

ADDITIONAL SOIL ASSESSMENT REPORT

**BUILDING 1114
HADNOT POINT FUEL FARM AREA**

**MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA**

DECEMBER 4, 2008



**Navy Contract No.: N62470-05-D-6200
Delivery Order No.: 0061
CATLIN Project No.: 208-037**

Prepared by:

**CATLIN Engineers and Scientists
P.O. Box 10279
Wilmington, North Carolina 28404-0279
(910) 452-5861**

TABLE OF CONTENTS

	<u>Page</u>
1.0 INTRODUCTION	1
1.1 PURPOSE OF INVESTIGATION	1
1.2 SCOPE OF WORK	1
2.0 SITE DESCRIPTION	1
AREA OF INVESTIGATION	2
2.1 PREVIOUS INVESTIGATIONS, REMEDIATION AND/OR CLOSURE	2
2.2 CONTAMINANT SOURCE INVENTORY	3
3.0 SOIL INVESTIGATION	3
4.0 ANALYTICAL RESULTS	4
4.1 EPA METHOD 8260	4
4.2 EPA METHOD 8270	5
4.3 MADEP EPH/VPH	6
4.4 EPA METHOD 6010B	6
5.0 CONCLUSIONS	6
6.0 RECOMMENDATIONS	8
7.0 REFERENCES	9

TABLES

TABLE 1	SUMMARY OF SOIL LABORATORY RESULTS - EPA METHOD 8260
TABLE 2	SUMMARY OF SOIL LABORATORY RESULTS - EPA METHOD 8270
TABLE 3	SUMMARY OF SOIL LABORATORY RESULTS - MADEP EPH/VPH
TABLE 4	SUMMARY OF SOIL LABORATORY RESULTS - MADEP EPH/VPH as compared to NCDENR MSCCs
TABLE 5	SUMMARY OF SOIL LABORATORY RESULTS - EPA METHOD 6010B

FIGURES

FIGURE 1	SITE VICINITY MAP
FIGURE 2	SITE PLAN
FIGURE 3	SUMMARY OF LABORATORY RESULTS - EPA METHOD 8260
FIGURE 4	SUMMARY OF LABORATORY RESULTS - EPA METHOD 8270
FIGURE 5	SUMMARY OF LABORATORY RESULTS - MADEP EPH/VPH
FIGURE 6	SUMMARY OF LABORATORY RESULTS - EPA METHOD 6010B

APPENDICES

APPENDIX A	CATLIN STANDARD METHODS OF INVESTIGATION
APPENDIX B	BORING LOGS
APPENDIX C	LABORATORY REPORTS AND CHAIN-OF-CUSTODY DOCUMENTATION

ADDITIONAL SOIL ASSESSMENT REPORT

BUILDING 1114 HADNOT POINT FUEL FARM AREA MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA

CATLIN PROJECT NO.: 208-037

December 4, 2008

1.0 INTRODUCTION

1.1 PURPOSE OF INVESTIGATION

The purpose of this investigation was to complete additional soil sampling in the vicinity of Building 1114 located within the Hadnot Point Fuel Farm (HPFF) project area as requested by the North Carolina Department of Environment and Natural Resources (NCDENR). Please refer to Figure 1 for the site vicinity map.

Concerns of potential soil impact were noted by NCDENR based on field notes generated during the installation of groundwater monitoring wells located near Building 1114 as part of the HPFF assessment activities.

1.2 SCOPE OF WORK

Eight soil borings were advanced at the project site as part of this investigation. Soil borings were advanced using direct push technologies (DPT) to eight feet below land surface (BLS) in general accordance with CATLIN Standard Methods of Investigation included in Appendix A. Each soil boring location was recorded with a Survey Grade Global Positioning System (GPS) capable of sub-inch precision. One representative soil sample was collected from each boring for laboratory analysis. Soil borings were advanced in the vicinity of existing groundwater monitoring well USTHPFFC-MW72 and the southwest side of Building 1114. Please refer to Figure 2 for soil boring locations and existing site layout.

2.0 SITE DESCRIPTION

Building 1114 is located within the limits of the HPFF project site on the southwestern corner of the intersection of East Road and Ash Street aboard MCB, Camp Lejeune. Based on the utilization of the surrounding area and land use designation assigned to the adjacent HPFF project site, an Industrial/Commercial Land Use designation and Low Risk classification is recommended. Please refer to Figure 1 for a vicinity map of the project site.

AREA OF INVESTIGATION

The area of investigation was concentrated at the wash pad located at the southwest portion of Building 1114 and around existing groundwater monitoring wells USTHPFFC-MW66, USTHPFFC-MW72, and USTHPFFC-MW15. Building 1114 is currently used as a storage facility for telecommunications equipment and supplies and was previously used as a small engine maintenance shop. Site details are presented on Figure 2.

2.1 PREVIOUS INVESTIGATIONS, REMEDIATION AND/OR CLOSURE

Although no assessment activities have reportedly been conducted specifically addressing Building 1114, numerous assessment and corrective action activities have been conducted in the area associated with the HPFF project site. These documents are available on the MCB, Camp Lejeune Underground Storage Tank (UST) Management Web Portal and on file in the NCDENR Wilmington Regional Office.

Review of data generated from assessment, monitoring, and remedial activities conducted in the immediate vicinity revealed the following:

Monitoring wells USTHPFFC-MW66 (screened from 45ft.-50ft.), USTHPFFC-MW67 (screened from 75ft.-80ft.), and USTHPFFC-MW72 (screened from 18ft.-30ft.) were installed as part of an investigation addressing free-phase product noted in the shallow Type II groundwater monitoring well USTHPFFC-MW15 (screened from 5ft.-25ft.). The area had been previously investigated when Type II monitoring wells USTHPFFC-MW40 through USTHPFFC-MW42 were installed approximately 75 to 100 feet to the northeast, southwest, and south of USTHPFFC-MW15 to delineate dissolved phase contamination. In addition to the three monitoring wells, a trench was excavated by OHM Remediation Services Corporation (OHM) from USTHPFFC-MW15 to the northwest across East Road that helped confirm that the source of the free-phase product was not the inactive pipeline that ran along the north side of East Road. Soil samples were collected during the installation of monitoring wells USTHPFFC-MW40 through USTHPFFC-MW42 as well as during the installation of monitoring wells USTHPFFC-MW66 and USTHPFFC-MW67 which are located within approximately 10 feet of USTHPFFC-MW15. No soil samples were collected during the installation of monitoring wells USTHPFFC-MW68 or USTHPFFC-MW72 because these wells were paired with USTHPFFC-MW66 and USTHPFFC-MW40, respectively. None of the soil samples submitted from the above stated wells were found to contain Total Petroleum Hydrocarbons (TPH) values above applicable NCDENR Action Levels. The depths of soil samples selected for laboratory analysis during the monitoring well installations ranged from zero to six feet BLS. Groundwater gauging records for the Type II monitoring well USTHPFFC-MW15 indicates that on January 16, 2004 the depth to groundwater was 5.97 feet BLS.

Hydrocarbon odor (HCO) and Organic Vapor Analyzer (OVA) readings noted on the boring logs of the previously discussed monitoring wells indicates that groundwater contamination and or free-phase product is present in the subsurface to a depth of approximately 40 to 50 feet BLS. Additionally, the induced polarization data presented by Geophex in the 2002 geophysical report titled *Geophysical Investigation at the Former Fuel Farm Facility And Surrounding Areas, Hadnot Point, MCB, Camp Lejeune, NC* revealed areas of high chargeability (presumably due to the existence of free-phase product) at an elevation of approximately zero (depth of approximately 35 feet BLS) that originated at the former fuel farm and extended beneath the Building 1114 area. The mechanisms responsible for the apparent free-phase product migration at depth are not evident; but may be the former hydraulic gradients caused by pumping of the surrounding production wells. There does appear to be a correlation between the appearance of free-phase product in USTHPFFC-MW72 and the Bio-Pulse Sparging. Following the Pre-Sparge Equipment Verification Test conducted on December 18, 2003, the free-phase product thickness in USTHPFFC-MW72 increased from 0.15 feet on December 22, 2003 to 15.43 feet on January 16, 2004. Review of data collected during the Aggressive Fluid Vapor Recovery (AFVR) events indicates that over 2,000 gallons of product have been recovered from well USTHPFFC-MW72.

2.2 CONTAMINANT SOURCE INVENTORY

The primary potential contaminant source in the area is the former HPFF located northeast of Building 1114. Additional potential sources were identified during previous investigations consisting of aboveground storage tanks (ASTs) located adjacent to the southwest side of Building 1114. The ASTs are no longer present at the site. Details pertaining to the size and contents of the ASTs are unknown. Building 1114 was previously used as a small engine maintenance shop creating the potential for petroleum related products being disposed on the land surface. Detailed contaminant source inventories are presented in previously submitted reports completed for the HPFF facility. Site reconnaissance and personal interviews conducted with military personnel working in the vicinity did not reveal additional sources of petroleum contamination.

3.0 SOIL INVESTIGATION

Soil boring installation was conducted by CATLIN personnel on October 15, 2008. Eight soil borings (DPT-01 through DPT-08) were advanced to eight feet BLS. Soil samples were collected continuously from land surface, or beneath concrete or asphalt if present, using four-foot long stainless steel samplers with 1.5 inch diameter clear acetate liners. Each sample was logged by the field geologist then split into two samples and placed into pre-labeled plastic bags. One sample was placed immediately on ice pending selection for laboratory analysis then the second sample was left undisturbed and subsequently screened with a flame ionization detector (FID). Borings were advanced in accordance with CATLIN's Standard Methods of Investigation included in Appendix A. Soil boring locations are presented on Figure 2.

Soils were described in the field by a geologist using visual/manual techniques as described in American Society for Testing and Material (ASTM) D-2488. The soils were classified in accordance with the Unified Soils Classification System (USCS) and a boring record of each borehole was produced. Boring logs are provided in Appendix B.

Field observations noted during boring installation indicate site soils to be comprised generally of silty to clayey, fine grained sand from land surface to a depth of approximately six feet BLS where either fine grained sand or silty to sandy clay was encountered.

All sampling was conducted in general accordance with CATLIN's Standard Methods, a copy of which has been provided in Appendix A. As required, soil samples were collected using an EnCore sampling apparatus, labeled with site location, borehole ID, date/time, and sampler and placed on ice in a cooler. Based on historical depth to water gauging data, depth to groundwater gauged in monitoring well USTHPFF-MW15 (7.04ft.), and physical observations noted during boring advancement, the sample interval of two to four feet BLS was selected for laboratory analysis from each boring. Soil samples were delivered under proper Chain-of-Custody (COC) protocol to SGS Environmental Services, Inc. in Wilmington, North Carolina for the following analysis:

<u>EPA Method</u>	<u>Description</u>
8260B	Volatile Organics + IPE + MTBE
VPH	MADEP
8270C	Base/Neutrals/Acid Extractables + 10 largest peaks
EPH	MADEP
6010B	Total Metals (Cr and Pb)
VPH - Volatile Petroleum Hydrocarbons	
EPH - Extractable Petroleum Hydrocarbons	
MADEP - Massachusetts Department of Environmental Protection	

Laboratory analytical reports and COC Documentation are included in Appendix C.

4.0 ANALYTICAL RESULTS

4.1 EPA METHOD 8260

Laboratory analytical results from EPA Method 8260 analysis are summarized on Table 1 and Figure 3. Fifteen 8260 constituents were identified above the laboratory Method Detection Limits (MDL), of the constituents detected above the MDL, five were identified above the lowest established NCDENR Maximum Soil Contaminant Concentration (MSCC) as presented in the NCDENR UST Section Guidelines for Assessment and Corrective Action for UST Releases dated July 15, 2008 (2008 Guidelines). The following is a summary of the contaminants identified above the lowest established MSCC:

UST1114-DPT06 (2-4)

CONTAMINANT OF CONCERN	REPORTED CONCENTRATION	LOWEST ESTABLISHED MSCC *
Benzene	2.45	0.0056 (STGW)
Naphthalene	10.5	0.58 (STGW)
1,2,4-Trimethylbenzene	22.3	7.5 (STGW)
Total Xylenes	10.72	5 (STGW)

* STGW = Soil to Groundwater, I/C = Industrial Commercial, R = Residential
All results and MSCCs in milligrams per kilogram (mg/kg).

UST1114-DPT07 (2-4)

CONTAMINANT OF CONCERN	REPORTED CONCENTRATION	LOWEST ESTABLISHED MSCC
Benzene	0.190	0.0056 (STGW)

** J = Estimated Value

All results and MSCCs in milligrams per kilogram (mg/kg).

UST1114-DPT08 (2-4)

CONTAMINANT OF CONCERN	REPORTED CONCENTRATION	LOWEST ESTABLISHED MSCC
Benzene	0.196	0.0056 (STGW)
Methylene Chloride	0.0247J**	0.02 (STGW)

** J = Estimated Value

All results and MSCCs in milligrams per kilogram (mg/kg).

Concentrations of 4-Isopropylbenzene were reported above the MDL in samples UST1114-DPT04, UST1114-DPT06, UST1114-DPT07, and UST1114-DPT08 at 0.279 mg/kg, 1.62 mg/kg, 0.0377J mg/kg, and 0.0463J mg/kg, respectively. There are no established MSCCs for 4-Isopropylbenzene therefore any concentration above the MDL is considered reportable.

4.2 EPA METHOD 8270

Laboratory analytical results from EPA Method 8270 analysis are summarized on Table 2 and Figure 4. Two 8270 constituents were identified above the laboratory MDL in one sample (UST1114-DPT06), of the constituents detected above the MDL, one was identified above the lowest established NCDENR MSCC. The following is a summary of the contaminant identified above the lowest established MSCC:

UST1114-DPT06 (2-4)

CONTAMINANT OF CONCERN	REPORTED CONCENTRATION	LOWEST ESTABLISHED MSCC
Naphthalene	2.44	0.58 (STGW)

All results and MSCCs in milligrams per kilogram (mg/kg)

All other EPA Method 8270 constituents reported as below MDL (BMDL).

4.3 MADEP EPH/VPH

As indicated on Table 3, four samples contained a total of five MADEP EPH/VPH fractions above the MDL. Comparison of the combined fractions to established MSCCs revealed only one fraction above established MSCCs in two of the soil samples with results as follows:

UST1114-DPT04 (2-4)

CONTAMINANT OF CONCERN	REPORTED CONCENTRATION	LOWEST ESTABLISHED MSCC
C9-C22 Aromatics	<40.0*	34 (STGW)

All results and MSCCs in milligrams per kilogram (mg/kg).

* = The value represents the sum of the reported practical quantitation limit of one fraction and the detected concentration of the other fraction.

UST1114-DPT06 (2-4)

CONTAMINANT OF CONCERN	REPORTED CONCENTRATION	LOWEST ESTABLISHED MSCC
C9-C22 Aromatics	137.4	34 (STGW)

All results and MSCCs in milligrams per kilogram (mg/kg).

Comparison of MADEP EPH/VPH results to NCDENR MSCCs are summarized on Table 4 and Figure 5.

4.4 EPA METHOD 6010B

Concentrations of Chromium and Lead were identified by EPA Method 6010B analysis in all submitted samples above the MDL. Neither of the contaminants of concern were identified above any of the established MSCCs.

Laboratory results are summarized on Table 5 and Figure 6.

5.0 CONCLUSIONS

Field and laboratory findings pertaining to Building 1114 generated during this and previous investigations may be summarized as follows:

- Eight soil borings were advanced to eight feet BLS in and around the area of concern as identified by NCDENR.
- Representative soil samples from the two to four feet BLS interval were submitted from each boring for laboratory analysis per EPA Methods 8260, 8270, 6010B (Chromium and Lead), and MADEP EPH/VPH.
- No groundwater samples were collected during this investigation. Groundwater impact has been confirmed in the vicinity and is attributed to the adjacent HPFF site. Groundwater gauging and monitoring is ongoing under the HPFF corrective actions.

- Depth to groundwater was gauged in monitoring well USTHPFF-MW15 at a depth of 7.04 feet BLS on October 15, 2008 during soil boring installation.
- Historical groundwater levels gauged in USTHPFF-MW15 located within the project site have ranged from approximately six to 10 feet below the top of casing (approximately 4.5 to 8.5 feet BLS).
- With the exception of former ASTs and potential impact from previous site activities noted during assessment activities associated with HPFF, no additional potential sources were identified at the project site.
- Free-phase product presumably associated with HPFF project site has been, and continues to be, present in groundwater monitoring wells USTHPFF-MW15 screened from 5-25 feet BLS and USTHPFFC-MW72 screened from 18-30 feet BLS.
- Petroleum impact to subsurface soils was confirmed during analysis at the following locations and concentrations:

SAMPLE ID	CONTAMINANT OF CONCERN	REPORTED CONCENTRATION	LOWEST ESTABLISHED MSCC *	ANALYSIS
UST1114-DPT06 (2-4')	Benzene	2.45	0.0056 (STGW)	EPA Method 8260
	Naphthalene	10.5	0.58 (STGW)	
	1,2,4-Trimethylbenzene	22.3	7.5 (STGW)	
	Total Xylenes	10.72	5 (STGW)	
UST1114-DPT07 (2-4')	Benzene	0.190	0.0056 (STGW)	EPA Method 8260
UST1114-DPT08 (2-4')	Benzene	0.196	0.0056 (STGW)	
	Methylene Chloride	0.0247J**	0.02 (STGW)	
UST1114-DPT06 (2-4')	Naphthalene	2.44	0.58 (STGW)	EPA Method 8260
UST1114-DPT06 (2-4')	C9-C22 Aromatics	137.4	34 (STGW)	MADEP EPH/VPH
UST1114-DPT01 (2-4')	Lead	29.2	14 (STGW)	EPA Method 6010B

All results and MSCCs in milligrams per kilogram (mg/kg).

* = The value represents the sum of the reported practical quantitation limit of one fraction and the detected concentration of the other fraction.

- Project site meets criteria for Industrial/Commercial Land Use and Low Risk classification.
- No soil impact was identified above established I/C or Residential MSCCs.

- Concentrations of 4-Isopropylbenzene were reported above the MDL in samples UST1114-DPT04, UST1114-DPT06, UST1114-DPT07, and UST1114-DPT08 at 0.279 mg/kg, 1.62 mg/kg, 0.0377J mg/kg, and 0.0463J mg/kg, respectively. There are no established MSCCs for 4-Isopropylbenzene therefore any concentration above the MDL is considered reportable.

6.0 RECOMMENDATIONS

Ultimately, NCDENR Division of Waste Management UST Section personnel determine the risk classification for the incident at the subject site. Any additional assessment and/or remediation activities would be based on the pending risk classification. The following recommendations are based on CATLIN personnel evaluating site findings in accordance with the 2008 Guidelines.

There were no soil contaminants identified in excess of established Industrial/Commercial or Residential MSCCs. One compound, 4-Isopropyltoluene, which does not have an established MSCC, was identified in four of the eight samples submitted for laboratory analysis at concentrations above the MDL ranging from (0.0377J mg/kg to 1.62 mg/kg). Petroleum based groundwater contamination in the dissolved and free-product phase is currently, and will continue to be, addressed within the corrective actions associated with the HPFF project site. Based on findings of this ASAR, CATLIN believes the site qualifies for No Further Action.

A copy of this report should be forwarded to the NCDENR at the following address:

North Carolina Department of Environment and Natural Resources
Division of Waste Management, UST Section
Attention: Mr. Bruce Reed
127 Cardinal Drive Extension
Wilmington, North Carolina 28405

7.0 REFERENCES

Geophex, Ltd., *Geophysical Investigation at the Former Fuel Farm Facility And Surrounding Areas, Hadnot Point, MCB, Camp Lejeune, NC*, 2002.

North Carolina Department of Environment and Natural Resources, Underground Storage Tank Section, *Guidelines for Assessment and Corrective Action for UST Releases*, effective July 15, 2008.

TABLES

TABLE 1
SUMMARY OF SOIL LABORATORY RESULTS
EPA Method 8260

Incident Name and No.: Building 1114 - Pending

Sample ID	Contaminant of Concern →		Acetone	Benzene	n-Butylbenzene	sec-Butylbenzene	Chloroform	Ethylbenzene	Isopropylbenzene	4-Isopropyltoluene	Methylene chloride	Naphthalene	n-Propyl benzene	Toluene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Total Xylenes	All Other EPA Method 8260 Analytes
	Date Collected	Sample Depth (ft. BLS)																
Residential MSCC (mg/kg)			1,564	18	626	626	100	1,560	1,564	NE	85	313	626	3,200	782	782	3,129	VARIES
Industrial/Commercial MSCC (mg/kg)			40,880	164	16,350	16,350	938	40,000	40,880	NE	763	8,176	16,350	82,000	20,440	20,440	81,760	
STGW MSCC (mg/kg)			2.8	0.0056	4.3	3.3	0.37	4.6	1.7	NE	0.02	0.58	1.7	7.3	7.5	7.3	5	
UST1114-DPT01	10/15/2008	2-4	<0.00603	<0.00093	<0.00083	<0.00088	<0.00105	<0.00076	<0.00078	<0.00093	<0.00104	<0.00074	<0.00110	<0.00087	<0.00110	<0.00099	<0.00252	BMDL
UST1114-DPT02	10/15/2008	2-4	<0.00624	<0.00097	<0.00086	<0.00091	<0.00108	<0.00078	<0.00080	<0.00097	<0.00107	<0.00077	<0.00114	<0.00090	<0.00114	<0.00103	<0.00261	BMDL
UST1114-DPT03	10/15/2008	2-4	0.00799 J	<0.00100	<0.00089	<0.00094	<0.00112	<0.00081	<0.00083	<0.00100	<0.00111	<0.00079	<0.00118	<0.00093	<0.00118	<0.00106	<0.0027	BMDL
UST1114-DPT04	10/15/2008	2-4	<0.115	<0.00343	<0.00575	<0.00443	<0.00417	0.00581 J	<0.00375	0.279	<0.00517	<0.00702	<0.00422	0.0216 J	0.175	0.106	0.306	BMDL
UST1114-DPT04 DUP	10/15/2008	2-4	0.0334 J	<0.00106	<0.00095	<0.00100	<0.00119	<0.00086	<0.00088	<0.00106	<0.00118	<0.00084	<0.00125	<0.00099	<0.00125	<0.00113	<0.00287	BMDL
UST1114-DPT05	10/15/2008	2-4	0.0137 J	<0.00106	<0.00094	<0.00100	<0.00119	<0.00086	<0.00088	<0.00106	<0.00118	<0.00084	<0.00125	0.00100 J	<0.00125	<0.00113	<0.00286	BMDL
UST1114-DPT06	10/15/2008	2-4	<2.03	2.45	<0.102	0.233 J	<0.0737	1.09	0.177 J	1.62	<0.0914	10.5	1.29	0.578 J	22.3	6.85	10.72	BMDL
UST1114-DPT07	10/15/2008	2-4	<0.222	0.190	0.0734 J	0.0214 J	<0.00805	0.450	0.0744 J	0.0377 J	<0.00999	<0.0136	0.194	0.0408 J	0.499	0.230	0.947	BMDL
UST1114-DPT08	10/15/2008	2-4	<0.115	0.196	<0.00573	<0.00442	0.0116 J	0.0226 J	<0.00373	0.0463 J	0.0247 J	<0.00699	<0.00421	0.0952	<0.00342	<0.00389	<0.00857	BMDL

All results in milligrams per kilogram (mg/kg).
BMDL = Below Method Detection Limit
BOLD values indicate result above Method Detection Limit
J = Estimated value

NS = Not Sampled
ft. BLS = Feet Below Land Surface.
Shaded values indicate result above lowest established MSCC

NE = None Established. Concentrations above MDL considered reportable
< = Less than method detection limit
MSCC = Maximum Soil Contaminant Concentration

TABLE 2
SUMMARY OF SOIL LABORATORY RESULTS
EPA Method 8270

Incident Name and No.: Building 1114 - Pending

Sample ID	Contaminant of Concern →		2-Methylnaphthalene	Naphthalene	All Other EPA Method 8270 Analytes
	Date Collected	Sample Depth (ft. BLS)			
Residential MSCC (mg/kg)			63	313	VARIES
Industrial/Commercial MSCC (mg/kg)			1,635	8,176	
STGW MSCC (mg/kg)			1.7	0.58	
UST1114-DPT01	10/15/2008	2-4	<0.054	<0.046	BMDL
UST1114-DPT02	10/15/2008	2-4	<0.059	<0.051	BMDL
UST1114-DPT03	10/15/2008	2-4	<0.058	<0.050	BMDL
UST1114-DPT04	10/15/2008	2-4	<0.065	<0.056	BMDL
UST1114-DPT05	10/15/2008	2-4	<0.058	<0.050	BMDL
UST1114-DPT06	10/15/2008	2-4	0.445	2.44	BMDL
UST1114-DPT07	10/15/2008	2-4	<0.055	<0.047	BMDL
UST1114-DPT08	10/15/2008	2-4	<0.061	<0.052	BMDL

All results in milligrams per kilogram (mg/kg).

BOLD values indicate result above Method Detection Limit

Shaded values indicate result above lowest MSCC

BMDL = Below Method Detection Limit

ft. BLS = Feet Below Land Surface.

< = Less than method detection limit

MSCC = Maximum Soil Contaminant Concentration

TABLE 3
SUMMARY OF SOIL LABORATORY RESULTS
EPA Method MADEP EPH/VPH

Incident Name and No.: Building 1114 - Pending

Sample ID	Contaminant of Concern →		C9-C18 Aliphatics	C19-C36 Aliphatics	C11-C22 Aromatics	C5-C8 Aliphatics	C9-C12 Aliphatics	C9-C10 Aromatics
	Date Collected	Sample Depth (ft. BLS)						
UST1114-DPT01 (2-4)	10/15/2008	2-4	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
UST1114-DPT02 (2-4)	10/15/2008	2-4	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
UST1114-DPT03 (2-4)	10/15/2008	2-4	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
UST1114-DPT04 (2-4)	10/15/2008	2-4	<10.0	<10.0	<10.0	<10.0	11.7	30.0
UST1114-DPT05 (2-4)	10/15/2008	2-4	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
UST1114-DPT06 (2-4)	10/15/2008	2-4	14.0	<10.0	17.4	12.0	53.3	120
UST1114-DPT07 (2-4)	10/15/2008	2-4	<10.0	<10.0	<10.0	19.6	<10.0	<10.0
UST1114-DPT08 (2-4)	10/15/2008	2-4	<10.0	<10.0	10.9	47.7	<10.0	<10.0

All results in milligrams per kilogram (mg/kg).

ft. BLS = Feet Below Land Surface.

< = Less than method detection limit

BOLD values indicate result above Method Detection Limit

TABLE 4
SUMMARY OF SOIL LABORATORY RESULTS
MADEP EPH/VPH as compared to NCDENR MSCCs

Incident Name and No.: Building 1114 - Pending

Sample ID	Contaminant of Concern →		C5-C8 Aliphatics	C9-C18 Aliphatics	C19-C36 Aliphatics	C9-C22 Aromatics
	Date Collected	Sample Depth (ft. BLS)				
Residential MSCC (mg/kg)			939	9,386	93,860	469
Industrial/Commercial MSCC (mg/kg)			24,528	245,280	#	12,264
STGW MSCC (mg/kg)			72	3,300	##	34
UST1114-DPT01	10/15/2008	2-4	<10.0	<20.0	<10.0	<20.0
UST1114-DPT02	10/15/2008	2-4	<10.0	<20.0	<10.0	<20.0
UST1114-DPT03	10/15/2008	2-4	<10.0	<20.0	<10.0	<20.0
UST1114-DPT04	10/15/2008	2-4	<10.0	<21.7 *	<10.0	<40.0*
UST1114-DPT05	10/15/2008	2-4	<10.0	<20.0	<10.0	<20.0
UST1114-DPT06	10/15/2008	2-4	12.0	67.3	<10.0	137.4
UST1114-DPT07	10/15/2008	2-4	19.6	<20.0	<10.0	<20.0
UST1114-DPT08	10/15/2008	2-4	47.7	<20.0	<10.0	20.9

All results in milligrams per kilogram (mg/kg).

ft. BLS = Feet Below Land Surface.

BOLD values indicate result above Method Detection Limit

Shaded values indicate result above lowest MSCC

< = Less than method detection limit

= Health based level > 100%

= Considered Immobile

MSCCs = Maximum Soil Contaminant Concentrations

* = The value represents the sum of the reported practical quantitation limit of one fraction and the detected concentration of the other fraction.

TABLE 5
SUMMARY OF SOIL LABORATORY RESULTS
EPA Method 6010B

Incident Name and No.: Building 1114 - Pending

Sample ID	Contaminant of Concern →		Chromium	Lead
	Date Collected	Sample Depth (ft. BLS)		
Residential MSCC (mg/kg)			47	400
Industrial/Commercial MSCC (mg/kg)			1,226	400
STGW MSCC (mg/kg)			27	270
UST1114-DPT01	10/15/2008	2-4	10.1	29.2
UST1114-DPT02	10/15/2008	2-4	8.57	6.77
UST1114-DPT03	10/15/2008	2-4	11.8	7.55
UST1114-DPT04	10/15/2008	2-4	6.65	6.36
UST1114-DPT05	10/15/2008	2-4	3.93	3.79
UST1114-DPT06	10/15/2008	2-4	4.13	4.01
UST1114-DPT07	10/15/2008	2-4	2.63	3.17
UST1114-DPT08	10/15/2008	2-4	5.91	5.53

All results in milligrams per kilogram (mg/kg).

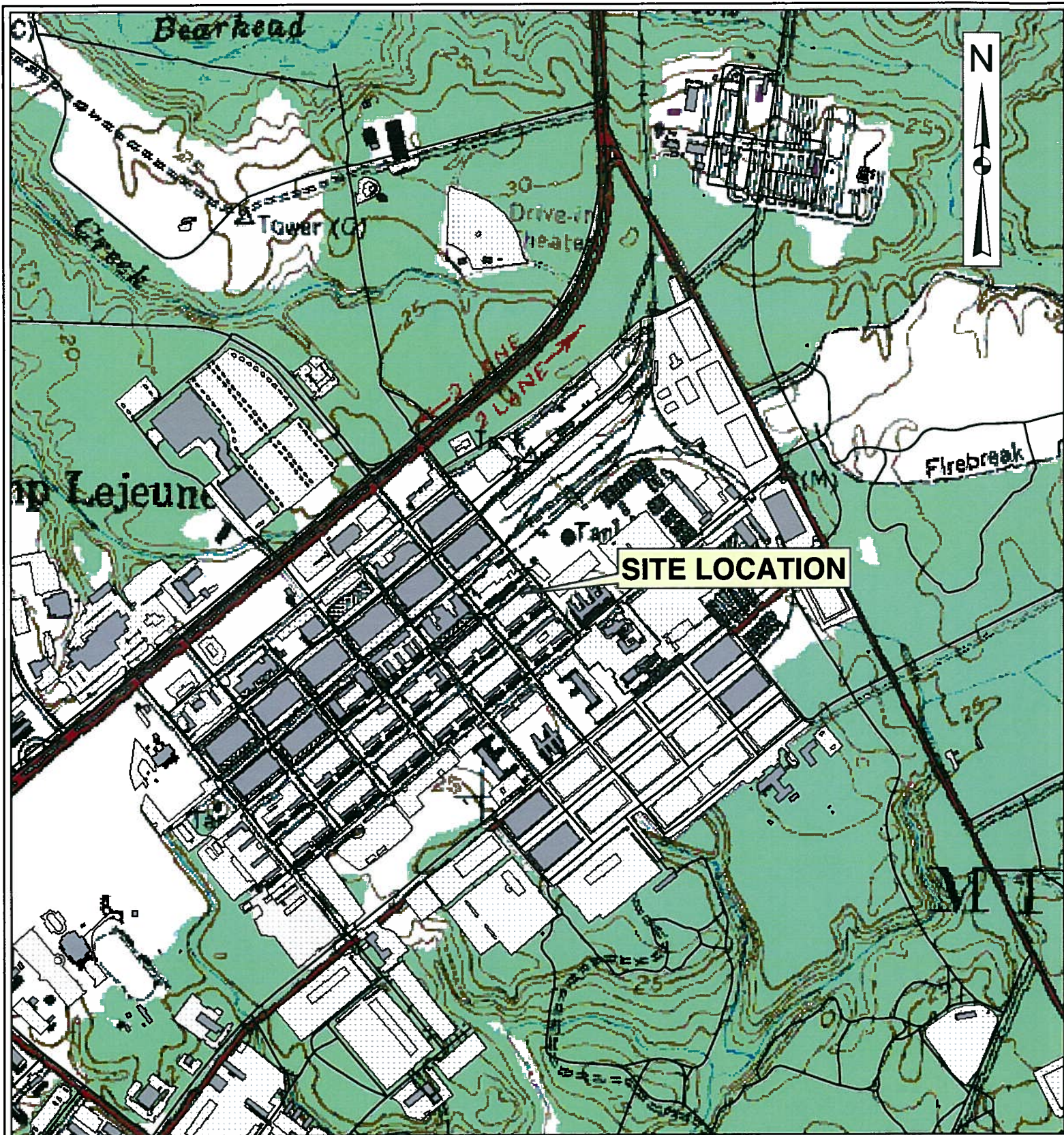
BOLD values indicate result above Method Detection Limit

ft. BLS = Feet Below Land Surface.

< = Less than method detection limit

MSCC = Maximum Soil Contaminant Concentration

FIGURES



1,000 500 0 1,000 Feet

SCALE

Data Sources: USGS Topographic Quadrangle
Camp Lejeune (1952, Photorevised 1971). GIS
data provided by Camp Lejeune GIS Department.

PROJECT

BUILDING 1114
ADDITIONAL SOIL
ASSESSMENT REPORT
MCB CAMP LEJEUNE, NC

TITLE

SITE VICINITY MAP

FIGURE

1

JOB NO.

208-037

DATE

DEC 2008

SCALE

AS SHOWN

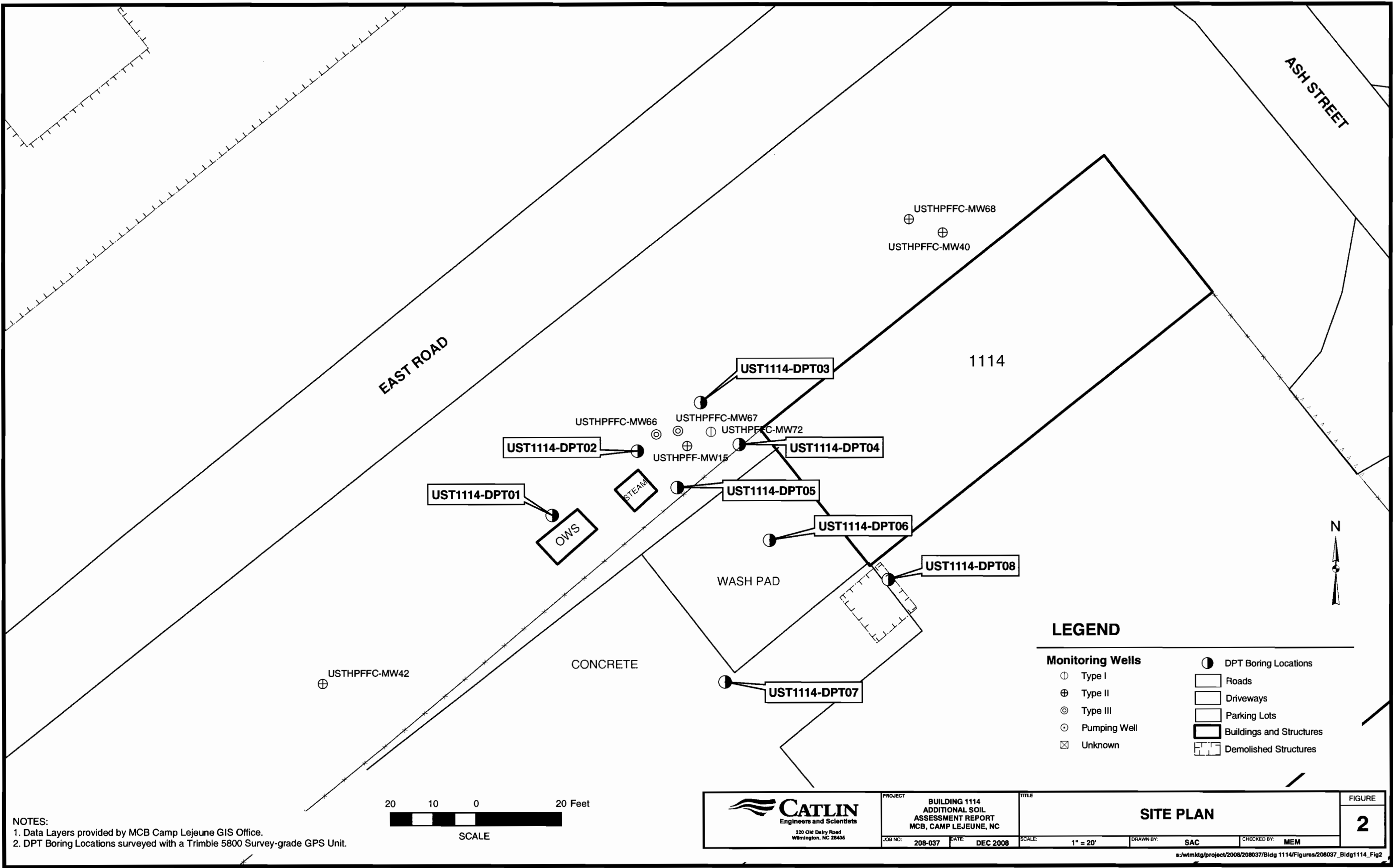
DRAWN BY

SAC

CHECKED BY

SVH

 **CATLIN**
Engineers and Scientists

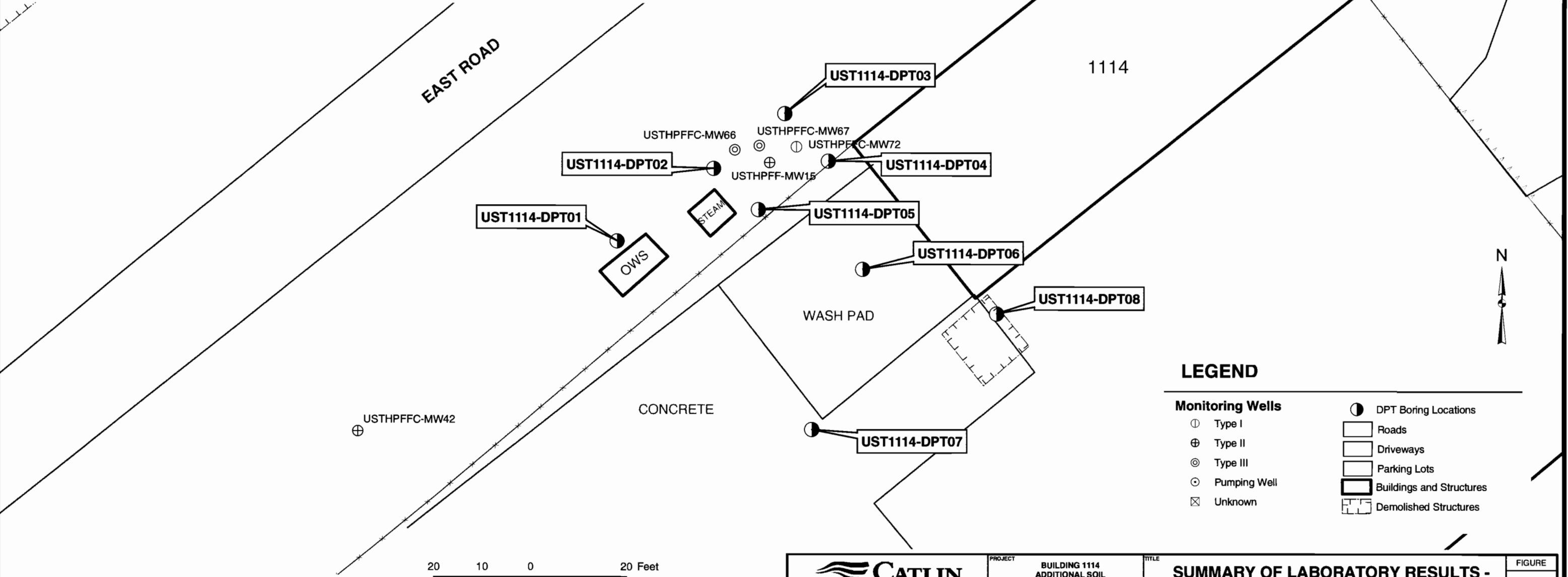


Sample ID	Contaminant of Concern		Acetone	Benzene	n-Butylbenzene	sec-Butylbenzene	Chloroform	Ethylbenzene	Isopropylbenzene	4-Isopropyltoluene	Methylene chloride	Naphthalene	n-Propyl benzene	Toluene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Total Xylenes	All Other EPA Method 8260 Analytes
	Date Collected	Sample Depth (ft. BLS)																
Residential MSCC (mg/kg)			1,564	18	626	626	100	1,560	1,564	NE	85	313	626	3,200	782	782	3,129	VARIES
Industrial/Commercial MSCC (mg/kg)			40,880	164	16,350	16,350	938	40,000	40,880	NE	763	8,176	16,350	82,000	20,440	20,440	81,760	
STGW MSCC (mg/kg)			2.8	0.0056	4.3	3.3	0.37	4.6	1.7	NE	0.02	0.58	1.7	7.3	7.5	7.3	5	
UST1114-DPT01	10/15/2008	2-4	<0.00603	<0.00093	<0.00083	<0.00088	<0.00105	<0.00076	<0.00078	<0.00093	<0.00104	<0.00074	<0.00110	<0.00087	<0.00110	<0.00099	<0.00252	BMDL
UST1114-DPT02	10/15/2008	2-4	<0.00624	<0.00097	<0.00086	<0.00091	<0.00108	<0.00078	<0.00080	<0.00097	<0.00107	<0.00077	<0.00114	<0.00090	<0.00114	<0.00103	<0.00261	BMDL
UST1114-DPT03	10/15/2008	2-4	0.00799 J	<0.00100	<0.00089	<0.00094	<0.00112	<0.00081	<0.00083	<0.00100	<0.00111	<0.00079	<0.00118	<0.00093	<0.00118	<0.00106	<0.0027	BMDL
UST1114-DPT04	10/15/2008	2-4	<0.115	<0.00343	<0.00575	<0.00443	<0.00417	0.00581 J	<0.00375	0.279	<0.00517	<0.00702	<0.00422	0.0216 J	0.175	0.106	0.306	BMDL
UST1114-DPT04 DUP	10/15/2008	2-4	0.0334 J	<0.00106	<0.00095	<0.00100	<0.00119	<0.00086	<0.00088	<0.00106	<0.00118	<0.00084	<0.00125	<0.00099	<0.00125	<0.00113	<0.00287	BMDL
UST1114-DPT05	10/15/2008	2-4	0.0137 J	<0.00106	<0.00094	<0.00100	<0.00119	<0.00086	<0.00088	<0.00106	<0.00118	<0.00084	<0.00125	0.00100 J	<0.00125	<0.00113	<0.00286	BMDL
UST1114-DPT06	10/15/2008	2-4	<2.03		<0.102	0.233 J	<0.0737	1.09	0.177 J	1.62	<0.0914		1.29	0.578 J		6.85		BMDL
UST1114-DPT07	10/15/2008	2-4	<0.222		0.0734 J	0.0214 J	<0.00805	0.450	0.0744 J	0.0377 J	<0.00999	<0.0136	0.194	0.0408 J	0.499	0.230	0.947	BMDL
UST1114-DPT08	10/15/2008	2-4	<0.115		<0.00573	<0.00442	0.0116 J	0.0226 J	<0.00373	0.0463 J		<0.00699	<0.00421	0.0952	<0.00342	<0.00389	<0.00857	BMDL

All results in milligrams per kilogram (mg/kg).
BMDL = Below Method Detection Limit
BOLD values indicate result above Method Detection Limit
J = Estimated value

NS = Not Sampled
ft. BLS = Feet Below Land Surface.
Shaded values indicate result above lowest established MSCC

NE = None Established. Concentrations above MDL considered reportable
< = Less than method detection limit
MSCC = Maximum Soil Contaminant Concentration



NOTES:
1. Data Layers provided by MCB Camp Lejeune GIS Office.
2. DPT Boring Locations surveyed with a Trimble 5800 Survey-grade GPS Unit.



CATLIN
Engineers and Scientists
220 Old Dairy Road
Wilmington, NC 28405

PROJECT: BUILDING 1114
ADDITIONAL SOIL
ASSESSMENT REPORT
MCB, CAMP LEJEUNE, NC

JOB NO: 208-037 DATE: DEC 2008

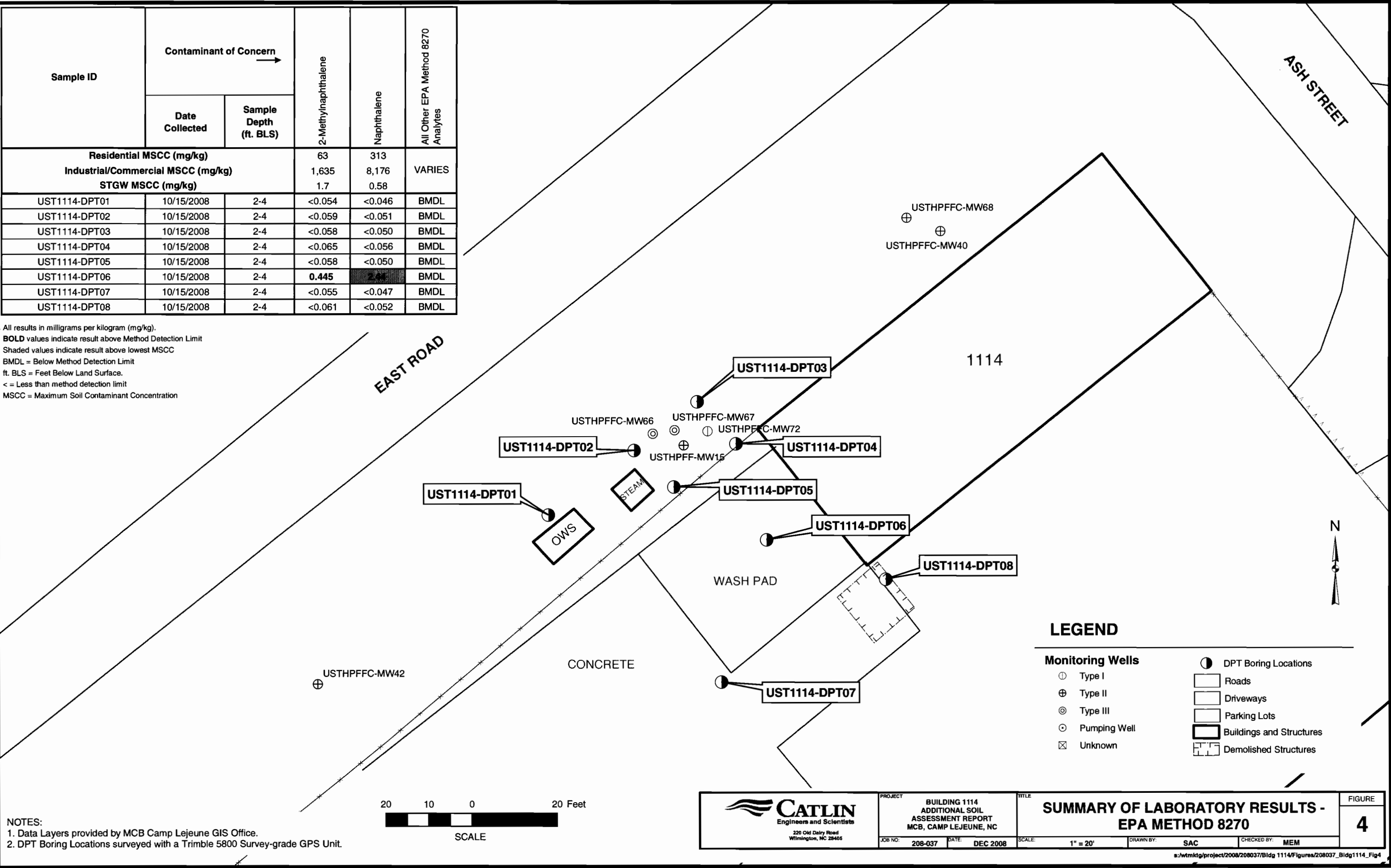
TITLE: SUMMARY OF LABORATORY RESULTS -
EPA METHOD 8260

SCALE: 1" = 20' DRAWN BY: SAC CHECKED BY: MEM

FIGURE
3

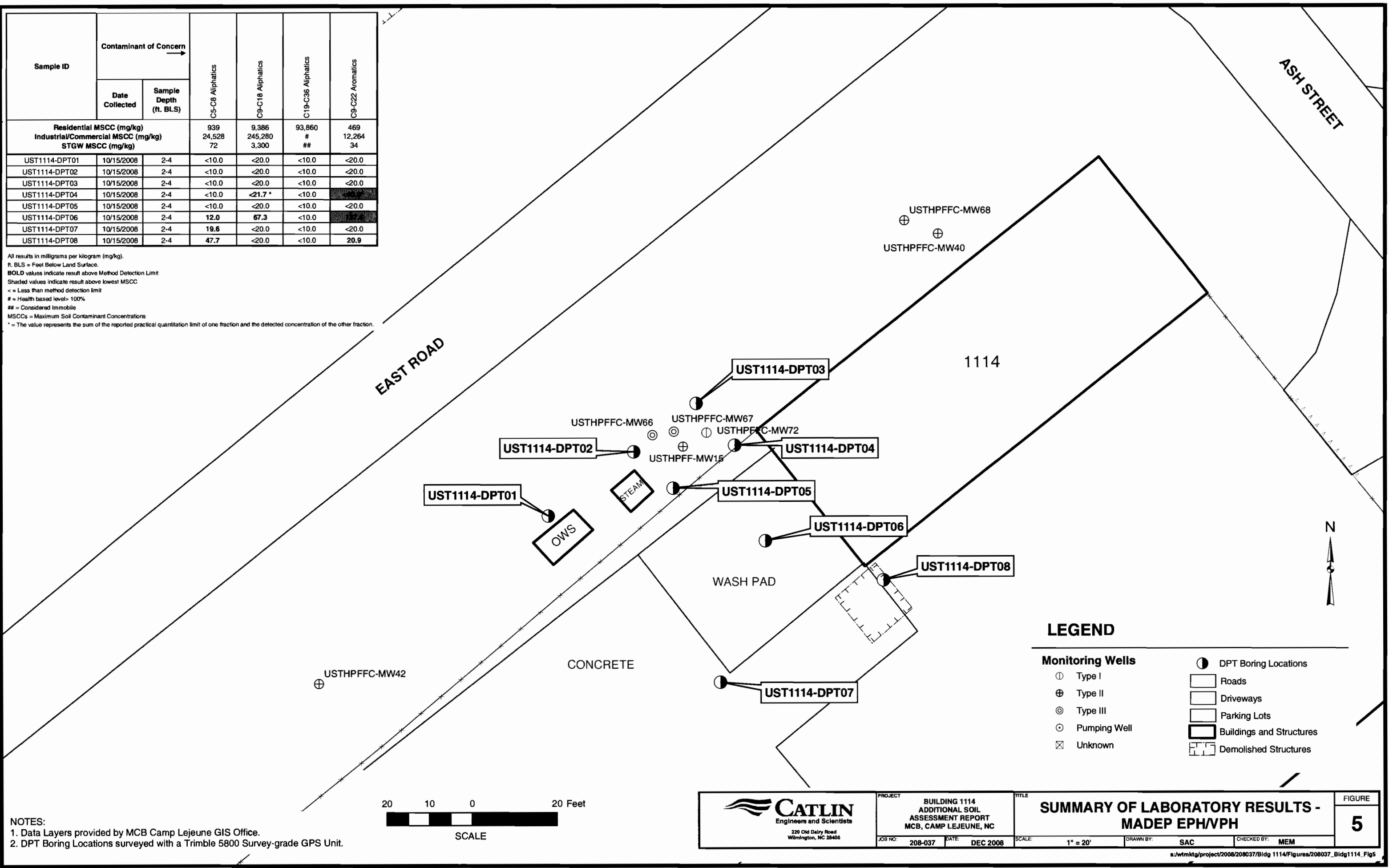
Sample ID	Contaminant of Concern		2-Methylnaphthalene	Naphthalene	All Other EPA Method 8270 Analytes
	Date Collected	Sample Depth (ft. BLS)			
Residential MSCC (mg/kg)			63	313	
Industrial/Commercial MSCC (mg/kg)			1,635	8,176	VARIES
STGW MSCC (mg/kg)			1.7	0.58	
UST1114-DPT01	10/15/2008	2-4	<0.054	<0.046	BMDL
UST1114-DPT02	10/15/2008	2-4	<0.059	<0.051	BMDL
UST1114-DPT03	10/15/2008	2-4	<0.058	<0.050	BMDL
UST1114-DPT04	10/15/2008	2-4	<0.065	<0.056	BMDL
UST1114-DPT05	10/15/2008	2-4	<0.058	<0.050	BMDL
UST1114-DPT06	10/15/2008	2-4	0.445	2.45	BMDL
UST1114-DPT07	10/15/2008	2-4	<0.055	<0.047	BMDL
UST1114-DPT08	10/15/2008	2-4	<0.061	<0.052	BMDL

All results in milligrams per kilogram (mg/kg).
BOLD values indicate result above Method Detection Limit
Shaded values indicate result above lowest MSCC
BMDL = Below Method Detection Limit
ft. BLS = Feet Below Land Surface.
< = Less than method detection limit
MSCC = Maximum Soil Contaminant Concentration



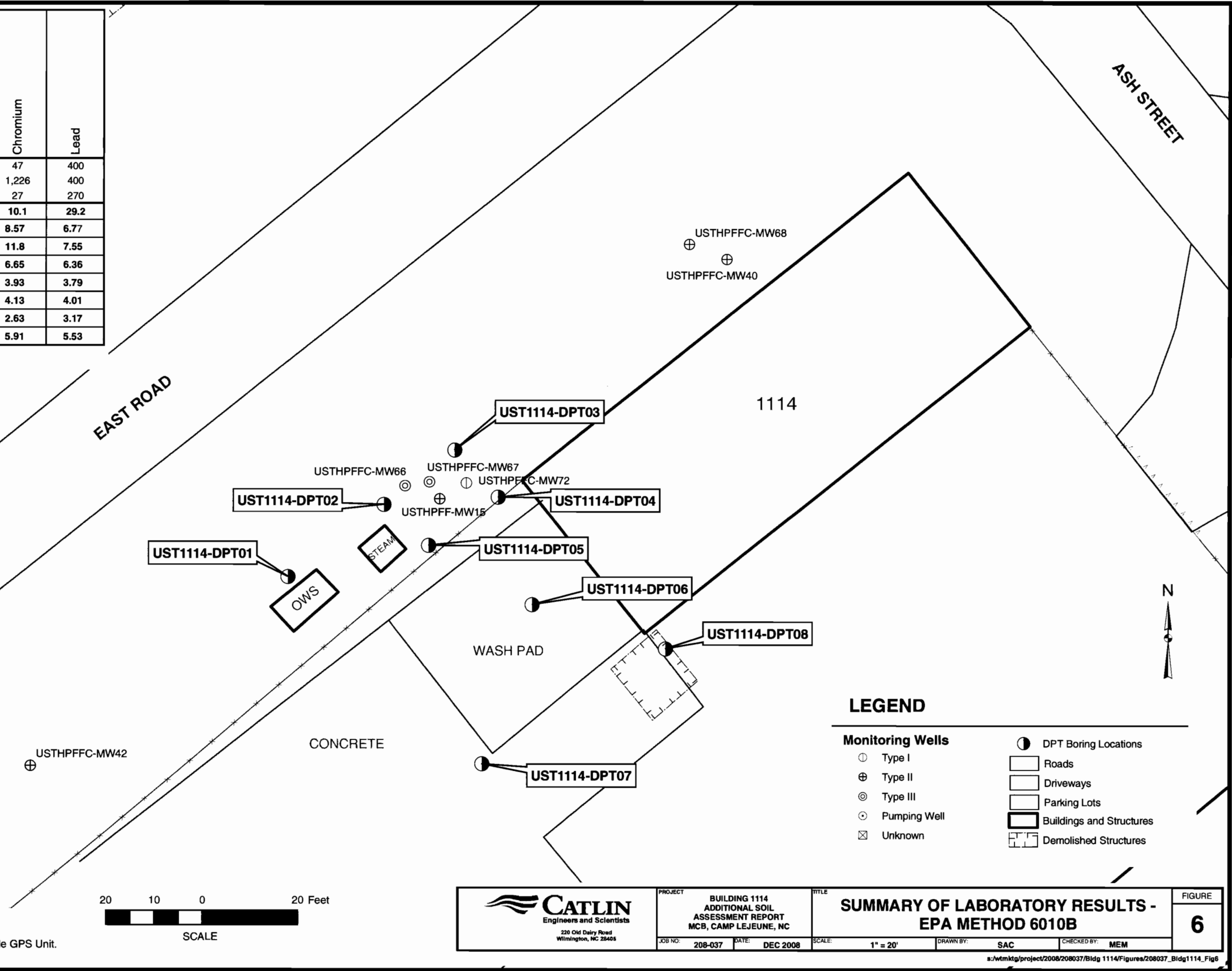
Sample ID	Contaminant of Concern		C5-C8 Aliphatics	C9-C18 Aliphatics	C19-C36 Aliphatics	C9-C22 Aromatics
	Date Collected	Sample Depth (ft. BLS)				
Residential MSCC (mg/kg)			939	9,386	93,860	469
Industrial/Commercial MSCC (mg/kg)			24,528	245,280	#	12,264
STGW MSCC (mg/kg)			72	3,300	##	34
UST1114-DPT01	10/15/2008	2-4	<10.0	<20.0	<10.0	<20.0
UST1114-DPT02	10/15/2008	2-4	<10.0	<20.0	<10.0	<20.0
UST1114-DPT03	10/15/2008	2-4	<10.0	<20.0	<10.0	<20.0
UST1114-DPT04	10/15/2008	2-4	<10.0	<21.7 *	<10.0	
UST1114-DPT05	10/15/2008	2-4	<10.0	<20.0	<10.0	<20.0
UST1114-DPT06	10/15/2008	2-4	12.0	67.3	<10.0	
UST1114-DPT07	10/15/2008	2-4	19.6	<20.0	<10.0	<20.0
UST1114-DPT08	10/15/2008	2-4	47.7	<20.0	<10.0	20.9

All results in milligrams per kilogram (mg/kg).
ft. BLS = Feet Below Land Surface.
BOLD values indicate result above Method Detection Limit
Shaded values indicate result above lowest MSCC
< = Less than method detection limit
= Health based level- 100%
= Considered Immobile
MSCCs = Maximum Soil Contaminant Concentrations
* = The value represents the sum of the reported practical quantitation limit of one fraction and the detected concentration of the other fraction.



Sample ID	Contaminant of Concern		Chromium	Lead
	Date Collected	Sample Depth (ft. BLS)		
Residential MSCC (mg/kg)			47	400
Industrial/Commercial MSCC (mg/kg)			1,226	400
STGW MSCC (mg/kg)			27	270
UST1114-DPT01	10/15/2008	2-4	10.1	29.2
UST1114-DPT02	10/15/2008	2-4	8.57	6.77
UST1114-DPT03	10/15/2008	2-4	11.8	7.55
UST1114-DPT04	10/15/2008	2-4	6.65	6.36
UST1114-DPT05	10/15/2008	2-4	3.93	3.79
UST1114-DPT06	10/15/2008	2-4	4.13	4.01
UST1114-DPT07	10/15/2008	2-4	2.63	3.17
UST1114-DPT08	10/15/2008	2-4	5.91	5.53

All results in milligrams per kilogram (mg/kg).
BOLD values indicate result above Method Detection Limit
ft. BLS = Feet Below Land Surface.
< = Less than method detection limit
MSCC = Maximum Soil Contaminant Concentration



APPENDIX A

CATLIN STANDARD METHODS OF INVESTIGATION

CATLIN STANDARD METHODS OF INVESTIGATION

1.0 DATA COLLECTION

1.1 BACKGROUND DATA

Background data and history information relevant to the site investigation is generated through numerous sources. These sources may include, but are not limited to, the following:

- Conversations with the client and regulatory officials involved with the incident.
- Review of pertinent regulatory correspondence.
- Review of previous and existing reports and other technical data.
- Review of available historical records.

1.2 SURVEYS AND POTENTIAL RECEPTOR DATA

Physical survey and potential receptor data are collected in accordance with the intended level of investigation. In general, the purpose is to collect sufficient information for site assessment and corrective action planning.

Individual receptors are identified and evaluated in the context of their potential for contaminant impact. Potential receptors of contamination can include surface water bodies, groundwater supply wells, wellhead protection areas, and subsurface building structures.

1.2.1 Horizontal Survey

Horizontal survey data are generated using either accepted general field surveying techniques, or existing survey maps; or by using a combination of existing data and field generated information. The survey area generally extends to a point at least 50 feet beyond suspected plume boundaries. A receptor scale survey of a larger area surrounding a site will be made if appropriate and necessary.

1.2.2 Vertical Survey

A vertical survey is conducted at the site typically within an accuracy of 0.01 foot. The datum plane is generally assumed unless otherwise noted. Assumed temporary benchmarks (TBM) are selected near ground level. The vertical survey includes such points as top of all well casings, selected ground shots, important utility inverts, utility fluid levels, important surface water levels, and other items determined to be significant.

1.3 DRILLING AND MONITORING WELL/PIEZOMETER INSTALLATION

Necessary permits are applied for and obtained in accordance with federal, state, and local requirements prior to drilling or well construction activities. Additionally, the well locations are scanned for underground utilities prior to conducting intrusive subsurface activities. Wells are installed under applicable licensing requirements, and are designed and constructed in accordance with accepted standards and practices. Any wells purposely installed at off-site locations are permitted through appropriate right-of-entry agreements with all necessary property owners and/or their agents.

1.3.1 Drilling Methods and Subsurface Data Collection

Drilling is accomplished utilizing one or more of the following methods:

Auger Drilling

Auger drilling is the preferred, most often used method of subsurface investigation and is accomplished using a vehicle or trailer mounted drill rig. Continuous flight auger types used vary upon the site and situation; ranging from the 4-inch outside diameter solid stem to the 12-inch outside diameter hollow stem. Auger type is selected based upon appropriateness and/or site-specific requirements.

Hand Augering

Hand augering is utilized when economically and scientifically feasible, or when no other method is suitable. Hand augers typically produce three-inch diameter holes and are generally limited to depths of less than 15 feet.

Direct Push

Direct push methods of subsurface investigation are used generally for soil screening purposes or collection of groundwater samples where permanent wells are not viable.

Other Methods

Other drilling methods, such as mud and air rotary, rock coring, cable tool, and large bucket augering are used when site conditions or project requirements dictate.

Regardless of the drilling method used, the drill rig(s) and all drilling tools are thoroughly cleaned between boreholes to prevent cross introduction of contaminants. Split spoon samples are collected and field-described at intervals of five feet or less, and cuttings are continuously monitored for organic vapors. Drill cuttings are containerized for off-site disposal or are spread on the ground surface in proximity to the well or boring in accordance with North Carolina Department of Environment and Natural Resources (NCDENR) requirements. A geologist or engineer, trained in using visual/manual techniques, is always present during drilling and is

responsible for subsurface contaminant and geologic data collection. Soils are classified in general agreement with the Unified Soils Classification System (USCS).

1.3.2 Hydropunch Installation

Hydropunch penetrometers (Hydropunches) are used to delineate the spatial extent of dissolved and free phase plumes. Soil borings are advanced to the appropriate depth and then the Hydropunch is advanced through the soil boring into undisturbed material. Groundwater samples are collected by pulling back on the body of the Hydropunch and allowing the groundwater to enter the screened portion of the sample chamber. Samples are retrieved using a decontaminated Teflon bailer or peristaltic pump.

1.3.3 Well Installation

Wells are typically constructed of threaded PVC casing and screen. No glues or cements are used in joining PVC components. Well diameter, slot sizes, and protective covers vary depending upon site-specific conditions or situation-specific requirements.

1.3.4 Well Development

Wells are developed by over-pumping or surging using appropriate pumps, blocks, or bailers. Through development, unwanted fine materials are removed from the natural formation surrounding the well. Well development will be performed no sooner than 24-hours after grouting is completed for the Type III wells. Water generated during development is containerized and properly disposed or is discharged onto the ground in proximity of the well in accordance with NCDENR requirements.

1.4 HYDROGEOLOGIC DATA COLLECTION

Data used to help characterize hydrogeologic conditions at a site are obtained through various procedures including, but not necessarily limited to, those described below:

1.4.1 Regional Geology

Information pertaining to the regional geologic framework is compiled from existing publications, maps, and scientific papers.

1.4.2 Site Geology

Shallow site geology is generally determined from field descriptions and borehole samples. Interpretations with regard to hydrogeologically important contacts, zones, fractures, faults, cleavage, and facies changes are made when possible.

1.4.3 Groundwater Occurrence and Characteristics

Groundwater data is obtained utilizing a number of methods and procedures, not limited to the general list below:

Well Water Levels

After well development, wells are allowed to stabilize for a minimum of 24 hours prior to measuring. Water level and free product thickness (where applicable) measurements are performed using an electronic interface probe or steel tape with water/product finding pastes.

The specific gravity of any accumulated product is determined and used to calculate true hydraulic grade from measured water levels. This information is combined with vertical survey data to determine relative potentiometric surface elevations for all wells.

Aquifer Testing

Various aquifer tests may be used to make determinations of hydraulic conductivity. Slug or pumping tests are often used to characterize site hydrogeologic conditions and to develop remedial action alternatives utilizing appropriate pumping technologies.

Other Methods

Other methods may be deemed appropriate for determining various groundwater characteristics. These other methods may include nested well configurations and/or clustered piezometer installations; sieve or pipette analysis; fracture trace analysis; computer modeling; and geophysical logging.

1.5 PETROLEUM HYDROCARBON DATA COLLECTION

1.5.1 Collection Methods

Petroleum hydrocarbon data is obtained through various methods including, but not limited to, the following:

Field Analysis

- Direct thickness measurement of phase separated components using tapes and/or probes.
- Manual vapor analysis using a photoionization detector (PID) or flame ionization detector (FID).
- Detectable odor and visual observation.

Laboratory Analysis

- Laboratory analysis of phase-separated products.

- Laboratory vapor, soil, and groundwater analysis using appropriate EPA Methods.

1.5.2 Field Sampling

Field sampling procedures are performed in accordance with recommended protocol, accepted industry standards, and under appropriate chain-of-custody procedures. Generally, sampling procedures are as follows:

Product Samples

Product samples are obtained using clean equipment and containers. Each is shipped to the analytical laboratory in protective containers.

Vapor Samples

PID/FID readings are measured from soil sample headspace using containerized samples that have been brought to ambient temperature.

Carbon tubes are utilized in conjunction with a laboratory-calibrated vacuum pump to obtain vapor samples. The carbon tubes are sealed and refrigerated for shipment to the analytical laboratory (This method is known as the Carbon Adsorption Method).

Soil Samples

Soil samples are immediately packed into clean containers, and refrigerated for shipment to the analytical laboratory.

Groundwater Samples

Groundwater samples are collected in accordance with the following procedures:

- Creeks/Lakes/Etc.

Grab samples are obtained.

- Domestic Wells

Wells are pumped for a time sufficient to completely purge the well and any pressure or holding tanks prior to sampling.

- Monitoring Wells

Water level measurements are made and well volumes calculated for each well.

Three well volumes are removed from each well using a thoroughly cleaned Teflon bailer or appropriate purging pump. If it is not possible to

remove three volumes, due to very low yields, a minimum of one volume is removed prior to obtaining a sample.

Where analysis for metals is required, wells are typically sampled utilizing low flow techniques, which reduce turbidity and the potential for matrix interference.

Samples are collected and containerized in a manner that minimizes agitation and contact with the air.

Sampling records are field prepared.

Samples are labeled and proper Chain-of-Custody documents are maintained.

Samples are promptly protectively packed, refrigerated, and shipped to the analytical laboratory for analysis.

2.0 DATA EVALUATION

Data obtained as a result of the site investigation is compiled and evaluated and a report is prepared for client review and distribution to the appropriate agencies. Generally, specific data are evaluated as follows:

- Background data are evaluated in context with the suspected or confirmed problem.
- Survey data are utilized to develop site maps and to evaluate contaminant receptors.
- Well construction records are compiled and presented as part of the report. As-built information is used in combination with other data to evaluate subsurface conditions and monitoring well screen settings as they relate to the investigation.
- Subsurface drilling logs are used to develop geologic cross-sections, fence diagrams, isopaths, structure contours, or other constructions. Regional geologic data are used to obtain an overall framework.
- Hydrogeologic data are used to develop contour maps, flow nets and other constructions. The data is also used to calculate various hydrogeologic parameters that describe aquifer characteristics.
- Hydrocarbon data are utilized to develop various plume geometry and isoconcentration maps.
- All data are compiled and utilized for making specific recommendations with regard to remedial action alternatives.

APPENDIX B
BORING LOGS

BORING LOG

CATLIN
Engineers and Scientists
208-037
Wilmington, NC

SHEET 1 of 1

PROJECT NO.: 208-037	STATE: NC	COUNTY: Onslow	LOCATION: MCB, Camp Lejeune
PROJECT NAME: Building 1114 Additional Soil Sampling	LOGGED BY: Tom Stetler	DRILLER: William J. Miller	BORING ID: DPT-01
NORTHING: 3,839,021.37	EASTING: 286,305.25	CREW: Roger Caulder	
SYSTEM: UTM NAD83 (m)	BORING LOCATION: NNW of O/W Separator	LAND ELEV.: 26.9	
DRILL MACHINE: Power Probe	METHOD: Direct Push	0 HOUR DTW: NE	BORING DEPTH: 8.0
START DATE: 10/15/08	FINISH DATE: 10/15/08	24 HOUR DTW: ~6-10*	ROCK DEPTH: --

DEPTH	BLOW COUNT 0.5 0.5 0.5 0.5	MOI.	OVA RESULTS (ppm)	LAB.	USCS	LOG	DEPTH	SOIL AND ROCK DESCRIPTION	ELEVATION
0.0			0 1000 2000 3000 4000				0.0	LAND SURFACE	26.917
	DIRECT PUSH	D	▲11.4						
2.0					SM/CL			Dark brown to tan, Silty, v.f. SAND w/little interlayered Silty Clay. No HCO.	
	DIRECT PUSH	M	▲20.2	DPT-01					
4.0							4.5		22.4
	DIRECT PUSH	W	▲3.1		SM			Grayish brown, Silty, v.f. SAND. No HCO.	
6.0							6.5		20.4
	DIRECT PUSH	W	▲225		SP			Lt. gray, v.f. SAND w/tr. Silt. Slight HCO.	
8.0							8.0		18.9
								Boring Terminated at Elevation 18.9 ft * = Historical range of DTW Below TOC (~2ft Stick-up) in USTHPFF-MW15.	

▽ = 0hr. DTW

▼ = 24hr. DTW

CATLIN ENVIRO. LOG 208-037 BUILDING-1114 AT HPEE GEL CATLIN GDT 11/18/08

BORING LOG

CATLIN
Engineers and Scientists
208-037
Wilmington, NC

SHEET 1 of 1

PROJECT NO.: 208-037	STATE: NC	COUNTY: Onslow	LOCATION: MCB, Camp Lejeune
PROJECT NAME: Building 1114 Additional Soil Sampling	LOGGED BY: Tom Stetler	BORING ID: DPT-02	
	DRILLER: William J. Miller		
NORTHING: 3,839,026.00	EASTING: 286,311.29	CREW: Roger Caulder	
SYSTEM: UTM NAD83 (m)	BORING LOCATION: SE of USTHPFFC-MW66	LAND ELEV.: 26.8	
DRILL MACHINE: Power Probe	METHOD: Direct Push	0 HOUR DTW: NE	BORING DEPTH: 8.0
START DATE: 10/15/08	FINISH DATE: 10/15/08	24 HOUR DTW: ~6-10*	ROCK DEPTH: --

DEPTH	BLOW COUNT 0.5 0.5 0.5 0.5	MOI.	OVA RESULTS (ppm)	LAB.	USCS	LOG	DEPTH	SOIL AND ROCK DESCRIPTION	ELEVATION
0.0			0 1000 2000 3000 4000				0.0	LAND SURFACE	26.795
	DIRECT PUSH	M	▲0.0		SM			Brown, Silty, v.f. SAND. No HCO.	
2.0							2.5		24.3
	DIRECT PUSH	M	▲0.0	DPT-02					
4.0					SC/ SM			Dark brown, Silty, v.f. SAND w/little interlayered Clay. No HCO.	
	DIRECT PUSH	M	▲40.3						
6.0							6.0		20.8
	DIRECT PUSH	W	▲700		SP			Gray, f. SAND w/tr. interlayered Sandy Clay. Slight HCO.	
8.0							8.0		18.8
								Boring Terminated at Elevation 18.8 ft * = Historical range of DTW Below TOC (~2ft Stick-up) in USTHPFF-MW15.	

▽ = 0hr. DTW

▼ = 24hr. DTW

CATLIN ENVIRO. LOG 208-037 BUILDING-1114 AT HPFF GEL CATLIN GDT 11/18/08

BORING LOG

CATLIN
Engineers and Scientists
208-037
Wilmington, NC

SHEET 1 of 1

PROJECT NO.: 208-037	STATE: NC	COUNTY: Onslow	LOCATION: MCB, Camp Lejeune
PROJECT NAME: Building 1114 Additional Soil Sampling	LOGGED BY: Tom Stetler	BORING ID: DPT-03	
	DRILLER: William J. Miller		
NORTHING: 3,839,029.42	EASTING: 286,315.80	CREW: Roger Caulder	
SYSTEM: UTM NAD83 (m)	BORING LOCATION: NE of USTHPFFC-MW67	LAND ELEV.: 26.5	
DRILL MACHINE: Power Probe	METHOD: Direct Push	0 HOUR DTW: NE	BORING DEPTH: 8.0
START DATE: 10/15/08	FINISH DATE: 10/15/08	24 HOUR DTW: ~6-10*	ROCK DEPTH: --

DEPTH	BLOW COUNT 0.5 0.5 0.5 0.5	MOI.	OVA RESULTS (ppm)	LAB.	USCS	LOG	DEPTH	SOIL AND ROCK DESCRIPTION	ELEVATION
0.0			0 1000 2000 3000 4000				0.0	LAND SURFACE	26.493
	DIRECT PUSH	M	▲0.0		SM			Lt. brown, Silty, f. SAND w/tr. Clay. No HCO.	
2.0									
	DIRECT PUSH	M	▲0.3	DPT-03	SC/ CL		3.0	Dark brown, f. grained Sandy CLAY and Clayey, f. SAND. No HCO.	23.5
4.0							4.0		22.5
	DIRECT PUSH	M	▲676		SM			Dark brown to gray, Silty, f. SAND w/tr. interlayered Clay. Mod. HCO.	
6.0									
	DIRECT PUSH	W	▲1133		SP		7.0	Gray, f. SAND w/tr. Silt. Strong HCO.	19.5
8.0							8.0		18.5
								Boring Terminated at Elevation 18.5 ft * = Historical range of DTW Below TOC (~2ft Stick-up) in USTHPFF-MW15.	

▽ = 0hr. DTW

▼ = 24hr. DTW

CATLIN ENVIRO. LOG 208-037 BUILDING-1114 AT HPFF G.P. CATLIN GDT 11/18/08

BORING LOG

CATLIN
Engineers and Scientists
208-037
Wilmington, NC

SHEET 1 of 1

PROJECT NO.: 208-037	STATE: NC	COUNTY: Onslow	LOCATION: MCB, Camp Lejeune
PROJECT NAME: Building 1114 Additional Soil Sampling	LOGGED BY: Tom Stetler	BORING ID: DPT-04	
	DRILLER: William J. Miller		
NORTHING: 3,839,026.44	EASTING: 286,318.51	CREW: Roger Caulder	
SYSTEM: UTM NAD83 (m)	BORING LOCATION: SE of USTHPFF-MW72	LAND ELEV.: 27.9	
DRILL MACHINE: Power Probe	METHOD: Direct Push	0 HOUR DTW: NE	BORING DEPTH: 8.0
START DATE: 10/15/08	FINISH DATE: 10/15/08	24 HOUR DTW: ~6-10*	ROCK DEPTH: --

DEPTH	BLOW COUNT 0.5 0.5 0.5 0.5	MOI.	OVA RESULTS (ppm)	LAB.	USCS	LOG	DEPTH	SOIL AND ROCK DESCRIPTION	ELEVATION
0.0			0 1000 2000 3000 4000				0.0	LAND SURFACE	27.854
	DIRECT PUSH	M	▲2.3		SM			Brown, Silty, f. SAND. No HCO.	
2.0									
	DIRECT PUSH	M	▲3.2	DPT-04 (DPT-04D)			3.0		24.9
4.0					SC/ SM			Dark brown, Silty to Clayey, f. SAND. No HCO.	
	DIRECT PUSH	W	▲23.9						
6.0							6.0		21.9
	DIRECT PUSH	M	▲35.1		CL			Gray, Silty, low plasticity CLAY. Slight HCO.	
							7.7		20.2
8.0								Boring Terminated at Elevation 19.9 ft * = Historical range of DTW Below TOC (~2ft Stick-up) in USTHPFF-MW15.	

▽ = 0hr. DTW

▼ = 24hr. DTW

CATLIN ENVIRO. LOG 208-037 BUILDING-1114 AT HPFF G.P. CATLIN GDT 11/18/08

BORING LOG

CATLIN
Engineers and Scientists
208-037
Wilmington, NC

SHEET 1 of 1

PROJECT NO.: 208-037	STATE: NC	COUNTY: Onslow	LOCATION: MCB, Camp Lejeune
PROJECT NAME: Building 1114 Additional Soil Sampling	LOGGED BY: Tom Stetler	BORING ID: DPT-05	
	DRILLER: William J. Miller		
NORTHING: 3,839,023.34	EASTING: 286,314.15	CREW: Roger Caulder	
SYSTEM: UTM NAD83 (m)	BORING LOCATION: SW of USTHPFF-MW15	LAND ELEV.: 28.2	
DRILL MACHINE: Power Probe	METHOD: Direct Push	0 HOUR DTW: NE	BORING DEPTH: 8.0
START DATE: 10/15/08	FINISH DATE: 10/15/08	24 HOUR DTW: ~6-10*	ROCK DEPTH: --

DEPTH	BLOW COUNT 0.5 0.5 0.5 0.5	MOI.	OVA RESULTS (ppm)	LAB.	U S C S	L O G	DEPTH	SOIL AND ROCK DESCRIPTION	ELEVATION
0.0			0 1000 2000 3000 4000				0.0	LAND SURFACE	28.23
	DIRECT PUSH	M	▲0.0						
2.0					SM			Brown, Silty, f. SAND. No HCO.	
	DIRECT PUSH	M	▲0.2	DPT-05			3.5		24.7
4.0					SC		4.0	Dark brown, Clayey, f. SAND. Organic rich. No HCO.	24.2
	DIRECT PUSH	W	▲12.4		SM			Grayish brown, Clayey, f. SAND. Slight HCO.	
6.0							6.0		22.2
	DIRECT PUSH	W	▲515		CL			Gray, low plasticity, f. grained Sandy to Silty CLAY. Strong HCO.	
8.0							7.8		20.4
					SP		8.0	Gray, f. SAND. Strong HCO.	20.2
								Boring Terminated at Elevation 20.2 ft * = Historical range of DTW Below TOC (~2ft Stick-up) in USTHPFF-MW15.	

▽ = 0hr. DTW

▼ = 24hr. DTW

CATLIN ENVIRO. LOG 208-037 BUILDING-1114 AT HPFF GEL CATLIN GDT 11/18/08

BORING LOG

CATLIN
Engineers and Scientists
208-037
Wilmington, NC

SHEET 1 of 1

PROJECT NO.: 208-037	STATE: NC	COUNTY: Onslow	LOCATION: MCB, Camp Lejeune
PROJECT NAME: Building 1114 Additional Soil Sampling	LOGGED BY: Tom Stetler	BORING ID: DPT-06	
	DRILLER: William J. Miller		
NORTHING: 3,839,019.62	EASTING: 286,320.72	CREW: Roger Caulder	
SYSTEM: UTM NAD83 (m)	BORING LOCATION: Central portion of washpad SW of 1114	LAND ELEV.: 28.2	
DRILL MACHINE: Power Probe	METHOD: Direct Push	0 HOUR DTW: NE	BORING DEPTH: 8.0
START DATE: 10/15/08	FINISH DATE: 10/15/08	24 HOUR DTW: ~6-10*	ROCK DEPTH: --

DEPTH	BLOW COUNT 0.5 0.5 0.5 0.5	MOI.	OVA RESULTS (ppm)	LAB.	USCS	LOG	DEPTH	SOIL AND ROCK DESCRIPTION	ELEVATION
0.0							0.0	LAND SURFACE	28.166
							0.6	CONCRETE	27.6
							1.0	Limestone Gravel - FILL	27.2
2.0	DIRECT PUSH	W	▲71.4		SC/ SM		3.0	Dark brown, Silty to Clayey, f. SAND. Strong HCO.	25.2
4.0	DIRECT PUSH	M	▲142	DPT-06	SC		4.0	Dark brown, Clayey, f. SAND. High organic content. Strong HCO.	24.2
6.0	DIRECT PUSH	M	▲216		SM		7.3	Dark brown, Silty, f. SAND w/tr. Clay.	20.9
8.0	DIRECT PUSH	W	▲102		CL		8.0	Gray, Silty CLAY. Low plasticity. Tr. wood frags.	20.2
								Boring Terminated at Elevation 20.2 ft * = Historical range of DTW Below TOC (~2ft Stick-up) in USTHPFF-MW15.	

▽ = 0hr. DTW

▼ = 24hr. DTW

CATLIN ENVIRO. LOG 208-037 BUILDING-1114 AT HPFF GEL CATLIN.GDT 11/18/08

BORING LOG

CATLIN
Engineers and Scientists
208-037
Wilmington, NC

SHEET 1 of 1

PROJECT NO.: 208-037	STATE: NC	COUNTY: Onslow	LOCATION: MCB, Camp Lejeune
PROJECT NAME: Building 1114 Additional Soil Sampling	LOGGED BY: Tom Stetler	BORING ID: DPT-07	
	DRILLER: William J. Miller		
NORTHING: 3,839,009.49	EASTING: 286,317.48	CREW: Roger Caulder	
SYSTEM: UTM NAD83 (m)	BORING LOCATION: South of washpad	LAND ELEV.: 28.9	
DRILL MACHINE: Power Probe	METHOD: Direct Push	0 HOUR DTW: NE	BORING DEPTH: 8.0
START DATE: 10/15/08	FINISH DATE: 10/15/08	24 HOUR DTW: ~6-10*	ROCK DEPTH: --

DEPTH	BLOW COUNT 0.5 0.5 0.5 0.5	MOI.	OVA RESULTS (ppm)	LAB.	U S C S	LOG	DEPTH	SOIL AND ROCK DESCRIPTION	ELEVATION
0.0			0 1000 2000 3000 4000				0.0	LAND SURFACE	28.856
							0.4	CONCRETE	28.5
	DIRECT PUSH	M	▲0.0		SM			Brown, Silty, f. SAND. No HCO.	
2.0							2.8		26.1
	DIRECT PUSH	M	▲19.3	DPT-07	GW		3.0	Layer of Gravel.	25.9
4.0									
	DIRECT PUSH	W	▲26.4		SC/ SM			Dark brown, Silty to Clayey, f. SAND w/tr. interlayered Sands. Slight HCO.	
6.0									
	DIRECT PUSH	W	▲215				7.0		21.9
8.0					CL		8.0	Gray, low plasticity, Silty CLAY w/tr. wood frags. Mod. to strong HCO.	20.9
								Boring Terminated at Elevation 20.9 ft * = Historical range of DTW Below TOC (~2ft Stick-up) in USTHPFF-MW15.	

▽ = 0hr. DTW

▼ = 24hr. DTW

CATLIN ENVIRO. LOG 208-037 BUILDING-1114 AT HPFF GEL CATLIN.GDT 11/18/08

BORING LOG

CATLIN
Engineers and Scientists
208-037
Wilmington, NC

SHEET 1 of 1

PROJECT NO.: 208-037	STATE: NC	COUNTY: Onslow	LOCATION: MCB, Camp Lejeune
PROJECT NAME: Building 1114 Additional Soil Sampling	LOGGED BY: Tom Stetler	BORING ID: DPT-08	
	DRILLER: William J. Miller		
NORTHING: 3,839,016.82	EASTING: 286,329.15	CREW: Roger Caulder	
SYSTEM: UTM NAD83 (m)	BORING LOCATION: East of washpad	LAND ELEV.: 28.1	
DRILL MACHINE: Power Probe	METHOD: Direct Push	0 HOUR DTW: NE	BORING DEPTH: 8.0
START DATE: 10/15/08	FINISH DATE: 10/15/08	24 HOUR DTW: ~6-10*	ROCK DEPTH: --

DEPTH	BLOW COUNT 0.5 0.5 0.5 0.5	MOI.	OVA RESULTS (ppm)	LAB.	USCS	LOG	DEPTH	SOIL AND ROCK DESCRIPTION	ELEVATION
0.0			0 1000 2000 3000 4000				0.0	LAND SURFACE	28.081
							0.5	ASPHALT	27.6
							0.8	Gravel FILL.	27.3
	DIRECT PUSH	M	▲0.8						
2.0									
	DIRECT PUSH	M	▲84.6	DPT-08	SC/SM				
4.0									
	DIRECT PUSH	W	▲26.7				5.0	Dark brown, interlayered Silty, f. SAND and Clayey, f. SAND w/tr. wood and root frags. Slight HCO @ base.	23.1
6.0									
	DIRECT PUSH	W	▲49.8		SM			Grayish brown, Silty, f. SAND. Slight HCO.	
							7.3		20.8
8.0								Gray, interlayered Clayey, f. SAND and Sandy CLAY.	
					SC/CL		8.0		20.1
								Boring Terminated at Elevation 20.1 ft * = Historical range of DTW Below TOC in USTHPFF-MW15.	

▽ = 0hr. DTW

▼ = 24hr. DTW

CATLIN ENVIRO. LOG 208-037 BUILDING-1114 AT HPFF G.P.J. CATLIN GDT 11/18/08

APPENDIX C

**LABORATORY RESULTS
AND
CHAIN-OF-CUSTODY DOCUMENTATION**

SGS ENVIRONMENTAL SERVICES, INC.

Steve Hudson
Richard Catlin & Associates
P.O. Box 10279
Wilmington, NC 28404-0279

Report Number: G128-2261

Client Project: Building 1114 & HPFF

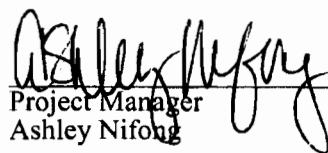
Dear Steve Hudson,

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

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

Sincerely,
SGS Environmental Services, Inc.

 10/28/08
Project Manager Date
Ashley Nifong

Case Narrative

Catlin

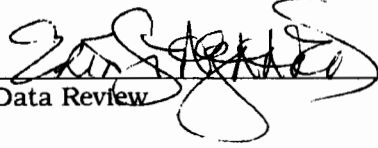
SGS Project: **G128-2261**

Project Name: **Building 1114 & HPFF**

SGS Environmental Services Inc.

October 28, 2008

- Nine soil samples and a trip blank were accepted into the laboratory on October 16, 2008 at 0945 for analyses as indicated on the chain of custody. The samples were received in good condition, with a temperature of 3.8°C.
- All extractions and analyses were completed within holding time limits with the following quality control exceptions.
- Methylene Chloride was detected in the methanol trip blank at a concentration below the reporting limit, but above the method detection limit. It was also detected in sample UST1114-DPT08 (2-4) (G128-2261-9D) at a similar concentration. This compound is a common laboratory solvent and its detection may be due the background concentration found in the trip blank.

 _____ Date 28 OCT 08
Data Review

List of Reporting Abbreviations
And Data Qualifiers

B = Compound also detected in batch blank

BQL = Below Quantification Limit (RL or MDL)

DF = Dilution Factor

Dup = Duplicate

P/D = Detected, but RPD is > 25/40% 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/CL = Reporting Limit / Control Limit

RPD = Relative Percent Difference

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

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

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

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

% Rec = Percent Recovery

% solids = Percent Solids

Special Notes:

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

**Results for Volatiles
by GCMS 8260-5035**

Client Sample ID: UST1114-DPT01 (2-4)
 Client Project ID: Building 1114 & HPFF
 Lab Sample ID G128-2261-1A
 Lab Project ID: G128-2261
 Report Basis: Dry Weight

Analyzed By: MJC
 Date Collected: 10-15-2008 10:20
 Date Received: 10/16/2008
 Matrix: Soil
 Sample Amount: 6.59 g
 %Solids: 87.0

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	MDL MG/KG	Dilution Factor	Date Analyzed	Flag
Acetone	BQL	0.0436	0.00603	1	10/21/2008	
Benzene	BQL	0.00436	0.00093	1	10/21/2008	
Bromobenzene	BQL	0.00436	0.00090	1	10/21/2008	
Bromochloromethane	BQL	0.00436	0.00150	1	10/21/2008	
Bromodichloromethane	BQL	0.00436	0.00087	1	10/21/2008	
Bromoform	BQL	0.00436	0.00087	1	10/21/2008	
Bromomethane	BQL	0.00436	0.00092	1	10/21/2008	
2-Butanone	BQL	0.0218	0.00474	1	10/21/2008	
n-Butylbenzene	BQL	0.00436	0.00083	1	10/21/2008	
sec-Butylbenzene	BQL	0.00436	0.00088	1	10/21/2008	
tert-Butylbenzene	BQL	0.00436	0.00098	1	10/21/2008	
Carbon disulfide	BQL	0.00436	0.00234	1	10/21/2008	
Carbon tetrachloride	BQL	0.00436	0.00089	1	10/21/2008	
Chlorobenzene	BQL	0.00436	0.00104	1	10/21/2008	
Chloroethane	BQL	0.00436	0.00139	1	10/21/2008	
Chloroform	BQL	0.00436	0.00105	1	10/21/2008	
Chloromethane	BQL	0.00436	0.00099	1	10/21/2008	
2-Chlorotoluene	BQL	0.00436	0.00088	1	10/21/2008	
4-Chlorotoluene	BQL	0.00436	0.00109	1	10/21/2008	
Dibromochloromethane	BQL	0.00436	0.00120	1	10/21/2008	
1,2-Dibromo-3-chloropropane	BQL	0.0218	0.00126	1	10/21/2008	
Dibromomethane	BQL	0.00436	0.00132	1	10/21/2008	
1,2-Dibromoethane (EDB)	BQL	0.00436	0.00099	1	10/21/2008	
1,2-Dichlorobenzene	BQL	0.00436	0.00113	1	10/21/2008	
1,3-Dichlorobenzene	BQL	0.00436	0.00112	1	10/21/2008	
1,4-Dichlorobenzene	BQL	0.00436	0.00092	1	10/21/2008	
trans-1,4-Dichloro-2-butene	BQL	0.0218	0.00120	1	10/21/2008	
1,1-Dichloroethane	BQL	0.00436	0.00093	1	10/21/2008	
1,1-Dichloroethene	BQL	0.00436	0.00129	1	10/21/2008	
1,2-Dichloroethane	BQL	0.00436	0.00115	1	10/21/2008	
cis-1,2-Dichloroethene	BQL	0.00436	0.00112	1	10/21/2008	
trans-1,2-dichloroethene	BQL	0.00436	0.00099	1	10/21/2008	
1,2-Dichloropropane	BQL	0.00436	0.00103	1	10/21/2008	
1,3-Dichloropropane	BQL	0.00436	0.00098	1	10/21/2008	
2,2-Dichloropropane	BQL	0.00436	0.00105	1	10/21/2008	
1,1-Dichloropropene	BQL	0.00436	0.00137	1	10/21/2008	
cis-1,3-Dichloropropene	BQL	0.00436	0.00073	1	10/21/2008	
trans-1,3-Dichloropropene	BQL	0.00436	0.00084	1	10/21/2008	
Dichlorodifluoromethane	BQL	0.00436	0.00115	1	10/21/2008	
Diisopropyl ether (DIPE)	BQL	0.00436	0.00099	1	10/21/2008	
Ethylbenzene	BQL	0.00436	0.00076	1	10/21/2008	
Hexachlorobutadiene	BQL	0.00436	0.00085	1	10/21/2008	
2-Hexanone	BQL	0.0109	0.00283	1	10/21/2008	
Iodomethane	BQL	0.00436	0.00094	1	10/21/2008	

**Results for Volatiles
by GCMS 8260-5035**

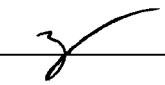
Client Sample ID: UST1114-DPT01 (2-4)
 Client Project ID: Building 1114 & HPFF
 Lab Sample ID G128-2261-1A
 Lab Project ID: G128-2261
 Report Basis: Dry Weight

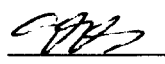
Analyzed By: MJC
 Date Collected: 10-15-2008 10:20
 Date Received: 10/16/2008
 Matrix: Soil
 Sample Amount: 6.59 g
 %Solids: 87.0

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	MDL MG/KG	Dilution Factor	Date Analyzed	Flag
Isopropylbenzene	BQL	0.00436	0.00078	1	10/21/2008	
4-Isopropyltoluene	BQL	0.00436	0.00093	1	10/21/2008	
Methylene chloride	BQL	0.0174	0.00104	1	10/21/2008	
4-Methyl-2-pentanone	BQL	0.0109	0.00404	1	10/21/2008	
Methyl-tert-butyl ether (MTBE)	BQL	0.00436	0.00097	1	10/21/2008	
Naphthalene	BQL	0.00436	0.00074	1	10/21/2008	
n-Propyl benzene	BQL	0.00436	0.00110	1	10/21/2008	
Styrene	BQL	0.00436	0.00096	1	10/21/2008	
1,1,1,2-Tetrachloroethane	BQL	0.00436	0.00089	1	10/21/2008	
1,1,2,2-Tetrachloroethane	BQL	0.00436	0.00099	1	10/21/2008	
Tetrachloroethene	BQL	0.00436	0.00080	1	10/21/2008	
Toluene	BQL	0.00436	0.00087	1	10/21/2008	
1,2,3-Trichlorobenzene	BQL	0.00436	0.00091	1	10/21/2008	
1,2,4-Trichlorobenzene	BQL	0.00436	0.00090	1	10/21/2008	
Trichloroethene	BQL	0.00436	0.00083	1	10/21/2008	
1,1,1-Trichloroethane	BQL	0.00436	0.00099	1	10/21/2008	
1,1,2-Trichloroethane	BQL	0.00436	0.00143	1	10/21/2008	
Trichlorofluoromethane	BQL	0.00436	0.00090	1	10/21/2008	
1,2,3-Trichloropropane	BQL	0.00436	0.00108	1	10/21/2008	
1,2,4-Trimethylbenzene	BQL	0.00436	0.00110	1	10/21/2008	
1,3,5-Trimethylbenzene	BQL	0.00436	0.00099	1	10/21/2008	
Vinyl chloride	BQL	0.00436	0.00119	1	10/21/2008	
m-,p-Xylene	BQL	0.00872	0.00167	1	10/21/2008	
o-Xylene	BQL	0.00436	0.00085	1	10/21/2008	

	Spike Added	Spike Result	Percent Recovered
1,2-Dichloroethane-d4	0.05	0.0615	123
Toluene-d8	0.05	0.053	106
4-Bromofluorobenzene	0.05	0.0452	90

Comments:**Flags:**

Analyst: 

Reviewed By: 

**Results for Volatiles
by GCMS 8260-5035**

Client Sample ID: UST1114-DPT02 (2-4)
 Client Project ID: Building 1114 & HPFF
 Lab Sample ID G128-2261-2A
 Lab Project ID: G128-2261
 Report Basis: Dry Weight

Analyzed By: MJC
 Date Collected: 10-15-2008 10:45
 Date Received: 10/16/2008
 Matrix: Soil
 Sample Amount: 6.51 g
 %Solids: 84.9

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	MDL MG/KG	Dilution Factor	Date Analyzed	Flag
Acetone	BQL	0.0451	0.00624	1	10/21/2008	
Benzene	BQL	0.00451	0.00097	1	10/21/2008	
Bromobenzene	BQL	0.00451	0.00093	1	10/21/2008	
Bromochloromethane	BQL	0.00451	0.00155	1	10/21/2008	
Bromodichloromethane	BQL	0.00451	0.00090	1	10/21/2008	
Bromoform	BQL	0.00451	0.00090	1	10/21/2008	
Bromomethane	BQL	0.00451	0.00095	1	10/21/2008	
2-Butanone	BQL	0.0226	0.00490	1	10/21/2008	
n-Butylbenzene	BQL	0.00451	0.00086	1	10/21/2008	
sec-Butylbenzene	BQL	0.00451	0.00091	1	10/21/2008	
tert-Butylbenzene	BQL	0.00451	0.00101	1	10/21/2008	
Carbon disulfide	BQL	0.00451	0.00242	1	10/21/2008	
Carbon tetrachloride	BQL	0.00451	0.00092	1	10/21/2008	
Chlorobenzene	BQL	0.00451	0.00107	1	10/21/2008	
Chloroethane	BQL	0.00451	0.00144	1	10/21/2008	
Chloroform	BQL	0.00451	0.00108	1	10/21/2008	
Chloromethane	BQL	0.00451	0.00102	1	10/21/2008	
2-Chlorotoluene	BQL	0.00451	0.00091	1	10/21/2008	
4-Chlorotoluene	BQL	0.00451	0.00113	1	10/21/2008	
Dibromochloromethane	BQL	0.00451	0.00125	1	10/21/2008	
1,2-Dibromo-3-chloropropane	BQL	0.0226	0.00131	1	10/21/2008	
Dibromomethane	BQL	0.00451	0.00136	1	10/21/2008	
1,2-Dibromoethane (EDB)	BQL	0.00451	0.00102	1	10/21/2008	
1,2-Dichlorobenzene	BQL	0.00451	0.00116	1	10/21/2008	
1,3-Dichlorobenzene	BQL	0.00451	0.00116	1	10/21/2008	
1,4-Dichlorobenzene	BQL	0.00451	0.00095	1	10/21/2008	
trans-1,4-Dichloro-2-butene	BQL	0.0226	0.00125	1	10/21/2008	
1,1-Dichloroethane	BQL	0.00451	0.00096	1	10/21/2008	
1,1-Dichloroethene	BQL	0.00451	0.00134	1	10/21/2008	
1,2-Dichloroethane	BQL	0.00451	0.00119	1	10/21/2008	
cis-1,2-Dichloroethene	BQL	0.00451	0.00116	1	10/21/2008	
trans-1,2-dichloroethene	BQL	0.00451	0.00102	1	10/21/2008	
1,2-Dichloropropane	BQL	0.00451	0.00107	1	10/21/2008	
1,3-Dichloropropane	BQL	0.00451	0.00101	1	10/21/2008	
2,2-Dichloropropane	BQL	0.00451	0.00108	1	10/21/2008	
1,1-Dichloropropene	BQL	0.00451	0.00142	1	10/21/2008	
cis-1,3-Dichloropropene	BQL	0.00451	0.00075	1	10/21/2008	
trans-1,3-Dichloropropene	BQL	0.00451	0.00087	1	10/21/2008	
Dichlorodifluoromethane	BQL	0.00451	0.00119	1	10/21/2008	
Diisopropyl ether (DIPE)	BQL	0.00451	0.00102	1	10/21/2008	
Ethylbenzene	BQL	0.00451	0.00078	1	10/21/2008	
Hexachlorobutadiene	BQL	0.00451	0.00088	1	10/21/2008	
2-Hexanone	BQL	0.0113	0.00293	1	10/21/2008	
Iodomethane	BQL	0.00451	0.00098	1	10/21/2008	

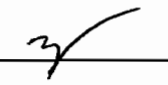
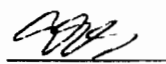
**Results for Volatiles
by GCMS 8260-5035**

Client Sample ID: UST1114-DPT02 (2-4)
 Client Project ID: Building 1114 & HPFF
 Lab Sample ID G128-2261-2A
 Lab Project ID: G128-2261
 Report Basis: Dry Weight

Analyzed By: MJC
 Date Collected: 10-15-2008 10:45
 Date Received: 10/16/2008
 Matrix: Soil
 Sample Amount: 6.51 g
 %Solids: 84.9

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	MDL MG/KG	Dilution Factor	Date Analyzed	Flag
Isopropylbenzene	BQL	0.00451	0.00080	1	10/21/2008	
4-Isopropyltoluene	BQL	0.00451	0.00097	1	10/21/2008	
Methylene chloride	BQL	0.0181	0.00107	1	10/21/2008	
4-Methyl-2-pentanone	BQL	0.0113	0.00418	1	10/21/2008	
Methyl-tert-butyl ether (MTBE)	BQL	0.00451	0.00100	1	10/21/2008	
Naphthalene	BQL	0.00451	0.00077	1	10/21/2008	
n-Propyl benzene	BQL	0.00451	0.00114	1	10/21/2008	
Styrene	BQL	0.00451	0.00099	1	10/21/2008	
1,1,1,2-Tetrachloroethane	BQL	0.00451	0.00092	1	10/21/2008	
1,1,2,2-Tetrachloroethane	BQL	0.00451	0.00102	1	10/21/2008	
Tetrachloroethene	BQL	0.00451	0.00083	1	10/21/2008	
Toluene	BQL	0.00451	0.00090	1	10/21/2008	
1,2,3-Trichlorobenzene	BQL	0.00451	0.00094	1	10/21/2008	
1,2,4-Trichlorobenzene	BQL	0.00451	0.00093	1	10/21/2008	
Trichloroethene	BQL	0.00451	0.00086	1	10/21/2008	
1,1,1-Trichloroethane	BQL	0.00451	0.00102	1	10/21/2008	
1,1,2-Trichloroethane	BQL	0.00451	0.00148	1	10/21/2008	
Trichlorofluoromethane	BQL	0.00451	0.00093	1	10/21/2008	
1,2,3-Trichloropropane	BQL	0.00451	0.00112	1	10/21/2008	
1,2,4-Trimethylbenzene	BQL	0.00451	0.00114	1	10/21/2008	
1,3,5-Trimethylbenzene	BQL	0.00451	0.00103	1	10/21/2008	
Vinyl chloride	BQL	0.00451	0.00123	1	10/21/2008	
m-,p-Xylene	BQL	0.00903	0.00173	1	10/21/2008	
o-Xylene	BQL	0.00451	0.00088	1	10/21/2008	

	Spike Added	Spike Result	Percent Recovered
1,2-Dichloroethane-d4	0.05	0.0613	123
Toluene-d8	0.05	0.0539	108
4-Bromofluorobenzene	0.05	0.0447	89

Comments:**Flags:**Analyst: Reviewed By: 

**Results for Volatiles
by GCMS 8260-5035**

Client Sample ID: UST1114-DPT03 (2-4)
 Client Project ID: Building 1114 & HPFF
 Lab Sample ID G128-2261-3A
 Lab Project ID: G128-2261
 Report Basis: Dry Weight

Analyzed By: MJC
 Date Collected: 10-15-2008 11:05
 Date Received: 10/16/2008
 Matrix: Soil
 Sample Amount: 6.46 g
 %Solids: 82.9

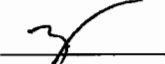
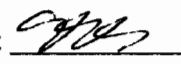
Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	MDL MG/KG	Dilution Factor	Date Analyzed	Flag
Acetone	0.00799	0.0467	0.00645	1	10/21/2008	J
Benzene	BQL	0.00467	0.00100	1	10/21/2008	
Bromobenzene	BQL	0.00467	0.00096	1	10/21/2008	
Bromochloromethane	BQL	0.00467	0.00161	1	10/21/2008	
Bromodichloromethane	BQL	0.00467	0.00093	1	10/21/2008	
Bromoform	BQL	0.00467	0.00093	1	10/21/2008	
Bromomethane	BQL	0.00467	0.00098	1	10/21/2008	
2-Butanone	BQL	0.0233	0.00507	1	10/21/2008	
n-Butylbenzene	BQL	0.00467	0.00089	1	10/21/2008	
sec-Butylbenzene	BQL	0.00467	0.00094	1	10/21/2008	
tert-Butylbenzene	BQL	0.00467	0.00105	1	10/21/2008	
Carbon disulfide	BQL	0.00467	0.00250	1	10/21/2008	
Carbon tetrachloride	BQL	0.00467	0.00095	1	10/21/2008	
Chlorobenzene	BQL	0.00467	0.00111	1	10/21/2008	
Chloroethane	BQL	0.00467	0.00148	1	10/21/2008	
Chloroform	BQL	0.00467	0.00112	1	10/21/2008	
Chloromethane	BQL	0.00467	0.00106	1	10/21/2008	
2-Chlorotoluene	BQL	0.00467	0.00094	1	10/21/2008	
4-Chlorotoluene	BQL	0.00467	0.00117	1	10/21/2008	
Dibromochloromethane	BQL	0.00467	0.00129	1	10/21/2008	
1,2-Dibromo-3-chloropropane	BQL	0.0233	0.00135	1	10/21/2008	
Dibromomethane	BQL	0.00467	0.00141	1	10/21/2008	
1,2-Dibromoethane (EDB)	BQL	0.00467	0.00106	1	10/21/2008	
1,2-Dichlorobenzene	BQL	0.00467	0.00120	1	10/21/2008	
1,3-Dichlorobenzene	BQL	0.00467	0.00120	1	10/21/2008	
1,4-Dichlorobenzene	BQL	0.00467	0.00098	1	10/21/2008	
trans-1,4-Dichloro-2-butene	BQL	0.0233	0.00129	1	10/21/2008	
1,1-Dichloroethane	BQL	0.00467	0.00099	1	10/21/2008	
1,1-Dichloroethene	BQL	0.00467	0.00138	1	10/21/2008	
1,2-Dichloroethane	BQL	0.00467	0.00123	1	10/21/2008	
cis-1,2-Dichloroethene	BQL	0.00467	0.00120	1	10/21/2008	
trans-1,2-dichloroethene	BQL	0.00467	0.00106	1	10/21/2008	
1,2-Dichloropropane	BQL	0.00467	0.00110	1	10/21/2008	
1,3-Dichloropropane	BQL	0.00467	0.00105	1	10/21/2008	
2,2-Dichloropropane	BQL	0.00467	0.00112	1	10/21/2008	
1,1-Dichloropropene	BQL	0.00467	0.00147	1	10/21/2008	
cis-1,3-Dichloropropene	BQL	0.00467	0.00078	1	10/21/2008	
trans-1,3-Dichloropropene	BQL	0.00467	0.00090	1	10/21/2008	
Dichlorodifluoromethane	BQL	0.00467	0.00123	1	10/21/2008	
Diisopropyl ether (DIPE)	BQL	0.00467	0.00106	1	10/21/2008	
Ethylbenzene	BQL	0.00467	0.00081	1	10/21/2008	
Hexachlorobutadiene	BQL	0.00467	0.00091	1	10/21/2008	
2-Hexanone	BQL	0.0117	0.00303	1	10/21/2008	
Iodomethane	BQL	0.00467	0.00101	1	10/21/2008	

**Results for Volatiles
by GCMS 8260-5035**

Client Sample ID: UST1114-DPT03 (2-4)
 Client Project ID: Building 1114 & HPFF
 Lab Sample ID G128-2261-3A
 Lab Project ID: G128-2261
 Report Basis: Dry Weight

Analyzed By: MJC
 Date Collected: 10-15-2008 11:05
 Date Received: 10/16/2008
 Matrix: Soil
 Sample Amount: 6.46 g
 %Solids: 82.9

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	MDL MG/KG	Dilution Factor	Date Analyzed	Flag
Isopropylbenzene	BQL	0.00467	0.00083	1	10/21/2008	
4-Isopropyltoluene	BQL	0.00467	0.00100	1	10/21/2008	
Methylene chloride	BQL	0.0187	0.00111	1	10/21/2008	
4-Methyl-2-pentanone	BQL	0.0117	0.00432	1	10/21/2008	
Methyl-tert-butyl ether (MTBE)	BQL	0.00467	0.00104	1	10/21/2008	
Naphthalene	BQL	0.00467	0.00079	1	10/21/2008	
n-Propyl benzene	BQL	0.00467	0.00118	1	10/21/2008	
Styrene	BQL	0.00467	0.00103	1	10/21/2008	
1,1,1,2-Tetrachloroethane	BQL	0.00467	0.00095	1	10/21/2008	
1,1,2,2-Tetrachloroethane	BQL	0.00467	0.00106	1	10/21/2008	
Tetrachloroethene	BQL	0.00467	0.00086	1	10/21/2008	
Toluene	BQL	0.00467	0.00093	1	10/21/2008	
1,2,3-Trichlorobenzene	BQL	0.00467	0.00097	1	10/21/2008	
1,2,4-Trichlorobenzene	BQL	0.00467	0.00096	1	10/21/2008	
Trichloroethene	BQL	0.00467	0.00089	1	10/21/2008	
1,1,1-Trichloroethane	BQL	0.00467	0.00106	1	10/21/2008	
1,1,2-Trichloroethane	BQL	0.00467	0.00153	1	10/21/2008	
Trichlorofluoromethane	BQL	0.00467	0.00096	1	10/21/2008	
1,2,3-Trichloropropane	BQL	0.00467	0.00116	1	10/21/2008	
1,2,4-Trimethylbenzene	BQL	0.00467	0.00118	1	10/21/2008	
1,3,5-Trimethylbenzene	BQL	0.00467	0.00106	1	10/21/2008	
Vinyl chloride	BQL	0.00467	0.00127	1	10/21/2008	
m-,p-Xylene	BQL	0.00934	0.00179	1	10/21/2008	
o-Xylene	BQL	0.00467	0.00091	1	10/21/2008	
		Spike Added	Spike Result	Percent Recovered		
1,2-Dichloroethane-d4		0.05	0.0575	115		
Toluene-d8		0.05	0.0515	103		
4-Bromofluorobenzene		0.05	0.0453	91		

Comments:**Flags:**Analyst: Reviewed By: 

**Results for Volatiles
by GCMS 8260B/5035**

Client Sample ID: UST1114-DPT04 (2-4)

Analyzed By: CLP

Client Project ID: Building 1114 & HPFF

Date Collected: 10/15/2008 11:20

Lab Sample ID: G128-2261-4D

Date Received: 10/16/2008

Lab Project ID: G128-2261

Matrix: Soil

Report Basis: Dry Weight

Sample Amount: 6.11 g

%Solids: 77.5

Compound	Result MG/KG	Quantitation Limit MG/KG	MDL MG/KG	Dilution Factor	Date Analyzed	Flag
Acetone	BQL	1.32	0.115	50	10/23/2008	
Benzene	BQL	0.0528	0.00343	50	10/23/2008	
Bromobenzene	BQL	0.0528	0.00296	50	10/23/2008	
Bromochloromethane	BQL	0.0528	0.00533	50	10/23/2008	
Bromodichloromethane	BQL	0.0528	0.00401	50	10/23/2008	
Bromoform	BQL	0.0528	0.00633	50	10/23/2008	
Bromomethane	BQL	0.0528	0.00702	50	10/23/2008	
2-Butanone	BQL	1.32	0.0287	50	10/23/2008	
n-Butylbenzene	BQL	0.0528	0.00575	50	10/23/2008	
sec-Butylbenzene	BQL	0.0528	0.00443	50	10/23/2008	
tert-Butylbenzene	BQL	0.0528	0.00264	50	10/23/2008	
Carbon disulfide	BQL	0.0528	0.00364	50	10/23/2008	
Carbon tetrachloride	BQL	0.0528	0.00459	50	10/23/2008	
Chlorobenzene	BQL	0.0528	0.00433	50	10/23/2008	
Chloroethane	BQL	0.0528	0.00559	50	10/23/2008	
Chloroform	BQL	0.0528	0.00417	50	10/23/2008	
Chloromethane	BQL	0.0528	0.00771	50	10/23/2008	
2-Chlorotoluene	BQL	0.0528	0.00522	50	10/23/2008	
4-Chlorotoluene	BQL	0.0528	0.00422	50	10/23/2008	
Dibromochloromethane	BQL	0.0528	0.00475	50	10/23/2008	
1,2-Dibromo-3-chloropropane	BQL	0.264	0.0639	50	10/23/2008	
Dibromomethane	BQL	0.0528	0.00596	50	10/23/2008	
1,2-Dibromoethane (EDB)	BQL	0.0528	0.00654	50	10/23/2008	
1,2-Dichlorobenzene	BQL	0.0528	0.00670	50	10/23/2008	
1,3-Dichlorobenzene	BQL	0.0528	0.00427	50	10/23/2008	
1,4-Dichlorobenzene	BQL	0.0528	0.00417	50	10/23/2008	
trans-1,4-Dichloro-2-butene	BQL	0.264	0.0332	50	10/23/2008	
1,1-Dichloroethane	BQL	0.0528	0.00391	50	10/23/2008	
1,1-Dichloroethene	BQL	0.0528	0.00470	50	10/23/2008	
1,2-Dichloroethane	BQL	0.0528	0.00417	50	10/23/2008	
cis-1,2-Dichloroethene	BQL	0.0528	0.00343	50	10/23/2008	
trans-1,2-dichloroethene	BQL	0.0528	0.00470	50	10/23/2008	
1,2-Dichloropropane	BQL	0.0528	0.00496	50	10/23/2008	
1,3-Dichloropropane	BQL	0.0528	0.00670	50	10/23/2008	
2,2-Dichloropropane	BQL	0.0528	0.00311	50	10/23/2008	
1,1-Dichloropropene	BQL	0.0528	0.00380	50	10/23/2008	
cis-1,3-Dichloropropene	BQL	0.0528	0.00401	50	10/23/2008	
trans-1,3-Dichloropropene	BQL	0.0528	0.00401	50	10/23/2008	
Dichlorodifluoromethane	BQL	0.264	0.00496	50	10/23/2008	
Diisopropyl ether (DIPE)	BQL	0.0528	0.00385	50	10/23/2008	
Ethylbenzene	0.00581	0.0528	0.00406	50	10/23/2008	J
Hexachlorobutadiene	BQL	0.0528	0.0120	50	10/23/2008	
2-Hexanone	BQL	0.264	0.0380	50	10/23/2008	
Iodomethane	BQL	0.0528	0.00222	50	10/23/2008	
Isopropylbenzene	BQL	0.0528	0.00375	50	10/23/2008	

**Results for Volatiles
by GCMS 8260B/5035**

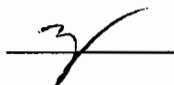
Client Sample ID: UST1114-DPT04 (2-4)
 Client Project ID: Building 1114 & HPFF
 Lab Sample ID: G128-2261-4D
 Lab Project ID: G128-2261
 Report Basis: Dry Weight

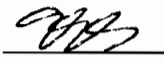
Analyzed By: CLP
 Date Collected: 10/15/2008 11:20
 Date Received: 10/16/2008
 Matrix: Soil
 Sample Amount: 6.11 g
 %Solids: 77.5

Compound	Result MG/KG	Quantitation Limit MG/KG	MDL MG/KG	Dilution Factor	Date Analyzed	Flag
4-Isopropyltoluene	0.279	0.0528	0.00253	50	10/23/2008	
Methylene chloride	BQL	0.264	0.00517	50	10/23/2008	
4-Methyl-2-pentanone	BQL	0.264	0.0290	50	10/23/2008	
Methyl-tert-butyl ether (MTBE)	BQL	0.0528	0.00354	50	10/23/2008	
Naphthalene	BQL	0.0528	0.00702	50	10/23/2008	
n-Propyl benzene	BQL	0.0528	0.00422	50	10/23/2008	
Styrene	BQL	0.0528	0.00449	50	10/23/2008	
1,1,1,2-Tetrachloroethane	BQL	0.0528	0.00475	50	10/23/2008	
1,1,2,2-Tetrachloroethane	BQL	0.0528	0.00607	50	10/23/2008	
Tetrachloroethene	BQL	0.0528	0.00364	50	10/23/2008	
Toluene	0.0216	0.0528	0.00401	50	10/23/2008	J
1,2,3-Trichlorobenzene	BQL	0.0528	0.0100	50	10/23/2008	
1,2,4-Trichlorobenzene	BQL	0.0528	0.00628	50	10/23/2008	
Trichloroethene	BQL	0.0528	0.00285	50	10/23/2008	
1,1,1-Trichloroethane	BQL	0.0528	0.00285	50	10/23/2008	
1,1,2-Trichloroethane	BQL	0.0528	0.00961	50	10/23/2008	
Trichlorofluoromethane	BQL	0.0528	0.00586	50	10/23/2008	
1,2,3-Trichloropropane	BQL	0.0528	0.00633	50	10/23/2008	
1,2,4-Trimethylbenzene	0.175	0.0528	0.00343	50	10/23/2008	
1,3,5-Trimethylbenzene	0.106	0.0528	0.00391	50	10/23/2008	
Vinyl chloride	BQL	0.0528	0.00786	50	10/23/2008	
m-,p-Xylene	0.177	0.106	0.00517	50	10/23/2008	
o-Xylene	0.129	0.0528	0.00343	50	10/23/2008	
		Spike Added	Spike Result	Percent Recovered		
1,2-Dichloroethane-d4		0.01	0.00918	92		
Toluene-d8		0.01	0.0104	104		
4-Bromofluorobenzene		0.01	0.0104	104		

Comments:**Flags:**

BQL = Below Quantitation Limits.

Analyst: 

Reviewed By: 

**Results for Volatiles
by GCMS 8260-5035**

Client Sample ID: UST1114-DPT04 (2-4) DUP
 Client Project ID: Building 1114 & HPFF
 Lab Sample ID G128-2261-5A
 Lab Project ID: G128-2261
 Report Basis: Dry Weight

Analyzed By: MJC
 Date Collected: 10-15-2008 11:20
 Date Received: 10/16/2008
 Matrix: Soil
 Sample Amount: 6.19 g
 %Solids: 81.2

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	MDL MG/KG	Dilution Factor	Date Analyzed	Flag
Acetone	0.0334	0.0497	0.00686	1	10/21/2008	J
Benzene	BQL	0.00497	0.00106	1	10/21/2008	
Bromobenzene	BQL	0.00497	0.00102	1	10/21/2008	
Bromochloromethane	BQL	0.00497	0.00171	1	10/21/2008	
Bromodichloromethane	BQL	0.00497	0.00099	1	10/21/2008	
Bromoform	BQL	0.00497	0.00099	1	10/21/2008	
Bromomethane	BQL	0.00497	0.00104	1	10/21/2008	
2-Butanone	BQL	0.0248	0.00539	1	10/21/2008	
n-Butylbenzene	BQL	0.00497	0.00095	1	10/21/2008	
sec-Butylbenzene	BQL	0.00497	0.00100	1	10/21/2008	
tert-Butylbenzene	BQL	0.00497	0.00111	1	10/21/2008	
Carbon disulfide	BQL	0.00497	0.00266	1	10/21/2008	
Carbon tetrachloride	BQL	0.00497	0.00101	1	10/21/2008	
Chlorobenzene	BQL	0.00497	0.00118	1	10/21/2008	
Chloroethane	BQL	0.00497	0.00158	1	10/21/2008	
Chloroform	BQL	0.00497	0.00119	1	10/21/2008	
Chloromethane	BQL	0.00497	0.00112	1	10/21/2008	
2-Chlorotoluene	BQL	0.00497	0.00100	1	10/21/2008	
4-Chlorotoluene	BQL	0.00497	0.00124	1	10/21/2008	
Dibromochloromethane	BQL	0.00497	0.00137	1	10/21/2008	
1,2-Dibromo-3-chloropropane	BQL	0.0248	0.00144	1	10/21/2008	
Dibromomethane	BQL	0.00497	0.00150	1	10/21/2008	
1,2-Dibromoethane (EDB)	BQL	0.00497	0.00112	1	10/21/2008	
1,2-Dichlorobenzene	BQL	0.00497	0.00128	1	10/21/2008	
1,3-Dichlorobenzene	BQL	0.00497	0.00127	1	10/21/2008	
1,4-Dichlorobenzene	BQL	0.00497	0.00104	1	10/21/2008	
trans-1,4-Dichloro-2-butene	BQL	0.0248	0.00137	1	10/21/2008	
1,1-Dichloroethane	BQL	0.00497	0.00105	1	10/21/2008	
1,1-Dichloroethene	BQL	0.00497	0.00147	1	10/21/2008	
1,2-Dichloroethane	BQL	0.00497	0.00131	1	10/21/2008	
cis-1,2-Dichloroethene	BQL	0.00497	0.00127	1	10/21/2008	
trans-1,2-dichloroethene	BQL	0.00497	0.00112	1	10/21/2008	
1,2-Dichloropropane	BQL	0.00497	0.00117	1	10/21/2008	
1,3-Dichloropropane	BQL	0.00497	0.00111	1	10/21/2008	
2,2-Dichloropropane	BQL	0.00497	0.00119	1	10/21/2008	
1,1-Dichloropropene	BQL	0.00497	0.00156	1	10/21/2008	
cis-1,3-Dichloropropene	BQL	0.00497	0.00083	1	10/21/2008	
trans-1,3-Dichloropropene	BQL	0.00497	0.00096	1	10/21/2008	
Dichlorodifluoromethane	BQL	0.00497	0.00131	1	10/21/2008	
Diisopropyl ether (DIPE)	BQL	0.00497	0.00112	1	10/21/2008	
Ethylbenzene	BQL	0.00497	0.00086	1	10/21/2008	
Hexachlorobutadiene	BQL	0.00497	0.00097	1	10/21/2008	
2-Hexanone	BQL	0.0124	0.00322	1	10/21/2008	
Iodomethane	BQL	0.00497	0.00107	1	10/21/2008	

**Results for Volatiles
by GCMS 8260-5035**

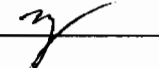
Client Sample ID: UST1114-DPT04 (2-4) DUP
 Client Project ID: Building 1114 & HPFF
 Lab Sample ID G128-2261-5A
 Lab Project ID: G128-2261
 Report Basis: Dry Weight

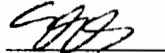
Analyzed By: MJC
 Date Collected: 10-15-2008 11:20
 Date Received: 10/16/2008
 Matrix: Soil
 Sample Amount: 6.19 g
 %Solids: 81.2

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	MDL MG/KG	Dilution Factor	Date Analyzed	Flag
Isopropylbenzene	BQL	0.00497	0.00088	1	10/21/2008	
4-Isopropyltoluene	BQL	0.00497	0.00106	1	10/21/2008	
Methylene chloride	BQL	0.0199	0.00118	1	10/21/2008	
4-Methyl-2-pentanone	BQL	0.0124	0.00460	1	10/21/2008	
Methyl-tert-butyl ether (MTBE)	BQL	0.00497	0.00110	1	10/21/2008	
Naphthalene	BQL	0.00497	0.00084	1	10/21/2008	
n-Propyl benzene	BQL	0.00497	0.00125	1	10/21/2008	
Styrene	BQL	0.00497	0.00109	1	10/21/2008	
1,1,1,2-Tetrachloroethane	BQL	0.00497	0.00101	1	10/21/2008	
1,1,2,2-Tetrachloroethane	BQL	0.00497	0.00112	1	10/21/2008	
Tetrachloroethene	BQL	0.00497	0.00091	1	10/21/2008	
Toluene	BQL	0.00497	0.00099	1	10/21/2008	
1,2,3-Trichlorobenzene	BQL	0.00497	0.00103	1	10/21/2008	
1,2,4-Trichlorobenzene	BQL	0.00497	0.00102	1	10/21/2008	
Trichloroethene	BQL	0.00497	0.00095	1	10/21/2008	
1,1,1-Trichloroethane	BQL	0.00497	0.00112	1	10/21/2008	
1,1,2-Trichloroethane	BQL	0.00497	0.00163	1	10/21/2008	
Trichlorofluoromethane	BQL	0.00497	0.00102	1	10/21/2008	
1,2,3-Trichloropropane	BQL	0.00497	0.00123	1	10/21/2008	
1,2,4-Trimethylbenzene	BQL	0.00497	0.00125	1	10/21/2008	
1,3,5-Trimethylbenzene	BQL	0.00497	0.00113	1	10/21/2008	
Vinyl chloride	BQL	0.00497	0.00135	1	10/21/2008	
m-,p-Xylene	BQL	0.00993	0.00191	1	10/21/2008	
o-Xylene	BQL	0.00497	0.00096	1	10/21/2008	
		Spike Added	Spike Result	Percent Recovered		
1,2-Dichloroethane-d4		0.05	0.0589	118		
Toluene-d8		0.05	0.0516	103		
4-Bromofluorobenzene		0.05	0.0437	87		

Comments:

Flags:

Analyst: 

Reviewed By: 

**Results for Volatiles
by GCMS 8260-5035**

Client Sample ID: UST1114-DPT05 (2-4)
 Client Project ID: Building 1114 & HPFF
 Lab Sample ID G128-2261-6A
 Lab Project ID: G128-2261
 Report Basis: Dry Weight

Analyzed By: MJC
 Date Collected: 10-15-2008 11:50
 Date Received: 10/16/2008
 Matrix: Soil
 Sample Amount: 5.96 g
 %Solids: 84.9

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	MDL MG/KG	Dilution Factor	Date Analyzed	Flag
Acetone	0.0137	0.0494	0.00683	1	10/21/2008	J
Benzene	BQL	0.00494	0.00106	1	10/21/2008	
Bromobenzene	BQL	0.00494	0.00102	1	10/21/2008	
Bromochloromethane	BQL	0.00494	0.00170	1	10/21/2008	
Bromodichloromethane	BQL	0.00494	0.00098	1	10/21/2008	
Bromoform	BQL	0.00494	0.00099	1	10/21/2008	
Bromomethane	BQL	0.00494	0.00104	1	10/21/2008	
2-Butanone	BQL	0.0247	0.00537	1	10/21/2008	
n-Butylbenzene	BQL	0.00494	0.00094	1	10/21/2008	
sec-Butylbenzene	BQL	0.00494	0.00100	1	10/21/2008	
tert-Butylbenzene	BQL	0.00494	0.00111	1	10/21/2008	
Carbon disulfide	BQL	0.00494	0.00265	1	10/21/2008	
Carbon tetrachloride	BQL	0.00494	0.00101	1	10/21/2008	
Chlorobenzene	BQL	0.00494	0.00118	1	10/21/2008	
Chloroethane	BQL	0.00494	0.00157	1	10/21/2008	
Chloroform	BQL	0.00494	0.00119	1	10/21/2008	
Chloromethane	BQL	0.00494	0.00112	1	10/21/2008	
2-Chlorotoluene	BQL	0.00494	0.00100	1	10/21/2008	
4-Chlorotoluene	BQL	0.00494	0.00124	1	10/21/2008	
Dibromochloromethane	BQL	0.00494	0.00136	1	10/21/2008	
1,2-Dibromo-3-chloropropane	BQL	0.0247	0.00143	1	10/21/2008	
Dibromomethane	BQL	0.00494	0.00149	1	10/21/2008	
1,2-Dibromoethane (EDB)	BQL	0.00494	0.00112	1	10/21/2008	
1,2-Dichlorobenzene	BQL	0.00494	0.00127	1	10/21/2008	
1,3-Dichlorobenzene	BQL	0.00494	0.00126	1	10/21/2008	
1,4-Dichlorobenzene	BQL	0.00494	0.00104	1	10/21/2008	
trans-1,4-Dichloro-2-butene	BQL	0.0247	0.00136	1	10/21/2008	
1,1-Dichloroethane	BQL	0.00494	0.00105	1	10/21/2008	
1,1-Dichloroethene	BQL	0.00494	0.00146	1	10/21/2008	
1,2-Dichloroethane	BQL	0.00494	0.00130	1	10/21/2008	
cis-1,2-Dichloroethene	BQL	0.00494	0.00126	1	10/21/2008	
trans-1,2-dichloroethene	BQL	0.00494	0.00112	1	10/21/2008	
1,2-Dichloropropane	BQL	0.00494	0.00117	1	10/21/2008	
1,3-Dichloropropane	BQL	0.00494	0.00111	1	10/21/2008	
2,2-Dichloropropane	BQL	0.00494	0.00119	1	10/21/2008	
1,1-Dichloropropene	BQL	0.00494	0.00155	1	10/21/2008	
cis-1,3-Dichloropropene	BQL	0.00494	0.00082	1	10/21/2008	
trans-1,3-Dichloropropene	BQL	0.00494	0.00095	1	10/21/2008	
Dichlorodifluoromethane	BQL	0.00494	0.00130	1	10/21/2008	
Diisopropyl ether (DIPE)	BQL	0.00494	0.00112	1	10/21/2008	
Ethylbenzene	BQL	0.00494	0.00086	1	10/21/2008	
Hexachlorobutadiene	BQL	0.00494	0.00096	1	10/21/2008	
2-Hexanone	BQL	0.0124	0.00320	1	10/21/2008	
Iodomethane	BQL	0.00494	0.00107	1	10/21/2008	

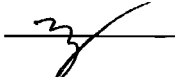
**Results for Volatiles
by GCMS 8260-5035**

Client Sample ID: UST1114-DPT05 (2-4)
 Client Project ID: Building 1114 & HPFF
 Lab Sample ID G128-2261-6A
 Lab Project ID: G128-2261
 Report Basis: Dry Weight

Analyzed By: MJC
 Date Collected: 10-15-2008 11:50
 Date Received: 10/16/2008
 Matrix: Soil
 Sample Amount: 5.96 g
 %Solids: 84.9

Report Name Compound	Result MG/KG	Quantitation Limit MG/KG	MDL MG/KG	Dilution Factor	Date Analyzed	Flag
Isopropylbenzene	BQL	0.00494	0.00088	1	10/21/2008	
4-Isopropyltoluene	BQL	0.00494	0.00106	1	10/21/2008	
Methylene chloride	BQL	0.0198	0.00118	1	10/21/2008	
4-Methyl-2-pentanone	BQL	0.0124	0.00458	1	10/21/2008	
Methyl-tert-butyl ether (MTBE)	BQL	0.00494	0.00110	1	10/21/2008	
Naphthalene	BQL	0.00494	0.00084	1	10/21/2008	
n-Propyl benzene	BQL	0.00494	0.00125	1	10/21/2008	
Styrene	BQL	0.00494	0.00109	1	10/21/2008	
1,1,1,2-Tetrachloroethane	BQL	0.00494	0.00101	1	10/21/2008	
1,1,2,2-Tetrachloroethane	BQL	0.00494	0.00112	1	10/21/2008	
Tetrachloroethene	BQL	0.00494	0.00091	1	10/21/2008	
Toluene	0.00100	0.00494	0.00099	1	10/21/2008	J
1,2,3-Trichlorobenzene	BQL	0.00494	0.00103	1	10/21/2008	
1,2,4-Trichlorobenzene	BQL	0.00494	0.00102	1	10/21/2008	
Trichloroethene	BQL	0.00494	0.00094	1	10/21/2008	
1,1,1-Trichloroethane	BQL	0.00494	0.00112	1	10/21/2008	
1,1,2-Trichloroethane	BQL	0.00494	0.00162	1	10/21/2008	
Trichlorofluoromethane	BQL	0.00494	0.00102	1	10/21/2008	
1,2,3-Trichloropropane	BQL	0.00494	0.00123	1	10/21/2008	
1,2,4-Trimethylbenzene	BQL	0.00494	0.00125	1	10/21/2008	
1,3,5-Trimethylbenzene	BQL	0.00494	0.00113	1	10/21/2008	
Vinyl chloride	BQL	0.00494	0.00134	1	10/21/2008	
m,p-Xylene	BQL	0.00988	0.00190	1	10/21/2008	
o-Xylene	BQL	0.00494	0.00096	1	10/21/2008	
		Spike Added	Spike Result	Percent Recovered		
1,2-Dichloroethane-d4		0.05	0.058	116		
Toluene-d8		0.05	0.0515	103		
4-Bromofluorobenzene		0.05	0.0438	88		

Comments:**Flags:**

Analyst: 

Reviewed By: 

**Results for Volatiles
by GCMS 8260B/5035**

Client Sample ID: UST1114-DPT06 (2-4)

Analyzed By: CLP

Client Project ID: Building 1114 & HPFF

Date Collected: 10/15/2008 13:25

Lab Sample ID: G128-2261-7D

Date Received: 10/16/2008

Lab Project ID: G128-2261

Matrix: Soil

Report Basis: Dry Weight

Sample Amount: 3.25 g

%Solids: 82.5

Compound	Result MG/KG	Quantitation Limit MG/KG	MDL MG/KG	Dilution Factor	Date Analyzed	Flag
Acetone	BQL	23.3	2.03	500	10/23/2008	
Benzene	2.45	0.933	0.0606	500	10/23/2008	
Bromobenzene	BQL	0.933	0.0522	500	10/23/2008	
Bromochloromethane	BQL	0.933	0.0942	500	10/23/2008	
Bromodichloromethane	BQL	0.933	0.0709	500	10/23/2008	
Bromoform	BQL	0.933	0.112	500	10/23/2008	
Bromomethane	BQL	0.933	0.124	500	10/23/2008	
2-Butanone	BQL	23.3	0.507	500	10/23/2008	
n-Butylbenzene	BQL	0.933	0.102	500	10/23/2008	
sec-Butylbenzene	0.233	0.933	0.0784	500	10/23/2008	J
tert-Butylbenzene	BQL	0.933	0.0466	500	10/23/2008	
Carbon disulfide	BQL	0.933	0.0644	500	10/23/2008	
Carbon tetrachloride	BQL	0.933	0.0811	500	10/23/2008	
Chlorobenzene	BQL	0.933	0.0765	500	10/23/2008	
Chloroethane	BQL	0.933	0.0989	500	10/23/2008	
Chloroform	BQL	0.933	0.0737	500	10/23/2008	
Chloromethane	BQL	0.933	0.136	500	10/23/2008	
2-Chlorotoluene	BQL	0.933	0.0923	500	10/23/2008	
4-Chlorotoluene	BQL	0.933	0.0746	500	10/23/2008	
Dibromochloromethane	BQL	0.933	0.0839	500	10/23/2008	
1,2-Dibromo-3-chloropropane	BQL	4.66	1.13	500	10/23/2008	
Dibromomethane	BQL	0.933	0.105	500	10/23/2008	
1,2-Dibromoethane (EDB)	BQL	0.933	0.116	500	10/23/2008	
1,2-Dichlorobenzene	BQL	0.933	0.118	500	10/23/2008	
1,3-Dichlorobenzene	BQL	0.933	0.0756	500	10/23/2008	
1,4-Dichlorobenzene	BQL	0.933	0.0737	500	10/23/2008	
trans-1,4-Dichloro-2-butene	BQL	4.66	0.588	500	10/23/2008	
1,1-Dichloroethane	BQL	0.933	0.0690	500	10/23/2008	
1,1-Dichloroethene	BQL	0.933	0.0830	500	10/23/2008	
1,2-Dichloroethane	BQL	0.933	0.0737	500	10/23/2008	
cis-1,2-Dichloroethene	BQL	0.933	0.0606	500	10/23/2008	
trans-1,2-dichloroethene	BQL	0.933	0.0830	500	10/23/2008	
1,2-Dichloropropane	BQL	0.933	0.0877	500	10/23/2008	
1,3-Dichloropropane	BQL	0.933	0.118	500	10/23/2008	
2,2-Dichloropropane	BQL	0.933	0.0550	500	10/23/2008	
1,1-Dichloropropene	BQL	0.933	0.0672	500	10/23/2008	
cis-1,3-Dichloropropene	BQL	0.933	0.0709	500	10/23/2008	
trans-1,3-Dichloropropene	BQL	0.933	0.0709	500	10/23/2008	
Dichlorodifluoromethane	BQL	4.66	0.0877	500	10/23/2008	
Diisopropyl ether (DIPE)	BQL	0.933	0.0681	500	10/23/2008	
Ethylbenzene	1.09	0.933	0.0718	500	10/23/2008	
Hexachlorobutadiene	BQL	0.933	0.213	500	10/23/2008	
2-Hexanone	BQL	4.66	0.672	500	10/23/2008	
Iodomethane	BQL	0.933	0.0392	500	10/23/2008	
Isopropylbenzene	0.177	0.933	0.0662	500	10/23/2008	J

**Results for Volatiles
by GCMS 8260B/5035**

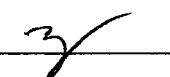
Client Sample ID: UST1114-DPT06 (2-4)
 Client Project ID: Building 1114 & HPFF
 Lab Sample ID: G128-2261-7D
 Lab Project ID: G128-2261
 Report Basis: Dry Weight

Analyzed By: CLP
 Date Collected: 10/15/2008 13:25
 Date Received: 10/16/2008
 Matrix: Soil
 Sample Amount: 3.25 g
 %Solids: 82.5

Compound	Result MG/KG	Quantitation Limit MG/KG	MDL MG/KG	Dilution Factor	Date Analyzed	Flag
4-Isopropyltoluene	1.62	0.933	0.0448	500	10/23/2008	
Methylene chloride	BQL	4.66	0.0914	500	10/23/2008	
4-Methyl-2-pentanone	BQL	4.66	0.513	500	10/23/2008	
Methyl-tert-butyl ether (MTBE)	BQL	0.933	0.0625	500	10/23/2008	
Naphthalene	10.5	0.933	0.124	500	10/23/2008	
n-Propyl benzene	1.29	0.933	0.0746	500	10/23/2008	
Styrene	BQL	0.933	0.0793	500	10/23/2008	
1,1,1,2-Tetrachloroethane	BQL	0.933	0.0839	500	10/23/2008	
1,1,2,2-Tetrachloroethane	BQL	0.933	0.107	500	10/23/2008	
Tetrachloroethene	BQL	0.933	0.0644	500	10/23/2008	
Toluene	0.578	0.933	0.0709	500	10/23/2008	J
1,2,3-Trichlorobenzene	BQL	0.933	0.177	500	10/23/2008	
1,2,4-Trichlorobenzene	BQL	0.933	0.111	500	10/23/2008	
Trichloroethene	BQL	0.933	0.0504	500	10/23/2008	
1,1,1-Trichloroethane	BQL	0.933	0.0504	500	10/23/2008	
1,1,2-Trichloroethane	BQL	0.933	0.170	500	10/23/2008	
Trichlorofluoromethane	BQL	0.933	0.104	500	10/23/2008	
1,2,3-Trichloropropane	BQL	0.933	0.112	500	10/23/2008	
1,2,4-Trimethylbenzene	22.3	0.933	0.0606	500	10/23/2008	
1,3,5-Trimethylbenzene	6.85	0.933	0.0690	500	10/23/2008	
Vinyl chloride	BQL	0.933	0.139	500	10/23/2008	
m-,p-Xylene	7.75	1.87	0.0914	500	10/23/2008	
o-Xylene	2.97	0.933	0.0606	500	10/23/2008	
		Spike Added	Spike Result	Percent Recovered		
1,2-Dichloroethane-d4		0.01	0.0101	101		
Toluene-d8		0.01	0.01	100		
4-Bromofluorobenzene		0.01	0.0102	102		

Comments:**Flags:**

BQL = Below Quantitation Limits.

Analyst: 

Reviewed By: 

**Results for Volatiles
by GCMS 8260B/5035**

Client Sample ID: UST1114-DPT07 (2-4)
Client Project ID: Building 1114 & HPFF
Lab Sample ID: G128-2261-8D
Lab Project ID: G128-2261
Report Basis: Dry Weight

Analyzed By: CLP
Date Collected: 10/15/2008 13:45
Date Received: 10/16/2008
Matrix: Soil
Sample Amount: 6.14 g
%Solids: 79.9

Compound	Result MG/KG	Quantitation Limit MG/KG	MDL MG/KG	Dilution Factor	Date Analyzed	Flag
Acetone	BQL	2.55	0.222	100	10/23/2008	
Benzene	0.190	0.102	0.00663	100	10/23/2008	
Bromobenzene	BQL	0.102	0.00571	100	10/23/2008	
Bromochloromethane	BQL	0.102	0.0103	100	10/23/2008	
Bromodichloromethane	BQL	0.102	0.00775	100	10/23/2008	
Bromoform	BQL	0.102	0.0122	100	10/23/2008	
Bromomethane	BQL	0.102	0.0136	100	10/23/2008	
2-Butanone	BQL	2.55	0.0555	100	10/23/2008	
n-Butylbenzene	0.0734	0.102	0.0111	100	10/23/2008	J
sec-Butylbenzene	0.0214	0.102	0.00856	100	10/23/2008	J
tert-Butylbenzene	BQL	0.102	0.00510	100	10/23/2008	
Carbon disulfide	BQL	0.102	0.00703	100	10/23/2008	
Carbon tetrachloride	BQL	0.102	0.00887	100	10/23/2008	
Chlorobenzene	BQL	0.102	0.00836	100	10/23/2008	
Chloroethane	BQL	0.102	0.0108	100	10/23/2008	
Chloroform	BQL	0.102	0.00805	100	10/23/2008	
Chloromethane	BQL	0.102	0.0149	100	10/23/2008	
2-Chlorotoluene	BQL	0.102	0.0101	100	10/23/2008	
4-Chlorotoluene	BQL	0.102	0.00816	100	10/23/2008	
Dibromochloromethane	BQL	0.102	0.00918	100	10/23/2008	
1,2-Dibromo-3-chloropropane	BQL	0.510	0.123	100	10/23/2008	
Dibromomethane	BQL	0.102	0.0115	100	10/23/2008	
1,2-Dibromoethane (EDB)	BQL	0.102	0.0126	100	10/23/2008	
1,2-Dichlorobenzene	BQL	0.102	0.0129	100	10/23/2008	
1,3-Dichlorobenzene	BQL	0.102	0.00826	100	10/23/2008	
1,4-Dichlorobenzene	BQL	0.102	0.00805	100	10/23/2008	
trans-1,4-Dichloro-2-butene	BQL	0.510	0.0642	100	10/23/2008	
1,1-Dichloroethane	BQL	0.102	0.00754	100	10/23/2008	
1,1-Dichloroethene	BQL	0.102	0.00907	100	10/23/2008	
1,2-Dichloroethane	BQL	0.102	0.00805	100	10/23/2008	
cis-1,2-Dichloroethene	BQL	0.102	0.00663	100	10/23/2008	
trans-1,2-dichloroethene	BQL	0.102	0.00907	100	10/23/2008	
1,2-Dichloropropane	BQL	0.102	0.00958	100	10/23/2008	
1,3-Dichloropropane	BQL	0.102	0.0129	100	10/23/2008	
2,2-Dichloropropane	BQL	0.102	0.00601	100	10/23/2008	
1,1-Dichloropropene	BQL	0.102	0.00734	100	10/23/2008	
cis-1,3-Dichloropropene	BQL	0.102	0.00775	100	10/23/2008	
trans-1,3-Dichloropropene	BQL	0.102	0.00775	100	10/23/2008	
Dichlorodifluoromethane	BQL	0.510	0.00958	100	10/23/2008	
Diisopropyl ether (DIPE)	BQL	0.102	0.00744	100	10/23/2008	
Ethylbenzene	0.450	0.102	0.00785	100	10/23/2008	
Hexachlorobutadiene	BQL	0.102	0.0232	100	10/23/2008	
2-Hexanone	BQL	0.510	0.0734	100	10/23/2008	
Iodomethane	BQL	0.102	0.00428	100	10/23/2008	
Isopropylbenzene	0.0744	0.102	0.00724	100	10/23/2008	J

**Results for Volatiles
by GCMS 8260B/5035**

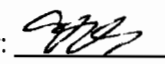
Client Sample ID: UST1114-DPT07 (2-4)
 Client Project ID: Building 1114 & HPFF
 Lab Sample ID: G128-2261-8D
 Lab Project ID: G128-2261
 Report Basis: Dry Weight

Analyzed By: CLP
 Date Collected: 10/15/2008 13:45
 Date Received: 10/16/2008
 Matrix: Soil
 Sample Amount: 6.14 g
 %Solids: 79.9

Compound	Result MG/KG	Quantitation Limit MG/KG	MDL MG/KG	Dilution Factor	Date Analyzed	Flag
4-Isopropyltoluene	0.0377	0.102	0.00489	100	10/23/2008	J
Methylene chloride	BQL	0.510	0.00999	100	10/23/2008	
4-Methyl-2-pentanone	BQL	0.510	0.0561	100	10/23/2008	
Methyl-tert-butyl ether (MTBE)	BQL	0.102	0.00683	100	10/23/2008	
Naphthalene	BQL	0.102	0.0136	100	10/23/2008	
n-Propyl benzene	0.194	0.102	0.00816	100	10/23/2008	
Styrene	BQL	0.102	0.00867	100	10/23/2008	
1,1,1,2-Tetrachloroethane	BQL	0.102	0.00918	100	10/23/2008	
1,1,2,2-Tetrachloroethane	BQL	0.102	0.0117	100	10/23/2008	
Tetrachloroethene	BQL	0.102	0.00703	100	10/23/2008	
Toluene	0.0408	0.102	0.00775	100	10/23/2008	J
1,2,3-Trichlorobenzene	BQL	0.102	0.0194	100	10/23/2008	
1,2,4-Trichlorobenzene	BQL	0.102	0.0121	100	10/23/2008	
Trichloroethene	BQL	0.102	0.00551	100	10/23/2008	
1,1,1-Trichloroethane	BQL	0.102	0.00551	100	10/23/2008	
1,1,2-Trichloroethane	BQL	0.102	0.0186	100	10/23/2008	
Trichlorofluoromethane	BQL	0.102	0.0113	100	10/23/2008	
1,2,3-Trichloropropane	BQL	0.102	0.0122	100	10/23/2008	
1,2,4-Trimethylbenzene	0.499	0.102	0.00663	100	10/23/2008	
1,3,5-Trimethylbenzene	0.230	0.102	0.00754	100	10/23/2008	
Vinyl chloride	BQL	0.102	0.0152	100	10/23/2008	
m-,p-Xylene	0.724	0.204	0.00999	100	10/23/2008	
o-Xylene	0.223	0.102	0.00663	100	10/23/2008	
		Spike Added	Spike Result	Percent Recovered		
1,2-Dichloroethane-d4		0.01	0.00949	95		
Toluene-d8		0.01	0.0101	101		
4-Bromofluorobenzene		0.01	0.0102	102		

Comments:**Flags:**

BQL = Below Quantitation Limits.

Analyst: Reviewed By: 

**Results for Volatiles
by GCMS 8260B/5035**

Client Sample ID: UST1114-DPT08 (2-4)
 Client Project ID: Building 1114 & HPFF
 Lab Sample ID: G128-2261-9D
 Lab Project ID: G128-2261
 Report Basis: Dry Weight

Analyzed By: CLP
 Date Collected: 10/15/2008 14:15
 Date Received: 10/16/2008
 Matrix: Soil
 Sample Amount: 5.98 g
 %Solids: 79.5

Compound	Result MG/KG	Quantitation Limit MG/KG	MDL MG/KG	Dilution Factor	Date Analyzed	Flag
Acetone	BQL	1.31	0.115	50	10/27/2008	
Benzene	0.196	0.0526	0.00342	50	10/27/2008	
Bromobenzene	BQL	0.0526	0.00294	50	10/27/2008	
Bromochloromethane	BQL	0.0526	0.00531	50	10/27/2008	
Bromodichloromethane	BQL	0.0526	0.00400	50	10/27/2008	
Bromoform	BQL	0.0526	0.00631	50	10/27/2008	
Bromomethane	BQL	0.0526	0.00699	50	10/27/2008	
2-Butanone	BQL	1.31	0.0286	50	10/27/2008	
n-Butylbenzene	BQL	0.0526	0.00573	50	10/27/2008	
sec-Butylbenzene	BQL	0.0526	0.00442	50	10/27/2008	
tert-Butylbenzene	BQL	0.0526	0.00263	50	10/27/2008	
Carbon disulfide	BQL	0.0526	0.00363	50	10/27/2008	
Carbon tetrachloride	BQL	0.0526	0.00457	50	10/27/2008	
Chlorobenzene	BQL	0.0526	0.00431	50	10/27/2008	
Chloroethane	BQL	0.0526	0.00557	50	10/27/2008	
Chloroform	0.0116	0.0526	0.00415	50	10/27/2008	J
Chloromethane	BQL	0.0526	0.00768	50	10/27/2008	
2-Chlorotoluene	BQL	0.0526	0.00521	50	10/27/2008	
4-Chlorotoluene	BQL	0.0526	0.00421	50	10/27/2008	
Dibromochloromethane	BQL	0.0526	0.00473	50	10/27/2008	
1,2-Dibromo-3-chloropropane	BQL	0.263	0.0636	50	10/27/2008	
Dibromomethane	BQL	0.0526	0.00594	50	10/27/2008	
1,2-Dibromoethane (EDB)	BQL	0.0526	0.00652	50	10/27/2008	
1,2-Dichlorobenzene	BQL	0.0526	0.00668	50	10/27/2008	
1,3-Dichlorobenzene	BQL	0.0526	0.00426	50	10/27/2008	
1,4-Dichlorobenzene	BQL	0.0526	0.00415	50	10/27/2008	
trans-1,4-Dichloro-2-butene	BQL	0.263	0.0331	50	10/27/2008	
1,1-Dichloroethane	BQL	0.0526	0.00389	50	10/27/2008	
1,1-Dichloroethene	BQL	0.0526	0.00468	50	10/27/2008	
1,2-Dichloroethane	BQL	0.0526	0.00415	50	10/27/2008	
cis-1,2-Dichloroethene	BQL	0.0526	0.00342	50	10/27/2008	
trans-1,2-dichloroethene	BQL	0.0526	0.00468	50	10/27/2008	
1,2-Dichloropropane	BQL	0.0526	0.00494	50	10/27/2008	
1,3-Dichloropropane	BQL	0.0526	0.00668	50	10/27/2008	
2,2-Dichloropropane	BQL	0.0526	0.00310	50	10/27/2008	
1,1-Dichloropropene	BQL	0.0526	0.00379	50	10/27/2008	
cis-1,3-Dichloropropene	BQL	0.0526	0.00400	50	10/27/2008	
trans-1,3-Dichloropropene	BQL	0.0526	0.00400	50	10/27/2008	
Dichlorodifluoromethane	BQL	0.263	0.00494	50	10/27/2008	
Diisopropyl ether (DIPE)	BQL	0.0526	0.00384	50	10/27/2008	
Ethylbenzene	0.0226	0.0526	0.00405	50	10/27/2008	J
Hexachlorobutadiene	BQL	0.0526	0.0120	50	10/27/2008	
2-Hexanone	BQL	0.263	0.0379	50	10/27/2008	
Iodomethane	BQL	0.0526	0.00221	50	10/27/2008	
Isopropylbenzene	BQL	0.0526	0.00373	50	10/27/2008	

**Results for Volatiles
by GCMS 8260B/5035**

Client Sample ID: UST1114-DPT08 (2-4)
 Client Project ID: Building 1114 & HPFF
 Lab Sample ID: G128-2261-9D
 Lab Project ID: G128-2261
 Report Basis: Dry Weight

Analyzed By: CLP
 Date Collected: 10/15/2008 14:15
 Date Received: 10/16/2008
 Matrix: Soil
 Sample Amount: 5.98 g
 %Solids: 79.5

Compound	Result MG/KG	Quantitation Limit MG/KG	MDL MG/KG	Dilution Factor	Date Analyzed	Flag
4-Isopropyltoluene	0.0463	0.0526	0.00252	50	10/27/2008	J
Methylene chloride	0.0247	0.263	0.00515	50	10/27/2008	J
4-Methyl-2-pentanone	BQL	0.263	0.0289	50	10/27/2008	
Methyl-tert-butyl ether (MTBE)	BQL	0.0526	0.00352	50	10/27/2008	
Naphthalene	BQL	0.0526	0.00699	50	10/27/2008	
n-Propyl benzene	BQL	0.0526	0.00421	50	10/27/2008	
Styrene	BQL	0.0526	0.00447	50	10/27/2008	
1,1,1,2-Tetrachloroethane	BQL	0.0526	0.00473	50	10/27/2008	
1,1,2,2-Tetrachloroethane	BQL	0.0526	0.00605	50	10/27/2008	
Tetrachloroethene	BQL	0.0526	0.00363	50	10/27/2008	
Toluene	0.0952	0.0526	0.00400	50	10/27/2008	
1,2,3-Trichlorobenzene	BQL	0.0526	0.00999	50	10/27/2008	
1,2,4-Trichlorobenzene	BQL	0.0526	0.00626	50	10/27/2008	
Trichloroethene	BQL	0.0526	0.00284	50	10/27/2008	
1,1,1-Trichloroethane	BQL	0.0526	0.00284	50	10/27/2008	
1,1,2-Trichloroethane	BQL	0.0526	0.00957	50	10/27/2008	
Trichlorofluoromethane	BQL	0.0526	0.00584	50	10/27/2008	
1,2,3-Trichloropropane	BQL	0.0526	0.00631	50	10/27/2008	
1,2,4-Trimethylbenzene	BQL	0.0526	0.00342	50	10/27/2008	
1,3,5-Trimethylbenzene	BQL	0.0526	0.00389	50	10/27/2008	
Vinyl chloride	BQL	0.0526	0.00784	50	10/27/2008	
m-,p-Xylene	BQL	0.105	0.00515	50	10/27/2008	
o-Xylene	BQL	0.0526	0.00342	50	10/27/2008	
		Spike Added	Spike Result	Percent Recovered		
1,2-Dichloroethane-d4		0.01	0.00968	97		
Toluene-d8		0.01	0.0102	102		
4-Bromofluorobenzene		0.01	0.00994	99		

Comments:**Flags:**

BQL = Below Quantitation Limits.

Analyst: Reviewed By: 

Results for Semivolatiles by GCMS 8270

Client Sample ID: UST1114-DPT01 (2-4)
 Client Project ID: Building 1114 & HPFF
 Lab Sample ID: G128-2261-1H
 Lab Project ID: G128-2261
 Report Basis: Dry weight
 Initial Weight: 34.79 g

Analyzed By: DES
 Date Collected: 10/15/2008 10:20
 Date Received: 10/16/2008
 Date Extracted: 10/16/2008
 Matrix: Soil
 % Solids: 86.99

Compound	Result mg/Kg	RL mg/Kg	MDL mg/Kg	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	0.330	0.051	1	10/17/2008	
Acenaphthylene	BQL	0.330	0.046	1	10/17/2008	
Anthracene	BQL	0.330	0.045	1	10/17/2008	
Benzo[a]anthracene	BQL	0.330	0.045	1	10/17/2008	
Benzo[a]pyrene	BQL	0.330	0.048	1	10/17/2008	
Benzo[b]fluoranthene	BQL	0.330	0.046	1	10/17/2008	
Benzo[g,h,i]perylene	BQL	0.330	0.058	1	10/17/2008	
Benzo[k]fluoranthene	BQL	0.330	0.047	1	10/17/2008	
Benzoic Acid	BQL	0.661	0.408	1	10/17/2008	
Bis(2-chloroethoxy)methane	BQL	0.330	0.049	1	10/17/2008	
Bis(2-chloroethyl)ether	BQL	0.330	0.067	1	10/17/2008	
Bis(2-chloroisopropyl)ether	BQL	0.330	0.053	1	10/17/2008	
Bis(2-ethylhexyl)phthalate	BQL	0.330	0.051	1	10/17/2008	
4-bromophenyl phenyl ether	BQL	0.330	0.059	1	10/17/2008	
Butylbenzylphthalate	BQL	0.330	0.049	1	10/17/2008	
2-Chloronaphthalene	BQL	0.330	0.046	1	10/17/2008	
2-Chlorophenol	BQL	0.330	0.042	1	10/17/2008	
4-Chloro-3-methylphenol	BQL	0.330	0.048	1	10/17/2008	
4-Chloroaniline	BQL	1.65	0.054	1	10/17/2008	
4-Chlorophenyl phenyl ether	BQL	0.330	0.049	1	10/17/2008	
Chrysene	BQL	0.330	0.032	1	10/17/2008	
Dibenzo[a,h]anthracene	BQL	0.330	0.042	1	10/17/2008	
Dibenzofuran	BQL	0.330	0.047	1	10/17/2008	
Di-n-Butylphthalate	BQL	0.330	0.048	1	10/17/2008	
1,2-Dichlorobenzene	BQL	0.330	0.056	1	10/17/2008	
1,3-Dichlorobenzene	BQL	0.330	0.054	1	10/17/2008	
1,4-Dichlorobenzene	BQL	0.330	0.048	1	10/17/2008	
3,3'-Dichlorobenzidine	BQL	0.661	0.055	1	10/17/2008	
2,4-Dichlorophenol	BQL	0.330	0.036	1	10/17/2008	
Diethylphthalate	BQL	0.330	0.044	1	10/17/2008	
Dimethylphthalate	BQL	0.330	0.051	1	10/17/2008	
2,4-Dimethylphenol	BQL	0.330	0.060	1	10/17/2008	
Di-n-octylphthalate	BQL	0.330	0.051	1	10/17/2008	
4,6-Dinitro-2-methylphenol	BQL	1.65	0.039	1	10/17/2008	
2,4-Dinitrophenol	BQL	1.65	0.043	1	10/17/2008	
2,4-Dinitrotoluene	BQL	0.330	0.050	1	10/17/2008	
2,6-Dinitrotoluene	BQL	0.330	0.055	1	10/17/2008	
Diphenylamine *	BQL	0.330	0.042	1	10/17/2008	
Fluoranthene	BQL	0.330	0.053	1	10/17/2008	
Fluorene	BQL	0.330	0.052	1	10/17/2008	
Hexachlorobenzene	BQL	0.330	0.072	1	10/17/2008	
Hexachlorobutadiene	BQL	0.330	0.060	1	10/17/2008	
Hexachlorocyclopentadiene	BQL	0.661	0.064	1	10/17/2008	
Hexachloroethane	BQL	0.330	0.052	1	10/17/2008	
Indeno(1,2,3-c,d)pyrene	BQL	0.330	0.039	1	10/17/2008	
Isophorone	BQL	0.330	0.048	1	10/17/2008	
2-Methylnaphthalene	BQL	0.330	0.054	1	10/17/2008	

**Results for Semivolatiles
by GCMS 8270**

Client Sample ID: UST1114-DPT01 (2-4)
 Client Project ID: Building 1114 & HPFF
 Lab Sample ID: G128-2261-1H
 Lab Project ID: G128-2261
 Report Basis: Dry weight
 Initial Weight: 34.79 g

Analyzed By: DES
 Date Collected: 10/15/2008 10:20
 Date Received: 10/16/2008
 Date Extracted: 10/16/2008
 Matrix: Soil
 % Solids: 86.99

Compound	Result mg/Kg	RL mg/Kg	MDL mg/Kg	Dilution Factor	Date Analyzed	Flag
2-Methylphenol	BQL	0.330	0.051	1	10/17/2008	
3- & 4-Methylphenol	BQL	0.330	0.043	1	10/17/2008	
Naphthalene	BQL	0.330	0.046	1	10/17/2008	
2-Nitroaniline	BQL	0.330	0.044	1	10/17/2008	
3-Nitroaniline	BQL	1.65	0.049	1	10/17/2008	
4-Nitroaniline	BQL	1.65	0.044	1	10/17/2008	
Nitrobenzene	BQL	0.330	0.044	1	10/17/2008	
2-Nitrophenol	BQL	0.330	0.048	1	10/17/2008	
4-Nitrophenol	BQL	1.65	0.058	1	10/17/2008	
N-Nitrosodi-n-propylamine	BQL	0.330	0.053	1	10/17/2008	
Pentachlorophenol	BQL	1.65	0.030	1	10/17/2008	
Phenanthrene	BQL	0.330	0.046	1	10/17/2008	
Phenol	BQL	0.330	0.045	1	10/17/2008	
Pyrene	BQL	0.330	0.045	1	10/17/2008	
1,2,4-Trichlorobenzene	BQL	0.330	0.060	1	10/17/2008	
2,4,5-Trichlorophenol	BQL	0.330	0.049	1	10/17/2008	
2,4,6-Trichlorophenol	BQL	0.330	0.029	1	10/17/2008	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	8.8	88		
2-Fluorophenol		10	9	90		
Nitrobenzene-d5		10	9.1	91		
Phenol-d6		10	9.5	95		
2,4,6-Tribromophenol		10	9	90		
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: UST1114-DPT01 (2-4)
Client Project ID: Building 1114 & HPFF
Lab Sample ID: G128-2261-1H
Lab Project ID: G128-2261
Sample Wt/Vol: 34.79 g
Dilution: 1

Analyzed By: DES
Date Collected: 10/15/2008 10:20
Date Received: 10/16/2008
Date Extracted: 10/16/2008
Date Analyzed: 10/17/2008
Matrix: Soil
% Solids: 87.0

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/KG)
1	Unknown	10.95			1240
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 8270**

Client Sample ID: UST1114-DPT02 (2-4)
 Client Project ID: Building 1114 & HPFF
 Lab Sample ID: G128-2261-2H
 Lab Project ID: G128-2261
 Report Basis: Dry weight
 Initial Weight: 32.4 g

Analyzed By: DES
 Date Collected: 10/15/2008 10:45
 Date Received: 10/16/2008
 Date Extracted: 10/16/2008
 Matrix: Soil
 % Solids: 84.94

Compound	Result mg/Kg	RL mg/Kg	MDL mg/Kg	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	0.363	0.056	1	10/17/2008	
Acenaphthylene	BQL	0.363	0.051	1	10/17/2008	
Anthracene	BQL	0.363	0.049	1	10/17/2008	
Benzo[a]anthracene	BQL	0.363	0.050	1	10/17/2008	
Benzo[a]pyrene	BQL	0.363	0.052	1	10/17/2008	
Benzo[b]fluoranthene	BQL	0.363	0.051	1	10/17/2008	
Benzo[g,h,i]perylene	BQL	0.363	0.063	1	10/17/2008	
Benzo[k]fluoranthene	BQL	0.363	0.052	1	10/17/2008	
Benzoic Acid	BQL	0.727	0.449	1	10/17/2008	
Bis(2-chloroethoxy)methane	BQL	0.363	0.053	1	10/17/2008	
Bis(2-chloroethyl)ether	BQL	0.363	0.074	1	10/17/2008	
Bis(2-chloroisopropyl)ether	BQL	0.363	0.059	1	10/17/2008	
Bis(2-ethylhexyl)phthalate	BQL	0.363	0.056	1	10/17/2008	
4-bromophenyl phenyl ether	BQL	0.363	0.064	1	10/17/2008	
Butylbenzylphthalate	BQL	0.363	0.054	1	10/17/2008	
2-Chloronaphthalene	BQL	0.363	0.051	1	10/17/2008	
2-Chlorophenol	BQL	0.363	0.046	1	10/17/2008	
4-Chloro-3-methylphenol	BQL	0.363	0.053	1	10/17/2008	
4-Chloroaniline	BQL	1.82	0.059	1	10/17/2008	
4-Chlorophenyl phenyl ether	BQL	0.363	0.053	1	10/17/2008	
Chrysene	BQL	0.363	0.035	1	10/17/2008	
Dibenzo[a,h]anthracene	BQL	0.363	0.047	1	10/17/2008	
Dibenzofuran	BQL	0.363	0.051	1	10/17/2008	
Di-n-Butylphthalate	BQL	0.363	0.053	1	10/17/2008	
1,2-Dichlorobenzene	BQL	0.363	0.061	1	10/17/2008	
1,3-Dichlorobenzene	BQL	0.363	0.059	1	10/17/2008	
1,4-Dichlorobenzene	BQL	0.363	0.053	1	10/17/2008	
3,3'-Dichlorobenzidine	BQL	0.727	0.060	1	10/17/2008	
2,4-Dichlorophenol	BQL	0.363	0.040	1	10/17/2008	
Diethylphthalate	BQL	0.363	0.049	1	10/17/2008	
Dimethylphthalate	BQL	0.363	0.056	1	10/17/2008	
2,4-Dimethylphenol	BQL	0.363	0.066	1	10/17/2008	
Di-n-octylphthalate	BQL	0.363	0.056	1	10/17/2008	
4,6-Dinitro-2-methylphenol	BQL	1.82	0.043	1	10/17/2008	
2,4-Dinitrophenol	BQL	1.82	0.047	1	10/17/2008	
2,4-Dinitrotoluene	BQL	0.363	0.055	1	10/17/2008	
2,6-Dinitrotoluene	BQL	0.363	0.060	1	10/17/2008	
Diphenylamine *	BQL	0.363	0.046	1	10/17/2008	
Fluoranthene	BQL	0.363	0.059	1	10/17/2008	
Fluorene	BQL	0.363	0.057	1	10/17/2008	
Hexachlorobenzene	BQL	0.363	0.079	1	10/17/2008	
Hexachlorobutadiene	BQL	0.363	0.066	1	10/17/2008	
Hexachlorocyclopentadiene	BQL	0.727	0.071	1	10/17/2008	
Hexachloroethane	BQL	0.363	0.057	1	10/17/2008	
Indeno(1,2,3-c,d)pyrene	BQL	0.363	0.043	1	10/17/2008	
Isophorone	BQL	0.363	0.053	1	10/17/2008	
2-Methylnaphthalene	BQL	0.363	0.059	1	10/17/2008	

**Results for Semivolatiles
by GCMS 8270**

Client Sample ID: UST1114-DPT02 (2-4)
 Client Project ID: Building 1114 & HPFF
 Lab Sample ID: G128-2261-2H
 Lab Project ID: G128-2261
 Report Basis: Dry weight
 Initial Weight: 32.4 g

Analyzed By: DES
 Date Collected: 10/15/2008 10:45
 Date Received: 10/16/2008
 Date Extracted: 10/16/2008
 Matrix: Soil
 % Solids: 84.94

Compound	Result mg/Kg	RL mg/Kg	MDL mg/Kg	Dilution Factor	Date Analyzed	Flag
2-Methylphenol	BQL	0.363	0.056	1	10/17/2008	
3- & 4-Methylphenol	BQL	0.363	0.047	1	10/17/2008	
Naphthalene	BQL	0.363	0.051	1	10/17/2008	
2-Nitroaniline	BQL	0.363	0.049	1	10/17/2008	
3-Nitroaniline	BQL	1.82	0.053	1	10/17/2008	
4-Nitroaniline	BQL	1.82	0.049	1	10/17/2008	
Nitrobenzene	BQL	0.363	0.048	1	10/17/2008	
2-Nitrophenol	BQL	0.363	0.053	1	10/17/2008	
4-Nitrophenol	BQL	1.82	0.063	1	10/17/2008	
N-Nitrosodi-n-propylamine	BQL	0.363	0.059	1	10/17/2008	
Pentachlorophenol	BQL	1.82	0.033	1	10/17/2008	
Phenanthrene	BQL	0.363	0.051	1	10/17/2008	
Phenol	BQL	0.363	0.049	1	10/17/2008	
Pyrene	BQL	0.363	0.049	1	10/17/2008	
1,2,4-Trichlorobenzene	BQL	0.363	0.065	1	10/17/2008	
2,4,5-Trichlorophenol	BQL	0.363	0.054	1	10/17/2008	
2,4,6-Trichlorophenol	BQL	0.363	0.032	1	10/17/2008	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	8.5	85		
2-Fluorophenol		10	9.5	95		
Nitrobenzene-d5		10	9.1	91		
Phenol-d6		10	9.7	97		
2,4,6-Tribromophenol		10	8.9	89		
4-Terphenyl-d14		10	8.2	82		

Comments:

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

Flags:

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By: 

Results of Library Search for Semivolatile Compounds
by GCMS

Client Sample ID: UST1114-DPT02 (2-4)
Client Project ID: Building 1114 & HPFF
Lab Sample ID: G128-2261-2H
Lab Project ID: G128-2261
Sample Wt/Vol: 32.4 g
Dilution: 1

Analyzed By: DES
Date Collected: 10/15/2008 10:45
Date Received: 10/16/2008
Date Extracted: 10/16/2008
Date Analyzed: 10/17/2008
Matrix: Soil
% Solids: 84.9

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/KG)
1	Unknown	10.95			1880
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 8270**

Client Sample ID: UST1114-DPT03 (2-4)
 Client Project ID: Building 1114 & HPFF
 Lab Sample ID: G128-2261-3H
 Lab Project ID: G128-2261
 Report Basis: Dry weight
 Initial Weight: 33.89 g

Analyzed By: DES
 Date Collected: 10/15/2008 11:05
 Date Received: 10/16/2008
 Date Extracted: 10/16/2008
 Matrix: Soil
 % Solids: 82.9

Compound	Result mg/Kg	RL mg/Kg	MDL mg/Kg	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	0.356	0.055	1	10/17/2008	
Acenaphthylene	BQL	0.356	0.050	1	10/17/2008	
Anthracene	BQL	0.356	0.048	1	10/17/2008	
Benzo[a]anthracene	BQL	0.356	0.049	1	10/17/2008	
Benzo[a]pyrene	BQL	0.356	0.051	1	10/17/2008	
Benzo[b]fluoranthene	BQL	0.356	0.050	1	10/17/2008	
Benzo[g,h,i]perylene	BQL	0.356	0.062	1	10/17/2008	
Benzo[k]fluoranthene	BQL	0.356	0.051	1	10/17/2008	
Benzoic Acid	BQL	0.712	0.440	1	10/17/2008	
Bis(2-chloroethoxy)methane	BQL	0.356	0.052	1	10/17/2008	
Bis(2-chloroethyl)ether	BQL	0.356	0.072	1	10/17/2008	
Bis(2-chloroisopropyl)ether	BQL	0.356	0.057	1	10/17/2008	
Bis(2-ethylhexyl)phthalate	BQL	0.356	0.055	1	10/17/2008	
4-bromophenyl phenyl ether	BQL	0.356	0.063	1	10/17/2008	
Butylbenzylphthalate	BQL	0.356	0.053	1	10/17/2008	
2-Chloronaphthalene	BQL	0.356	0.050	1	10/17/2008	
2-Chlorophenol	BQL	0.356	0.045	1	10/17/2008	
4-Chloro-3-methylphenol	BQL	0.356	0.052	1	10/17/2008	
4-Chloroaniline	BQL	1.78	0.058	1	10/17/2008	
4-Chlorophenyl phenyl ether	BQL	0.356	0.052	1	10/17/2008	
Chrysene	BQL	0.356	0.034	1	10/17/2008	
Dibenzo[a,h]anthracene	BQL	0.356	0.046	1	10/17/2008	
Dibenzofuran	BQL	0.356	0.050	1	10/17/2008	
Di-n-Butylphthalate	BQL	0.356	0.052	1	10/17/2008	
1,2-Dichlorobenzene	BQL	0.356	0.060	1	10/17/2008	
1,3-Dichlorobenzene	BQL	0.356	0.058	1	10/17/2008	
1,4-Dichlorobenzene	BQL	0.356	0.052	1	10/17/2008	
3,3'-Dichlorobenzidine	BQL	0.712	0.059	1	10/17/2008	
2,4-Dichlorophenol	BQL	0.356	0.039	1	10/17/2008	
Diethylphthalate	BQL	0.356	0.048	1	10/17/2008	
Dimethylphthalate	BQL	0.356	0.055	1	10/17/2008	
2,4-Dimethylphenol	BQL	0.356	0.064	1	10/17/2008	
Di-n-octylphthalate	BQL	0.356	0.055	1	10/17/2008	
4,6-Dinitro-2-methylphenol	BQL	1.78	0.042	1	10/17/2008	
2,4-Dinitrophenol	BQL	1.78	0.046	1	10/17/2008	
2,4-Dinitrotoluene	BQL	0.356	0.054	1	10/17/2008	
2,6-Dinitrotoluene	BQL	0.356	0.059	1	10/17/2008	
Diphenylamine *	BQL	0.356	0.045	1	10/17/2008	
Fluoranthene	BQL	0.356	0.057	1	10/17/2008	
Fluorene	BQL	0.356	0.056	1	10/17/2008	
Hexachlorobenzene	BQL	0.356	0.077	1	10/17/2008	
Hexachlorobutadiene	BQL	0.356	0.065	1	10/17/2008	
Hexachlorocyclopentadiene	BQL	0.712	0.069	1	10/17/2008	
Hexachloroethane	BQL	0.356	0.056	1	10/17/2008	
Indeno(1,2,3-c,d)pyrene	BQL	0.356	0.042	1	10/17/2008	
Isophorone	BQL	0.356	0.052	1	10/17/2008	
2-Methylnaphthalene	BQL	0.356	0.058	1	10/17/2008	

**Results for Semivolatiles
by GCMS 8270**

Client Sample ID: UST1114-DPT03 (2-4)
 Client Project ID: Building 1114 & HPFF
 Lab Sample ID: G128-2261-3H
 Lab Project ID: G128-2261
 Report Basis: Dry weight
 Initial Weight: 33.89 g

Analyzed By: DES
 Date Collected: 10/15/2008 11:05
 Date Received: 10/16/2008
 Date Extracted: 10/16/2008
 Matrix: Soil
 % Solids: 82.9

Compound	Result mg/Kg	RL mg/Kg	MDL mg/Kg	Dilution Factor	Date Analyzed	Flag
2-Methylphenol	BQL	0.356	0.055	1	10/17/2008	
3- & 4-Methylphenol	BQL	0.356	0.046	1	10/17/2008	
Naphthalene	BQL	0.356	0.050	1	10/17/2008	
2-Nitroaniline	BQL	0.356	0.048	1	10/17/2008	
3-Nitroaniline	BQL	1.78	0.052	1	10/17/2008	
4-Nitroaniline	BQL	1.78	0.048	1	10/17/2008	
Nitrobenzene	BQL	0.356	0.047	1	10/17/2008	
2-Nitrophenol	BQL	0.356	0.052	1	10/17/2008	
4-Nitrophenol	BQL	1.78	0.062	1	10/17/2008	
N-Nitrosodi-n-propylamine	BQL	0.356	0.057	1	10/17/2008	
Pentachlorophenol	BQL	1.78	0.033	1	10/17/2008	
Phenanthrene	BQL	0.356	0.050	1	10/17/2008	
Phenol	BQL	0.356	0.048	1	10/17/2008	
Pyrene	BQL	0.356	0.048	1	10/17/2008	
1,2,4-Trichlorobenzene	BQL	0.356	0.064	1	10/17/2008	
2,4,5-Trichlorophenol	BQL	0.356	0.053	1	10/17/2008	
2,4,6-Trichlorophenol	BQL	0.356	0.032	1	10/17/2008	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	9	90		
2-Fluorophenol		10	9.7	97		
Nitrobenzene-d5		10	9.3	93		
Phenol-d6		10	10	100		
2,4,6-Tribromophenol		10	9.3	93		
4-Terphenyl-d14		10	8.4	84		

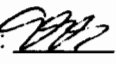
Comments:

* 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: UST1114-DPT03 (2-4)
Client Project ID: Building 1114 & HPFF
Lab Sample ID: G128-2261-3H
Lab Project ID: G128-2261
Sample Wt/Vol: 33.89 g
Dilution: 1

Analyzed By: DES
Date Collected: 10/15/2008 11:05
Date Received: 10/16/2008
Date Extracted: 10/16/2008
Date Analyzed: 10/17/2008
Matrix: Soil
% Solids: 82.9

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/KG)
1	Unknown	10.95			930
2	1-Eicosanol	12.25	000629-96-9	91	347
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 8270**

Client Sample ID: UST1114-DPT04 (2-4)
 Client Project ID: Building 1114 & HPFF
 Lab Sample ID: G128-2261-4G
 Lab Project ID: G128-2261
 Report Basis: Dry weight
 Initial Weight: 32.53 g

Analyzed By: DES
 Date Collected: 10/15/2008 11:20
 Date Received: 10/16/2008
 Date Extracted: 10/16/2008
 Matrix: Soil
 % Solids: 77.53

Compound	Result mg/Kg	RL mg/Kg	MDL mg/Kg	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	0.397	0.061	1	10/17/2008	
Acenaphthylene	BQL	0.397	0.056	1	10/17/2008	
Anthracene	BQL	0.397	0.054	1	10/17/2008	
Benzo[a]anthracene	BQL	0.397	0.054	1	10/17/2008	
Benzo[a]pyrene	BQL	0.397	0.057	1	10/17/2008	
Benzo[b]fluoranthene	BQL	0.397	0.055	1	10/17/2008	
Benzo[g,h,i]perylene	BQL	0.397	0.069	1	10/17/2008	
Benzo[k]fluoranthene	BQL	0.397	0.056	1	10/17/2008	
Benzoic Acid	BQL	0.793	0.490	1	10/17/2008	
Bis(2-chloroethoxy)methane	BQL	0.397	0.058	1	10/17/2008	
Bis(2-chloroethyl)ether	BQL	0.397	0.081	1	10/17/2008	
Bis(2-chloroisopropyl)ether	BQL	0.397	0.064	1	10/17/2008	
Bis(2-ethylhexyl)phthalate	BQL	0.397	0.061	1	10/17/2008	
4-bromophenyl phenyl ether	BQL	0.397	0.070	1	10/17/2008	
Butylbenzylphthalate	BQL	0.397	0.059	1	10/17/2008	
2-Chloronaphthalene	BQL	0.397	0.055	1	10/17/2008	
2-Chlorophenol	BQL	0.397	0.050	1	10/17/2008	
4-Chloro-3-methylphenol	BQL	0.397	0.058	1	10/17/2008	
4-Chloroaniline	BQL	1.98	0.065	1	10/17/2008	
4-Chlorophenyl phenyl ether	BQL	0.397	0.058	1	10/17/2008	
Chrysene	BQL	0.397	0.038	1	10/17/2008	
Dibenzo[a,h]anthracene	BQL	0.397	0.051	1	10/17/2008	
Dibenzofuran	BQL	0.397	0.056	1	10/17/2008	
Di-n-Butylphthalate	BQL	0.397	0.058	1	10/17/2008	
1,2-Dichlorobenzene	BQL	0.397	0.067	1	10/17/2008	
1,3-Dichlorobenzene	BQL	0.397	0.064	1	10/17/2008	
1,4-Dichlorobenzene	BQL	0.397	0.058	1	10/17/2008	
3,3'-Dichlorobenzidine	BQL	0.793	0.065	1	10/17/2008	
2,4-Dichlorophenol	BQL	0.397	0.043	1	10/17/2008	
Diethylphthalate	BQL	0.397	0.053	1	10/17/2008	
Dimethylphthalate	BQL	0.397	0.062	1	10/17/2008	
2,4-Dimethylphenol	BQL	0.397	0.072	1	10/17/2008	
Di-n-octylphthalate	BQL	0.397	0.061	1	10/17/2008	
4,6-Dinitro-2-methylphenol	BQL	1.98	0.047	1	10/17/2008	
2,4-Dinitrophenol	BQL	1.98	0.052	1	10/17/2008	
2,4-Dinitrotoluene	BQL	0.397	0.060	1	10/17/2008	
2,6-Dinitrotoluene	BQL	0.397	0.065	1	10/17/2008	
Diphenylamine *	BQL	0.397	0.050	1	10/17/2008	
Fluoranthene	BQL	0.397	0.064	1	10/17/2008	
Fluorene	BQL	0.397	0.062	1	10/17/2008	
Hexachlorobenzene	BQL	0.397	0.086	1	10/17/2008	
Hexachlorobutadiene	BQL	0.397	0.072	1	10/17/2008	
Hexachlorocyclopentadiene	BQL	0.793	0.077	1	10/17/2008	
Hexachloroethane	BQL	0.397	0.062	1	10/17/2008	
Indeno(1,2,3-c,d)pyrene	BQL	0.397	0.047	1	10/17/2008	
Isophorone	BQL	0.397	0.058	1	10/17/2008	
2-Methylnaphthalene	BQL	0.397	0.065	1	10/17/2008	

**Results for Semivolatiles
by GCMS 8270**

Client Sample ID: UST1114-DPT04 (2-4)
 Client Project ID: Building 1114 & HPFF
 Lab Sample ID: G128-2261-4G
 Lab Project ID: G128-2261
 Report Basis: Dry weight
 Initial Weight: 32.53 g

Analyzed By: DES
 Date Collected: 10/15/2008 11:20
 Date Received: 10/16/2008
 Date Extracted: 10/16/2008
 Matrix: Soil
 % Solids: 77.53

Compound	Result mg/Kg	RL mg/Kg	MDL mg/Kg	Dilution Factor	Date Analyzed	Flag
2-Methylphenol	BQL	0.397	0.061	1	10/17/2008	
3- & 4-Methylphenol	BQL	0.397	0.052	1	10/17/2008	
Naphthalene	BQL	0.397	0.056	1	10/17/2008	
2-Nitroaniline	BQL	0.397	0.053	1	10/17/2008	
3-Nitroaniline	BQL	1.98	0.058	1	10/17/2008	
4-Nitroaniline	BQL	1.98	0.053	1	10/17/2008	
Nitrobenzene	BQL	0.397	0.053	1	10/17/2008	
2-Nitrophenol	BQL	0.397	0.058	1	10/17/2008	
4-Nitrophenol	BQL	1.98	0.069	1	10/17/2008	
N-Nitrosodi-n-propylamine	BQL	0.397	0.064	1	10/17/2008	
Pentachlorophenol	BQL	1.98	0.037	1	10/17/2008	
Phenanthrene	BQL	0.397	0.056	1	10/17/2008	
Phenol	BQL	0.397	0.054	1	10/17/2008	
Pyrene	BQL	0.397	0.054	1	10/17/2008	
1,2,4-Trichlorobenzene	BQL	0.397	0.071	1	10/17/2008	
2,4,5-Trichlorophenol	BQL	0.397	0.059	1	10/17/2008	
2,4,6-Trichlorophenol	BQL	0.397	0.035	1	10/17/2008	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	9	90		
2-Fluorophenol		10	9	90		
Nitrobenzene-d5		10	9	90		
Phenol-d6		10	9.4	94		
2,4,6-Tribromophenol		10	9.2	92		
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: UST1114-DPT04 (2-4)
Client Project ID: Building 1114 & HPFF
Lab Sample ID: G128-2261-4G
Lab Project ID: G128-2261
Sample Wt/Vol: 32.53 g
Dilution: 1

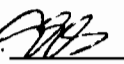
Analyzed By: DES
Date Collected: 10/15/2008 11:20
Date Received: 10/16/2008
Date Extracted: 10/16/2008
Date Analyzed: 10/17/2008
Matrix: Soil
% Solids: 77.5

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/KG)
1	Unknown	10.96			1540
2	Unknown	15.70			1330
3	Alcohol, Unknown	12.25			1300
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 8270

Client Sample ID: UST1114-DPT05 (2-4)
 Client Project ID: Building 1114 & HPFF
 Lab Sample ID: G128-2261-6H
 Lab Project ID: G128-2261
 Report Basis: Dry weight
 Initial Weight: 33.26 g

Analyzed By: DES
 Date Collected: 10/15/2008 11:50
 Date Received: 10/16/2008
 Date Extracted: 10/16/2008
 Matrix: Soil
 % Solids: 84.89

Compound	Result mg/Kg	RL mg/Kg	MDL mg/Kg	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	0.354	0.054	1	10/17/2008	
Acenaphthylene	BQL	0.354	0.050	1	10/17/2008	
Anthracene	BQL	0.354	0.048	1	10/17/2008	
Benzo[a]anthracene	BQL	0.354	0.049	1	10/17/2008	
Benzo[a]pyrene	BQL	0.354	0.051	1	10/17/2008	
Benzo[b]fluoranthene	BQL	0.354	0.049	1	10/17/2008	
Benzo[g,h,i]perylene	BQL	0.354	0.062	1	10/17/2008	
Benzo[k]fluoranthene	BQL	0.354	0.050	1	10/17/2008	
Benzoic Acid	BQL	0.708	0.437	1	10/17/2008	
Bis(2-chloroethoxy)methane	BQL	0.354	0.052	1	10/17/2008	
Bis(2-chloroethyl)ether	BQL	0.354	0.072	1	10/17/2008	
Bis(2-chloroisopropyl)ether	BQL	0.354	0.057	1	10/17/2008	
Bis(2-ethylhexyl)phthalate	BQL	0.354	0.054	1	10/17/2008	
4-bromophenyl phenyl ether	BQL	0.354	0.063	1	10/17/2008	
Butylbenzylphthalate	BQL	0.354	0.052	1	10/17/2008	
2-Chloronaphthalene	BQL	0.354	0.049	1	10/17/2008	
2-Chlorophenol	BQL	0.354	0.045	1	10/17/2008	
4-Chloro-3-methylphenol	BQL	0.354	0.052	1	10/17/2008	
4-Chloroaniline	BQL	1.77	0.058	1	10/17/2008	
4-Chlorophenyl phenyl ether	BQL	0.354	0.052	1	10/17/2008	
Chrysene	BQL	0.354	0.034	1	10/17/2008	
Dibenzo[a,h]anthracene	BQL	0.354	0.045	1	10/17/2008	
Dibenzofuran	BQL	0.354	0.050	1	10/17/2008	
Di-n-Butylphthalate	BQL	0.354	0.052	1	10/17/2008	
1,2-Dichlorobenzene	BQL	0.354	0.060	1	10/17/2008	
1,3-Dichlorobenzene	BQL	0.354	0.057	1	10/17/2008	
1,4-Dichlorobenzene	BQL	0.354	0.051	1	10/17/2008	
3,3'-Dichlorobenzidine	BQL	0.708	0.058	1	10/17/2008	
2,4-Dichlorophenol	BQL	0.354	0.039	1	10/17/2008	
Diethylphthalate	BQL	0.354	0.048	1	10/17/2008	
Dimethylphthalate	BQL	0.354	0.055	1	10/17/2008	
2,4-Dimethylphenol	BQL	0.354	0.064	1	10/17/2008	
Di-n-octylphthalate	BQL	0.354	0.055	1	10/17/2008	
4,6-Dinitro-2-methylphenol	BQL	1.77	0.042	1	10/17/2008	
2,4-Dinitrophenol	BQL	1.77	0.046	1	10/17/2008	
2,4-Dinitrotoluene	BQL	0.354	0.054	1	10/17/2008	
2,6-Dinitrotoluene	BQL	0.354	0.058	1	10/17/2008	
Diphenylamine *	BQL	0.354	0.045	1	10/17/2008	
Fluoranthene	BQL	0.354	0.057	1	10/17/2008	
Fluorene	BQL	0.354	0.055	1	10/17/2008	
Hexachlorobenzene	BQL	0.354	0.077	1	10/17/2008	
Hexachlorobutadiene	BQL	0.354	0.065	1	10/17/2008	
Hexachlorocyclopentadiene	BQL	0.708	0.069	1	10/17/2008	
Hexachloroethane	BQL	0.354	0.055	1	10/17/2008	
Indeno(1,2,3-c,d)pyrene	BQL	0.354	0.042	1	10/17/2008	
Isophorone	BQL	0.354	0.052	1	10/17/2008	
2-Methylnaphthalene	BQL	0.354	0.058	1	10/17/2008	

**Results for Semivolatiles
by GCMS 8270**

Client Sample ID: UST1114-DPT05 (2-4)
 Client Project ID: Building 1114 & HPFF
 Lab Sample ID: G128-2261-6H
 Lab Project ID: G128-2261
 Report Basis: Dry weight
 Initial Weight: 33.26 g

Analyzed By: DES
 Date Collected: 10/15/2008 11:50
 Date Received: 10/16/2008
 Date Extracted: 10/16/2008
 Matrix: Soil
 % Solids: 84.89

Compound	Result mg/Kg	RL mg/Kg	MDL mg/Kg	Dilution Factor	Date Analyzed	Flag
2-Methylphenol	BQL	0.354	0.054	1	10/17/2008	
3- & 4-Methylphenol	BQL	0.354	0.046	1	10/17/2008	
Naphthalene	BQL	0.354	0.050	1	10/17/2008	
2-Nitroaniline	BQL	0.354	0.048	1	10/17/2008	
3-Nitroaniline	BQL	1.77	0.052	1	10/17/2008	
4-Nitroaniline	BQL	1.77	0.048	1	10/17/2008	
Nitrobenzene	BQL	0.354	0.047	1	10/17/2008	
2-Nitrophenol	BQL	0.354	0.052	1	10/17/2008	
4-Nitrophenol	BQL	1.77	0.062	1	10/17/2008	
N-Nitrosodi-n-propylamine	BQL	0.354	0.057	1	10/17/2008	
Pentachlorophenol	BQL	1.77	0.033	1	10/17/2008	
Phenanthrene	BQL	0.354	0.050	1	10/17/2008	
Phenol	BQL	0.354	0.048	1	10/17/2008	
Pyrene	BQL	0.354	0.048	1	10/17/2008	
1,2,4-Trichlorobenzene	BQL	0.354	0.064	1	10/17/2008	
2,4,5-Trichlorophenol	BQL	0.354	0.053	1	10/17/2008	
2,4,6-Trichlorophenol	BQL	0.354	0.032	1	10/17/2008	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	8.7	87		
2-Fluorophenol		10	8.9	89		
Nitrobenzene-d5		10	8.8	88		
Phenol-d6		10	9.2	92		
2,4,6-Tribromophenol		10	8.9	89		
4-Terphenyl-d14		10	8.1	81		

Comments:

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

Flags:

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By: 

Results of Library Search for Semivolatile Compounds
by GCMS

Client Sample ID: UST1114-DPT05 (2-4)
Client Project ID: Building 1114 & HPFF
Lab Sample ID: G128-2261-6H
Lab Project ID: G128-2261
Sample Wt/Vol: 33.26 g
Dilution: 1

Analyzed By: DES
Date Collected: 10/15/2008 11:50
Date Received: 10/16/2008
Date Extracted: 10/16/2008
Date Analyzed: 10/17/2008
Matrix: Soil
% Solids: 84.9

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/KG)
1	Unknown	10.96			946
2	1-Dotriacontanol	12.24	006624-79-9	91	753
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 8270**

Client Sample ID: UST1114-DPT06 (2-4)
 Client Project ID: Building 1114 & HPFF
 Lab Sample ID: G128-2261-7H
 Lab Project ID: G128-2261
 Report Basis: Dry weight
 Initial Weight: 33.26 g

Analyzed By: DES
 Date Collected: 10/15/2008 13:25
 Date Received: 10/16/2008
 Date Extracted: 10/16/2008
 Matrix: Soil
 % Solids: 82.47

Compound	Result mg/Kg	RL mg/Kg	MDL mg/Kg	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	0.365	0.056	1	10/17/2008	
Acenaphthylene	BQL	0.365	0.051	1	10/17/2008	
Anthracene	BQL	0.365	0.050	1	10/17/2008	
Benzo[a]anthracene	BQL	0.365	0.050	1	10/17/2008	
Benzo[a]pyrene	BQL	0.365	0.053	1	10/17/2008	
Benzo[b]fluoranthene	BQL	0.365	0.051	1	10/17/2008	
Benzo[g,h,i]perylene	BQL	0.365	0.063	1	10/17/2008	
Benzo[k]fluoranthene	BQL	0.365	0.052	1	10/17/2008	
Benzoic Acid	BQL	0.729	0.450	1	10/17/2008	
Bis(2-chloroethoxy)methane	BQL	0.365	0.054	1	10/17/2008	
Bis(2-chloroethyl)ether	BQL	0.365	0.074	1	10/17/2008	
Bis(2-chloroisopropyl)ether	BQL	0.365	0.059	1	10/17/2008	
Bis(2-ethylhexyl)phthalate	BQL	0.365	0.056	1	10/17/2008	
4-bromophenyl phenyl ether	BQL	0.365	0.065	1	10/17/2008	
Butylbenzylphthalate	BQL	0.365	0.054	1	10/17/2008	
2-Chloronaphthalene	BQL	0.365	0.051	1	10/17/2008	
2-Chlorophenol	BQL	0.365	0.046	1	10/17/2008	
4-Chloro-3-methylphenol	BQL	0.365	0.053	1	10/17/2008	
4-Chloroaniline	BQL	1.82	0.059	1	10/17/2008	
4-Chlorophenyl phenyl ether	BQL	0.365	0.054	1	10/17/2008	
Chrysene	BQL	0.365	0.035	1	10/17/2008	
Dibenzo[a,h]anthracene	BQL	0.365	0.047	1	10/17/2008	
Dibenzofuran	BQL	0.365	0.051	1	10/17/2008	
Di-n-Butylphthalate	BQL	0.365	0.053	1	10/17/2008	
1,2-Dichlorobenzene	BQL	0.365	0.062	1	10/17/2008	
1,3-Dichlorobenzene	BQL	0.365	0.059	1	10/17/2008	
1,4-Dichlorobenzene	BQL	0.365	0.053	1	10/17/2008	
3,3'-Dichlorobenzidine	BQL	0.729	0.060	1	10/17/2008	
2,4-Dichlorophenol	BQL	0.365	0.040	1	10/17/2008	
Diethylphthalate	BQL	0.365	0.049	1	10/17/2008	
Dimethylphthalate	BQL	0.365	0.057	1	10/17/2008	
2,4-Dimethylphenol	BQL	0.365	0.066	1	10/17/2008	
Di-n-octylphthalate	BQL	0.365	0.056	1	10/17/2008	
4,6-Dinitro-2-methylphenol	BQL	1.82	0.043	1	10/17/2008	
2,4-Dinitrophenol	BQL	1.82	0.047	1	10/17/2008	
2,4-Dinitrotoluene	BQL	0.365	0.055	1	10/17/2008	
2,6-Dinitrotoluene	BQL	0.365	0.060	1	10/17/2008	
Diphenylamine *	BQL	0.365	0.046	1	10/17/2008	
Fluoranthene	BQL	0.365	0.059	1	10/17/2008	
Fluorene	BQL	0.365	0.057	1	10/17/2008	
Hexachlorobenzene	BQL	0.365	0.079	1	10/17/2008	
Hexachlorobutadiene	BQL	0.365	0.066	1	10/17/2008	
Hexachlorocyclopentadiene	BQL	0.729	0.071	1	10/17/2008	
Hexachloroethane	BQL	0.365	0.057	1	10/17/2008	
Indeno(1,2,3-c,d)pyrene	BQL	0.365	0.043	1	10/17/2008	
Isophorone	BQL	0.365	0.053	1	10/17/2008	
2-Methylnaphthalene	0.445	0.365	0.059	1	10/17/2008	

**Results for Semivolatiles
by GCMS 8270**

Client Sample ID: UST1114-DPT06 (2-4)
 Client Project ID: Building 1114 & HPFF
 Lab Sample ID: G128-2261-7H
 Lab Project ID: G128-2261
 Report Basis: Dry weight
 Initial Weight: 33.26 g

Analyzed By: DES
 Date Collected: 10/15/2008 13:25
 Date Received: 10/16/2008
 Date Extracted: 10/16/2008
 Matrix: Soil
 % Solids: 82.47

Compound	Result mg/Kg	RL mg/Kg	MDL mg/Kg	Dilution Factor	Date Analyzed	Flag
2-Methylphenol	BQL	0.365	0.056	1	10/17/2008	
3- & 4-Methylphenol	BQL	0.365	0.047	1	10/17/2008	
Naphthalene	2.44	0.365	0.051	1	10/17/2008	
2-Nitroaniline	BQL	0.365	0.049	1	10/17/2008	
3-Nitroaniline	BQL	1.82	0.054	1	10/17/2008	
4-Nitroaniline	BQL	1.82	0.049	1	10/17/2008	
Nitrobenzene	BQL	0.365	0.049	1	10/17/2008	
2-Nitrophenol	BQL	0.365	0.053	1	10/17/2008	
4-Nitrophenol	BQL	1.82	0.063	1	10/17/2008	
N-Nitrosodi-n-propylamine	BQL	0.365	0.059	1	10/17/2008	
Pentachlorophenol	BQL	1.82	0.034	1	10/17/2008	
Phenanthrene	BQL	0.365	0.051	1	10/17/2008	
Phenol	BQL	0.365	0.050	1	10/17/2008	
Pyrene	BQL	0.365	0.050	1	10/17/2008	
1,2,4-Trichlorobenzene	BQL	0.365	0.066	1	10/17/2008	
2,4,5-Trichlorophenol	BQL	0.365	0.054	1	10/17/2008	
2,4,6-Trichlorophenol	BQL	0.365	0.032	1	10/17/2008	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	8.9	89		
2-Fluorophenol		10	9.1	91		
Nitrobenzene-d5		10	9.2	92		
Phenol-d6		10	9.2	92		
2,4,6-Tribromophenol		10	8.9	89		
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: UST1114-DPT06 (2-4)
 Client Project ID: Building 1114 & HPFF
 Lab Sample ID: G128-2261-7H
 Lab Project ID: G128-2261
 Sample Wt/Vol: 33.26 g
 Dilution: 1

Analyzed By: DES
 Date Collected: 10/15/2008 13:25
 Date Received: 10/16/2008
 Date Extracted: 10/16/2008
 Date Analyzed: 10/17/2008
 Matrix: Soil
 % Solids: 82.5

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/KG)
1	Unknown	15.55			3060
2	Benzene, 1,4-diethyl-	4.39	000105-05-5	91	3000
3	Alkane, Unknown	10.57			2630
4	Unknown	15.74			2580
5	1,2,4-Trimethylbenzene	4.17	000095-36-3	91	1800
6	Benzene, 1-methyl-3-propyl-	4.35	001074-43-7	93	1470
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 8270**

Client Sample ID: UST1114-DPT07 (2-4)
 Client Project ID: Building 1114 & HPFF
 Lab Sample ID: G128-2261-8H
 Lab Project ID: G128-2261
 Report Basis: Dry weight
 Initial Weight: 37.31 g

Analyzed By: DES
 Date Collected: 10/15/2008 13:45
 Date Received: 10/16/2008
 Date Extracted: 10/16/2008
 Matrix: Soil
 % Solids: 79.88

Compound	Result mg/Kg	RL mg/Kg	MDL mg/Kg	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	0.336	0.051	1	10/17/2008	
Acenaphthylene	BQL	0.336	0.047	1	10/17/2008	
Anthracene	BQL	0.336	0.046	1	10/17/2008	
Benzo[a]anthracene	BQL	0.336	0.046	1	10/17/2008	
Benzo[a]pyrene	BQL	0.336	0.048	1	10/17/2008	
Benzo[b]fluoranthene	BQL	0.336	0.047	1	10/17/2008	
Benzo[g,h,i]perylene	BQL	0.336	0.058	1	10/17/2008	
Benzo[k]fluoranthene	BQL	0.336	0.048	1	10/17/2008	
Benzoic Acid	BQL	0.671	0.414	1	10/17/2008	
Bis(2-chloroethoxy)methane	BQL	0.336	0.049	1	10/17/2008	
Bis(2-chloroethyl)ether	BQL	0.336	0.068	1	10/17/2008	
Bis(2-chloroisopropyl)ether	BQL	0.336	0.054	1	10/17/2008	
Bis(2-ethylhexyl)phthalate	BQL	0.336	0.051	1	10/17/2008	
4-bromophenyl phenyl ether	BQL	0.336	0.059	1	10/17/2008	
Butylbenzylphthalate	BQL	0.336	0.050	1	10/17/2008	
2-Chloronaphthalene	BQL	0.336	0.047	1	10/17/2008	
2-Chlorophenol	BQL	0.336	0.043	1	10/17/2008	
4-Chloro-3-methylphenol	BQL	0.336	0.049	1	10/17/2008	
4-Chloroaniline	BQL	1.68	0.055	1	10/17/2008	
4-Chlorophenyl phenyl ether	BQL	0.336	0.049	1	10/17/2008	
Chrysene	BQL	0.336	0.032	1	10/17/2008	
Dibenzo[a,h]anthracene	BQL	0.336	0.043	1	10/17/2008	
Dibenzofuran	BQL	0.336	0.047	1	10/17/2008	
Di-n-Butylphthalate	BQL	0.336	0.049	1	10/17/2008	
1,2-Dichlorobenzene	BQL	0.336	0.057	1	10/17/2008	
1,3-Dichlorobenzene	BQL	0.336	0.054	1	10/17/2008	
1,4-Dichlorobenzene	BQL	0.336	0.049	1	10/17/2008	
3,3'-Dichlorobenzidine	BQL	0.671	0.055	1	10/17/2008	
2,4-Dichlorophenol	BQL	0.336	0.037	1	10/17/2008	
Diethylphthalate	BQL	0.336	0.045	1	10/17/2008	
Dimethylphthalate	BQL	0.336	0.052	1	10/17/2008	
2,4-Dimethylphenol	BQL	0.336	0.061	1	10/17/2008	
Di-n-octylphthalate	BQL	0.336	0.052	1	10/17/2008	
4,6-Dinitro-2-methylphenol	BQL	1.68	0.040	1	10/17/2008	
2,4-Dinitrophenol	BQL	1.68	0.044	1	10/17/2008	
2,4-Dinitrotoluene	BQL	0.336	0.051	1	10/17/2008	
2,6-Dinitrotoluene	BQL	0.336	0.055	1	10/17/2008	
Diphenylamine *	BQL	0.336	0.042	1	10/17/2008	
Fluoranthene	BQL	0.336	0.054	1	10/17/2008	
Fluorene	BQL	0.336	0.052	1	10/17/2008	
Hexachlorobenzene	BQL	0.336	0.073	1	10/17/2008	
Hexachlorobutadiene	BQL	0.336	0.061	1	10/17/2008	
Hexachlorocyclopentadiene	BQL	0.671	0.065	1	10/17/2008	
Hexachloroethane	BQL	0.336	0.052	1	10/17/2008	
Indeno(1,2,3-c,d)pyrene	BQL	0.336	0.040	1	10/17/2008	
Isophorone	BQL	0.336	0.049	1	10/17/2008	
2-Methylnaphthalene	BQL	0.336	0.055	1	10/17/2008	

Results for Semivolatiles by GCMS 8270

Client Sample ID: UST1114-DPT07 (2-4)
 Client Project ID: Building 1114 & HPFF
 Lab Sample ID: G128-2261-8H
 Lab Project ID: G128-2261
 Report Basis: Dry weight
 Initial Weight: 37.31 g

Analyzed By: DES
 Date Collected: 10/15/2008 13:45
 Date Received: 10/16/2008
 Date Extracted: 10/16/2008
 Matrix: Soil
 % Solids: 79.88

Compound	Result mg/Kg	RL mg/Kg	MDL mg/Kg	Dilution Factor	Date Analyzed	Flag
2-Methylphenol	BQL	0.336	0.051	1	10/17/2008	
3- & 4-Methylphenol	BQL	0.336	0.044	1	10/17/2008	
Naphthalene	BQL	0.336	0.047	1	10/17/2008	
2-Nitroaniline	BQL	0.336	0.045	1	10/17/2008	
3-Nitroaniline	BQL	1.68	0.049	1	10/17/2008	
4-Nitroaniline	BQL	1.68	0.045	1	10/17/2008	
Nitrobenzene	BQL	0.336	0.045	1	10/17/2008	
2-Nitrophenol	BQL	0.336	0.049	1	10/17/2008	
4-Nitrophenol	BQL	1.68	0.058	1	10/17/2008	
N-Nitrosodi-n-propylamine	BQL	0.336	0.054	1	10/17/2008	
Pentachlorophenol	BQL	1.68	0.031	1	10/17/2008	
Phenanthrene	BQL	0.336	0.047	1	10/17/2008	
Phenol	BQL	0.336	0.046	1	10/17/2008	
Pyrene	BQL	0.336	0.046	1	10/17/2008	
1,2,4-Trichlorobenzene	BQL	0.336	0.060	1	10/17/2008	
2,4,5-Trichlorophenol	BQL	0.336	0.050	1	10/17/2008	
2,4,6-Trichlorophenol	BQL	0.336	0.030	1	10/17/2008	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	7.1	71		
2-Fluorophenol		10	8.7	87		
Nitrobenzene-d5		10	8.1	81		
Phenol-d6		10	9	90		
2,4,6-Tribromophenol		10	7.4	74		
4-Terphenyl-d14		10	7.1	71		

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: UST1114-DPT07 (2-4)
Client Project ID: Building 1114 & HPFF
Lab Sample ID: G128-2261-8H
Lab Project ID: G128-2261
Sample Wt/Vol: 37.31 g
Dilution: 1

Analyzed By: DES
Date Collected: 10/15/2008 13:45
Date Received: 10/16/2008
Date Extracted: 10/16/2008
Date Analyzed: 10/17/2008
Matrix: Soil
% Solids: 79.9

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/KG)
1	Unknown	10.96			1720
2	Unknown	15.30			733
3	Benzene, 1,3,5-trimethyl-	3.97	000108-67-8	94	507
4	Unknown	15.74			388
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 8270**

Client Sample ID: UST1114-DPT08 (2-4)
 Client Project ID: Building 1114 & HPFF
 Lab Sample ID: G128-2261-9H
 Lab Project ID: G128-2261
 Report Basis: Dry weight
 Initial Weight: 33.79 g

Analyzed By: DES
 Date Collected: 10/15/2008 14:15
 Date Received: 10/16/2008
 Date Extracted: 10/16/2008
 Matrix: Soil
 % Solids: 79.5

Compound	Result mg/Kg	RL mg/Kg	MDL mg/Kg	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	0.372	0.057	1	10/17/2008	
Acenaphthylene	BQL	0.372	0.052	1	10/17/2008	
Anthracene	BQL	0.372	0.051	1	10/17/2008	
Benzo[a]anthracene	BQL	0.372	0.051	1	10/17/2008	
Benzo[a]pyrene	BQL	0.372	0.054	1	10/17/2008	
Benzo[b]fluoranthene	BQL	0.372	0.052	1	10/17/2008	
Benzo[g,h,i]perylene	BQL	0.372	0.065	1	10/17/2008	
Benzo[k]fluoranthene	BQL	0.372	0.053	1	10/17/2008	
Benzoic Acid	BQL	0.745	0.460	1	10/17/2008	
Bis(2-chloroethoxy)methane	BQL	0.372	0.055	1	10/17/2008	
Bis(2-chloroethyl)ether	BQL	0.372	0.076	1	10/17/2008	
Bis(2-chloroisopropyl)ether	BQL	0.372	0.060	1	10/17/2008	
Bis(2-ethylhexyl)phthalate	BQL	0.372	0.057	1	10/17/2008	
4-bromophenyl phenyl ether	BQL	0.372	0.066	1	10/17/2008	
Butylbenzylphthalate	BQL	0.372	0.055	1	10/17/2008	
2-Chloronaphthalene	BQL	0.372	0.052	1	10/17/2008	
2-Chlorophenol	BQL	0.372	0.047	1	10/17/2008	
4-Chloro-3-methylphenol	BQL	0.372	0.054	1	10/17/2008	
4-Chloroaniline	BQL	1.86	0.061	1	10/17/2008	
4-Chlorophenyl phenyl ether	BQL	0.372	0.055	1	10/17/2008	
Chrysene	BQL	0.372	0.036	1	10/17/2008	
Dibenzo[a,h]anthracene	BQL	0.372	0.048	1	10/17/2008	
Dibenzofuran	BQL	0.372	0.053	1	10/17/2008	
Di-n-Butylphthalate	BQL	0.372	0.054	1	10/17/2008	
1,2-Dichlorobenzene	BQL	0.372	0.063	1	10/17/2008	
1,3-Dichlorobenzene	BQL	0.372	0.060	1	10/17/2008	
1,4-Dichlorobenzene	BQL	0.372	0.054	1	10/17/2008	
3,3'-Dichlorobenzidine	BQL	0.745	0.061	1	10/17/2008	
2,4-Dichlorophenol	BQL	0.372	0.041	1	10/17/2008	
Diethylphthalate	BQL	0.372	0.050	1	10/17/2008	
Dimethylphthalate	BQL	0.372	0.058	1	10/17/2008	
2,4-Dimethylphenol	BQL	0.372	0.067	1	10/17/2008	
Di-n-octylphthalate	BQL	0.372	0.057	1	10/17/2008	
4,6-Dinitro-2-methylphenol	BQL	1.86	0.044	1	10/17/2008	
2,4-Dinitrophenol	BQL	1.86	0.048	1	10/17/2008	
2,4-Dinitrotoluene	BQL	0.372	0.057	1	10/17/2008	
2,6-Dinitrotoluene	BQL	0.372	0.061	1	10/17/2008	
Diphenylamine *	BQL	0.372	0.047	1	10/17/2008	
Fluoranthene	BQL	0.372	0.060	1	10/17/2008	
Fluorene	BQL	0.372	0.058	1	10/17/2008	
Hexachlorobenzene	BQL	0.372	0.081	1	10/17/2008	
Hexachlorobutadiene	BQL	0.372	0.068	1	10/17/2008	
Hexachlorocyclopentadiene	BQL	0.745	0.073	1	10/17/2008	
Hexachloroethane	BQL	0.372	0.058	1	10/17/2008	
Indeno(1,2,3-c,d)pyrene	BQL	0.372	0.044	1	10/17/2008	
Isophorone	BQL	0.372	0.054	1	10/17/2008	
2-Methylnaphthalene	BQL	0.372	0.061	1	10/17/2008	

Results for Semivolatiles by GCMS 8270

Client Sample ID: UST1114-DPT08 (2-4)
 Client Project ID: Building 1114 & HPFF
 Lab Sample ID: G128-2261-9H
 Lab Project ID: G128-2261
 Report Basis: Dry weight
 Initial Weight: 33.79 g

Analyzed By: DES
 Date Collected: 10/15/2008 14:15
 Date Received: 10/16/2008
 Date Extracted: 10/16/2008
 Matrix: Soil
 % Solids: 79.5

Compound	Result mg/Kg	RL mg/Kg	MDL mg/Kg	Dilution Factor	Date Analyzed	Flag
2-Methylphenol	BQL	0.372	0.057	1	10/17/2008	
3- & 4-Methylphenol	BQL	0.372	0.048	1	10/17/2008	
Naphthalene	BQL	0.372	0.052	1	10/17/2008	
2-Nitroaniline	BQL	0.372	0.050	1	10/17/2008	
3-Nitroaniline	BQL	1.86	0.055	1	10/17/2008	
4-Nitroaniline	BQL	1.86	0.050	1	10/17/2008	
Nitrobenzene	BQL	0.372	0.050	1	10/17/2008	
2-Nitrophenol	BQL	0.372	0.054	1	10/17/2008	
4-Nitrophenol	BQL	1.86	0.065	1	10/17/2008	
N-Nitrosodi-n-propylamine	BQL	0.372	0.060	1	10/17/2008	
Pentachlorophenol	BQL	1.86	0.034	1	10/17/2008	
Phenanthrene	BQL	0.372	0.052	1	10/17/2008	
Phenol	BQL	0.372	0.051	1	10/17/2008	
Pyrene	BQL	0.372	0.051	1	10/17/2008	
1,2,4-Trichlorobenzene	BQL	0.372	0.067	1	10/17/2008	
2,4,5-Trichlorophenol	BQL	0.372	0.056	1	10/17/2008	
2,4,6-Trichlorophenol	BQL	0.372	0.033	1	10/17/2008	
		Spike Added	Spike Result	Percent Recovered		
2-Fluorobiphenyl		10	8.3	83		
2-Fluorophenol		10	9.4	94		
Nitrobenzene-d5		10	8.9	89		
Phenol-d6		10	9.6	96		
2,4,6-Tribromophenol		10	8.4	84		
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: UST1114-DPT08 (2-4)
Client Project ID: Building 1114 & HPFF
Lab Sample ID: G128-2261-9H
Lab Project ID: G128-2261
Sample Wt/Vol: 33.79 g
Dilution: 1

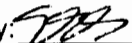
Analyzed By: DES
Date Collected: 10/15/2008 14:15
Date Received: 10/16/2008
Date Extracted: 10/16/2008
Date Analyzed: 10/17/2008
Matrix: Soil
% Solids: 79.5

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/KG)
1	Unknown	10.95			2220
2	Unknown	15.30			1250
3	Unknown	15.74			729
4	1-Dotriacontanol	12.25	006624-79-9	91	497
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 Metals

Client Sample ID:	UST1114-DPT01 (2-4)		Analyzed By:	PSW
Client Project ID:	Building 1114 & HPFF		Date Collected:	10/15/2008 10:20
Lab Sample ID:	G128-2261-1		Date Received:	10/16/2008
Lab Project ID:	G128-2261		Matrix:	SOIL
ICP InitWt/Vol:	0.54 g	Final Vol: 50 mL	Solids	86.99
Hg InitWt/Vol:		Final Vol:	Report Basis:	Dry
Prep Batch:	12684			

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Chromium	10.1	1.06	0.117	1	MG/KG	6010B	10/20/2008	
Lead	29.2	1.06	0.683	1	MG/KG	6010B	10/20/2008	

Comments

BQL = Below Quantitation Limits

DF = Dilution Factor

J = Between MDL and RL

B= Amount in Prep Blank > MDL

 Reviewed By: 
 METALS.XLS

Results for Metals

Client Sample ID: UST1114-DPT02 (2-4)

Client Project ID: Building 1114 & HPFF

Lab Sample ID: G128-2261-2

Lab Project ID: G128-2261

ICP InitWt/Vol: 0.5 g Final Vol: 50 mL

Hg InitWt/Vol: Final Vol:

Prep Batch: 12684

Analyzed By: PSW

Date Collected: 10/15/2008 10:45

Date Received: 10/16/2008

Matrix: SOIL

Solids 84.94

Report Basis: Dry

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Chromium	8.57	1.18	0.130	1	MG/KG	6010B	10/20/2008	
Lead	6.77	1.18	0.756	1	MG/KG	6010B	10/20/2008	

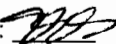
Comments

BQL = Below Quantitation Limits

DF = Dilution Factor

J = Between MDL and RL

B= Amount in Prep Blank > MDL

Reviewed By: 
METALS.XLS

Results for Metals

Client Sample ID:	UST1114-DPT03 (2-4)		Analyzed By:	PSW
Client Project ID:	Building 1114 & HPFF		Date Collected:	10/15/2008 11:05
Lab Sample ID:	G128-2261-3		Date Received:	10/16/2008
Lab Project ID:	G128-2261		Matrix:	SOIL
ICP InitWt/Vol:	0.58 g	Final Vol:	50 mL	Solids
Hg InitWt/Vol:		Final Vol:		82.90
Prep Batch:	12684			Report Basis:
				Dry

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Chromium	11.8	1.04	0.114	1	MG/KG	6010B	10/20/2008	
Lead	7.55	1.04	0.668	1	MG/KG	6010B	10/20/2008	

Comments

BQL = Below Quantitation Limits

DF = Dilution Factor

J = Between MDL and RL

B= Amount in Prep Blank > MDL

Reviewed By: 
METALS.XLS

Results for Metals

Client Sample ID:	UST1114-DPT04 (2-4)		Analyzed By:	PSW
Client Project ID:	Building 1114 & HPFF		Date Collected:	10/15/2008 11:20
Lab Sample ID:	G128-2261-4		Date Received:	10/16/2008
Lab Project ID:	G128-2261		Matrix:	SOIL
ICP InitWt/Vol:	0.59 g	Final Vol:	50 mL	Solids
Hg InitWt/Vol:		Final Vol:		77.53
Prep Batch:	12684			Report Basis:
				Dry

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Chromium	6.65	1.09	0.120	1	MG/KG	6010B	10/20/2008	
Lead	6.36	1.09	0.702	1	MG/KG	6010B	10/20/2008	

Comments

BQL = Below Quantitation Limits

DF = Dilution Factor

J = Between MDL and RL

B= Amount in Prep Blank > MDL

 Reviewed By: 
 METALS.XLS

Results for Metals

Client Sample ID: UST1114-DPT05 (2-4)

Client Project ID: Building 1114 & HPFF

Lab Sample ID: G128-2261-6

Lab Project ID: G128-2261

ICP InitWt/Vol: 0.6 g Final Vol: 50 mL

Hg InitWt/Vol: Final Vol:

Prep Batch: 12684

Analyzed By: PSW

Date Collected: 10/15/2008 11:50

Date Received: 10/16/2008

Matrix: SOIL

Solids 84.89

Report Basis: Dry

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Chromium	3.93	0.982	0.108	1	MG/KG	6010B	10/20/2008	
Lead	3.79	0.982	0.630	1	MG/KG	6010B	10/20/2008	

Comments

BQL = Below Quantitation Limits

DF = Dilution Factor

J = Between MDL and RL

B= Amount in Prep Blank > MDL

Reviewed By: 
METALS.XLS

Results for Metals

Client Sample ID:	UST1114-DPT06 (2-4)		Analyzed By:	PSW
Client Project ID:	Building 1114 & HPFF		Date Collected:	10/15/2008 13:25
Lab Sample ID:	G128-2261-7		Date Received:	10/16/2008
Lab Project ID:	G128-2261		Matrix:	SOIL
ICP InitWt/Vol:	0.5 g	Final Vol:	50 mL	Solids
Hg InitWt/Vol:		Final Vol:		82.47
Prep Batch:	12684		Report Basis:	Dry

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Chromium	4.13	1.21	0.133	1	MG/KG	6010B	10/20/2008	
Lead	4.01	1.21	0.778	1	MG/KG	6010B	10/20/2008	

Comments

BQL = Below Quantitation Limits

DF = Dilution Factor

J = Between MDL and RL

B= Amount in Prep Blank > MDL

 Reviewed By: 
 METALS.XLS

Results for Metals

Client Sample ID:	UST1114-DPT07 (2-4)		Analyzed By:	PSW
Client Project ID:	Building 1114 & HPFF		Date Collected:	10/15/2008 13:45
Lab Sample ID:	G128-2261-8		Date Received:	10/16/2008
Lab Project ID:	G128-2261		Matrix:	SOIL
ICP InitWt/Vol:	0.56 g	Final Vol:	50 mL	Solids
Hg InitWt/Vol:		Final Vol:		79.88
Prep Batch:	12684		Report Basis:	Dry

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Chromium	2.63	1.12	0.123	1	MG/KG	6010B	10/20/2008	
Lead	3.17	1.12	0.718	1	MG/KG	6010B	10/20/2008	

Comments

BQL = Below Quantitation Limits

DF = Dilution Factor

J = Between MDL and RL

B= Amount in Prep Blank > MDL

 Reviewed By: 
 METALS.XLS

Results for Metals

Client Sample ID:	UST1114-DPT08 (2-4)		Analyzed By:	PSW
Client Project ID:	Building 1114 & HPFF		Date Collected:	10/15/2008 14:15
Lab Sample ID:	G128-2261-9		Date Received:	10/16/2008
Lab Project ID:	G128-2261		Matrix:	SOIL
ICP InitWt/Vol:	0.55 g	Final Vol:	50 mL	Solids
Hg InitWt/Vol:		Final Vol:		79.50
Prep Batch:	12684		Report Basis:	Dry

Metals	Result	RL	MDL	DF	Units	Method	Date Analyzed	Flags
Chromium	5.91	1.14	0.126	1	MG/KG	6010B	10/20/2008	
Lead	5.53	1.14	0.734	1	MG/KG	6010B	10/20/2008	

Comments

BQL = Below Quantitation Limits

DF = Dilution Factor

J = Between MDL and RL

B= Amount in Prep Blank > MDL

 Reviewed By: 
 METALS.XLS

VPH (Aliphatics/Aromatics) Laboratory Reporting FormClient Name: Richard Catlin & AssociatesProject Name: Building 1114 & HPFF

Sample Information	
Sample Identification	UST1114-DPT01 (2-4)
Sample Matrix	Soil
Collection Option (for Soil)*	2
Date Collected	10/15/08
Date Received	10/16/08
Date Extracted	10/17/08
Date Analyzed	10/20/08 16:04 - 10/20/08 16:04
Dry Weight	87.0
Dilution Factor	1 - 1

Analytical Results				
Analyte	Result mg/Kg	Report Limit mg/Kg	Flags	
C ₅ -C ₈ Aliphatics**	BQL	10.0		
C ₉ -C ₁₂ Aliphatics**	BQL	10.0		
C ₉ -C ₁₀ Aromatics**	BQL	10.0		
	Percent Recovery	Flags	Limits Lower Upper	
Surrogate % Recovery - PID	88.1		70	130
Surrogate % Recovery - FID	91.2		70	130

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

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

Lab Info: g128-2261-1e	Lab Info: g128-2261-1e
FID Info: VP102008/015F0101.D	PID Info: VP102008/015R0101.D

Reviewed By: 

VPH (Aliphatics/Aromatics) Laboratory Reporting FormClient Name: Richard Catlin & AssociatesProject Name: Building 1114 & HPFF

Sample Information	
Sample Identification	UST1114-DPT02 (2-4)
Sample Matrix	Soil
Collection Option (for Soil)*	2
Date Collected	10/15/08
Date Received	10/16/08
Date Extracted	10/17/08
Date Analyzed	10/20/08 16:31 - 10/20/08 16:31
Dry Weight	84.9
Dilution Factor	1 - 1

Analytical Results				
Analyte	Result mg/Kg	Report Limit mg/Kg	Flags	
C ₅ -C ₈ Aliphatics**	BQL	10.0		
C ₉ -C ₁₂ Aliphatics**	BQL	10.0		
C ₉ -C ₁₀ Aromatics**	BQL	10.0		
	Percent Recovery	Flags	Limits Lower Upper	
Surrogate % Recovery - PID	89.2		70	130
Surrogate % Recovery - FID	91.9		70	130

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

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

Lab Info: g128-2261-2e	Lab Info: g128-2261-2e
FID Info: VP102008/016F0101.D	PID Info: VP102008/016R0101.D

Reviewed By: 

VPH (Aliphatics/Aromatics) Laboratory Reporting FormClient Name: Richard Catlin & AssociatesProject Name: Building 1114 & HPFF

Sample Information	
Sample Identification	UST1114-DPT03 (2-4)
Sample Matrix	Soil
Collection Option (for Soil)*	2
Date Collected	10/15/08
Date Received	10/16/08
Date Extracted	10/17/08
Date Analyzed	10/20/08 16:57 - 10/20/08 16:57
Dry Weight	82.9
Dilution Factor	1 - 1

Analytical Results				
Analyte	Result mg/Kg	Report Limit mg/Kg	Flags	
C ₅ -C ₈ Aliphatics**	BQL	10.0		
C ₉ -C ₁₂ Aliphatics**	BQL	10.0		
C ₉ -C ₁₀ Aromatics**	BQL	10.0		
	Percent Recovery	Flags	Limits Lower Upper	
Surrogate % Recovery - PID	90.8		70	130
Surrogate % Recovery - FID	94.3		70	130

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

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

Lab Info: g128-2261-3e	Lab Info: g128-2261-3e
FID Info: VP102008/017F0101.D	PID Info: VP102008/017R0101.D

Reviewed By: 

VPH (Aliphatics/Aromatics) Laboratory Reporting FormClient Name: Richard Catlin & AssociatesProject Name: Building 1114 & HPFF

Sample Information	
Sample Identification	UST1114-DPT04 (2-4)
Sample Matrix	Soil
Collection Option (for Soil)*	2
Date Collected	10/15/08
Date Received	10/16/08
Date Extracted	10/17/08
Date Analyzed	10/20/08 17:24 - 10/20/08 17:24
Dry Weight	77.5
Dilution Factor	1 - 1

Analytical Results				
Analyte	Result mg/Kg	Report Limit mg/Kg	Flags	
C ₅ -C ₈ Aliphatics**	BQL	10.0		
C ₉ -C ₁₂ Aliphatics**	11.7	10.0		
C ₉ -C ₁₀ Aromatics**	30.0	10.0		
	Percent Recovery	Flags	Limits Lower Upper	
Surrogate % Recovery - PID	96.0		70	130
Surrogate % Recovery - FID	120		70	130

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

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

Lab Info: g128-2261-4e	Lab Info: g128-2261-4e
FID Info: VP102008/018F0101.D	PID Info: VP102008/018R0101.D

Reviewed By: 

VPH (Aliphatics/Aromatics) Laboratory Reporting FormClient Name: Richard Catlin & AssociatesProject Name: Building 1114 & HPFF

Sample Information	
Sample Identification	UST1114-DPT05 (2-4)
Sample Matrix	Soil
Collection Option (for Soil)*	2
Date Collected	10/15/08
Date Received	10/16/08
Date Extracted	10/17/08
Date Analyzed	10/20/08 17:51 - 10/20/08 17:51
Dry Weight	84.9
Dilution Factor	1 - 1

Analytical Results				
Analyte	Result mg/Kg	Report Limit mg/Kg	Flags	
C ₅ -C ₈ Aliphatics**	BQL	10.0		
C ₉ -C ₁₂ Aliphatics**	BQL	10.0		
C ₉ -C ₁₀ Aromatics**	BQL	10.0		
	Percent Recovery	Flags	Limits Lower Upper	
Surrogate % Recovery - PID	89.0		70	130
Surrogate % Recovery - FID	90.7		70	130

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

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

Lab Info: g128-2261-6e	Lab Info: g128-2261-6e
FID Info: VP102008/019F0101.D	PID Info: VP102008/019R0101.D

Reviewed By: 

VPH (Aliphatics/Aromatics) Laboratory Reporting FormClient Name: Richard Catlin & AssociatesProject Name: Building 1114 & HPFF

Sample Information	
Sample Identification	UST1114-DPT06 (2-4)
Sample Matrix	Soil
Collection Option (for Soil)*	2
Date Collected	10/15/08
Date Received	10/16/08
Date Extracted	10/17/08
Date Analyzed	10/20/08 18:18 - 10/20/08 18:18
Dry Weight	82.5
Dilution Factor	1 - 1

Analytical Results				
Analyte	Result mg/Kg	Report Limit mg/Kg	Flags	
C ₅ -C ₈ Aliphatics**	12.0	10.0		
C ₈ -C ₁₂ Aliphatics**	53.3	10.0		
C ₉ -C ₁₀ Aromatics**	120	10.0		
	Percent Recovery	Flags	Limits Lower Upper	
Surrogate % Recovery - PID	99.4		70	130
Surrogate % Recovery - FID	104		70	130

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

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

Lab Info: g128-2261-7e	Lab Info: g128-2261-7e
FID Info: VP102008/020F0101.D	PID Info: VP102008/020R0101.D

Reviewed By: 

VPH (Aliphatics/Aromatics) Laboratory Reporting FormClient Name: Richard Catlin & AssociatesProject Name: Building 1114 & HPFF

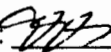
Sample Information	
Sample Identification	UST1114-DPT07 (2-4)
Sample Matrix	Soil
Collection Option (for Soil)*	2
Date Collected	10/15/08
Date Received	10/16/08
Date Extracted	10/17/08
Date Analyzed	10/20/08 18:44 - 10/20/08 18:44
Dry Weight	79.9
Dilution Factor	1 - 1

Analytical Results				
Analyte	Result mg/Kg	Report Limit mg/Kg	Flags	
C ₅ -C ₈ Aliphatics**	19.6	10.0		
C ₉ -C ₁₂ Aliphatics**	BQL	10.0		
C ₉ -C ₁₀ Aromatics**	BQL	10.0		
	Percent Recovery	Flags	Limits Lower Upper	
Surrogate % Recovery - PID	91.5		70	130
Surrogate % Recovery - FID	92.7		70	130

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

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

Lab Info: g128-2261-8e	Lab Info: g128-2261-8e
FID Info: VP102008/021F0101.D	PID Info: VP102008/021R0101.D

Reviewed By: 

VPH (Aliphatics/Aromatics) Laboratory Reporting FormClient Name: Richard Catlin & AssociatesProject Name: Building 1114 & HPFF

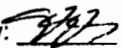
Sample Information	
Sample Identification	UST1114-DPT08 (2-4)
Sample Matrix	Soil
Collection Option (for Soil)*	2
Date Collected	10/15/08
Date Received	10/16/08
Date Extracted	10/17/08
Date Analyzed	10/20/08 19:11 - 10/20/08 19:11
Dry Weight	79.5
Dilution Factor	1 - 1

Analytical Results				
Analyte	Result mg/Kg	Report Limit mg/Kg	Flags	
C ₅ -C ₈ Aliphatics**	47.7	10.0		
C ₉ -C ₁₂ Aliphatics**	BQL	10.0		
C ₉ -C ₁₀ Aromatics**	BQL	10.0		
	Percent Recovery	Flags	Limits Lower Upper	
Surrogate % Recovery - PID	99.6		70	130
Surrogate % Recovery - FID	98.1		70	130

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

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

Lab Info: g128-2261-9e	Lab Info: g128-2261-9e
FID Info: VP102008/022F0101.D	PID Info: VP102008/022R0101.D

Reviewed By: 

Attachment 2

VPH Laboratory Reporting Form

Calibration and QA/QC Information

FID Initial Calibration Date: 09/25/08PID Initial Calibration Date: 09/25/08

Calibration Ranges and Limits

Range	MDL		ML		RL	
	(µg/L)	(mg/Kg)	(µg/L)	(mg/Kg)	(µg/L)	(mg/Kg)
C ₅ -C ₈ Aliphatics	2.02	0.175	6.42	0.557	100	10
C ₉ -C ₁₂ Aliphatics	1.51	0.118	4.80	0.375	100	10
C ₉ -C ₁₀ Aromatics	0.902	0.132	2.87	0.420	100	10

Calibration Concentration Levels

Range	Levels (µg/L)	Levels (mg/Kg)	%RSD if CF r if LR	Method of Quantitation
C ₅ -C ₈ Aliphatics	10	0.8	6.17	Calibration Factor
	50	4		
	100	8		
	200	16		
	500	40		
C ₉ -C ₁₂ Aliphatics	10	0.8	1.00	Linear Regression
	50	4		
	100	8		
	200	16		
	500	40		
C ₉ -C ₁₀ Aromatics	10	0.8	9.53	Calibration Factor
	50	4		
	100	8		
	200	16		
	500	40		

Calibration Check Date: 10/20/08Filename: VP102008/002F0101.d

Calibration Check

Range	Levels (µg/L)	Levels (mg/Kg)	%Difference if CF %Drift if LR	Limits
C ₅ -C ₈ Aliphatics	200	16	17.1	±25%
C ₉ -C ₁₂ Aliphatics	200	16	3.2	±25%
C ₉ -C ₁₀ Aromatics	200	16	7.5	±25%

MDL = Method Detection Limit

ML = Minimum Limit

RL = Reportable Limit

RPD = Relative Percent Difference

%RSD = Percent Relative Standard Deviation

CCC = Correlation Coefficient of Curve

Attachment 2

VPH Laboratory Reporting Form

Calibration and QA/QC Information

FID Initial Calibration Date: 09/25/08PID Initial Calibration Date: 09/25/08

Calibration Ranges and Limits

Range	MDL		ML		RL	
	(µg/L)	(mg/Kg)	(µg/L)	(mg/Kg)	(µg/L)	(mg/Kg)
C ₅ -C ₈ Aliphatics	2.02	0.175	6.42	0.557	100	10
C ₉ -C ₁₂ Aliphatics	1.51	0.118	4.80	0.375	100	10
C ₉ -C ₁₀ Aromatics	0.902	0.132	2.87	0.420	100	10

Calibration Concentration Levels

Range	Levels (µg/L)	Levels (mg/Kg)	%RSD if CF r if LR	Method of Quantitation
C ₅ -C ₈ Aliphatics	10	0.8	6.17	Calibration Factor
	50	4		
	100	8		
	200	16		
	500	40		
C ₉ -C ₁₂ Aliphatics	10	0.8	1.00	Linear Regression
	50	4		
	100	8		
	200	16		
	500	40		
C ₉ -C ₁₀ Aromatics	10	0.8	9.53	Calibration Factor
	50	4		
	100	8		
	200	16		
	500	40		

Calibration Check Date: 10/20/08Filename: VP102008/024F0101.d

Calibration Check

Range	Levels (µg/L)	Levels (mg/Kg)	%Difference if CF %Drift if LR	Limits
C ₅ -C ₈ Aliphatics	200	16	16.3	±25%
C ₉ -C ₁₂ Aliphatics	200	16	1.6	±25%
C ₉ -C ₁₀ Aromatics	200	16	11.0	±25%

MDL = Method Detection Limit

ML = Minimum Limit

RL = Reportable Limit

RPD = Relative Percent Difference

%RSD = Percent Relative Standard Deviation

CCC = Correlation Coefficient of Curve

EPH (Aliphatics/Aromatics) Laboratory Reporting FormClient Name: Richard Catlin & AssociatesProject Name: Building 1114 & HPFF

Sample Information	
Sample Identification	UST1114-DPT01 (2-4)
Sample Matrix	SOIL
Date Collected	10/15/08
Date Received	10/16/08
Date Extracted	10/17/08
Date Analyzed	10/20/08 23:50 - 10/21/08 00:18
Dry Weight	87.0
Dilution Factor	1 - 1
Initial weight (g)	12.48
Final Volume (mL)	10.0

Analytical Results			
Analytes**	Result mg/Kg	Report Limit mg/Kg	Flags
C9-C18 Aliphatics	BQL	10.0	
C19-C36 Aliphatics	BQL	10.0	
C11-C22 Aromatics	BQL	10.0	

Surrogates	Percent Recovery	Flags	Limits	
			Lower	Upper
Aliphatic (tricosane)	96.8		40	140
Aromatic (ortho-terphenyl)	93.0		40	140
Fractionation 1 (2-bromonaphthalene)	103		40	140
Fractionation 2 (2-fluorobiphenyl)	91.8		40	140

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

Lab Info: G128-2261-1J	Lab Info: G128-2261-1J
Aliphatic: EP102008/023F1101.D	Aromatic: EP102008/024F1201.D

Reviewed By: 

EPH (Aliphatics/Aromatics) Laboratory Reporting FormClient Name: Richard Catlin & AssociatesProject Name: Building 1114 & HPFF

Sample Information	
Sample Identification	UST1114-DPT02 (2-4)
Sample Matrix	SOIL
Date Collected	10/15/08
Date Received	10/16/08
Date Extracted	10/17/08
Date Analyzed	10/21/08 00:46 - 10/21/08 01:15
Dry Weight	84.9
Dilution Factor	1 - 1
Initial weight (g)	11.60
Final Volume (mL)	10.0

Analytical Results			
Analytes**	Result mg/Kg	Report Limit mg/Kg	Flags
C9-C18 Aliphatics	BQL	10.0	
C19-C36 Aliphatics	BQL	10.0	
C11-C22 Aromatics	BQL	10.0	

Surrogates	Percent Recovery	Flags	Limits	
			Lower	Upper
Aliphatic (tricosane)	96.5		40	140
Aromatic (ortho-terphenyl)	96.7		40	140
Fractionation 1 (2-bromonaphthalene)	102		40	140
Fractionation 2 (2-fluorobiphenyl)	92.8		40	140

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

Lab Info: G128-2261-2J	Lab Info: G128-2261-2J
Aliphatic: EP102008/025F1301.D	Aromatic: EP102008/026F1401.D

Reviewed By: 

EPH (Aliphatics/Aromatics) Laboratory Reporting FormClient Name: Richard Catlin & AssociatesProject Name: Building 1114 & HPFF

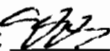
Sample Information	
Sample Identification	UST1114-DPT03 (2-4)
Sample Matrix	SOIL
Date Collected	10/15/08
Date Received	10/16/08
Date Extracted	10/17/08
Date Analyzed	10/21/08 01:43 - 10/21/08 02:11
Dry Weight	82.9
Dilution Factor	1 - 1
Initial weight (g)	14.32
Final Volume (mL)	10.0

Analytical Results			
Analytes**	Result mg/Kg	Report Limit mg/Kg	Flags
C9-C18 Aliphatics	BQL	10.0	
C19-C36 Aliphatics	BQL	10.0	
C11-C22 Aromatics	BQL	10.0	

Surrogates	Percent Recovery	Flags	Limits	
			Lower	Upper
Aliphatic (tricosane)	94.8		40	140
Aromatic (ortho-terphenyl)	79.3		40	140
Fractionation 1 (2-bromonaphthalene)	94.0		40	140
Fractionation 2 (2-fluorobiphenyl)	68.5		40	140

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

Lab Info: G128-2261-3J	Lab Info: G128-2261-3J
Aliphatic: EP102008/027F1501.D	Aromatic: EP102008/028F1601.D

Reviewed By: 

EPH (Aliphatics/Aromatics) Laboratory Reporting FormClient Name: Richard Catlin & AssociatesProject Name: Building 1114 & HPFF

Sample Information	
Sample Identification	UST1114-DPT04 (2-4)
Sample Matrix	SOIL
Date Collected	10/15/08
Date Received	10/16/08
Date Extracted	10/17/08
Date Analyzed	10/21/08 02:39 - 10/21/08 03:07
Dry Weight	77.5
Dilution Factor	1 - 1
Initial weight (g)	11.86
Final Volume (mL)	10.0

Analytical Results			
Analytes**	Result mg/Kg	Report Limit mg/Kg	Flags
C9-C18 Aliphatics	BQL	10.0	
C19-C36 Aliphatics	BQL	10.0	
C11-C22 Aromatics	BQL	10.0	

Surrogates	Percent Recovery	Flags	Limits	
			Lower	Upper
Aliphatic (tricosane)	52.6		40	140
Aromatic (ortho-terphenyl)	44.1		40	140
Fractionation 1 (2-bromonaphthalene)	86.8		40	140
Fractionation 2 (2-fluorobiphenyl)	70.8		40	140

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

Lab Info: G128-2261-4I	Lab Info: G128-2261-4I
Aliphatic: EP102008/029F1701.D	Aromatic: EP102008/030F1801.D

Reviewed By: 

EPH (Aliphatics/Aromatics) Laboratory Reporting FormClient Name: Richard Catlin & AssociatesProject Name: Building 1114 & HPFF

Sample Information	
Sample Identification	UST1114-DPT05 (2-4)
Sample Matrix	SOIL
Date Collected	10/15/08
Date Received	10/16/08
Date Extracted	10/17/08
Date Analyzed	10/21/08 04:31 - 10/21/08 05:00
Dry Weight	84.9
Dilution Factor	1 - 1
Initial weight (g)	12.56
Final Volume (mL)	10.0

Analytical Results			
Analytes**	Result mg/Kg	Report Limit mg/Kg	Flags
C9-C18 Aliphatics	BQL	10.0	
C19-C36 Aliphatics	BQL	10.0	
C11-C22 Aromatics	BQL	10.0	

Surrogates	Percent Recovery	Flags	Limits	
			Lower	Upper
Aliphatic (tricosane)	78.1		40	140
Aromatic (ortho-terphenyl)	86.1		40	140
Fractionation 1 (2-bromonaphthalene)	99.0		40	140
Fractionation 2 (2-fluorobiphenyl)	89.2		40	140

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

Lab Info: G128-2261-6L	Lab Info: G128-2261-6L
Aliphatic: EP102008/033F2101.D	Aromatic: EP102008/034F2201.D

Reviewed By: 

EPH (Aliphatics/Aromatics) Laboratory Reporting FormClient Name: Richard Catlin & AssociatesProject Name: Building 1114 & HPFF

Sample Information	
Sample Identification	UST1114-DPT06 (2-4)
Sample Matrix	SOIL
Date Collected	10/15/08
Date Received	10/16/08
Date Extracted	10/17/08
Date Analyzed	10/21/08 05:28 - 10/21/08 05:56
Dry Weight	82.5
Dilution Factor	1 - 1
Initial weight (g)	12.54
Final Volume (mL)	10.0

Analytical Results			
Analytes**	Result mg/Kg	Report Limit mg/Kg	Flags
C9-C18 Aliphatics	14.0	10.0	
C19-C36 Aliphatics	BQL	10.0	
C11-C22 Aromatics	17.4	10.0	

Surrogates	Percent Recovery	Flags	Limits	
			Lower	Upper
Aliphatic (tricosane)	96.1		40	140
Aromatic (ortho-terphenyl)	83.6		40	140
Fractionation 1 (2-bromonaphthalene)	87.7		40	140
Fractionation 2 (2-fluorobiphenyl)	78.7		40	140

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

Lab Info: G128-2261-7J	Lab Info: G128-2261-7J
Aliphatic: EP102008/035F2301.D	Aromatic: EP102008/036F2401.D

Reviewed By: 

EPH (Aliphatics/Aromatics) Laboratory Reporting FormClient Name: Richard Catlin & AssociatesProject Name: Building 1114 & HPFF

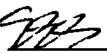
Sample Information	
Sample Identification	UST1114-DPT07 (2-4)
Sample Matrix	SOIL
Date Collected	10/15/08
Date Received	10/16/08
Date Extracted	10/17/08
Date Analyzed	10/21/08 06:24 - 10/21/08 06:52
Dry Weight	79.9
Dilution Factor	1 - 1
Initial weight (g)	12.04
Final Volume (mL)	10.0

Analytical Results			
Analytes**	Result mg/Kg	Report Limit mg/Kg	Flags
C9-C18 Aliphatics	BQL	10.0	
C19-C36 Aliphatics	BQL	10.0	
C11-C22 Aromatics	BQL	10.0	

Surrogates	Percent Recovery	Flags	Limits	
			Lower	Upper
Aliphatic (tricosane)	94.7		40	140
Aromatic (ortho-terphenyl)	91.1		40	140
Fractionation 1 (2-bromonaphthalene)	101		40	140
Fractionation 2 (2-fluorobiphenyl)	91.8		40	140

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

Lab Info: G128-2261-8J	Lab Info: G128-2261-8J
Aliphatic: EP102008/037F2501.D	Aromatic: EP102008/038F2601.D

Reviewed By: 

EPH (Aliphatics/Aromatics) Laboratory Reporting FormClient Name: Richard Catlin & AssociatesProject Name: Building 1114 & HPFF

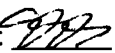
Sample Information	
Sample Identification	UST1114-DPT08 (2-4)
Sample Matrix	SOIL
Date Collected	10/15/08
Date Received	10/16/08
Date Extracted	10/17/08
Date Analyzed	10/21/08 07:20 - 10/21/08 07:48
Dry Weight	79.5
Dilution Factor	1 - 1
Initial weight (g)	13.73
Final Volume (mL)	10.0

Analytical Results			
Analytes**	Result mg/Kg	Report Limit mg/Kg	Flags
C9-C18 Aliphatics	BQL	10.0	
C19-C36 Aliphatics	BQL	10.0	
C11-C22 Aromatics	10.9	10.0	

Surrogates	Percent Recovery	Flags	Limits	
			Lower	Upper
Aliphatic (tricosane)	97.0		40	140
Aromatic (ortho-terphenyl)	93.7		40	140
Fractionation 1 (2-bromonaphthalene)	99.6		40	140
Fractionation 2 (2-fluorobiphenyl)	91.0		40	140

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

Lab Info: G128-2261-9K	Lab Info: G128-2261-9K
Aliphatic: EP102008/039F2701.D	Aromatic: EP102008/040F2801.D

Reviewed By: 

Attachment 3

EPH Laboratory Reporting Form

Calibration and QA/QC Information

Initial Calibration Date: 08/19/08

Calibration Ranges and Limits

Range	MDL		ML		RL	
	(02/15/08) (µg/L)	(02/11/08) (mg/Kg)	(µg/L)	(mg/Kg)	(µg/L)	(mg/Kg)
C9-C18 Aliphatics	1.66	0.274	5.28	0.871	100	10
C19-C36 Aliphatics	2.79	0.201	8.87	0.639	100	10
C11-C22 Aromatics	2.64	0.110	8.40	0.350	100	10

Calibration Concentration Levels

Range	Levels (µg/L)	Levels (mg/Kg)	%RSD if CF r if LR	Method of Quantitation
C ₉ -C ₁₈ Aliphatics	200	33.3	5.17	Calibration Factor
	100	16.7		
	50	8.33		
	25	4.17		
	5	0.833		
C ₁₉ -C ₃₆ Aliphatics	200	33.3	5.29	Calibration Factor
	100	16.7		
	50	8.33		
	25	4.17		
	5	0.833		
C ₁₁ -C ₂₂ Aromatics	200	33.3	3.29	Calibration Factor
	100	16.7		
	50	8.33		
	25	4.17		
	5	0.833		

Calibration Check Date: 10/20/08
10/20/08Filenames: ep102008/001f0101.d
ep102008/002f0201.d

Calibration Check

Range	Levels		%Difference if CF %Drift if LR	Limits
	(µg/L)	(mg/Kg)		
C9-C18 Aliphatics	100	16.7	8.2	≤±25%
C19-C36 Aliphatics	100	16.7	2.3	≤±25%
C11-C22 Aromatics	100	16.7	2.2	≤±25%

MDL = Method Detection Limit

ML = Minimum Limit

RL = Reportable Limit

RPD = Relative Percent Difference

%RSD = Percent Relative Standard Deviation

CCC = Correlation Coefficient of Curve

Attachment 3

EPH Laboratory Reporting Form

Calibration and QA/QC Information

Initial Calibration Date: 08/19/08

Calibration Ranges and Limits

Range	MDL		ML		RL	
	(02/15/08) (µg/L)	(02/11/08) (mg/Kg)	(µg/L)	(mg/Kg)	(µg/L)	(mg/Kg)
C9-C18 Aliphatics	1.66	0.274	5.28	0.871	100	10
C19-C36 Aliphatics	2.79	0.201	8.87	0.639	100	10
C11-C22 Aromatics	2.64	0.110	8.40	0.350	100	10

Calibration Concentration Levels

Range	Levels (µg/L)	Levels (mg/Kg)	%RSD if CF r if LR	Method of Quantitation
C ₉ -C ₁₈ Aliphatics	200	33.3	5.17	Calibration Factor
	100	16.7		
	50	8.33		
	25	4.17		
	5	0.833		
C ₁₉ -C ₃₆ Aliphatics	200	33.3	5.29	Calibration Factor
	100	16.7		
	50	8.33		
	25	4.17		
	5	0.833		
C ₁₁ -C ₂₂ Aromatics	200	33.3	3.29	Calibration Factor
	100	16.7		
	50	8.33		
	25	4.17		
	5	0.833		

Calibration Check Date: 10/20/08
10/21/08Filenames: ep102008/031f1901.d
ep102008/032f2001.d

Calibration Check

Range	Levels (µg/L)	Levels (mg/Kg)	%Difference if CF %Drift if LR	Limits
C9-C18 Aliphatics	100	16.7	18.7	≤±25%
C19-C36 Aliphatics	100	16.7	19.5	≤±25%
C11-C22 Aromatics	100	16.7	-24.2	≤±25%

MDL = Method Detection Limit

ML = Minimum Limit

RL = Reportable Limit

RPD = Relative Percent Difference

%RSD = Percent Relative Standard Deviation

CCC = Correlation Coefficient of Curve

Attachment 3

EPH Laboratory Reporting Form

Calibration and QA/QC Information

Initial Calibration Date: 08/19/08

Calibration Ranges and Limits

Range	MDL		ML		RL	
	(02/15/08) (µg/L)	(02/11/08) (mg/Kg)	(µg/L)	(mg/Kg)	(µg/L)	(mg/Kg)
C9-C18 Aliphatics	1.66	0.274	5.28	0.871	100	10
C19-C36 Aliphatics	2.79	0.201	8.87	0.639	100	10
C11-C22 Aromatics	2.64	0.110	8.40	0.350	100	10

Calibration Concentration Levels

Range	Levels (µg/L)	Levels (mg/Kg)	%RSD if CF r if LR	Method of Quantitation
C ₉ -C ₁₈ Aliphatics	200	33.3	5.17	Calibration Factor
	100	16.7		
	50	8.33		
	25	4.17		
	5	0.833		
C ₁₉ -C ₃₆ Aliphatics	200	33.3	5.29	Calibration Factor
	100	16.7		
	50	8.33		
	25	4.17		
	5	0.833		
C ₁₁ -C ₂₂ Aromatics	200	33.3	3.29	Calibration Factor
	100	16.7		
	50	8.33		
	25	4.17		
	5	0.833		

Calibration Check Date: 10/21/08
10/21/08Filenames: ep102108/001f0101.d
ep102108/002f0201.d

Calibration Check

Range	Levels		%Difference if CF %Drift if LR	Limits
	(µg/L)	(mg/Kg)		
C9-C18 Aliphatics	100	16.7	6.5	≤±25%
C19-C36 Aliphatics	100	16.7	7.3	≤±25%
C11-C22 Aromatics	100	16.7	7.2	≤±25%

MDL = Method Detection Limit

ML = Minimum Limit

RL = Reportable Limit

RPD = Relative Percent Difference

%RSD = Percent Relative Standard Deviation

CCC = Correlation Coefficient of Curve



Locations Nationwide

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

www.us.sgs.com

066780

SGS Reference: 6128-226		PAGE 1 OF 1		REMARKS	
No CONTAINERS	SAMPLE TYPE	Preservatives Used	NaBr	1	1
	C= COMP	Analysis Required	8260B + 19C + A+B6	1	1
	G= GRAB		8270C + TICs	1	1
			6010B Total Metals (Cr + Pb)	1	1
			MADER VPH	1	1
			MADER 6PH	1	1

SGS ENVIRONMENTAL SERVICES, INC.

Collected/Relinquished By: (1)	Date	Time	Received By:	Date	Time	Shipping Carrier:	Samples Received Cold? (Circle) YES NO
Tom Britt	10-16-08	07:45	[Signature]	10/16/08	0745	Shipping Ticket No:	Temperature (C): 38° C
Relinquished By: (2)	Date	Time	Received By:	Date	Time	Special Deliverable Requirements:	Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT
Relinquished By: (3)	Date	Time	Received By:	Date	Time	Special Instructions:	
Relinquished By: (4)	Date	Time	Received By:	Date	Time	Requested Turnaround Time:	☐ RUSH ☒ STD Date Needed: _____

□ 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