dissolved Oxygen: no greater than 20% of saturation the the field temp
 Turbidity: no greater than 20 NTUs
 Specific Conductance: +/- 5% of reading
 Temperature: +/- 2
 pH: +/- 0.2 Standard Units

Project Number:	NV019	Well ID:	MW07
Project Name:	Bldg 4015	Sample ID:	U374CH4015-MW07
Date:	7/29/07	Well Condition:	Good
Weather:	Sunny 190°		

Protective Casing Diameter (inch)	8.4	Water Column (feet)	8.48
Inner Casing Diameter (inch)	2.1	Casing Volume (gal)	1.38
Depth to Product from TOC (feet)	NA	Purge/Sample Method	Low Flow Method
Initial Depth to Water from TOC (feet)	Σ 42	Start Purge Date/Time	7/24/07 1725
Product Thickness (feet)	NA	Total Volume Purged (gal)	13.20
Total Depth from TOC (feet)	11.9	Sample Time/Date	7/24/07 1755
		Sampler Name	K. Borg

Time	Rate (ml/min) 200-600ml	Cumulative Gallons Purged	pH	Conductivity $\mu\text{S/cm}$ 1000cm	Temp (°C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mv)	DTW (ft)	Comments
1725	500	0							3.81	
1745	500	2.0	5.55	299	29.97	0.51	4.98	242.4	3.81	
1748	500	-	5.41	280	29.79	0.48	3.90	256.9	3.81	
1751	500	-	5.24	262	29.50	0.48	4.20	302.4	3.81	
1754	500	3.0	5.20	257	29.46	0.41	3.78	310.5	3.81	
1757	500	3.20	5.22	253	29.37	0.45	3.51	314.7	3.81	

MW07

Observations During Sampling (e.g. slow recharge, turbidity, odor, sheen, PID/FID readings, or change in pump interval setting):

no odor

Analysis	Method
Volatile Organics	1002 w/Pybans
EDB	625 710 TICs
BNs/PAHs	
Total Metals	3030 a lead
Dissolved Metals	

Stabilization Ranges

- Dissolved Oxygen: no greater than 20% of saturation the the field temp
- Turbidity: no greater than 20 NTUs
- Specific Conductance: +/- 5% of reading
- Temperature: +/-2
- pH: +/- 0.2 Standard Units

MW01

Observations During Sampling (e.g. slow recharge, turbidity, odor, sheen, PID/FID readings, or change in pump interval setting):

Analysis	Method
Volatile Organics	602 w/ X4 lens
EDB	6025 w/ 10 TICS
BNs/PAHs	
Total Metals	3030C Lead
Dissolved Metals	

Stabilization Ranges

Dissolved Oxygen: no greater than 20% of saturation the the field temp

Turbidity: no greater than 20 NTUs

Specific Conductance: +/- 5% of reading

Temperature: +/- 2

pH: +/- 0.2 Standard Units

Project Number	NV019	Well ID:	MWD3
Project Name:	Bldg 4015	Sample ID	WSTLCH 4015-MWD3
Date	7/24/07	Well Condition	Good
Weather:	Sunny & 90°		
ALL DEPTHS ARE TO BE COLLECTED FROM THE TOP OF THE CASING.			
Protective Casing Diameter (inch):	12"	Water Column (feet):	10.36
Inner Casing Diameter (inch):	2"	Casing Volume (gal):	1169
Depth to Product from TOC (feet):	NA	Purge/Sample Method:	Low Flow Method
Initial Depth to Water from TOC (feet):	22.07	Start Purge Date/Time:	7/24/07 1545
Product Thickness (feet):	NA	Total Volume Purged (gal):	4.0
Total Depth from TOC (feet):	32.4	Sample Time/Date:	7/24/07 1636
		Sampler Name:	K. Rogers

Time	Rate (ml/min) 200-600ml	Cumulative Gallons Purged	pH	Conductivity $\mu S/cm$ 25°C	Temp (°C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	DTW (ft)	Comments
1545	500	0							22.36	
1605	500	2.0							22.36	
1612	400	2.50	4.82	2460	23.87	3.31	8.98	260.3	22.36	
1613	400	—	4.40	2462	23.10	2.98	8.45	314.5	22.36	
1618	400	—	4.02	2455	22.89	3.96	5.34	381.5	22.36	
1621	400	3.25	3.62	2449	22.22	2.97	4.33	434.1	22.29	
1624	400	—	3.47	2456	22.77	3.98	3.35	450.9	22.29	
1627	400	—	3.15	2453	22.77	3.81	2.81	486.1	22.29	
1630	400	3.75	3.09	2452	22.83	2.88	3.86	493.3	22.29	
1633	400	—	3.11	2453	22.87	2.83	4.11	498.1	22.29	
1636	400	4.00	3.09	2453	22.68	2.81	4.35	502.1	22.29	

Collect USTC 4015 - Duplicate

MW23

Observations During Sampling (e.g. slow recharge, turbidity, odor, sheen, PID/FID readings, or change in pump interval setting):

slight odor

Analysis	Method
Volatile Organics	402 w/ Vylene 5
EDB	425 + 10 TICs
BNS/PAHs	
Total Metals	3030c lead
Dissolved Metals	

Stabilization Ranges

Dissolved Oxygen: no greater than 20% of saturation the the field temp

Turbidity: no greater than 20 NTUs

Specific Conductance: +/- 5% of reading

Temperature: +/-2

pH: +/- 0.2 Standard Units

MW15

Observations During Sampling (e.g. slow recharge, turbidity, odor, sheen, PID/FID readings, or change in pump interval setting):
no odor

Analysis	Method
Volatile Organics	402 a/x/never
EDB	62511071CS
BNs/PAHs	
Total Metals	3030c Lead
Dissolved Metals	

Stabilization Ranges

Dissolved Oxygen: no greater than 20% of saturation the the field temp
Turbidity: no greater than 20 NTUs
Specific Conductance: +/- 5% of reading
Temperature: +/-2
pH: +/- 0.2 Standard Units

PURGING AND BAILING GROUNDWATER SAMPLING FORM
MCB Camp LeJeune and New River MCAS

Project Number: NW019
Project Name: Bldg 4015
Date: 7/25/07
Weather: Sunny & 90°

Well ID: MW08
Sample ID: USTCH4015-MW08
Well Condition: good

ALL DEPTHS ARE TO BE COLLECTED FROM THE TOP OF THE CASING.

Protective Casing Diameter (inch).	8 1/2
Inner Casing Diameter (inch):	2 1/2
Depth to Product from TOC (feet).	NA
Initial Depth to Water from TOC (feet):	2.91
Product Thickness (feet):	NA
Total Depth from TOC (feet):	12.5

Water Column (feet):	9.59
Casing Volume (gal)	1.57
Purge/Sample Method:	Low Flow Method
Start Purge Date/Time:	7/25/07 0845
Total Volume Purged (gal)	3.15
Sample Time/Date	7/25/07 0913
Sampler Name:	K. R. 995

[illegible]

MW08

Observations During Sampling (e.g. slow recharge, turbidity, odor, sheen, PID/FID readings, or change in pump interval setting):

no odor

Analysis	Method
Volatile Organics	UO2 w 1K4 lens
EDB	625 A 10 TIC
BNs/PAHs	
Total Metals	3030 C Lead
Dissolved Metals	

Stabilization Ranges

- Dissolved Oxygen: no greater than 20% of saturation the the field temp
- Turbidity: no greater than 20 NTUs
- Specific Conductance: +/- 5% of reading
- Temperature: +/-2
- pH: +/- 0.2 Standard Units

Project Number

Post Name:

Date: _____

Wang, Y. and J. Wang, 2005, 'The Effect of the Exchange Rate on the Trade Balance in China', *Journal of International Trade and Development*, 16(1), 1-14.

NY 019

Bridg 4015

7128107

Sunny & 90°

Well ID:

Sample 10:

No Comment

MUO

US TCH 4015 - MW04

9000

ALL DEPTHS ARE TO BE COLLECTED FROM THE TOP OF THE CASING.

Protective Casing Diameter (inch)

Inner Casing Diameter (inch):

Depth to Product from TOC (feet):

Initial Depth to Water from TOC (feet):

Product Thickness (feet)

Total Depth from TOC (feet):

64

276



202

NA

158

Water Column (feet):

Casing Volume (gal):

Purge/Sample Method

Start Purge Date/Time:

Total Volume Purged (gal)

Sample Time/Date

Sample Name:

878

573

Low Flow Method

7/25/07 0830

67

7125107 0930

K 12995

Time	Rate (ml/min) 200-500ml	Cumulative Gallons Purged	pH	Conductivity <i>uS/cm</i> uS/cm	Temp (°C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mv)	DTW (ft)	Comments
0830	500	0								
0930	500	6.0	4.66	164	22.87	0.62	1.41	435.7	7.21	
0933	400	—	4.53	163	22.73	0.36	1.70	427.9		
0936	400	—	4.51	163	22.70	0.32	1.70	422.4		
0939	400	6.75	4.51	163	22.69	0.29	1.72	423.4		

MW01

Observations During Sampling (e.g. slow recharge, turbidity, odor, sheen, PID/FID readings, or change in pump interval setting):

no odor

Analysis	Method
Volatile Organics	402 w/xylenes
EDB	425 + 10 TICs
BNs/PAHs	
Total Metals	3030c lead
Dissolved Metals	

Stabilization Ranges

- Dissolved Oxygen: no greater than 20% of saturation the the field temp
- Turbidity: no greater than 20 NTUs
- Specific Conductance: +/- 5% of reading
- Temperature: +/- 2
- pH: +/- 0.2 Standard Units

PURGING AND BAILING GROUNDWATER SAMPLING FORM
MCB Camp LeJeune and New River MCAS

Project Number:

NV019

Project Name:

LCH 4015

Date:

7/25/07

Weather:

Overcast 80's

Well ID:

MW05

Sample ID:

UST LCH 4015 - MW05

Well Condition:

Good

ALL DEPTHS ARE TO BE COLLECTED FROM THE TOP OF THE CASING.

Protective Casing Diameter (inch):

8" Manhole

Inner Casing Diameter (inch):

4"

Depth to Product from TOC (feet):

-

Initial Depth to Water from TOC (feet):

2.60

Product Thickness (feet):

-

Total Depth from TOC (feet):

11.75

Water Column (feet):

9.15

Casing Volume (gal):

5.95

Purge/Sample Method:

Low Flow Method

Start Purge Date/Time:

0948 - 7/25/07

Total Volume Purged (gal):

6.00

Sample Time/Date:

7/25/07 1097

Sampler Name:

RM, RR

Time	Rate (ml/min) 200-500ml	Cumulative Gallons Purged	pH	Conductivity mg/cm msem	Temp (°C)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mv)	DTW (ft)	Comments
948	Purging 500ml									
1007	Don. Purge	3.00 gal.							2.65	
1038	500	5.0 gal	5.07	483	25.81	0.79	0.83	144.0	2.63	
1041	500	-	5.07	478	25.76	0.80	2.13	128.7	-No draw down	
1044	500		5.06	477	25.75	0.78	1.76	120.6	↓	
1047	500	6.0	5.00	476	25.77	0.75	2.10	118.1	↓	

MW05

Observations During Sampling (e.g. slow recharge, turbidity, odor, sheen, PID/FID readings, or change in pump interval setting):

no odor

Analysis	Method
Volatile Organics	602 w/xylenes
EDB	625 - 10 TIC5
BNs/PAHs	
Total Metals	3030 c read
Dissolved Metals	

Stabilization Ranges

Dissolved Oxygen: no greater than 20% of saturation the the field temp

Turbidity: no greater than 20 NTUs

Specific Conductance: +/- 5% of reading

Temperature: +/-2

pH: +/- 0.2 Standard Units

MCB Camp LeJeune and New River MCAS

Weather:

Wldg LCH 4015
7/25/07
Overcast 80°'s

Well Condition:

Good

Inner Casing Diameter (inch):

8th March -
2nd PUC

Casing Volume (gal):

Purge/Sample Method:

Start Purge Date/Time:

Total Volume Purged (gal):

Sample Time/Date

Sampler Name:

9.35

1.50

Low Flow Method

~1/15/07 WAK

5.15

7/25/07 11:40

2K 24

Initial Depth to Water from TOC (feet):

Product Thickness (feet):

Total Depth from TOC (feet):

2.75

12

[illegible]

MCB Camp LeJeune and New River MCAS

NV019

Bldg LCH 4015

225102

Sunny $\sim 90^\circ$

MW03

USTLCH 4015 - MW03

5200

ALL DEPTHS ARE TO BE COLLECTED FROM THE TOP OF THE CASING.

28

407

NA

542



254

278

63

Low Flow Method

7/25/07 1005

7.15

7125182 1112

22.95

[illegible]

MW03

MW03

Observations During Sampling (e.g. slow recharge, turbidity, odor, sheen, PID/FID readings, or change in pump interval setting):

no odor

Analysis	Method
Volatile Organics	602 w/xylenes
EDB	625710 TICS
BNs/PAHs	
Total Metals	3030c lead
Dissolved Metals	

Stabilization Ranges

Dissolved Oxygen: no greater than 20% of saturation the the
 Turbidity: no greater than 20 NTUs
 Specific Conductance: +/- 5% of reading
 Temperature: +/-2
 pH: +/- 0.2 Standard Units

MCB Camp LeJeune and New River MCAS

NV019

LC# 4015

$$7125 \div 27$$

Our cast soc's

MW 24

USTLCH 4015 - MW 24

good

Protective Casing Diameter (inch):

8" Manhole

Inner Casing Diameter (inch):

21

Depth to Product from TOC (feet):

2. _____

Initial Depth to Water from TOC (feet):

202

Product Thickness (feet):

14.3

Total Depth from TOC (feet):

Water Column (feet):

12.28

Casing Volume (gal):

1.96

Purge/Sample Method:

Low Flow Method

Start Purge Date/Time:

7/25/07 11:30

Total Volume Purged (gal):

350

Sample Time/Date

7/25/01 1207

Sampler Name:

[illegible]

PURGING AND BAILING GROUNDWATER SAMPLING FORM
MCB Camp LeJeune and New River MCAS

Good

16

[illegible]

PURGING AND BAILING GROUNDWATER SAMPLING FORM
MCB Camp LeJeune and New River MCAS

Weather:

Good Overcast 80°'s

Well Condition:

Good

ALL DEPTHS ARE TO BE COLLECTED FROM THE TOP OF THE CASING.

Inner Casing Diameter (inch):

Initial Depth to Water from TOC (feet):

Product Thickness (feet):

Total Depth from TOC (feet):

Water Column (feet):

Casing Volume (gal):

Purge/Sample Method:

Start Purge Date/Time:

Total Volume Purged (gal):

Sample Time/Date

Sampler Name:

8.75

1.40

Low Flow Method

630

3.40 1.5 gal.

7/25/07 1300

22

[illegible]

[illegible]



- Alaska
- Ohio
- New Jersey
- West Virginia

Locations Nationwide

- Hawaii
- Maryland
- North Carolina

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078894

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

White - Retained by Lab



- Alaska
- Ohio
- New Jersey
- West Virginia

Locations Nationwide

- Hawaii
- Maryland
- North Carolina

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075974

SGS Reference: No SAMPLE TYPE C= COMP G= GRAB CONTAINERS						PRESERVATIVES USED ANALYSIS REQUIRED		HUN FROM AMOS		PAGE 1 OF 3	
REMARKS											

CLIENT: Sovereign Consulting Inc.		PHONE NO: (910) 358-0555		SITE/PWSID#: LCH4015	
CONTACT: Kait Munkle		E-MAIL: kmunkle@sovereign.com		FAX NO: (910) 358-0555	
PROJECT: MW19		QUOTE #		P.O. NUMBER 60079	
REPORTS TO: Chris Musgrave					
INVOICE TO: Same as above					

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX
	LCH4015-MW14	7/1/07	1559	CW
	LCH4015-TL66W	7/2/07		TB
	LCH4015-MW13	7/23/07	1438	CW
	LCH4015-MW12	7/23/07	1722	CW
	LCH4015-MW21	7/24/07	0933	CW
	LCH4015-MW19	7/24/07	1004	CW
	LCH4015-MW18	7/24/07	1025	CW
	LCH4015-MW22	7/24/07	1124	CW
	LCH4015-MW20	7/24/07	1212	CW
	LCH4015-MW02	7/24/07	1239	CW

Collected/Relinquished By: (1)		Date	Time	Received By:	Date	Time	Shipping Carrier:	Samples Received Cold? (Circle) YES NO	
[Signature]		7/2/07	1555	[Signature]	7/2/07	1555	USPS	YES	
Relinquished By: (2)		Date	Time	Received By:	Date	Time	Shipping Ticket No:	Temperature (C) _____ F _____	
Relinquished By: (3)		Date	Time	Received By:	Date	Time	Special Deliverable Requirements:	Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT	
							EOD Format	INTACT	
Relinquished By: (4)		Date	Time	Received By:	Date	Time	Special Instructions:		

Requested Turnaround Time:		☐ RUSH		Date Needed	
		☒ STD			

D 200 W. Potter Drive Anchorage, AK 99518 Tel: (907) 562-2343 Fax: (907) 561-5301
 J 5500 Business Drive Wilmington, NC 28405 Tel: (910) 350-1903 Fax: (910) 350-1557
 1270 Greenbrier Street Charleston, WV 25311 Tel: (304) 346-0725 Fax: (304) 346-0761

Write - Retained by Lab



Locations Nationwide

- Alaska
- Ohio
- New Jersey
- West Virginia

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075973

SGS Reference:										PAGE <u>2</u> OF <u>3</u>	
No	SAMPLE TYPE	Preservatives Used	100	100	100	100	100	100	100	100	100
CONTAINER											

[illegible]

Time	Shipping Carrier:	Samples Received Cold? (Circle) YES NO
Time	Shipping Ticket No:	Temperature (C):
Time	Special Deliverable Requirements:	Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT
Time	Special Instructions:	
Time	Requested Turnaround Time:	☐ RUSH ☒ STD

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

1270 Greenbrier Street Charleston, WV 25311 Tel: (304) 346-0725 Fax: (304) 348-0761

White - Retained by Lab
Yellow - Returned with Owner



CHAIN OF CUSTODY RECORD

SGS Environmental Services Inc.

Locations Nationwide
• Alaska
• Ohio
• New Jersey
• West Virginia
• Hawaii
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• North Carolina

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075972

SGS Reference:

PAGE 3 OF 3

1 CLIENT: Sovereign Consulting Inc
CONTACT: Jeff Mordt PHONE NO: (910) 358-0555
PROJECT: NU019 SITE/PROJECT ID: NU019
REPORTS TO: Chris Murray E-MAIL: cmurray@sovereign.com
INVOICE TO: same as above FAX NO: (910) 358-0555
QUOTE #
P.O. NUMBER NU019

2

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX
	<u>ASTICH 4015 - MW124</u>	<u>7/25/07</u>	<u>1207</u>	<u>GW</u>
	<u>ASTICH 4015 - MW124</u>	<u>7/25/07</u>	<u>1206</u>	<u>GW</u>
	<u>ASTICH 4015 - MW124</u>	<u>7/25/07</u>	<u>1306</u>	<u>GW</u>
	<u>ASTICH 4015 - MW124</u>	<u>7/25/07</u>	<u>1306</u>	<u>GW</u>
	<u>ASTICH 4015 - MW124</u>	<u>7/25/07</u>	<u>1306</u>	<u>GW</u>

5

Collected/Relinquished By: (1)	Date	Time	Received By:	Date	Time
<u>Jeff Mordt</u>	<u>7/25/07</u>	<u>1553</u>	<u>Chris Murray</u>	<u>7/25/07</u>	<u>1553</u>
Relinquished By: (2)	Date	Time	Received By:	Date	Time
Relinquished By: (3)	Date	Time	Received By:	Date	Time
Relinquished By: (4)	Date	Time	Received By:	Date	Time

No	SAMPLE TYPE	Preservatives Used	Analysis Required	REMARKS
1	C- COMP	HCL	3	100% HCL
2	C- COMP	HCL	3	100% HCL
3	C- COMP	HCL	3	100% HCL
4	C- COMP	HCL	3	100% HCL
5	C- COMP	HCL	3	100% HCL
6	C- COMP	HCL	3	100% HCL
7	C- COMP	HCL	3	100% HCL
8	C- COMP	HCL	3	100% HCL
9	C- COMP	HCL	3	100% HCL
10	C- COMP	HCL	3	100% HCL
11	C- COMP	HCL	3	100% HCL
12	C- COMP	HCL	3	100% HCL
13	C- COMP	HCL	3	100% HCL
14	C- COMP	HCL	3	100% HCL
15	C- COMP	HCL	3	100% HCL
16	C- COMP	HCL	3	100% HCL
17	C- COMP	HCL	3	100% HCL
18	C- COMP	HCL	3	100% HCL
19	C- COMP	HCL	3	100% HCL
20	C- COMP	HCL	3	100% HCL
21	C- COMP	HCL	3	100% HCL
22	C- COMP	HCL	3	100% HCL
23	C- COMP	HCL	3	100% HCL
24	C- COMP	HCL	3	100% HCL
25	C- COMP	HCL	3	100% HCL
26	C- COMP	HCL	3	100% HCL
27	C- COMP	HCL	3	100% HCL
28	C- COMP	HCL	3	100% HCL
29	C- COMP	HCL	3	100% HCL
30	C- COMP	HCL	3	100% HCL
31	C- COMP	HCL	3	100% HCL
32	C- COMP	HCL	3	100% HCL
33	C- COMP	HCL	3	100% HCL
34	C- COMP	HCL	3	100% HCL
35	C- COMP	HCL	3	100% HCL
36	C- COMP	HCL	3	100% HCL
37	C- COMP	HCL	3	100% HCL
38	C- COMP	HCL	3	100% HCL
39	C- COMP	HCL	3	100% HCL
40	C- COMP	HCL	3	100% HCL
41	C- COMP	HCL	3	100% HCL
42	C- COMP	HCL	3	100% HCL
43	C- COMP	HCL	3	100% HCL
44	C- COMP	HCL	3	100% HCL
45	C- COMP	HCL	3	100% HCL
46	C- COMP	HCL	3	100% HCL
47	C- COMP	HCL	3	100% HCL
48	C- COMP	HCL	3	100% HCL
49	C- COMP	HCL	3	100% HCL
50	C- COMP	HCL	3	100% HCL
51	C- COMP	HCL	3	100% HCL
52	C- COMP	HCL	3	100% HCL
53	C- COMP	HCL	3	100% HCL
54	C- COMP	HCL	3	100% HCL
55	C- COMP	HCL	3	100% HCL
56	C- COMP	HCL	3	100% HCL
57	C- COMP	HCL	3	100% HCL
58	C- COMP	HCL	3	100% HCL
59	C- COMP	HCL	3	100% HCL
60	C- COMP	HCL	3	100% HCL
61	C- COMP	HCL	3	100% HCL
62	C- COMP	HCL	3	100% HCL
63	C- COMP	HCL	3	100% HCL
64	C- COMP	HCL	3	100% HCL
65	C- COMP	HCL	3	100% HCL
66	C- COMP	HCL	3	100% HCL
67	C- COMP	HCL	3	100% HCL
68	C- COMP	HCL	3	100% HCL
69	C- COMP	HCL	3	100% HCL
70	C- COMP	HCL	3	100% HCL
71	C- COMP	HCL	3	100% HCL
72	C- COMP	HCL	3	100% HCL
73	C- COMP	HCL	3	100% HCL
74	C- COMP	HCL	3	100% HCL
75	C- COMP	HCL	3	100% HCL
76	C- COMP	HCL	3	100% HCL
77	C- COMP	HCL	3	100% HCL
78	C- COMP	HCL	3	100% HCL
79	C- COMP	HCL	3	100% HCL
80	C- COMP	HCL	3	100% HCL
81	C- COMP	HCL	3	100% HCL
82	C- COMP	HCL	3	100% HCL
83	C- COMP	HCL	3	100% HCL
84	C- COMP	HCL	3	100% HCL
85	C- COMP	HCL	3	100% HCL
86	C- COMP	HCL	3	100% HCL
87	C- COMP	HCL	3	100% HCL
88	C- COMP	HCL	3	100% HCL
89	C- COMP	HCL	3	100% HCL
90	C- COMP	HCL	3	100% HCL
91	C- COMP	HCL	3	100% HCL
92	C- COMP	HCL	3	100% HCL
93	C- COMP	HCL	3	100% HCL
94	C- COMP	HCL	3	100% HCL
95	C- COMP	HCL	3	100% HCL
96	C- COMP	HCL	3	100% HCL
97	C- COMP	HCL	3	100% HCL
98	C- COMP	HCL	3	100% HCL
99	C- COMP	HCL	3	100% HCL
100	C- COMP	HCL	3	100% HCL

4 Shipping Carrier: _____
Shipping Ticket No: _____
Special Deliverable Requirements: _____
Special Instructions: _____
Requested Turnaround Time: _____
☐ RUSH ☐ STD

Date Needed _____
Tel: (304) 346-0725 Fax: (304) 346-0781
1270 Greenbrier Street Charleston, WV 25311

White - Retained L...