

June 14, 2007

Commanding Officer
I&E/EMD/EQB (Attn.: Mr. Andrew Smith)
PSC Box 20004
Marine Corps Base
Camp Lejeune, North Carolina 28542-0004

Re: FINAL – Annual Monitoring Report, AS-843
North Carolina Department of Environment and Natural Resources (NCDENR)
Incident #21272
Gauging and Groundwater Sampling Event, July 2006 – May 2007
Marine Corps Air Station New River, Jacksonville, North Carolina

Dear Mr. Smith:

Sovereign Consulting Inc. (Sovereign) is pleased to submit this monitoring report for gauging and sampling work performed at AS-843. Sovereign was authorized to perform this work by Naval Facilities Engineering Command Mid-Atlantic under Navy Contract N62470-04-D-0205, Task Order No. 0015. Gauging and sampling activities at the project site show groundwater contamination persists at low levels. This report presents the data collected during Sovereign's field activities for the current monitoring period - July 2006 through May 2007.

Background

The subject site, NCDENR Incident #21272, is located aboard Marine Corps Air Station (MCAS) New River in Jacksonville, North Carolina. The site is located in the central portion of the air station and functions as the airfield operations building. The site was identified in September 1992 as a result of tank removal actions. One 550-gallon diesel UST and one 1,000-gallon diesel UST were excavated and removed from the site. Various historical documents differ in reporting of the actual tank capacities. The removal report states that associated piping was either excavated or rendered unusable. The completed excavation measured approximately 14 feet by 14 feet and extended to a depth of approximately eight feet below land surface (BLS). Free product was observed during the removal action; therefore, soil samples were not submitted for laboratory analysis. It was uncertain from the report if the excavation was backfilled with clean soil or the native overburden.

A Three Well Site Check report was conducted at the site in June 1993. Three shallow, monitoring wells, MW-01, MW-02, and MW-03, were installed around the former USTs, outside the tank excavation. Analysis of vadose zone soil samples collected during installation of the wells indicated Total Petroleum Hydrocarbons (TPH) were not present at detectable concentrations. No measurable free product was observed in the wells. The only groundwater contaminants detected were naphthalene and bis (2-ethylhexyl) phthalate. The detections were above North Carolina Groundwater Quality Standards (NCGWQSs). An additional well was installed in the former tank basin in 1995 to determine if product was still present in the excavation area and to analyze groundwater for the previously identified contaminants. Diesel

observed; however, an oily sheen was noted in MW03 and MW04 during the July 2006 gauging event. Free product was also not present during the 2005-2006 monitoring period; however, an oily sheen was noted in MW04 in April 2006.

Sovereign conducted an annual groundwater sampling event on July 5-6, 2006. Groundwater samples were collected from monitoring wells MW01 through MW05, including a duplicate sample (from MW03) and a trip blank. During this sampling event, groundwater was collected using low-flow purging and sampling methods. Samples were collected after water quality indicator parameters (pH, temperature, conductivity, oxidation-reduction potential, dissolved oxygen and turbidity) were recorded and had stabilized. Groundwater was transferred from each well to the laboratory-prepared sample bottles via polyethylene discharge tubing. The samples were kept in an iced cooler and sent under chain of custody to SGS/Paradigm Analytical Laboratories Inc. (SGS) in Wilmington, North Carolina (NC Certification Number 481). At SGS, the samples were analyzed for volatile organic compounds (VOCs) using EPA Method 6210D, semivolatile organic compounds (SVOCs) per EPA Method 625 plus the 10 largest non-target peaks (TICs), and volatile and extractable petroleum hydrocarbons (VPH/EPH) using the MADEP Methods.

VOC Results – EPA Method 6210D

A total of thirteen VOCs were detected in the groundwater samples from the site. Those compounds included benzene, n-butylbenzene, sec-butylbenzene, tert-butylbenzene, cis-1,2-dichloroethene, ethylbenzene, isopropylbenzene, 4-isopropyltoluene, naphthalene, n-propylbenzene, toluene, 1,2,4-trimethylbenzene, and (total) xylenes. Of the 13 detected contaminants, only benzene, 4-isopropyltoluene, and naphthalene were detected above applicable NCGWQSSs. All detected compounds were below their gross contaminant levels (GCLs), where established. Table 2 summarizes the contaminants detected in each monitoring well along with the corresponding concentration.

Monitoring well MW01 did not contain any VOC concentrations above laboratory quantitation limits. The compound 4-isopropyltoluene (0.440J µg/L) was detected in monitoring well MW02. This compound does not have an established groundwater quality standard; therefore, any detection is considered reportable. Benzene, 4-isopropyltoluene, and naphthalene were detected in MW03 at concentrations of 1.17 µg/L, 0.390J µg/L, and 23.0 µg/L, respectively. These concentrations were above the NCGWQSSs as applicable. Monitoring well MW04 contained 4-isopropyltoluene at an estimated concentration of 0.400J µg/L. And finally, MW05 contained three contaminants (naphthalene, toluene, and 1,2,4-trimethylbenzene); however, the detected concentrations were not above 2L standards.

SVOC Results – EPA Method 625 plus 10 largest non-target peaks

Four SVOCs were detected during this sampling event – acenaphthene, fluorene, naphthalene, and phenanthrene. None of the detected concentrations, however, were above groundwater quality standards. Table 3 details the SVOCs detected at the site.

Monitoring well MW01 contained no contaminants above the laboratory quantitation limits. Acenaphthene was present in MW02 at a concentration of 2.00J µg/L as compared to the 2L standard of 80 µg/L. Groundwater from MW03 contained acenaphthene, fluorene, and naphthalene concentrations below NCGWQSSs. Note that naphthalene was not detected above standards as part of the SVOC analysis, whereas it was detected above 2L standards during the 6210D analysis. Monitoring well MW04 contained low concentrations of fluorene and

phenanthrene, and MW05 contained naphthalene. None of the MW04 or MW05 detected contaminants were above applicable NCGWQSs.

Each of the well samples at the site exhibited one or more tentatively identified compounds (TICs). TICs are substances not on the target compound list, and not all TICs are identified and quantitated using individual standards. All TIC quantitations are estimated. Most of the TICs were identified as unknown or isomer compounds, such as isomer of propenylbenzene, unknown aromatic, etc. One compound, 1-methylnaphthalene, was identified in MW03 with a match probability of 99% and a concentration of 16.5 µg/L. The duplicate verified this presence.

VPH/EPH Results – MADEP Methods

Tables 4 and 5 summarize the MADEP constituents found in the groundwater samples. Only C₉-C₁₈ Aliphatics and C₉-C₂₂ Aromatics were detected in groundwater at the site. Concentrations of C₉-C₁₈ Aliphatics were detected below the 2L standard of 4,200 µg/L in monitoring well MW03 and MW04. These two wells, however, contained C₉-C₂₂ Aromatics concentrations of <420 µg/L and <430 µg/L, respectively. These concentrations are above the NCGWQS of 210 µg/L.

Summary and Conclusions

Sovereign did not detect measurable free product at the AS-843 site during the 2006-2007 monitoring period. Including EEI and Sovereign data, there have been nine consecutive quarters without the presence of free product. An oily sheen, however, was noted in MW03 and MW04 during the July gauging event. In addition, groundwater contaminants were detected in monitoring wells MW02, MW03, and MW04 above NCGWQSs. As a result of the sheen and detected contamination, Sovereign recommends continuing gauging and sampling of wells USTAS843-MW01 through USTAS843-MW05 on a semi-annual and biennial basis, respectively. If you have further questions or need additional information, please feel free to contact us at your convenience.

Sincerely,

Sovereign Consulting Inc.



Nicole L. Hall, P.E.

Senior Engineer

Appendices: Tables 1-5, Figures 1-7, and historical data

Cc: Mr. David. T. Cleland, P.G. (NAVFAC)

Mr. Chris Murray (Sovereign)

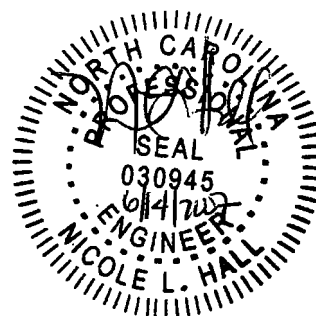


Table 1
Summary of Groundwater Elevation Data for 2006-2007
TOC Elevation taken from Sovereign Well Survey Database January 2007

Well ID	TOC Elevation (feet)	Groundwater Elevation (feet)		
		07/05/2006	10/03/2006	1/04/2007
USTAS843-MW01 (Shallow)	12.73	8.48	7.53	9.03
USTAS843-MW02 (Shallow)	13.20	9.10	8.70	9.30
USTAS843-MW03 (Shallow)	13.23	9.22	9.41	9.02
USTAS843-MW04 (Shallow)	13.03	11.05	10.61	11.23
USTAS843-MW05 (Deep)	12.96	7.85	7.06	8.26

TABLE 2
SUMMARY OF GROUNDWATER SAMPLING RESULTS
2006-2007
Incident Number and Name: 21272 and USTAS843
Analytical Method: EPA Method 6210D

Contaminant of Concern →			Benzene	n-Butylbenzene	Sec-Butylbenzene	Tert-Butylbenzene	Cis-1,2-Dichloroethene	Ethylbenzene	Isopropylbenzene	4-Isopropyltoluene	Naphthalene	n-Propyl benzene	Toluene	1,2,4-Trimethylbenzene	Total Xylenes	All Other Compounds
Well ID	Sample ID	Date Collected														
USTAS843-MW01	USTAS843-MW01	7/5/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
USTAS843-MW02	USTAS843-MW02	7/5/2006	0.160J	0.550	0.340J	BQL	1.88	BQL	BQL	0.440J	0.830	BQL	BQL	BQL	2.29	BQL
USTAS843-MW03	USTAS843-MW03	7/6/2006	1.17	1.08	2.98	0.490J	1.46	5.68	3.50	0.390J	23.0	2.90	BQL	0.840	0.180J	BQL
USTAS843-MW04	USTAS843-MW04	7/6/2006	BQL	0.870	1.36	BQL	BQL	BQL	1.39	0.400J	1.15	1.73	BQL	BQL	BQL	BQL
USTAS843-MW05	USTAS843-MW05	7/5/2006	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	12.9	BQL	0.220J	0.210J	BQL	BQL
Duplicate	Duplicate	7/6/2006	1.19	1.07	2.99	0.530	1.46	5.68	3.56	0.410J	22.4	2.95	BQL	0.830	0.170J	BQL
NCGWQS (µg/l)			1	70	70	70	70	550	70	NE	21	70	1,000	350	530	Varies
GCL (µg/l)			5,000	6,900	8,500	15,000	70,000	84,500	25,000	NE	15,500	30,000	257,500	25,000	87,500	Varies

- Duplicate sample from MW03 in July 2006.
- All results reported in µg/l; µg/L = micrograms per liter
- BQL = Below Quantitation Limits
- J = Estimated concentration.
- **BOLD** = Detected concentration.
- **BOLD and shaded** = detected concentration above applicable standard.

TABLE 3
SUMMARY OF GROUNDWATER SAMPLING RESULTS
2006-2007
Incident Number and Name: 21272 and USTAS843
Analytical Method: EPA Method 625 plus 10 largest TICS

Contaminant of Concern →			Acenaphthene	Fluorene	Naphthalene	Phenanthrene	TICS (Total)	All Other Compounds
Well ID	Sample ID	Date Collected						
USTAS843-MW01	USTAS843-MW01	7/5/2006	BQL	BQL	BQL	BQL	20.23	BQL
USTAS843-MW02	USTAS843-MW02	7/5/2006	2.00J	BQL	BQL	BQL	8.02	BQL
USTAS843-MW03	USTAS843-MW03	7/6/2006	4.10J	4.40J	12.3	BQL	121.95	BQL
USTAS843-MW04	USTAS843-MW04	7/6/2006	BQL	1.90J	BQL	2.10J	69.84	BQL
USTAS843-MW05	USTAS843-MW05	7/5/2006	BQL	BQL	9.50J	BQL	13.16	BQL
Duplicate	Duplicate	7/6/2006	3.80J	3.90J	11.1	BQL	113.72	BQL
NCGWQS (µg/l)			80	280	21	210	NE	Varies
GCL (µg/l)			2,120	950	15,500	410	NE	Varies

- Duplicate sample from MW03 in July 2006.
- All results reported in µg/l
- µg/L =micrograms per liter
- BQL = Below Quantitation Limits
- J = Estimated concentration.
- **BOLD** = Detected concentration.
- **BOLD** and shaded = detected concentration above applicable standard.

Table 4
SUMMARY OF GROUNDWATER SAMPLING RESULTS
 2006-2007

Incident Number and Name: 21272 and USTAS843

Analytical Method: MADEP METHOD VPH/EPH

Contaminant of Concern								
Well ID	Sample ID	Date Collected	C ₅ -C ₈ Aliphatics	C ₉ -C ₁₂ Aliphatics	C ₉ -C ₁₀ Aromatics	C ₉ -C ₁₈ Aliphatics	C ₁₉ -C ₃₆ Aliphatics	C ₁₁ -C ₂₂ Aromatics
USTAS843-MW01	USTAS843-MW01	7/5/2006	<100	<100	<100	<100	<100	<100
USTAS843-MW02	USTAS843-MW02	7/5/2006	<100	<100	<100	<100	<100	<100
USTAS843-MW03	USTAS843-MW03	7/6/2006	<100	<100	<100	380	<100	320
USTAS843-MW04	USTAS843-MW04	7/6/2006	<100	<100	<100	610	<100	330
USTAS843-MW05	USTAS843-MW05	7/5/2006	<100	<100	<100	<100	<100	<100
USTAS843-Duplicate	USTAS843-Duplicate	7/6/2006	<100	<100	<100	260	<100	310

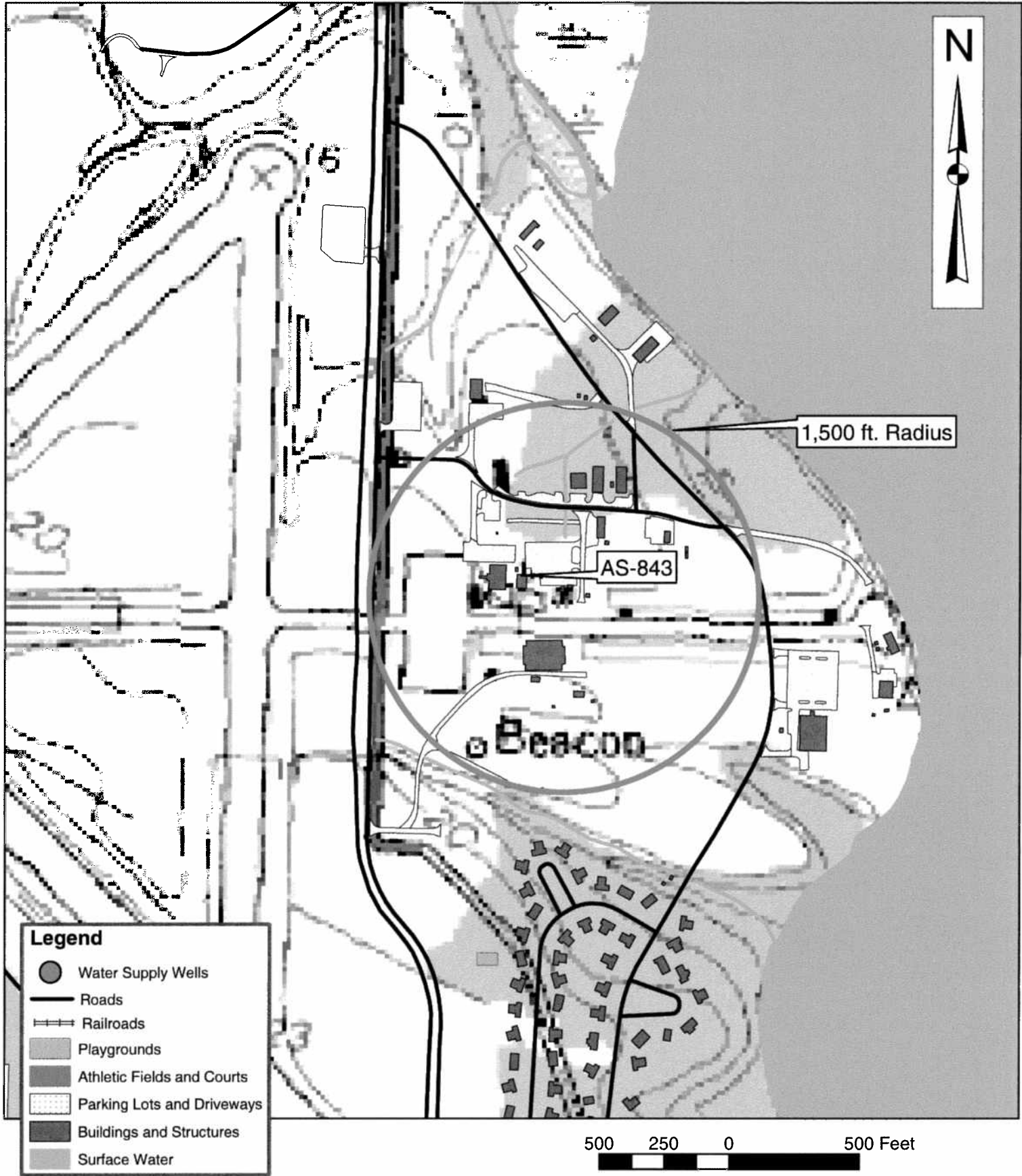
Table 5
SUMMARY OF GROUNDWATER SAMPLING RESULTS
 2006-2007

Incident Number and Name: 21272 and USTAS843

Analytical Method: MADEP METHOD VPH/EPH COMPARED TO 2L GWQS

Contaminant of Concern						
Well ID	Sample ID	Date Collected	C ₅ -C ₈ Aliphatics	C ₉ -C ₁₈ Aliphatics	C ₁₉ -C ₃₆ Aliphatics	C ₁₁ -C ₂₂ Aromatics
USTAS843-MW01	USTAS843-MW01	7/5/2006	<100	<200	<100	<200
USTAS843-MW02	USTAS843-MW02	7/5/2006	<100	<200	<100	<200
USTAS843-MW03	USTAS843-MW03	7/6/2006	<100	<480	<100	<420
USTAS843-MW04	USTAS843-MW04	7/6/2006	<100	<710	<100	<430
USTAS843-MW05	USTAS843-MW05	7/5/2006	<100	<200	<100	<200
USTAS843-Duplicate	USTAS843-Duplicate	7/6/2006	<100	<360	<100	<410
NCGWQS (µg/l)			420	4,200	42,000	210

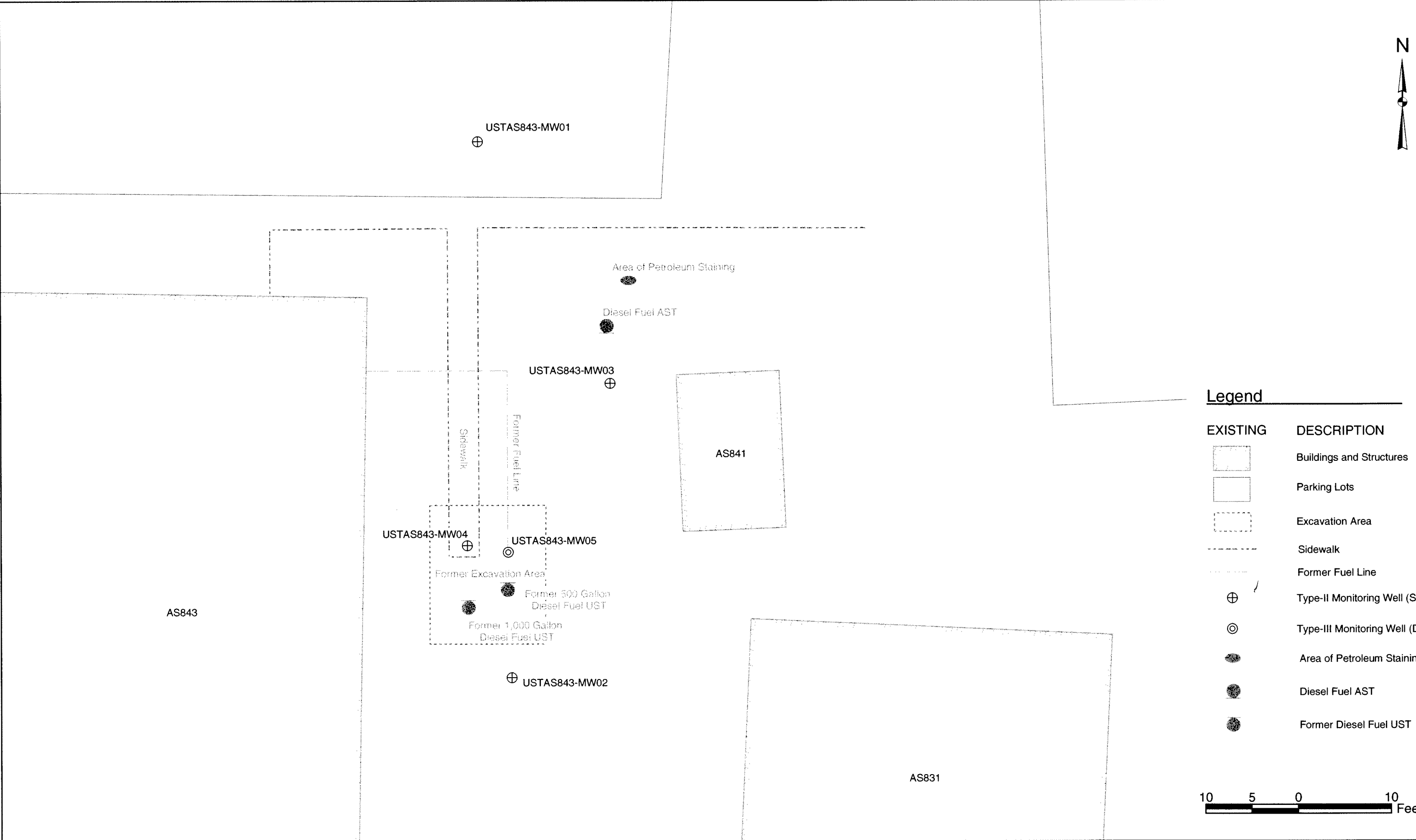
- Duplicate sample from MW03 in July 2006.
- All results reported in µg/l
- µg/L = micrograms per liter
- BQL = Below Quantitation Limits
- **BOLD** = Detected concentration.
- **BOLD and shaded** = detected concentration above applicable standard.



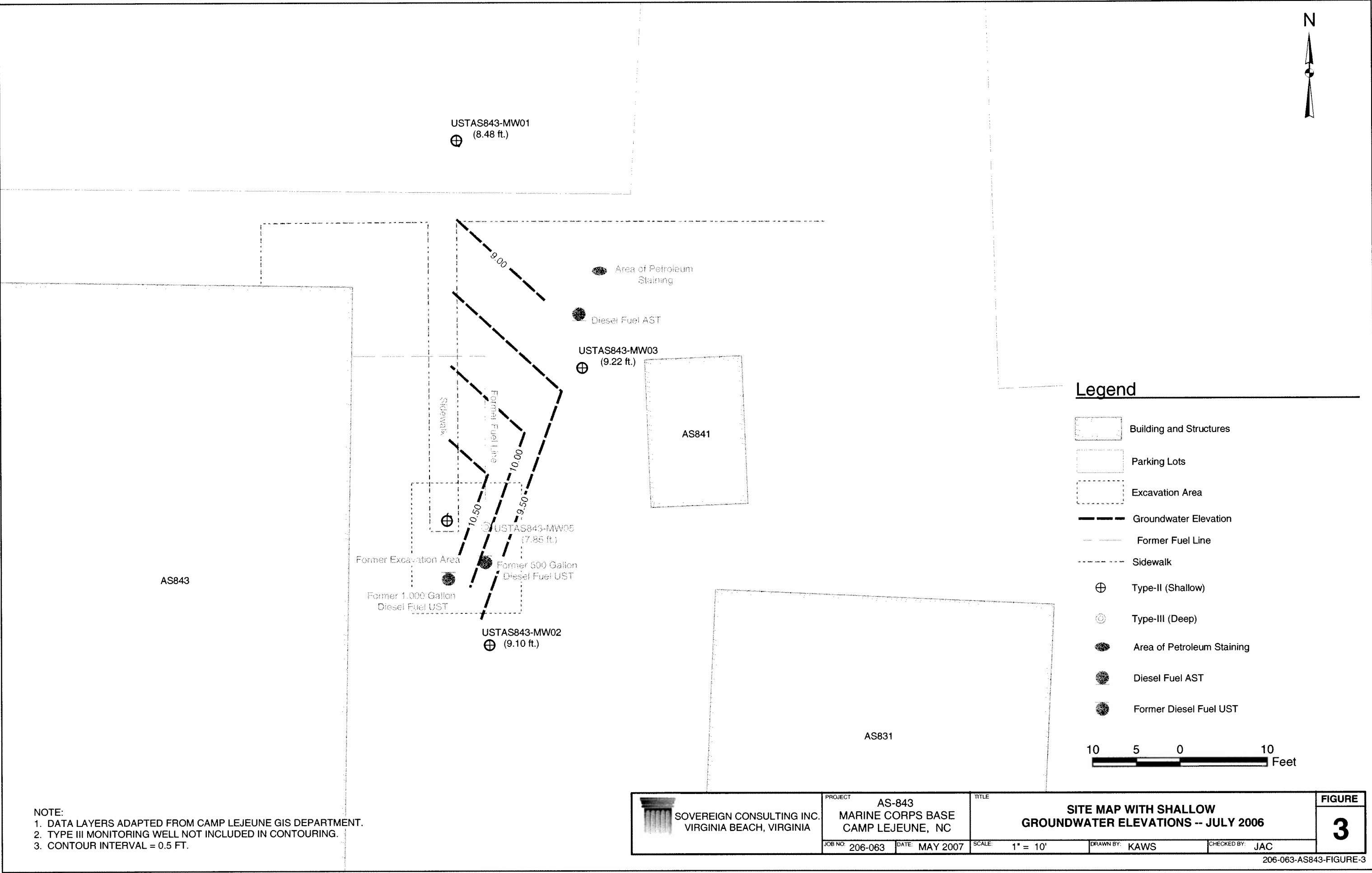
Data Sources: Data Layers provided by MCB Camp Lejeune GIS Office.

SCALE

 SOVEREIGN CONSULTING INC. VIRGINIA BEACH, VIRGINIA	PROJECT AS-843 MARINE CORPS BASE CAMP LEJEUNE, NC		TITLE GENERAL VICINITY TOPOGRAPHIC SITE MAP		FIGURE 1
	JOB NO. 206-063	DATE MAY 2007	SCALE AS SHOWN	DRAWN BY KAWS	CHECKED BY JAC

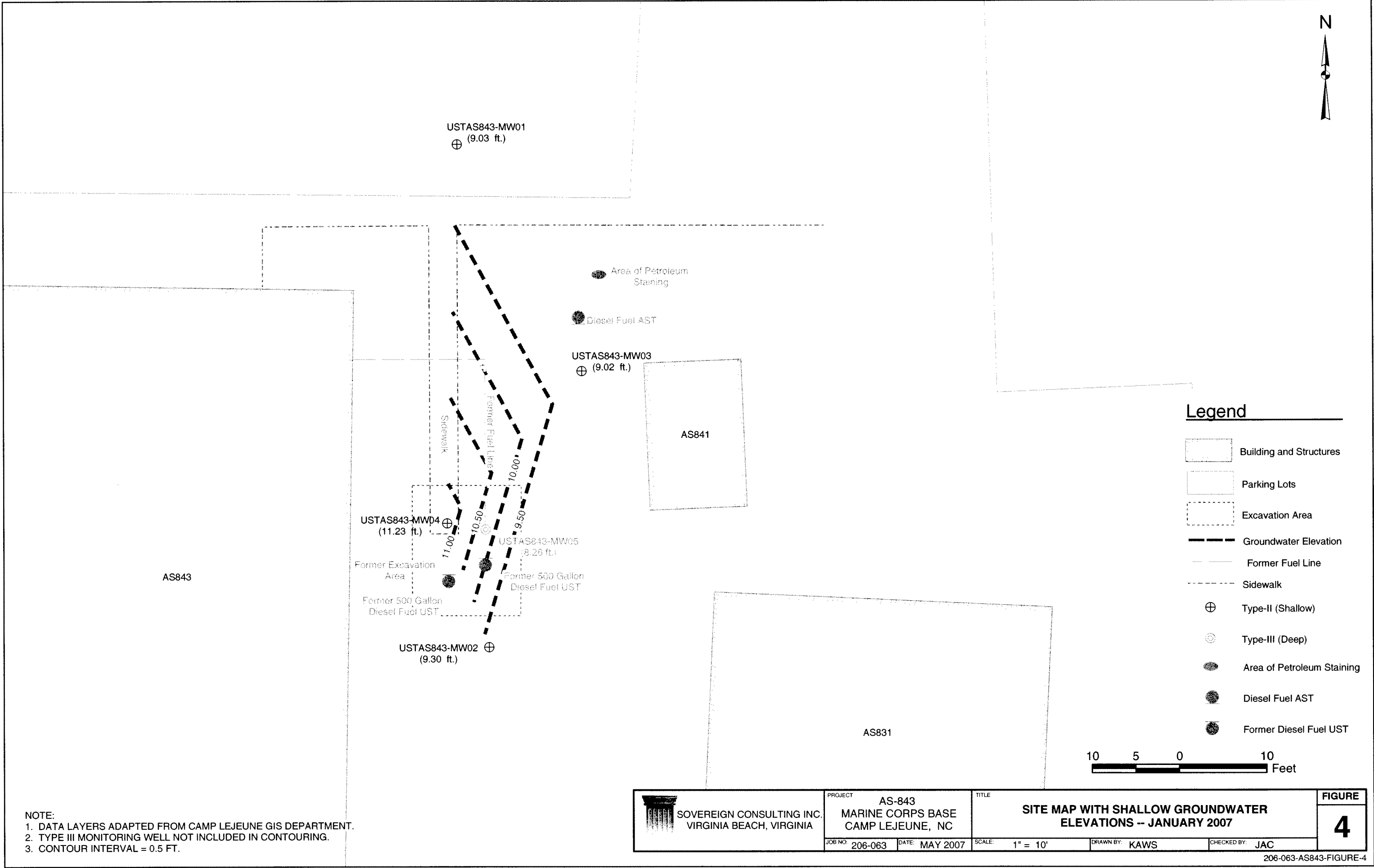


NOTE:
1. DATA LAYERS ADAPTED FROM CAMP LEJEUNE GIS DEPARTMENT.



NOTE:
1. DATA LAYERS ADAPTED FROM CAMP LEJEUNE GIS DEPARTMENT.
2. TYPE III MONITORING WELL NOT INCLUDED IN CONTOURING.
3. CONTOUR INTERVAL = 0.5 FT.

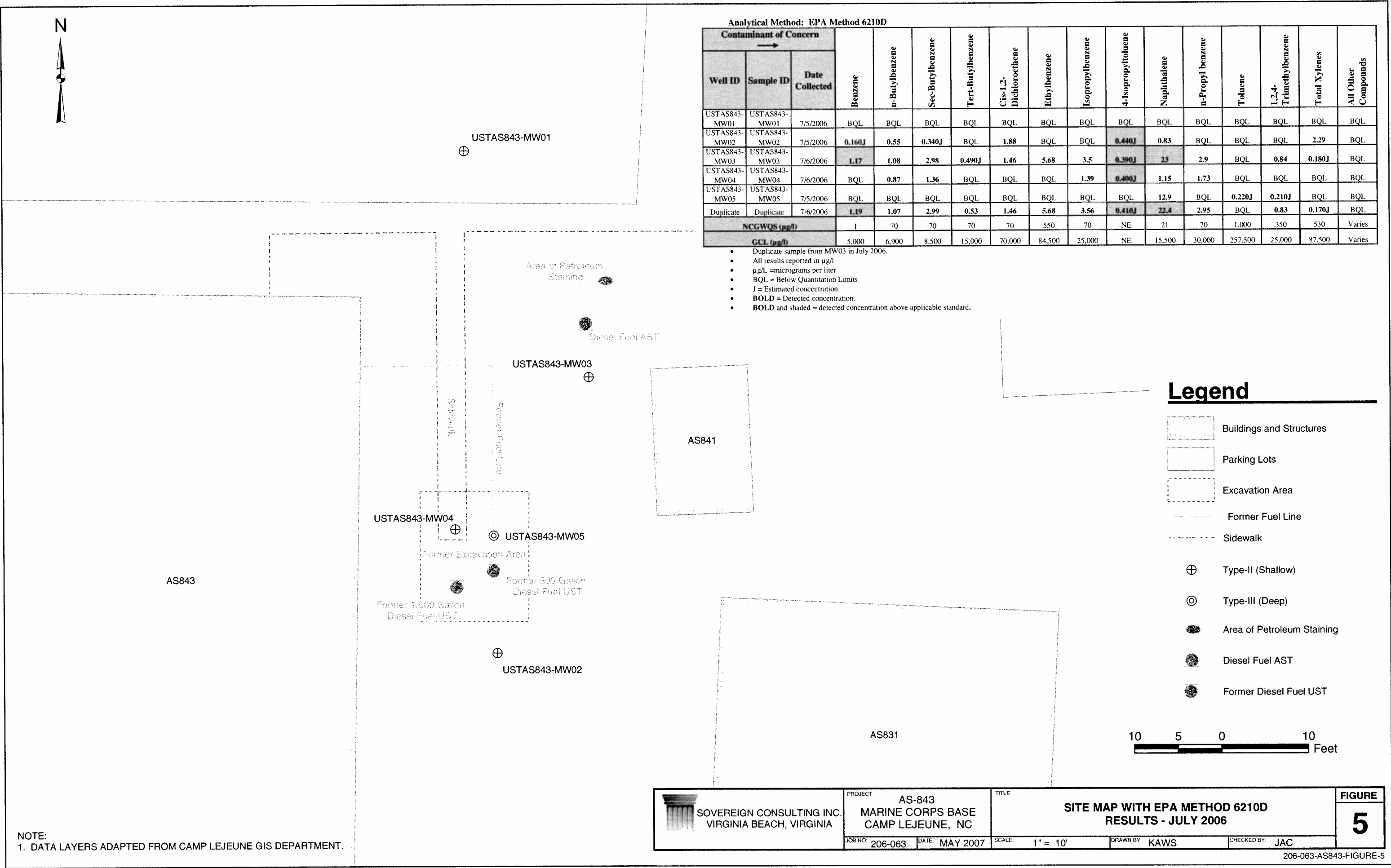
 SOVEREIGN CONSULTING INC. VIRGINIA BEACH, VIRGINIA	PROJECT AS-843 MARINE CORPS BASE CAMP LEJEUNE, NC		TITLE SITE MAP WITH SHALLOW GROUNDWATER ELEVATIONS -- JULY 2006			FIGURE 3
	JOB NO: 206-063	DATE: MAY 2007	SCALE: 1" = 10'	DRAWN BY: KAWS	CHECKED BY: JAC	



NOTE:
1. DATA LAYERS ADAPTED FROM CAMP LEJEUNE GIS DEPARTMENT.
2. TYPE III MONITORING WELL NOT INCLUDED IN CONTOURING.
3. CONTOUR INTERVAL = 0.5 FT.

 SOVEREIGN CONSULTING INC. VIRGINIA BEACH, VIRGINIA	PROJECT AS-843 MARINE CORPS BASE CAMP LEJEUNE, NC		TITLE SITE MAP WITH SHALLOW GROUNDWATER ELEVATIONS -- JANUARY 2007		FIGURE 4
	JOB NO. 206-063	DATE: MAY 2007	SCALE: 1" = 10'	DRAWN BY: KAWS	CHECKED BY: JAC

206-063-AS843-FIGURE-4



 SOVEREIGN CONSULTING INC. VIRGINIA BEACH, VIRGINIA	PROJECT: AS-843 MARINE CORPS BASE CAMP LEJEUNE, NC		TITLE: SITE MAP WITH EPA METHOD 6210D RESULTS - JULY 2006			FIGURE 5
	JOB NO: 206-063	DATE: MAY 2007	SCALE: 1" = 10'	DRAWN BY: KAWS	CHECKED BY: JAC	



USTAS843-MW01
⊕

Area of Petroleum
Staining

Diesel Fuel AST

USTAS843-MW03
⊕

Sidewalk

Former Fuel Line

USTAS843-MW04
⊕

USTAS843-MW05
⊙

Former Excavation Area

Former 500 Gallon
Diesel Fuel UST

Former 1,000 Gallon
Diesel Fuel UST

USTAS843-MW02 ⊕

AS841

AS831

Legend

- Buildings and Structures
- Parking Lots
- Excavation Area
- Former Fuel Line
- Sidewalk
- Type-II (Shallow)
- Type-III (Deep)
- Area of Petroleum Staining
- Diesel Fuel AST
- Former Diesel Fuel UST

10 5 0 10 Feet

Analytical Method: EPA Method 625 plus 10 largest TICs

Contaminant of Concern →			Acenaphthene	Fluorene	Naphthalene	Phenanthrene	TICS (Total)	All Other Compounds
Well ID	Sample ID	Date Collected						
USTAS843-MW01	USTAS843-MW01	7/5/2006	BQL	BQL	BQL	BQL	20.23	BQL
USTAS843-MW02	USTAS843-MW02	7/5/2006	2.00J	BQL	BQL	BQL	8.02	BQL
USTAS843-MW03	USTAS843-MW03	7/6/2006	4.10J	4.40J	12.3	BQL	121.95	BQL
USTAS843-MW04	USTAS843-MW04	7/6/2006	BQL	1.90J	BQL	2.10J	69.84	BQL
USTAS843-MW05	USTAS843-MW05	7/5/2006	BQL	BQL	9.50J	BQL	13.16	BQL
Duplicate	Duplicate	7/6/2006	3.80J	3.90J	11.1	BQL	113.72	BQL
NCGWQS (µg/l)			80	280	21	210	NE	Varies
GCL (µg/l)			2,120	950	15,500	410	NE	Varies

- All results reported in µg/l
- µg/L =micrograms per liter
- BQL = Below Quantitation Limits
- J = Estimated concentration.
- BOLD** = Detected concentration.

NOTE:
1. DATA LAYERS ADAPTED FROM CAMP LEJEUNE GIS DEPARTMENT.

 SOVEREIGN CONSULTING INC. VIRGINIA BEACH, VIRGINIA	PROJECT AS-843 MARINE CORPS BASE CAMP LEJEUNE, NC	TITLE SITE MAP WITH EPA METHOD 625 RESULTS - JULY 2006			FIGURE 6
	JOB NO: 206-063	DATE: MAY 2007	SCALE: 1" = 10'	DRAWN BY: KAWS	CHECKED BY: JAC

AS843
Historical Groundwater Analytical Data
Monitoring Well 01

		NCGWQS	GCL	Jul-93	Jan-98	Jul-98	Aug-99	Aug-05	Jul-06
EPA 601 / 602 (mg/L)	All Compounds	Varies	Varies	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	Benzene	1	5,000	<0.2	ND	ND	ND	<1.00	<0.500
	n-Butylbenzene	70	6,900	NR	NR	NR	NR	NA	<0.500
	sec-Butylbenzene	70	8,500	NR	NR	NR	NR	NA	<0.500
	tert-Butylbenzene	70	15,000	NR	NR	NR	NR	NR	<0.500
	cis-1, 2-Dichloroethene	70	70,000	NR	NR	NR	NR	<1.00	<0.500
	Ethylbenzene	29	29,000	<0.8	ND	ND	ND	<1.00	<0.500
	Isopropylbenzene	70	25,000	NR	NR	NR	NR	NA	<0.500
	4-Isopropyltoluene			NR	NR	NR	NR	NR	<0.500
	Naphthalene	21	15,500	NR	NR	NR	NR	NA	<0.500
	n-Propyl benzene	70	30,000	NR	NR	NR	NR	NA	<0.500
	Toluene	1,000	257,500	<0.5	ND	ND	ND	<1.00	<0.500
	1,2,4-Trimethylbenzene	350	28,500	NR	NR	NR	NR	NR	<0.500
	1,3,5-Trimethylbenzene	350	25,000	NR	NR	NR	NR	NA	<0.500
	Xylenes (total)	530	875,000	<1.7	ND	ND	ND	<4.00	<1.500
EPA 625 (mg/L)	Acenaphthene	80	2,120	NR	1.59	ND	ND	<10.0	<10.0
	Acenaphthylene	210	1,965	NR	NR	NR	NR	<10.0	<10.0
	Anthracene	2,100	2,100	NR	NR	NR	ND	<10.0	<10.0
	Benzo[a]anthracene	0.0479	22	NR	NR	NR	ND	<10.0	<10.0
	Benzo[k]fluoranthene	0.479	0.47	NR	NR	NR	ND	<10.0	<10.0
	Benzo[a]pyrene	0.00479	1.5	NR	NR	NR	ND	<10.0	<10.0
	Bis(2-ethylhexyl)phthalate	3	3,000	<12	NR	NR	NR	<10.0	<10.0
	Chrysene	4.79	5	NR	NR	NR	ND	<10.0	<10.0
	Fluoranthene	280	280	NR	NR	NR	ND	<10.0	<10.0
	Fluorene	280	950	NR	NR	NR	ND	<10.0	<10.0
	Naphthalene	21	15,500	<12	2.7	ND	ND	<10.0	<10.0
	Phenanthrene	210	410	NR	NR	NR	NR	<10.0	<10.0
	Pyrene	210	210	NR	NR	NR	ND	<10.0	<10.0
	TICs (Total)			NR	NR	NR	None	NA	20.23
VPH + EPH (mg/L)	C ₉ -C ₁₈ Aliphatics	4,200	NE	NA	NA	NA	ND	<200	<100
	C ₁₉ -C ₃₆ Aliphatics	42,000	NE	NA	NA	NA	ND	<100	<100
	C ₉ -C ₂₂ Aromatics	210	NE	NA	NA	NA	ND	<200	<100

Bold type indicates detectable concentrations

Bold and shaded indicates detectable concentrations above the GCL

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

NCGWQS - North Carolina Groundwater Quality Standard

GCL - Gross Contaminant Level

<# - not detected at the indicated reporting limit

mg/L - milligrams per liter

ug/L - micrograms per liter

NE - Not established

RL - the NCGWQS for the constituent is the reporting limit

ND - None detected (no summed constituents were detected) |

J - estimated concentration between minimum detection limit and reporting limit

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

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

E - estimated concentration above the linear quantitation range

B - compound detected in laboratory blank

NR - Not reported; compound not reported in source document summary table (either not analyzed or not detected)

None - TIC analysis conducted, no TICs detected

AS843
Historical Groundwater Analytical Data
Monitoring Well 02

		NCGWQS	GCL	Jul-93	Jan-98	Jul-98	Aug-99	Oct-00	Apr-01	May-02	Aug-05	Jul-06
EPA 601 / 602 (mg/L)	All Other Compounds	Varies	Varies	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	Benzene	1	5,000	<0.2	1.24	1.66	1.0	1.0	0.6	<0.5	<1.00	0.160
	n-Butylbenzene	70	6,900	NR	NR	NR	NR	NR	NR	<0.5	NA	0.550
	sec-Butylbenzene	70	8,500	NR	NR	NR	NR	0.8	ND	0.6	NA	0.340
	tert-Butylbenzene	70	15,000	NR	NR	NR	NR	NR	NR	NR	NR	<0.500
	cis-1, 2-Dichloroethene	70	70,000	NR	NR	NR	NR	2.0	2.0	0.8	<1.00	1.88
	Ethylbenzene	29	29,000	<0.8	ND	ND	1.0	ND	ND	<0.5	<1.00	<0.500
	Isopropylbenzene	70	25,000	NR	NR	NR	NR	ND	NR	<0.5	NA	<0.500
	4-Isopropyltoluene			NR	NR	NR	NR	NR	NR	NR	NR	0.440
	Naphthalene	21	15,500	NR	NR	NR	NR	0.5	0.7	<0.5	NA	0.830
	n-Propyl benzene	70	30,000	NR	NR	NR	NR	ND	NR	<0.5	NA	<0.500
	Toluene	1,000	257,500	<0.5	ND	ND	ND	ND	NR	NR	0.632 J	<0.500
	1,2,4-Trimethylbenzene	350	28,500	NR	NR	NR	NR	NR	NR	NR	NR	<0.500
	1,3,5-Trimethylbenzene	350	25,000	NR	NR	NR	NR	ND	NR	NR	NA	<0.500
	Xylenes (total)	530	875,000	<1.7	ND	ND	ND	ND	NR	NR	<4.00	<1.500
EPA 625 (mg/L)	Acenaphthene	80	2,120	NR	ND	ND	ND	ND	ND	NR	2.20 J	2.00
	Acenaphthylene	210	1,965	NR	NR	NR	NR	NR	NR	NR	<10.0	<10.0
	Anthracene	2,100	2,100	NR	NR	NR	ND	ND	ND	NR	<10.0	<10.0
	Benzo[a]anthracene	0.0479	22	NR	NR	NR	ND	ND	ND	NR	<10.0	<10.0
	Benzo[k]fluoranthene	0.479	0.47	NR	NR	NR	ND	ND	ND	NR	<10.0	<10.0
	Benzo[a]pyrene	0.00479	1.5	NR	NR	NR	ND	ND	ND	NR	<10.0	<10.0
	Bis(2-ethylhexyl)phthalate	3	3,000	1.2 JB	NR	NR	NR	NR	NR	NR	<10.0	<10.0
	Chrysene	4.79	5	NR	NR	NR	ND	ND	ND	NR	<10.0	<10.0
	Fluoranthene	280	280	NR	NR	NR	ND	NR	NR	NR	<10.0	<10.0
	Fluorene	280	950	NR	NR	NR	ND	ND	ND	NR	<10.0	<10.0
	Naphthalene	21	15,500	<10	6.64	ND	ND	ND	ND	<10	<10.0	<10.0
	Phenanthrene	210	410	NR	NR	NR	NR	ND	ND	NR	<10.0	<10.0
	Pyrene	210	210	NR	NR	NR	ND	ND	ND	NR	<10.0	<10.0
	TICs (Total)			NR	NR	NR	93 J	10.8 J	10.9 J	None	NA	8.02
VPH + EPH (mg/L)	C ₉ -C ₁₈ Aliphatics	4,200	NE	NA	NA	NA	28	120	ND	<100	<200	<100
	C ₁₉ -C ₃₆ Aliphatics	42,000	NE	NA	NA	NA	ND	ND	ND	<100	<100	<100
	C ₉ -C ₂₂ Aromatics	210	NE	NA	NA	NA	25	120	290	<100	<200	<100

Bold type indicates detectable concentrations

Bold and highlighted indicates detectable concentrations above the GCL

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

NCGWQS - North Carolina Groundwater Quality Standard

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ND - None detected (no summed constituents were detected)

J - estimated concentration between minimum detection limit and reporting limit

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

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

E - estimated concentration above the linear quantitation range

B - compound detected in laboratory blank

NR - Not reported; compound not reported in source document summary table (either not analyzed or not detected)

None - TIC analysis conducted, no TICs detected

AS843
Historical Groundwater Analytical Data
Monitoring Well 03

		NCGWQS	GCL	Jul-93	Duplicate	Aug-99	Apr-01	May-02	Aug-05	Jul-06	Duplicate
EPA 601 / 602 (mg/L)	All Other Compounds	Varies	Varies	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	Benzene	1	5,000	<0.2	NA	ND	3	<0.5	1.09	1.17	1.19
	n-Butylbenzene	70	6,900	NR	NA	NR	0.8	<0.5	NA	1.08	1.07
	sec-Butylbenzene	70	8,500	NR	NR	NR	0.7	0.5	NA	2.98	2.99
	tert-Butylbenzene	70	15,000	NR	NR	NR	NR	NR	NR	0.490	0.530
	cis-1, 2-Dichloroethene	70	70,000	NR	NR	NR	3	<0.5	<1.00	1.46	1.46
	Ethylbenzene	29	29,000	1.0	NA	ND	9	<0.5	3.69	5.68	5.68
	Isopropylbenzene	70	25,000	NR	NR	NR	3	<0.5	NA	3.50	3.56
	4-Isopropyltoluene			NR	NR	NR	NR	NR	NR	0.390	0.410
	Naphthalene	21	15,500	NR	NR	NR	10	0.9	NA	23.0	22.4
	n-Propyl benzene	70	30,000	NR	NR	NR	2	<0.5	NA	2.90	2.95
	Toluene	1,000	257,500	0.7	NA	ND	NR	NR	0.729 J	<0.500	<0.500
	1,2,4-Trimethylbenzene	350	28,500	NR	NR	NR	NR	NR	NR	0.840	0.830
	1,3,5-Trimethylbenzene	350	25,000	NR	NR	NR	3	NR	NA	<0.500	0.170
	Xylenes (total)	530	875,000	<1.7	NA	ND	7	NR	0.647 J	0.180	<1.500
EPA 625 (mg/L)	Acenaphthene	80	2,120	NR	NR	19	16	NR	5.60 J	4.10	3.80
	Acenaphthylene	210	1,965	NR	NR	NR	NR	NR	<10.0	<10.0	<10.0
	Anthracene	2,100	2,100	NR	NR	23	10	NR	<10.0	<10.0	<10.0
	Benzo[a]anthracene	0.0479	22	NR	NR	15	13	NR	<10.0	<10.0	<10.0
	Benzo[k]fluoranthene	0.479	0.47	NR	NR	10	NR	NR	<10.0	<10.0	<10.0
	Benzo[a]pyrene	0.00479	1.5	NR	NR	11	NR	NR	<10.0	<10.0	<10.0
	Bis(2-ethylhexyl)phthalate	3	3,000	1.3 J	280 B	NR	NR	NR	<10.0	<10.0	<10.0
	Chrysene	4.79	5	NR	NR	17	14	NR	<10.0	<10.0	<10.0
	Fluoranthene	280	280	NR	NR	71	35	NR	<10.0	<10.0	<10.0
	Fluorene	280	950	NR	NR	37	26	NR	5.30 J	4.40	3.90
	Naphthalene	21	15,500	16	17 J	ND	15	<10	12.7	12.3	11.1
	Phenanthrene	210	410	NR	NR	NR	15	NR	<10.0	<10.0	<10.0
	Pyrene	210	210	NR	NR	44	34	NR	<10.0	<10.0	<10.0
	TICs (Total)			NR	NR	1077 J	1444 J	885 J	NA	121.95	113.72
VPH + EPH (mg/L)	C ₉ -C ₁₈ Aliphatics	4,200	NE	NA	NA	140033	3530	750	920	380	260
	C ₁₉ -C ₃₆ Aliphatics	42,000	NE	NA	NA	45000	1300	250	130	<100	<100
	C ₉ -C ₂₂ Aromatics	210	NE	NA	NA	6828	1500	530	190	320	310

Bold type indicates detectable concentrations

Bold and highlighted indicates detectable concentrations above the GCL

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

NCGWQS - North Carolina Groundwater Quality Standard

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RL - the NCGWQS for the constituent is the reporting limit

ND - None detected (no summed constituents were detected) |

J - estimated concentration between minimum detection limit and reporting limit

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

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

E - estimated concentration above the linear quantitation range

B - compound detected in laboratory blank

NR - Not reported; compound not reported in source document summary table (either not analyzed or not detected)

None - TIC analysis conducted, no TICs detected

AS843
Historical Groundwater Analytical Data
Monitoring Well 04

		NCGWQS	GCL	Jul-95	Aug-99	Oct-00	Apr-01	May-02	Aug-05	Duplicate	Jul-06
EPA 601 / 602 (mg/L)	All Other Compounds	Varies	Varies	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
	Benzene	1	5,000	11	ND	0.8	ND	0.7	<1.00	<1.00	<0.500
	n-Butylbenzene	70	6,900	NR	NR	NR	ND	0.9	NA	NA	0.870
	sec-Butylbenzene	70	8,500	NR	NR	0.7	ND	1.0	NA	NA	1.36
	tert-Butylbenzene	70	15,000	NR	NR	NR	NR	NR	NR	NR	<0.500
	cis-1, 2-Dichloroethene	70	70,000	NR	NR	ND	ND	<0.5	<1.00	<1.00	<0.500
	Ethylbenzene	29	29,000	27	ND	2	1	0.7	<1.00	<1.00	<0.500
	Isopropylbenzene	70	25,000	NR	NR	1	0.7	2.0	NA	NA	1.39
	4-Isopropyltoluene			NR	NR	NR	NR	NR	NR	NR	0.400
	Naphthalene	21	15,500	NR	NR	1	2	4.0	NA	NA	1.15
	n-Propyl benzene	70	30,000	NR	NR	0.7	0.7	0.9	NA	NA	1.73
	Toluene	1,000	257,500	1	ND	ND	NR	NR	0.491 J	0.485 J	1.85
	1,2,4-Trimethylbenzene	350	28,500	NR	NR	NR	NR	NR	NR	NR	<0.500
	1,3,5-Trimethylbenzene	350	25,000	NR	NR	ND	0.7	NR	NA	NA	<0.500
	Xylenes (total)	530	875,000	81	ND	ND	ND	NR	<4.00	<4.00	<1.500
EPA 625 (mg/L)	Acenaphthene	80	2,120	NR	ND	ND	ND	NR	4.80 J	5.80 J	4.40
	Acenaphthylene	210	1,965	NR	NR	NR	NR	NR	<10.0	1.20 J	<10.0
	Anthracene	2,100	2,100	NR	ND	ND	ND	NR	<10.0	<10.0	<10.0
	Benzo[a]anthracene	0.0479	22	NR	ND	NR	ND	NR	<10.0	<10.0	<10.0
	Benzo[k]fluoranthene	0.479	0.47	NR	ND	NR	NR	NR	<10.0	<10.0	<10.0
	Benzo[a]pyrene	0.00479	1.5	NR	ND	NR	NR	NR	<10.0	<10.0	<10.0
	Bis(2-ethylhexyl)phthalate	3	3,000	NR	NR	NR	NR	NR	<10.0	<10.0	<10.0
	Chrysene	4.79	5	NR	ND	ND	ND	NR	<10.0	<10.0	<10.0
	Fluoranthene	280	280	NR	ND	NR	ND	NR	<10.0	<10.0	<10.0
	Fluorene	280	950	11	ND	ND	ND	NR	5.10 J	6.00 J	1.90
	Naphthalene	21	15,500	87	ND	ND	ND	<10	1.30 J	1.30 J	<10.0
	Phenanthrene	210	410	NR	NR	ND	ND	NR	4.30 J	7.40 J	2.1
	Pyrene	210	210	NR	ND	ND	ND	NR	<10.0	<10.0	<10.0
	TICs (Total)			503 J	73 J	None	103 J	122.3 J	NA	NA	69.84
VPH + EPH (mg/L)	C ₉ -C ₁₈ Aliphatics	4,200	NE	NA	3278	120	160	1000	1150	730	610
	C ₁₉ -C ₃₆ Aliphatics	42,000	NE	NA	ND	ND	ND	460	210	120	<100
	C ₉ -C ₂₂ Aromatics	210	NE	NA	1954	190	340	1000	300	280	330

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ND - None detected (no summed constituents were detected)

J - estimated concentration between minimum detection limit and reporting limit

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

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

E - estimated concentration above the linear quantitation range

B - compound detected in laboratory blank

NR - Not reported; compound not reported in source document summary table (either not analyzed or not detected)

None - TIC analysis conducted, no TICs detected

AS843
Historical Groundwater Analytical Data
Monitoring Well 05

		NCGWQS	GCL	Oct-00	Apr-01	May-02	Aug-05	Jul-06
EPA 601 / 602 (mg/L)	All Other Compounds	Varies	Varies	<0.500	<0.500	<0.500	<0.500	<0.500
	Benzene	1	5,000	ND	NR	<2	<1.00	<0.500
	n-Butylbenzene	70	6,900	NR	NR	<2	NA	<0.500
	sec-Butylbenzene	70	8,500	ND	NR	<2	NA	<0.500
	tert-Butylbenzene	70	15,000	NR	NR	NR	NR	<0.500
	cis-1, 2-Dichloroethene	70	70,000	ND	NR	<2	<1.00	<0.500
	Ethylbenzene	29	29,000	ND	NR	<2	0.322 J	<0.500
	Isopropylbenzene	70	25,000	ND	NR	<2	NA	<0.500
	4-Isopropyltoluene			NR	NR	NR	NR	<0.500
	Naphthalene	21	15,500	32	23	97	NA	12.9
	n-Propyl benzene	70	30,000	ND	NR	<2	NA	<0.500
	Toluene	1,000	257,500	NR	NR	NR	0.679 J	0.220
	1,2,4-Trimethylbenzene	350	28,500	NR	NR	NR	NR	0.210
	1,3,5-Trimethylbenzene	350	25,000	NR	NR	NR	NA	<0.500
	Xylenes (total)	530	875,000	NR	NR	NR	0.927 J	<1.500
EPA 825 (mg/L)	Acenaphthene	80	2,120	ND	NR	NR	1.90 J	<10.0
	Acenaphthylene	210	1,965	NR	NR	NR	<10.0	<10.0
	Anthracene	2,100	2,100	ND	NR	NR	<10.0	<10.0
	Benzo[a]anthracene	0.0479	22	NR	NR	NR	<10.0	<10.0
	Benzo[k]fluoranthene	0.479	0.47	NR	NR	NR	<10.0	<10.0
	Benzo[a]pyrene	0.00479	1.5	NR	NR	NR	<10.0	<10.0
	Bis(2-ethylhexyl)phthalate	3	3,000	NR	NR	NR	<10.0	<10.0
	Chrysene	4.79	5	ND	NR	NR	<10.0	<10.0
	Fluoranthene	280	280	NR	NR	NR	<10.0	<10.0
	Fluorene	280	950	ND	NR	NR	<10.0	<10.0
	Naphthalene	21	15,500	29	24	54	23.8	9.5
	Phenanthrene	210	410	ND	NR	NR	<10.0	<10.0
	Pyrene	210	210	ND	NR	NR	<10.0	<10.0
	TICs (Total)			92 J	53 J	537.2	NA	13.16
VPH + EPH (mg/L)	C ₉ -C ₁₈ Aliphatics	4,200	NE	ND	ND	<100	<200	<100
	C ₁₉ -C ₃₆ Aliphatics	42,000	NE	ND	ND	<100	<100	<100
	C ₉ -C ₂₂ Aromatics	210	NE	ND	ND	<100	<200	<100

Bold type indicates detectable concentrations

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E - estimated concentration above the linear quantitation range

B - compound detected in laboratory blank

NR - Not reported; compound not reported in source document summary table (either not analyzed or not detected)

None - TIC analysis conducted, no TICs detected

AS843
Analytical Data for July 2006 Groundwater Sampling Event

Parameter	NCGWQS	GCL	MW-01	MW-02	MW-03	MW-04	MW-05	Duplicate
VOCs by EPA Method 6240D (µg/L)								
All Compounds	Varies	Varies	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Benzene	1	5,000	<0.500	0.160	1.17	<0.500	<0.500	1.19
n-Butylbenzene	70	6,900	<0.500	0.550	1.08	0.870	<0.500	1.07
sec-Butylbenzene	70	8,500	<0.500	0.340	2.98	1.36	<0.500	2.99
tert-Butylbenzene	70	15,000	<0.500	<0.500	0.490	<0.500	<0.500	0.530
cis-1, 2-Dichloroethene	70	70,000	<0.500	1.88	1.46	<0.500	<0.500	1.46
Ethylbenzene	29	29,000	<0.500	<0.500	5.68	<0.500	<0.500	5.68
Isopropylbenzene	70	25,000	<0.500	<0.500	3.50	1.39	<0.500	3.56
4-Isopropyltoluene			<0.500	0.440	0.390	0.400	<0.500	0.410
Naphthalene	21	15,500	<0.500	0.830	23.0	1.15	12.9	22.4
n-Propyl benzene	70	30,000	<0.500	<0.500	2.90	1.73	<0.500	2.95
Toluene	1,000	257,500	<0.500	<0.500	<0.500	1.85	0.220	<0.500
1,2,4-Trimethylbenzene	350	28,500	<0.500	<0.500	0.840	<0.500	0.210	0.830
o-Xylene			<0.500	<0.500	0.180	<0.500	<0.500	0.170
<i>Xylenes (total)</i>	530	87,500	<1.500	<1.500	0.180	<1.500	<1.500	<1.500
SVOs by EPA Method 625 (µg/L)								
Acenaphthene	80	2120	<10.0	2.00	4.10	4.40	<10.0	3.80
Flourene	280	950	<10.0	<10.0	4.40	1.90	<10.0	3.90
Naphthalene	21	15,500	<10.0	<10.0	12.3	<10.0	9.5	11.1
Phenanthrene	210	410	<10.0	<10.0	<10.0	2.1	<10.0	<10.0
TICs (total)			20.23	8.02	121.95	69.84	13.16	113.72
All other Compounds	Varies	Varies	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
VPH (µg/L)								
C5 - C8 Aliphatics	420	NE	<100	<100	<100	<100	<100	<100
C9 - C12 Aliphatics			<100	<100	<100	<100	<100	<100
C9 - C10 Aromatics			<100	<100	<100	<100	<100	<100
EPH (µg/L)								
C11 - C22 Aromatics			<100	<100	320	330	<100	310
C9 - C18 Aliphatics			<100	<100	380	610	<100	260
C19 - C36 Aliphatics	42,000	NE	<100	<100	<100	<100	<100	<100
VPH + EPH (µg/L)								
C9 - C12 + C9 - C18 Aliphatics	4,200	NE	<100	<100	380	610	<100	260
C9 - C10 + C11 - C22 Aromatics	210	NE	<100	<100	320	330	<100	310

Bold type indicates detectable contaminant concentration.

Bold and shaded indicates detectable contaminant concentration above NCGWQS.

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Mr. Chris Murray
Sovereign Consulting
606 Thimble Shoals Rd.
Suite A1
Newport-News VA 23606
Report Number: G650-66
Client Project: CTO 0015

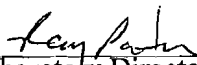
Dear Mr. Murray:

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

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

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

Sincerely,
SGS/Paradigm Analytical Laboratories, Inc.


Laboratory Director
J. Patrick Weaver

7/25/2006
Date



**Results for Volatiles
by GCMS 6210D**

Client Sample ID: USTAS843-MW01
Client Project ID: CTO 0015
Lab Sample ID: G650-66-1A
Lab Project ID: G650-66

Analyzed By: MJC
Date Collected: 7/5/2006 13:20
Date Received: 7/7/2006
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Benzene	BQL	0.500	0.152	1	7/14/2006	
Bromobenzene	BQL	0.500	0.199	1	7/14/2006	
Bromochloromethane	BQL	0.500	0.312	1	7/14/2006	
Bromodichloromethane	BQL	0.500	0.195	1	7/14/2006	
Bromoform	BQL	0.500	0.116	1	7/14/2006	
Bromomethane	BQL	0.500	0.398	1	7/14/2006	
n-Butylbenzene	BQL	0.500	0.262	1	7/14/2006	
sec-Butylbenzene	BQL	0.500	0.234	1	7/14/2006	
tert-Butylbenzene	BQL	0.500	0.181	1	7/14/2006	
Carbon tetrachloride	BQL	0.500	0.150	1	7/14/2006	
Chlorobenzene	BQL	0.500	0.178	1	7/14/2006	
Chloroethane	BQL	0.500	0.373	1	7/14/2006	
Chloroform	BQL	0.500	0.195	1	7/14/2006	
Chloromethane	BQL	0.500	0.457	1	7/14/2006	
2-Chlorotoluene	BQL	0.500	0.204	1	7/14/2006	
4-Chlorotoluene	BQL	0.500	0.198	1	7/14/2006	
Dibromochloromethane	BQL	0.500	0.198	1	7/14/2006	
1,2-Dibromo-3-chloropropane	BQL	5.00	1.89	1	7/14/2006	
Dibromomethane	BQL	0.500	0.276	1	7/14/2006	
1,2-Dibromoethane (EDB)	BQL	0.500	0.269	1	7/14/2006	
1,2-Dichlorobenzene	BQL	0.500	0.187	1	7/14/2006	
1,3-Dichlorobenzene	BQL	0.500	0.242	1	7/14/2006	
1,4-Dichlorobenzene	BQL	0.500	0.177	1	7/14/2006	
1,1-Dichloroethane	BQL	0.500	0.201	1	7/14/2006	
1,1-Dichloroethene	BQL	0.500	0.159	1	7/14/2006	
1,2-Dichloroethane	BQL	0.500	0.223	1	7/14/2006	
cis-1,2-Dichloroethene	BQL	0.500	0.161	1	7/14/2006	
trans-1,2-dichloroethene	BQL	0.500	0.230	1	7/14/2006	
1,2-Dichloropropane	BQL	0.500	0.132	1	7/14/2006	
1,3-Dichloropropane	BQL	0.500	0.163	1	7/14/2006	
2,2-Dichloropropane	BQL	0.500	0.263	1	7/14/2006	
1,1-Dichloropropene	BQL	0.500	0.176	1	7/14/2006	
Dichlorodifluoromethane	BQL	5.00	0.459	1	7/14/2006	
Diisopropyl ether (DIPE)	BQL	0.500	0.204	1	7/14/2006	
Ethylbenzene	BQL	0.500	0.183	1	7/14/2006	
Hexachlorobutadiene	BQL	0.500	0.406	1	7/14/2006	
Isopropylbenzene	BQL	0.500	0.163	1	7/14/2006	
4-Isopropyltoluene	BQL	0.500	0.203	1	7/14/2006	
Methylene chloride	BQL	5.00	0.176	1	7/14/2006	
Methyl-tert-butyl ether (MTBE)	BQL	0.500	0.201	1	7/14/2006	
Naphthalene	BQL	0.500	0.259	1	7/14/2006	
n-Propyl benzene	BQL	0.500	0.203	1	7/14/2006	



Results for Volatiles
by GCMS 6210D

Client Sample ID: USTAS843-MW01
Client Project ID: CTO 0015
Lab Sample ID: G650-66-1A
Lab Project ID: G650-66

Analyzed By: MJC
Date Collected: 7/5/2006 13:20
Date Received: 7/7/2006
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Styrene	BQL	0.500	0.235	1	7/14/2006	
1,1,1,2-Tetrachloroethane	BQL	0.500	0.298	1	7/14/2006	
1,1,2,2-Tetrachloroethane	BQL	0.500	0.217	1	7/14/2006	
Tetrachloroethene	BQL	0.500	0.219	1	7/14/2006	
Toluene	BQL	0.500	0.154	1	7/14/2006	
1,2,3-Trichlorobenzene	BQL	0.500	0.206	1	7/14/2006	
1,2,4-Trichlorobenzene	BQL	0.500	0.271	1	7/14/2006	
Trichloroethene	BQL	0.500	0.201	1	7/14/2006	
1,1,1-Trichloroethane	BQL	0.500	0.168	1	7/14/2006	
1,1,2-Trichloroethane	BQL	0.500	0.231	1	7/14/2006	
Trichlorofluoromethane	BQL	0.500	0.481	1	7/14/2006	
1,2,3-Trichloropropane	BQL	0.500	0.214	1	7/14/2006	
1,2,4-Trimethylbenzene	BQL	0.500	0.205	1	7/14/2006	
1,3,5-Trimethylbenzene	BQL	0.500	0.179	1	7/14/2006	
Vinyl chloride	BQL	0.500	0.464	1	7/14/2006	
m-,p-Xylene	BQL	1.00	0.388	1	7/14/2006	
o-Xylene	BQL	0.500	0.156	1	7/14/2006	
		Spike Added	Spike Result	Percent Recovered		
4-Bromofluorobenzene		10	10	100		
1,2-Dichloroethane-d4		10	10.2	102		
Toluene-d8		10	9.92	99		

Comments:

Flags:

BQL = Below Quantitation Limits.

Reviewed By:



Results for Volatiles
by GCMS 6210D

Client Sample ID: USTAS843-MW02
Client Project ID: CTO 0015
Lab Sample ID: G650-66-2A
Lab Project ID: G650-66

Analyzed By: MJC
Date Collected: 7/5/2006 15:10
Date Received: 7/7/2006
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Benzene	0.160	0.500	0.152	1	7/14/2006	J
Bromobenzene	BQL	0.500	0.199	1	7/14/2006	
Bromochloromethane	BQL	0.500	0.312	1	7/14/2006	
Bromodichloromethane	BQL	0.500	0.195	1	7/14/2006	
Bromoform	BQL	0.500	0.116	1	7/14/2006	
Bromomethane	BQL	0.500	0.398	1	7/14/2006	
n-Butylbenzene	0.550	0.500	0.262	1	7/14/2006	
sec-Butylbenzene	0.340	0.500	0.234	1	7/14/2006	J
tert-Butylbenzene	BQL	0.500	0.181	1	7/14/2006	
Carbon tetrachloride	BQL	0.500	0.150	1	7/14/2006	
Chlorobenzene	BQL	0.500	0.178	1	7/14/2006	
Chloroethane	BQL	0.500	0.373	1	7/14/2006	
Chloroform	BQL	0.500	0.195	1	7/14/2006	
Chloromethane	BQL	0.500	0.457	1	7/14/2006	
2-Chlorotoluene	BQL	0.500	0.204	1	7/14/2006	
4-Chlorotoluene	BQL	0.500	0.198	1	7/14/2006	
Dibromochloromethane	BQL	0.500	0.198	1	7/14/2006	
1,2-Dibromo-3-chloropropane	BQL	5.00	1.89	1	7/14/2006	
Dibromomethane	BQL	0.500	0.276	1	7/14/2006	
1,2-Dibromoethane (EDB)	BQL	0.500	0.269	1	7/14/2006	
1,2-Dichlorobenzene	BQL	0.500	0.187	1	7/14/2006	
1,3-Dichlorobenzene	BQL	0.500	0.242	1	7/14/2006	
1,4-Dichlorobenzene	BQL	0.500	0.177	1	7/14/2006	
1,1-Dichloroethane	BQL	0.500	0.201	1	7/14/2006	
1,1-Dichloroethene	BQL	0.500	0.159	1	7/14/2006	
1,2-Dichloroethane	BQL	0.500	0.223	1	7/14/2006	
cis-1,2-Dichloroethene	1.88	0.500	0.161	1	7/14/2006	
trans-1,2-dichloroethene	BQL	0.500	0.230	1	7/14/2006	
1,2-Dichloropropane	BQL	0.500	0.132	1	7/14/2006	
1,3-Dichloropropane	BQL	0.500	0.163	1	7/14/2006	
2,2-Dichloropropane	BQL	0.500	0.263	1	7/14/2006	
1,1-Dichloropropene	BQL	0.500	0.176	1	7/14/2006	
Dichlorodifluoromethane	BQL	5.00	0.459	1	7/14/2006	
Diisopropyl ether (DIPE)	BQL	0.500	0.204	1	7/14/2006	
Ethylbenzene	BQL	0.500	0.183	1	7/14/2006	
Hexachlorobutadiene	BQL	0.500	0.406	1	7/14/2006	
Isopropylbenzene	BQL	0.500	0.163	1	7/14/2006	
4-Isopropyltoluene	0.440	0.500	0.203	1	7/14/2006	J
Methylene chloride	BQL	5.00	0.176	1	7/14/2006	
Methyl-tert-butyl ether (MTBE)	BQL	0.500	0.201	1	7/14/2006	
Naphthalene	0.830	0.500	0.259	1	7/14/2006	
n-Propyl benzene	BQL	0.500	0.203	1	7/14/2006	



Results for Volatiles
by GCMS 6210D

Client Sample ID: USTAS843-MW02
Client Project ID: CTO 0015
Lab Sample ID: G650-66-2A
Lab Project ID: G650-66

Analyzed By: MJC
Date Collected: 7/5/2006 15:10
Date Received: 7/7/2006
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Styrene	BQL	0.500	0.235	1	7/14/2006	
1,1,1,2-Tetrachloroethane	BQL	0.500	0.298	1	7/14/2006	
1,1,2,2-Tetrachloroethane	BQL	0.500	0.217	1	7/14/2006	
Tetrachloroethene	BQL	0.500	0.219	1	7/14/2006	
Toluene	BQL	0.500	0.154	1	7/14/2006	
1,2,3-Trichlorobenzene	BQL	0.500	0.206	1	7/14/2006	
1,2,4-Trichlorobenzene	BQL	0.500	0.271	1	7/14/2006	
Trichloroethene	BQL	0.500	0.201	1	7/14/2006	
1,1,1-Trichloroethane	BQL	0.500	0.168	1	7/14/2006	
1,1,2-Trichloroethane	BQL	0.500	0.231	1	7/14/2006	
Trichlorofluoromethane	BQL	0.500	0.481	1	7/14/2006	
1,2,3-Trichloropropane	BQL	0.500	0.214	1	7/14/2006	
1,2,4-Trimethylbenzene	BQL	0.500	0.205	1	7/14/2006	
1,3,5-Trimethylbenzene	BQL	0.500	0.179	1	7/14/2006	
Vinyl chloride	BQL	0.500	0.464	1	7/14/2006	
m-,p-Xylene	BQL	1.00	0.388	1	7/14/2006	
o-Xylene	BQL	0.500	0.156	1	7/14/2006	
		Spike Added	Spike Result	Percent Recovered		
4-Bromofluorobenzene		10	9.99	100		
1,2-Dichloroethane-d4		10	10.2	102		
Toluene-d8		10	9.99	100		

Comments:

Flags:

BQL = Below Quantitation Limits.

Reviewed By:



Results for Volatiles
by GCMS 6210D

Client Sample ID: USTAS843-MW03
Client Project ID: CTO 0015
Lab Sample ID: G650-66-3A
Lab Project ID: G650-66

Analyzed By: MJC
Date Collected: 7/6/2006 10:08
Date Received: 7/7/2006
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Benzene	1.17	0.500	0.152	1	7/14/2006	
Bromobenzene	BQL	0.500	0.199	1	7/14/2006	
Bromochloromethane	BQL	0.500	0.312	1	7/14/2006	
Bromodichloromethane	BQL	0.500	0.195	1	7/14/2006	
Bromoform	BQL	0.500	0.116	1	7/14/2006	
Bromomethane	BQL	0.500	0.398	1	7/14/2006	
n-Butylbenzene	1.08	0.500	0.262	1	7/14/2006	
sec-Butylbenzene	2.98	0.500	0.234	1	7/14/2006	
tert-Butylbenzene	0.490	0.500	0.181	1	7/14/2006	J
Carbon tetrachloride	BQL	0.500	0.150	1	7/14/2006	
Chlorobenzene	BQL	0.500	0.178	1	7/14/2006	
Chloroethane	BQL	0.500	0.373	1	7/14/2006	
Chloroform	BQL	0.500	0.195	1	7/14/2006	
Chloromethane	BQL	0.500	0.457	1	7/14/2006	
2-Chlorotoluene	BQL	0.500	0.204	1	7/14/2006	
4-Chlorotoluene	BQL	0.500	0.198	1	7/14/2006	
Dibromochloromethane	BQL	0.500	0.198	1	7/14/2006	
1,2-Dibromo-3-chloropropane	BQL	5.00	1.89	1	7/14/2006	
Dibromomethane	BQL	0.500	0.276	1	7/14/2006	
1,2-Dibromoethane (EDB)	BQL	0.500	0.269	1	7/14/2006	
1,2-Dichlorobenzene	BQL	0.500	0.187	1	7/14/2006	
1,3-Dichlorobenzene	BQL	0.500	0.242	1	7/14/2006	
1,4-Dichlorobenzene	BQL	0.500	0.177	1	7/14/2006	
1,1-Dichloroethane	BQL	0.500	0.201	1	7/14/2006	
1,1-Dichloroethene	BQL	0.500	0.159	1	7/14/2006	
1,2-Dichloroethane	BQL	0.500	0.223	1	7/14/2006	
cis-1,2-Dichloroethene	1.46	0.500	0.161	1	7/14/2006	
trans-1,2-dichloroethene	BQL	0.500	0.230	1	7/14/2006	
1,2-Dichloropropane	BQL	0.500	0.132	1	7/14/2006	
1,3-Dichloropropane	BQL	0.500	0.163	1	7/14/2006	
2,2-Dichloropropane	BQL	0.500	0.263	1	7/14/2006	
1,1-Dichloropropene	BQL	0.500	0.176	1	7/14/2006	
Dichlorodifluoromethane	BQL	5.00	0.459	1	7/14/2006	
Diisopropyl ether (DIPE)	BQL	0.500	0.204	1	7/14/2006	
Ethylbenzene	5.68	0.500	0.183	1	7/14/2006	
Hexachlorobutadiene	BQL	0.500	0.406	1	7/14/2006	
Isopropylbenzene	3.50	0.500	0.163	1	7/14/2006	
4-Isopropyltoluene	0.390	0.500	0.203	1	7/14/2006	J
Methylene chloride	BQL	5.00	0.176	1	7/14/2006	
Methyl-tert-butyl ether (MTBE)	BQL	0.500	0.201	1	7/14/2006	
Naphthalene	23.0	0.500	0.259	1	7/14/2006	
n-Propyl benzene	2.90	0.500	0.203	1	7/14/2006	



Results for Volatiles
by GCMS 6210D

Client Sample ID: USTAS843-MW03
Client Project ID: CTO 0015
Lab Sample ID: G650-66-3A
Lab Project ID: G650-66

Analyzed By: MJC
Date Collected: 7/6/2006 10:08
Date Received: 7/7/2006
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Styrene	BQL	0.500	0.235	1	7/14/2006	
1,1,1,2-Tetrachloroethane	BQL	0.500	0.298	1	7/14/2006	
1,1,2,2-Tetrachloroethane	BQL	0.500	0.217	1	7/14/2006	
Tetrachloroethene	BQL	0.500	0.219	1	7/14/2006	
Toluene	BQL	0.500	0.154	1	7/14/2006	
1,2,3-Trichlorobenzene	BQL	0.500	0.206	1	7/14/2006	
1,2,4-Trichlorobenzene	BQL	0.500	0.271	1	7/14/2006	
Trichloroethene	BQL	0.500	0.201	1	7/14/2006	
1,1,1-Trichloroethane	BQL	0.500	0.168	1	7/14/2006	
1,1,2-Trichloroethane	BQL	0.500	0.231	1	7/14/2006	
Trichlorofluoromethane	BQL	0.500	0.481	1	7/14/2006	
1,2,3-Trichloropropane	BQL	0.500	0.214	1	7/14/2006	
1,2,4-Trimethylbenzene	0.840	0.500	0.205	1	7/14/2006	
1,3,5-Trimethylbenzene	BQL	0.500	0.179	1	7/14/2006	
Vinyl chloride	BQL	0.500	0.464	1	7/14/2006	
m,p-Xylene	BQL	1.00	0.388	1	7/14/2006	
o-Xylene	0.180	0.500	0.156	1	7/14/2006	J
		Spike Added	Spike Result	Percent Recovered		
4-Bromofluorobenzene		10	10.1	101		
1,2-Dichloroethane-d4		10	9.93	99		
Toluene-d8		10	9.91	99		

Comments:

Flags:

BQL = Below Quantitation Limits.

Reviewed By: *rcf*



Results for Volatiles
by GCMS 6210D

Client Sample ID: USTAS843-MW04
Client Project ID: CTO 0015
Lab Sample ID: G650-66-4A
Lab Project ID: G650-66

Analyzed By: MJC
Date Collected: 7/6/2006 11:15
Date Received: 7/7/2006
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Benzene	BQL	0.500	0.152	1	7/14/2006	
Bromobenzene	BQL	0.500	0.199	1	7/14/2006	
Bromochloromethane	BQL	0.500	0.312	1	7/14/2006	
Bromodichloromethane	BQL	0.500	0.195	1	7/14/2006	
Bromoform	BQL	0.500	0.116	1	7/14/2006	
Bromomethane	BQL	0.500	0.398	1	7/14/2006	
n-Butylbenzene	0.870	0.500	0.262	1	7/14/2006	
sec-Butylbenzene	1.36	0.500	0.234	1	7/14/2006	
tert-Butylbenzene	BQL	0.500	0.181	1	7/14/2006	
Carbon tetrachloride	BQL	0.500	0.150	1	7/14/2006	
Chlorobenzene	BQL	0.500	0.178	1	7/14/2006	
Chloroethane	BQL	0.500	0.373	1	7/14/2006	
Chloroform	BQL	0.500	0.195	1	7/14/2006	
Chloromethane	BQL	0.500	0.457	1	7/14/2006	
2-Chlorotoluene	BQL	0.500	0.204	1	7/14/2006	
4-Chlorotoluene	BQL	0.500	0.198	1	7/14/2006	
Dibromochloromethane	BQL	0.500	0.198	1	7/14/2006	
1,2-Dibromo-3-chloropropane	BQL	5.00	1.89	1	7/14/2006	
Dibromomethane	BQL	0.500	0.276	1	7/14/2006	
1,2-Dibromoethane (EDB)	BQL	0.500	0.269	1	7/14/2006	
1,2-Dichlorobenzene	BQL	0.500	0.187	1	7/14/2006	
1,3-Dichlorobenzene	BQL	0.500	0.242	1	7/14/2006	
1,4-Dichlorobenzene	BQL	0.500	0.177	1	7/14/2006	
1,1-Dichloroethane	BQL	0.500	0.201	1	7/14/2006	
1,1-Dichloroethene	BQL	0.500	0.159	1	7/14/2006	
1,2-Dichloroethane	BQL	0.500	0.223	1	7/14/2006	
cis-1,2-Dichloroethene	BQL	0.500	0.161	1	7/14/2006	
trans-1,2-dichloroethene	BQL	0.500	0.230	1	7/14/2006	
1,2-Dichloropropane	BQL	0.500	0.132	1	7/14/2006	
1,3-Dichloropropane	BQL	0.500	0.163	1	7/14/2006	
2,2-Dichloropropane	BQL	0.500	0.263	1	7/14/2006	
1,1-Dichloropropene	BQL	0.500	0.176	1	7/14/2006	
Dichlorodifluoromethane	BQL	5.00	0.459	1	7/14/2006	
Diisopropyl ether (DIPE)	BQL	0.500	0.204	1	7/14/2006	
Ethylbenzene	BQL	0.500	0.183	1	7/14/2006	
Hexachlorobutadiene	BQL	0.500	0.406	1	7/14/2006	
Isopropylbenzene	1.39	0.500	0.163	1	7/14/2006	
4-Isopropyltoluene	0.400	0.500	0.203	1	7/14/2006	J
Methylene chloride	BQL	5.00	0.176	1	7/14/2006	
Methyl-tert-butyl ether (MTBE)	BQL	0.500	0.201	1	7/14/2006	
Naphthalene	1.15	0.500	0.259	1	7/14/2006	
n-Propyl benzene	1.73	0.500	0.203	1	7/14/2006	



**Results for Volatiles
by GCMS 6210D**

Client Sample ID: USTAS843-MW04
Client Project ID: CTO 0015
Lab Sample ID: G650-66-4A
Lab Project ID: G650-66

Analyzed By: MJC
Date Collected: 7/6/2006 11:15
Date Received: 7/7/2006
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Styrene	BQL	0.500	0.235	1	7/14/2006	
1,1,1,2-Tetrachloroethane	BQL	0.500	0.298	1	7/14/2006	
1,1,2,2-Tetrachloroethane	BQL	0.500	0.217	1	7/14/2006	
Tetrachloroethene	BQL	0.500	0.219	1	7/14/2006	
Toluene	BQL	0.500	0.154	1	7/14/2006	
1,2,3-Trichlorobenzene	BQL	0.500	0.206	1	7/14/2006	
1,2,4-Trichlorobenzene	BQL	0.500	0.271	1	7/14/2006	
Trichloroethene	BQL	0.500	0.201	1	7/14/2006	
1,1,1-Trichloroethane	BQL	0.500	0.168	1	7/14/2006	
1,1,2-Trichloroethane	BQL	0.500	0.231	1	7/14/2006	
Trichlorofluoromethane	BQL	0.500	0.481	1	7/14/2006	
1,2,3-Trichloropropane	BQL	0.500	0.214	1	7/14/2006	
1,2,4-Trimethylbenzene	BQL	0.500	0.205	1	7/14/2006	
1,3,5-Trimethylbenzene	BQL	0.500	0.179	1	7/14/2006	
Vinyl chloride	BQL	0.500	0.464	1	7/14/2006	
m-,p-Xylene	BQL	1.00	0.388	1	7/14/2006	
o-Xylene	BQL	0.500	0.156	1	7/14/2006	

	Spike Added	Spike Result	Percent Recovered
4-Bromofluorobenzene	10	10.2	102
1,2-Dichloroethane-d4	10	9.72	97
Toluene-d8	10	9.91	99

Comments:

Flags:

BQL = Below Quantitation Limits.

Reviewed By: RW



Results for Volatiles
by GCMS 6210D

Client Sample ID: USTAS843-MW05
Client Project ID: CTO 0015
Lab Sample ID: G650-66-5B
Lab Project ID: G650-66

Analyzed By: MJC
Date Collected: 7/5/2006 14:35
Date Received: 7/7/2006
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Benzene	BQL	0.500	0.152	1	7/17/2006	
Bromobenzene	BQL	0.500	0.199	1	7/17/2006	
Bromochloromethane	BQL	0.500	0.312	1	7/17/2006	
Bromodichloromethane	BQL	0.500	0.195	1	7/17/2006	
Bromoform	BQL	0.500	0.116	1	7/17/2006	
Bromomethane	BQL	0.500	0.398	1	7/17/2006	
n-Butylbenzene	BQL	0.500	0.262	1	7/17/2006	
sec-Butylbenzene	BQL	0.500	0.234	1	7/17/2006	
tert-Butylbenzene	BQL	0.500	0.181	1	7/17/2006	
Carbon tetrachloride	BQL	0.500	0.150	1	7/17/2006	
Chlorobenzene	BQL	0.500	0.178	1	7/17/2006	
Chloroethane	BQL	0.500	0.373	1	7/17/2006	
Chloroform	BQL	0.500	0.195	1	7/17/2006	
Chloromethane	BQL	0.500	0.457	1	7/17/2006	
2-Chlorotoluene	BQL	0.500	0.204	1	7/17/2006	
4-Chlorotoluene	BQL	0.500	0.198	1	7/17/2006	
Dibromochloromethane	BQL	0.500	0.198	1	7/17/2006	
1,2-Dibromo-3-chloropropane	BQL	5.00	1.89	1	7/17/2006	
Dibromomethane	BQL	0.500	0.276	1	7/17/2006	
1,2-Dibromoethane (EDB)	BQL	0.500	0.269	1	7/17/2006	
1,2-Dichlorobenzene	BQL	0.500	0.187	1	7/17/2006	
1,3-Dichlorobenzene	BQL	0.500	0.242	1	7/17/2006	
1,4-Dichlorobenzene	BQL	0.500	0.177	1	7/17/2006	
1,1-Dichloroethane	BQL	0.500	0.201	1	7/17/2006	
1,1-Dichloroethene	BQL	0.500	0.159	1	7/17/2006	
1,2-Dichloroethane	BQL	0.500	0.223	1	7/17/2006	
cis-1,2-Dichloroethene	BQL	0.500	0.161	1	7/17/2006	
trans-1,2-dichloroethene	BQL	0.500	0.230	1	7/17/2006	
1,2-Dichloropropane	BQL	0.500	0.132	1	7/17/2006	
1,3-Dichloropropane	BQL	0.500	0.163	1	7/17/2006	
2,2-Dichloropropane	BQL	0.500	0.263	1	7/17/2006	
1,1-Dichloropropene	BQL	0.500	0.176	1	7/17/2006	
Dichlorodifluoromethane	BQL	5.00	0.459	1	7/17/2006	
Diisopropyl ether (DIPE)	BQL	0.500	0.204	1	7/17/2006	
Ethylbenzene	BQL	0.500	0.183	1	7/17/2006	
Hexachlorobutadiene	BQL	0.500	0.406	1	7/17/2006	
Isopropylbenzene	BQL	0.500	0.163	1	7/17/2006	
4-Isopropyltoluene	BQL	0.500	0.203	1	7/17/2006	
Methylene chloride	BQL	5.00	0.176	1	7/17/2006	
Methyl-tert-butyl ether (MTBE)	BQL	0.500	0.201	1	7/17/2006	
Naphthalene	12.9	0.500	0.259	1	7/17/2006	
n-Propyl benzene	BQL	0.500	0.203	1	7/17/2006	



Results for Volatiles
by GCMS 6210D

Client Sample ID: USTAS843-MW05
Client Project ID: CTO 0015
Lab Sample ID: G650-66-5B
Lab Project ID: G650-66

Analyzed By: MJC
Date Collected: 7/5/2006 14:35
Date Received: 7/7/2006
Matrix: Water

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Styrene	BQL	0.500	0.235	1	7/17/2006	
1,1,1,2-Tetrachloroethane	BQL	0.500	0.298	1	7/17/2006	
1,1,2,2-Tetrachloroethane	BQL	0.500	0.217	1	7/17/2006	
Tetrachloroethene	BQL	0.500	0.219	1	7/17/2006	
Toluene	0.220	0.500	0.154	1	7/17/2006	J
1,2,3-Trichlorobenzene	BQL	0.500	0.206	1	7/17/2006	
1,2,4-Trichlorobenzene	BQL	0.500	0.271	1	7/17/2006	
Trichloroethene	BQL	0.500	0.201	1	7/17/2006	
1,1,1-Trichloroethane	BQL	0.500	0.168	1	7/17/2006	
1,1,2-Trichloroethane	BQL	0.500	0.231	1	7/17/2006	
Trichlorofluoromethane	BQL	0.500	0.481	1	7/17/2006	
1,2,3-Trichloropropane	BQL	0.500	0.214	1	7/17/2006	
1,2,4-Trimethylbenzene	0.210	0.500	0.205	1	7/17/2006	J
1,3,5-Trimethylbenzene	BQL	0.500	0.179	1	7/17/2006	
Vinyl chloride	BQL	0.500	0.464	1	7/17/2006	
m-,p-Xylene	BQL	1.00	0.388	1	7/17/2006	
o-Xylene	BQL	0.500	0.156	1	7/17/2006	
		Spike Added	Spike Result	Percent Recovered		
4-Bromofluorobenzene		10	10	100		
1,2-Dichloroethane-d4		10	10	100		
Toluene-d8		10	9.99	100		

Comments:

Flags:

BQL = Below Quantitation Limits.

Reviewed By:



Results for Volatiles
by GCMS 6210D

Client Sample ID: USTAS843-Duplicate
Client Project ID: CTO 0015
Lab Sample ID: G650-66-6A
Lab Project ID: G650-66

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

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Benzene	1.19	0.500	0.152	1	7/14/2006	
Bromobenzene	BQL	0.500	0.199	1	7/14/2006	
Bromochloromethane	BQL	0.500	0.312	1	7/14/2006	
Bromodichloromethane	BQL	0.500	0.195	1	7/14/2006	
Bromoform	BQL	0.500	0.116	1	7/14/2006	
Bromomethane	BQL	0.500	0.398	1	7/14/2006	
n-Butylbenzene	1.07	0.500	0.262	1	7/14/2006	
sec-Butylbenzene	2.99	0.500	0.234	1	7/14/2006	
tert-Butylbenzene	0.530	0.500	0.181	1	7/14/2006	
Carbon tetrachloride	BQL	0.500	0.150	1	7/14/2006	
Chlorobenzene	BQL	0.500	0.178	1	7/14/2006	
Chloroethane	BQL	0.500	0.373	1	7/14/2006	
Chloroform	BQL	0.500	0.195	1	7/14/2006	
Chloromethane	BQL	0.500	0.457	1	7/14/2006	
2-Chlorotoluene	BQL	0.500	0.204	1	7/14/2006	
4-Chlorotoluene	BQL	0.500	0.198	1	7/14/2006	
Dibromochloromethane	BQL	0.500	0.198	1	7/14/2006	
1,2-Dibromo-3-chloropropane	BQL	5.00	1.89	1	7/14/2006	
Dibromomethane	BQL	0.500	0.276	1	7/14/2006	
1,2-Dibromoethane (EDB)	BQL	0.500	0.269	1	7/14/2006	
1,2-Dichlorobenzene	BQL	0.500	0.187	1	7/14/2006	
1,3-Dichlorobenzene	BQL	0.500	0.242	1	7/14/2006	
1,4-Dichlorobenzene	BQL	0.500	0.177	1	7/14/2006	
1,1-Dichloroethane	BQL	0.500	0.201	1	7/14/2006	
1,1-Dichloroethene	BQL	0.500	0.159	1	7/14/2006	
1,2-Dichloroethane	BQL	0.500	0.223	1	7/14/2006	
cis-1,2-Dichloroethene	1.46	0.500	0.161	1	7/14/2006	
trans-1,2-dichloroethene	BQL	0.500	0.230	1	7/14/2006	
1,2-Dichloropropane	BQL	0.500	0.132	1	7/14/2006	
1,3-Dichloropropane	BQL	0.500	0.163	1	7/14/2006	
2,2-Dichloropropane	BQL	0.500	0.263	1	7/14/2006	
1,1-Dichloropropene	BQL	0.500	0.176	1	7/14/2006	
Dichlorodifluoromethane	BQL	5.00	0.459	1	7/14/2006	
Diisopropyl ether (DIPE)	BQL	0.500	0.204	1	7/14/2006	
Ethylbenzene	5.68	0.500	0.183	1	7/14/2006	
Hexachlorobutadiene	BQL	0.500	0.406	1	7/14/2006	
Isopropylbenzene	3.56	0.500	0.163	1	7/14/2006	
4-Isopropyltoluene	0.410	0.500	0.203	1	7/14/2006	J
Methylene chloride	BQL	5.00	0.176	1	7/14/2006	
Methyl-tert-butyl ether (MTBE)	BQL	0.500	0.201	1	7/14/2006	
Naphthalene	22.4	0.500	0.259	1	7/14/2006	
n-Propyl benzene	2.95	0.500	0.203	1	7/14/2006	



Results for Volatiles
by GCMS 6210D

Client Sample ID: USTAS843-Duplicate
Client Project ID: CTO 0015
Lab Sample ID: G650-66-6A
Lab Project ID: G650-66

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

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Styrene	BQL	0.500	0.235	1	7/14/2006	
1,1,1,2-Tetrachloroethane	BQL	0.500	0.298	1	7/14/2006	
1,1,2,2-Tetrachloroethane	BQL	0.500	0.217	1	7/14/2006	
Tetrachloroethene	BQL	0.500	0.219	1	7/14/2006	
Toluene	BQL	0.500	0.154	1	7/14/2006	
1,2,3-Trichlorobenzene	BQL	0.500	0.206	1	7/14/2006	
1,2,4-Trichlorobenzene	BQL	0.500	0.271	1	7/14/2006	
Trichloroethene	BQL	0.500	0.201	1	7/14/2006	
1,1,1-Trichloroethane	BQL	0.500	0.168	1	7/14/2006	
1,1,2-Trichloroethane	BQL	0.500	0.231	1	7/14/2006	
Trichlorofluoromethane	BQL	0.500	0.481	1	7/14/2006	
1,2,3-Trichloropropane	BQL	0.500	0.214	1	7/14/2006	
1,2,4-Trimethylbenzene	0.830	0.500	0.205	1	7/14/2006	
1,3,5-Trimethylbenzene	BQL	0.500	0.179	1	7/14/2006	
Vinyl chloride	BQL	0.500	0.464	1	7/14/2006	
m-,p-Xylene	BQL	1.00	0.388	1	7/14/2006	
o-Xylene	0.170	0.500	0.156	1	7/14/2006	J
		Spike Added	Spike Result	Percent Recovered		
4-Bromofluorobenzene		10	10.1	101		
1,2-Dichloroethane-d4		10	9.7	97		
Toluene-d8		10	9.82	98		

Comments:

Flags:

BQL = Below Quantitation Limits.

Reviewed By:



Results for Volatiles
by GCMS 6210D

Client Sample ID: Trip Blank
Client Project ID: CTO 0015
Lab Sample ID: G650-66-7A
Lab Project ID: G650-66

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

Compound	Result	Quantitation	MDL	Dilution	Date	Flag
	UG/L	Limit UG/L	UG/L	Factor	Analyzed	
Benzene	BQL	0.500	0.152	1	7/14/2006	
Bromobenzene	BQL	0.500	0.199	1	7/14/2006	
Bromochloromethane	BQL	0.500	0.312	1	7/14/2006	
Bromodichloromethane	BQL	0.500	0.195	1	7/14/2006	
Bromoform	BQL	0.500	0.116	1	7/14/2006	
Bromomethane	BQL	0.500	0.398	1	7/14/2006	
n-Butylbenzene	BQL	0.500	0.262	1	7/14/2006	
sec-Butylbenzene	BQL	0.500	0.234	1	7/14/2006	
tert-Butylbenzene	BQL	0.500	0.181	1	7/14/2006	
Carbon tetrachloride	BQL	0.500	0.150	1	7/14/2006	
Chlorobenzene	BQL	0.500	0.178	1	7/14/2006	
Chloroethane	BQL	0.500	0.373	1	7/14/2006	
Chloroform	BQL	0.500	0.195	1	7/14/2006	
Chloromethane	BQL	0.500	0.457	1	7/14/2006	
2-Chlorotoluene	BQL	0.500	0.204	1	7/14/2006	
4-Chlorotoluene	BQL	0.500	0.198	1	7/14/2006	
Dibromochloromethane	BQL	0.500	0.198	1	7/14/2006	
1,2-Dibromo-3-chloropropane	BQL	5.00	1.89	1	7/14/2006	
Dibromomethane	BQL	0.500	0.276	1	7/14/2006	
1,2-Dibromoethane (EDB)	BQL	0.500	0.269	1	7/14/2006	
1,2-Dichlorobenzene	BQL	0.500	0.187	1	7/14/2006	
1,3-Dichlorobenzene	BQL	0.500	0.242	1	7/14/2006	
1,4-Dichlorobenzene	BQL	0.500	0.177	1	7/14/2006	
1,1-Dichloroethane	BQL	0.500	0.201	1	7/14/2006	
1,1-Dichloroethene	BQL	0.500	0.159	1	7/14/2006	
1,2-Dichloroethane	BQL	0.500	0.223	1	7/14/2006	
cis-1,2-Dichloroethene	BQL	0.500	0.161	1	7/14/2006	
trans-1,2-dichloroethene	BQL	0.500	0.230	1	7/14/2006	
1,2-Dichloropropane	BQL	0.500	0.132	1	7/14/2006	
1,3-Dichloropropane	BQL	0.500	0.163	1	7/14/2006	
2,2-Dichloropropane	BQL	0.500	0.263	1	7/14/2006	
1,1-Dichloropropene	BQL	0.500	0.176	1	7/14/2006	
Dichlorodifluoromethane	BQL	5.00	0.459	1	7/14/2006	
Diisopropyl ether (DIPE)	BQL	0.500	0.204	1	7/14/2006	
Ethylbenzene	BQL	0.500	0.183	1	7/14/2006	
Hexachlorobutadiene	BQL	0.500	0.406	1	7/14/2006	
Isopropylbenzene	BQL	0.500	0.163	1	7/14/2006	
4-Isopropyltoluene	BQL	0.500	0.203	1	7/14/2006	
Methylene chloride	0.700	5.00	0.176	1	7/14/2006	J
Methyl-tert-butyl ether (MTBE)	BQL	0.500	0.201	1	7/14/2006	
Naphthalene	BQL	0.500	0.259	1	7/14/2006	
n-Propyl benzene	BQL	0.500	0.203	1	7/14/2006	



Results for Volatiles
by GCMS 6210D

Client Sample ID: Trip Blank
Client Project ID: CTO 0015
Lab Sample ID: G650-66-7A
Lab Project ID: G650-66

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

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Styrene	BQL	0.500	0.235	1	7/14/2006	
1,1,1,2-Tetrachloroethane	BQL	0.500	0.298	1	7/14/2006	
1,1,2,2-Tetrachloroethane	BQL	0.500	0.217	1	7/14/2006	
Tetrachloroethene	BQL	0.500	0.219	1	7/14/2006	
Toluene	BQL	0.500	0.154	1	7/14/2006	
1,2,3-Trichlorobenzene	BQL	0.500	0.206	1	7/14/2006	
1,2,4-Trichlorobenzene	BQL	0.500	0.271	1	7/14/2006	
Trichloroethene	BQL	0.500	0.201	1	7/14/2006	
1,1,1-Trichloroethane	BQL	0.500	0.168	1	7/14/2006	
1,1,2-Trichloroethane	BQL	0.500	0.231	1	7/14/2006	
Trichlorofluoromethane	BQL	0.500	0.481	1	7/14/2006	
1,2,3-Trichloropropane	BQL	0.500	0.214	1	7/14/2006	
1,2,4-Trimethylbenzene	BQL	0.500	0.205	1	7/14/2006	
1,3,5-Trimethylbenzene	BQL	0.500	0.179	1	7/14/2006	
Vinyl chloride	BQL	0.500	0.464	1	7/14/2006	
m-,p-Xylene	BQL	1.00	0.388	1	7/14/2006	
o-Xylene	BQL	0.500	0.156	1	7/14/2006	
		Spike Added	Spike Result	Percent Recovered		
4-Bromofluorobenzene		10	9.93	99		
1,2-Dichloroethane-d4		10	9.78	98		
Toluene-d8		10	9.94	99		

Comments:

Flags:

BQL = Below Quantitation Limits.

Reviewed By: RL



Results for Volatiles
by GCMS 6210D

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID: VBLK3071406B
Lab Project ID:

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

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Benzene	BQL	0.500	0.152	1	7/14/2006	
Bromobenzene	BQL	0.500	0.199	1	7/14/2006	
Bromochloromethane	BQL	0.500	0.312	1	7/14/2006	
Bromodichloromethane	BQL	0.500	0.195	1	7/14/2006	
Bromoform	BQL	0.500	0.116	1	7/14/2006	
Bromomethane	BQL	0.500	0.398	1	7/14/2006	
n-Butylbenzene	BQL	0.500	0.262	1	7/14/2006	
sec-Butylbenzene	BQL	0.500	0.234	1	7/14/2006	
tert-Butylbenzene	BQL	0.500	0.181	1	7/14/2006	
Carbon tetrachloride	BQL	0.500	0.150	1	7/14/2006	
Chlorobenzene	BQL	0.500	0.178	1	7/14/2006	
Chloroethane	BQL	0.500	0.373	1	7/14/2006	
Chloroform	BQL	0.500	0.195	1	7/14/2006	
Chloromethane	BQL	0.500	0.457	1	7/14/2006	
2-Chlorotoluene	BQL	0.500	0.204	1	7/14/2006	
4-Chlorotoluene	BQL	0.500	0.198	1	7/14/2006	
Dibromochloromethane	BQL	0.500	0.198	1	7/14/2006	
1,2-Dibromo-3-chloropropane	BQL	5.00	1.89	1	7/14/2006	
Dibromomethane	BQL	0.500	0.276	1	7/14/2006	
1,2-Dibromoethane (EDB)	BQL	0.500	0.269	1	7/14/2006	
1,2-Dichlorobenzene	BQL	0.500	0.187	1	7/14/2006	
1,3-Dichlorobenzene	BQL	0.500	0.242	1	7/14/2006	
1,4-Dichlorobenzene	BQL	0.500	0.177	1	7/14/2006	
1,1-Dichloroethane	BQL	0.500	0.201	1	7/14/2006	
1,1-Dichloroethene	BQL	0.500	0.159	1	7/14/2006	
1,2-Dichloroethane	BQL	0.500	0.223	1	7/14/2006	
cis-1,2-Dichloroethene	BQL	0.500	0.161	1	7/14/2006	
trans-1,2-dichloroethene	BQL	0.500	0.230	1	7/14/2006	
1,2-Dichloropropane	BQL	0.500	0.132	1	7/14/2006	
1,3-Dichloropropane	BQL	0.500	0.163	1	7/14/2006	
2,2-Dichloropropane	BQL	0.500	0.263	1	7/14/2006	
1,1-Dichloropropene	BQL	0.500	0.176	1	7/14/2006	
Dichlorodifluoromethane	BQL	5.00	0.459	1	7/14/2006	
Diisopropyl ether (DIPE)	BQL	0.500	0.204	1	7/14/2006	
Ethylbenzene	BQL	0.500	0.183	1	7/14/2006	
Hexachlorobutadiene	BQL	0.500	0.406	1	7/14/2006	
Isopropylbenzene	BQL	0.500	0.163	1	7/14/2006	
4-Isopropyltoluene	BQL	0.500	0.203	1	7/14/2006	
Methylene chloride	BQL	5.00	0.176	1	7/14/2006	
Methyl-tert-butyl ether (MTBE)	BQL	0.500	0.201	1	7/14/2006	
Naphthalene	BQL	0.500	0.259	1	7/14/2006	
n-Propyl benzene	BQL	0.500	0.203	1	7/14/2006	



Results for Volatiles
by GCMS 6210D

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID: VBLK3071406B
Lab Project ID:

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

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Styrene	BQL	0.500	0.235	1	7/14/2006	
1,1,1,2-Tetrachloroethane	BQL	0.500	0.298	1	7/14/2006	
1,1,2,2-Tetrachloroethane	BQL	0.500	0.217	1	7/14/2006	
Tetrachloroethene	BQL	0.500	0.219	1	7/14/2006	
Toluene	BQL	0.500	0.154	1	7/14/2006	
1,2,3-Trichlorobenzene	BQL	0.500	0.206	1	7/14/2006	
1,2,4-Trichlorobenzene	BQL	0.500	0.271	1	7/14/2006	
Trichloroethene	BQL	0.500	0.201	1	7/14/2006	
1,1,1-Trichloroethane	BQL	0.500	0.168	1	7/14/2006	
1,1,2-Trichloroethane	BQL	0.500	0.231	1	7/14/2006	
Trichlorofluoromethane	BQL	0.500	0.481	1	7/14/2006	
1,2,3-Trichloropropane	BQL	0.500	0.214	1	7/14/2006	
1,2,4-Trimethylbenzene	BQL	0.500	0.205	1	7/14/2006	
1,3,5-Trimethylbenzene	BQL	0.500	0.179	1	7/14/2006	
Vinyl chloride	BQL	0.500	0.464	1	7/14/2006	
m-,p-Xylene	BQL	1.00	0.388	1	7/14/2006	
o-Xylene	BQL	0.500	0.156	1	7/14/2006	
		Spike Added	Spike Result	Percent Recovered		
4-Bromofluorobenzene		10	9.94	99		
1,2-Dichloroethane-d4		10	9.92	99		
Toluene-d8		10	9.92	99		

Comments:

Flags:

BQL = Below Quantitation Limits.

Reviewed By: WJF



**Results for Matrix Spiked Samples (MS/MSD)
by GC/MS**

Client Project ID: Front Batch QC
Lab Sample ID: g520-172-5d x500
Batch ID: 3071406
Instrument ID: MSD3

Date/Time Analyzed: 14 Jul 2006 7:39 pm
Matrix: Water
Analyzed By: MJC

Compound	Unspiked Sample ug/L	Spike conc. ug/L	Recovered MS %	Recovered MSD %	Limits		RPD %	RPD Limit %
					Lower %	Upper %		
benzene	BQL	5	102.7	97.7	61.6	135	5.0	30
chlorobenzene	BQL	5	102.6	99.3	77.2	118	3.3	30
1,1-dichloroethene	BQL	5	101.0	99.5	64.4	130	1.5	30
toluene	BQL	5	104.0	97.8	66.4	128	6.1	30
trichloroethene	BQL	5	103.0	99.4	84.9	136	3.6	30

Comments:

Concentrations are on column amounts.
Concentration Units: ug/L

Flags:

* = Out of limits.
NA = Not applicable
BQL = Below quantitation limit.

Reviewed By: ed



Results for Laboratory Control Samples (LCS/LCSD)
by GC/MS

Client Project ID: Front Batch QC

Lab Sample ID: lcs3071406b

Batch ID: 3071406

Instrument ID: MSD3

Date Analyzed: 14 Jul 2006 10:29 am

Matrix: Water

Analyzed By: MJC

Compound	Spike conc. ug/L	Recovered LCS %	Recovered LCSDup %	Limits		RPD %	RPD Limit %
				Lower %	Upper %		
benzene	5	95.6	98.2	77.4	123	2.6	30
chlorobenzene	5	95.3	96.7	72.5	128	1.5	30
1,1-dichloroethene	5	94.4	96.6	71.7	128	2.4	30
toluene	5	96.8	98.3	75.9	124	1.5	30
trichloroethene	5	96.5	99.6	77.9	122	3.2	30

Comments:

Concentrations are on column amounts.

Concentration Units: ug/L

Flags:

* = Out of limits.

NA = Not applicable

BQL = Below quantitation limit.

Reviewed By:

VO43.072303.1



Results for Volatiles
by GCMS 6210D

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID: VBLK3071706B
Lab Project ID:

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

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Benzene	BQL	0.500	0.152	1	7/17/2006	
Bromobenzene	BQL	0.500	0.199	1	7/17/2006	
Bromochloromethane	BQL	0.500	0.312	1	7/17/2006	
Bromodichloromethane	BQL	0.500	0.195	1	7/17/2006	
Bromoform	BQL	0.500	0.116	1	7/17/2006	
Bromomethane	BQL	0.500	0.398	1	7/17/2006	
n-Butylbenzene	BQL	0.500	0.262	1	7/17/2006	
sec-Butylbenzene	BQL	0.500	0.234	1	7/17/2006	
tert-Butylbenzene	BQL	0.500	0.181	1	7/17/2006	
Carbon tetrachloride	BQL	0.500	0.150	1	7/17/2006	
Chlorobenzene	BQL	0.500	0.178	1	7/17/2006	
Chloroethane	BQL	0.500	0.373	1	7/17/2006	
Chloroform	BQL	0.500	0.195	1	7/17/2006	
Chloromethane	BQL	0.500	0.457	1	7/17/2006	
2-Chlorotoluene	BQL	0.500	0.204	1	7/17/2006	
4-Chlorotoluene	BQL	0.500	0.198	1	7/17/2006	
Dibromochloromethane	BQL	0.500	0.198	1	7/17/2006	
1,2-Dibromo-3-chloropropane	BQL	5.00	1.89	1	7/17/2006	
Dibromomethane	BQL	0.500	0.276	1	7/17/2006	
1,2-Dibromoethane (EDB)	BQL	0.500	0.269	1	7/17/2006	
1,2-Dichlorobenzene	BQL	0.500	0.187	1	7/17/2006	
1,3-Dichlorobenzene	BQL	0.500	0.242	1	7/17/2006	
1,4-Dichlorobenzene	BQL	0.500	0.177	1	7/17/2006	
1,1-Dichloroethane	BQL	0.500	0.201	1	7/17/2006	
1,1-Dichloroethene	BQL	0.500	0.159	1	7/17/2006	
1,2-Dichloroethane	BQL	0.500	0.223	1	7/17/2006	
cis-1,2-Dichloroethene	BQL	0.500	0.161	1	7/17/2006	
trans-1,2-dichloroethene	BQL	0.500	0.230	1	7/17/2006	
1,2-Dichloropropane	BQL	0.500	0.132	1	7/17/2006	
1,3-Dichloropropane	BQL	0.500	0.163	1	7/17/2006	
2,2-Dichloropropane	BQL	0.500	0.263	1	7/17/2006	
1,1-Dichloropropene	BQL	0.500	0.176	1	7/17/2006	
Dichlorodifluoromethane	BQL	5.00	0.459	1	7/17/2006	
Diisopropyl ether (DIPE)	BQL	0.500	0.204	1	7/17/2006	
Ethylbenzene	BQL	0.500	0.183	1	7/17/2006	
Hexachlorobutadiene	BQL	0.500	0.406	1	7/17/2006	
Isopropylbenzene	BQL	0.500	0.163	1	7/17/2006	
4-Isopropyltoluene	BQL	0.500	0.203	1	7/17/2006	
Methylene chloride	BQL	5.00	0.176	1	7/17/2006	
Methyl-tert-butyl ether (MTBE)	BQL	0.500	0.201	1	7/17/2006	
Naphthalene	BQL	0.500	0.259	1	7/17/2006	
n-Propyl benzene	BQL	0.500	0.203	1	7/17/2006	



Results for Volatiles
by GCMS 6210D

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID: VBLK3071706B
Lab Project ID:

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

Compound	Result UG/L	Quantitation Limit UG/L	MDL UG/L	Dilution Factor	Date Analyzed	Flag
Styrene	BQL	0.500	0.235	1	7/17/2006	
1,1,1,2-Tetrachloroethane	BQL	0.500	0.298	1	7/17/2006	
1,1,2,2-Tetrachloroethane	BQL	0.500	0.217	1	7/17/2006	
Tetrachloroethene	BQL	0.500	0.219	1	7/17/2006	
Toluene	BQL	0.500	0.154	1	7/17/2006	
1,2,3-Trichlorobenzene	BQL	0.500	0.206	1	7/17/2006	
1,2,4-Trichlorobenzene	BQL	0.500	0.271	1	7/17/2006	
Trichloroethene	BQL	0.500	0.201	1	7/17/2006	
1,1,1-Trichloroethane	BQL	0.500	0.168	1	7/17/2006	
1,1,2-Trichloroethane	BQL	0.500	0.231	1	7/17/2006	
Trichlorofluoromethane	BQL	0.500	0.481	1	7/17/2006	
1,2,3-Trichloropropane	BQL	0.500	0.214	1	7/17/2006	
1,2,4-Trimethylbenzene	BQL	0.500	0.205	1	7/17/2006	
1,3,5-Trimethylbenzene	BQL	0.500	0.179	1	7/17/2006	
Vinyl chloride	BQL	0.500	0.464	1	7/17/2006	
m-,p-Xylene	BQL	1.00	0.388	1	7/17/2006	
o-Xylene	BQL	0.500	0.156	1	7/17/2006	
		Spike Added	Spike Result	Percent Recovered		
4-Bromofluorobenzene		10	10.2	102		
1,2-Dichloroethane-d4		10	10.4	104		
Toluene-d8		10	9.94	99		

Comments:

Flags:

BQL = Below Quantitation Limits.

Reviewed By:



Results for Laboratory Control Samples (LCS/LCSD)
by GC/MS

Client Project ID: Front Batch QC

Lab Sample ID: lcs3071706b

Batch ID: 3071706

Instrument ID: MSD3

Date Analyzed: 17 Jul 2006 10:40 am

Matrix: Water

Analyzed By: MJC

Compound	Spike conc. ug/L	Recovered LCS %	Recovered LCSDup %	Limits		RPD %	RPD Limit %
				Lower %	Upper %		
benzene	5	97.3	99.9	77.4	123	2.7	30
chlorobenzene	5	94.3	96.8	72.5	128	2.6	30
1,1-dichloroethene	5	95.2	96.5	71.7	128	1.4	30
toluene	5	97.0	98.7	75.9	124	1.6	30
trichloroethene	5	96.9	97.9	77.9	122	1.0	30

Comments:

Concentrations are on column amounts.

Concentration Units: ug/L

Flags:

* = Out of limits.

NA = Not applicable

BQL = Below quantitation limit.

Reviewed By: EW



**Results for Matrix Spiked Samples (MS/MSD)
by GC/MS**

Client Project ID: Front Batch QC
Lab Sample ID: g175-550-5a x4
Batch ID: 3071706
Instrument ID: MSD3

Date/Time Analyzed: 18 Jul 2006 10:44 am
Matrix: Water
Analyzed By: MJC

Compound	Unspiked Sample ug/L	Spike conc. ug/L	Recovered MS %	Recovered MSD %	Limits		RPD %	RPD Limit %
					Lower %	Upper %		
benzene	BQL	5	110.9	106.4	61.6	135	4.1	30
chlorobenzene	1.0	5	103.0	94.5	77.2	118	8.5	30
1,1-dichloroethene	0.7	5	100.1	91.6	64.4	130	8.9	30
toluene	BQL	5	106.7	102.5	66.4	128	4.0	30
trichloroethene	254.8	5	15.9 *	22.9 *	84.9	136	36.5 *	30

Comments:

Concentrations are on column amounts.
Concentration Units: ug/L

Flags:

* = Out of limits.
NA = Not applicable
BQL = Below quantitation limit.

Reviewed By: aw



Results for Semivolatiles
by GCMS 625

Client Sample ID: USTAS843-MW01
Client Project ID: CTO 0015
Lab Sample ID: G650-66-11
Lab Project ID: G650-66

Analyzed By: MRC
Date Collected: 7/5/2006 13:20
Date Received: 7/7/2006
Date Extracted: 7/12/2006
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	7/19/2006	
Acenaphthylene	BQL	10.0	1.12	1	7/19/2006	
Anthracene	BQL	10.0	1.75	1	7/19/2006	
Benzo[a]anthracene	BQL	10.0	1.36	1	7/19/2006	
Benzo[a]pyrene	BQL	10.0	1.27	1	7/19/2006	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	7/19/2006	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	7/19/2006	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	7/19/2006	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	7/19/2006	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	7/19/2006	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	7/19/2006	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	7/19/2006	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	7/19/2006	
Butylbenzylphthalate	BQL	10.0	1.53	1	7/19/2006	
2-Chloronaphthalene	BQL	10.0	1.25	1	7/19/2006	
2-Chlorophenol	BQL	10.0	4.22	1	7/19/2006	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	7/19/2006	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	7/19/2006	
Chrysene	BQL	10.0	1.11	1	7/19/2006	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	7/19/2006	
Di-n-Butylphthalate	BQL	10.0	1.65	1	7/19/2006	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	7/19/2006	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	7/19/2006	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	7/19/2006	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	7/19/2006	
2,4-Dichlorophenol	BQL	10.0	3.75	1	7/19/2006	
Diethylphthalate	BQL	10.0	1.48	1	7/19/2006	
Dimethylphthalate	BQL	10.0	1.04	1	7/19/2006	
2,4-Dimethylphenol	BQL	10.0	9.25	1	7/19/2006	
Di-n-octylphthalate	BQL	10.0	1.16	1	7/19/2006	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	7/19/2006	
2,4-Dinitrophenol	BQL	50.0	4.20	1	7/19/2006	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	7/19/2006	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	7/19/2006	
Diphenylamine *	BQL	10.0	1.53	1	7/19/2006	
Fluoranthene	BQL	10.0	1.41	1	7/19/2006	
Fluorene	BQL	10.0	1.22	1	7/19/2006	
Hexachlorobenzene	BQL	10.0	1.22	1	7/19/2006	
Hexachlorobutadiene	BQL	10.0	1.58	1	7/19/2006	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	7/19/2006	
Hexachloroethane	BQL	10.0	1.58	1	7/19/2006	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	7/19/2006	
Isophorone	BQL	10.0	1.27	1	7/19/2006	
Naphthalene	BQL	10.0	1.08	1	7/19/2006	



Results for Semivolatiles
by GCMS 625

Client Sample ID: USTAS843-MW01
Client Project ID: CTO 0015
Lab Sample ID: G650-66-11
Lab Project ID: G650-66

Analyzed By: MRC
Date Collected: 7/5/2006 13:20
Date Received: 7/7/2006
Date Extracted: 7/12/2006
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Nitrobenzene	BQL	10.0	1.32	1	7/19/2006	
2-Nitrophenol	BQL	10.0	3.52	1	7/19/2006	
4-Nitrophenol	BQL	50.0	3.17	1	7/19/2006	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	7/19/2006	
Pentachlorophenol	BQL	50.0	2.83	1	7/19/2006	
Phenanthrene	BQL	10.0	1.38	1	7/19/2006	
Phenol	BQL	10.0	3.38	1	7/19/2006	
Pyrene	BQL	10.0	2.08	1	7/19/2006	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	7/19/2006	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	7/19/2006	

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	8.8	88
2-Fluorophenol	10	8.7	87
Nitrobenzene-d5	10	11.4	114
Phenol-d6	10	8.9	89
2,4,6-Tribromophenol	10	11.9	119
4-Terphenyl-d14	10	9.5	95

Comments:

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

Flags:

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By: RW



Results of Library Search for Semivolatile Compounds
by GCMS

Client Sample ID: USTAS843-MW01
Client Project ID: CTO 0015
Lab Sample ID: G650-66-11
Lab Project ID: G650-66
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: MRC
Date Collected: 7/5/2006 13:20
Date Received: 7/7/2006
Date Extracted: 7/12/2006
Date Analyzed: 7/19/2006
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Unknown	21.48			11.8
2	Unknown	20.55			8.43
3					
4					
5					
6					
7					
8					
9					
10					

Comment:

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

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

Reviewed by:



Results for Semivolatiles
by GCMS 625

Client Sample ID: USTAS843-MW02
Client Project ID: CTO 0015
Lab Sample ID: G650-66-2I
Lab Project ID: G650-66

Analyzed By: MRC
Date Collected: 7/5/2006 15:10
Date Received: 7/7/2006
Date Extracted: 7/12/2006
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	2.00	10.0	1.22	1	7/19/2006	J
Acenaphthylene	BQL	10.0	1.12	1	7/19/2006	
Anthracene	BQL	10.0	1.75	1	7/19/2006	
Benzo[a]anthracene	BQL	10.0	1.36	1	7/19/2006	
Benzo[a]pyrene	BQL	10.0	1.27	1	7/19/2006	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	7/19/2006	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	7/19/2006	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	7/19/2006	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	7/19/2006	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	7/19/2006	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	7/19/2006	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	7/19/2006	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	7/19/2006	
Butylbenzylphthalate	BQL	10.0	1.53	1	7/19/2006	
2-Chloronaphthalene	BQL	10.0	1.25	1	7/19/2006	
2-Chlorophenol	BQL	10.0	4.22	1	7/19/2006	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	7/19/2006	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	7/19/2006	
Chrysene	BQL	10.0	1.11	1	7/19/2006	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	7/19/2006	
Di-n-Butylphthalate	BQL	10.0	1.65	1	7/19/2006	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	7/19/2006	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	7/19/2006	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	7/19/2006	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	7/19/2006	
2,4-Dichlorophenol	BQL	10.0	3.75	1	7/19/2006	
Diethylphthalate	BQL	10.0	1.48	1	7/19/2006	
Dimethylphthalate	BQL	10.0	1.04	1	7/19/2006	
2,4-Dimethylphenol	BQL	10.0	9.25	1	7/19/2006	
Di-n-octylphthalate	BQL	10.0	1.16	1	7/19/2006	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	7/19/2006	
2,4-Dinitrophenol	BQL	50.0	4.20	1	7/19/2006	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	7/19/2006	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	7/19/2006	
Diphenylamine *	BQL	10.0	1.53	1	7/19/2006	
Fluoranthene	BQL	10.0	1.41	1	7/19/2006	
Fluorene	BQL	10.0	1.22	1	7/19/2006	
Hexachlorobenzene	BQL	10.0	1.22	1	7/19/2006	
Hexachlorobutadiene	BQL	10.0	1.58	1	7/19/2006	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	7/19/2006	
Hexachloroethane	BQL	10.0	1.58	1	7/19/2006	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	7/19/2006	
Isophorone	BQL	10.0	1.27	1	7/19/2006	
Naphthalene	BQL	10.0	1.08	1	7/19/2006	



Results for Semivolatiles
by GCMS 625

Client Sample ID: USTAS843-MW02
Client Project ID: CTO 0015
Lab Sample ID: G650-66-2I
Lab Project ID: G650-66

Analyzed By: MRC
Date Collected: 7/5/2006 15:10
Date Received: 7/7/2006
Date Extracted: 7/12/2006
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Nitrobenzene	BQL	10.0	1.32	1	7/19/2006	
2-Nitrophenol	BQL	10.0	3.52	1	7/19/2006	
4-Nitrophenol	BQL	50.0	3.17	1	7/19/2006	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	7/19/2006	
Pentachlorophenol	BQL	50.0	2.83	1	7/19/2006	
Phenanthrene	BQL	10.0	1.38	1	7/19/2006	
Phenol	BQL	10.0	3.38	1	7/19/2006	
Pyrene	BQL	10.0	2.08	1	7/19/2006	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	7/19/2006	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	7/19/2006	

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	8.2	82
2-Fluorophenol	10	8.4	84
Nitrobenzene-d5	10	10.9	109
Phenol-d6	10	8.7	87
2,4,6-Tribromophenol	10	11.4	114
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: USTAS843-MW02
Client Project ID: CTO 0015
Lab Sample ID: G650-66-2I
Lab Project ID: G650-66
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: MRC
Date Collected: 7/5/2006 15:10
Date Received: 7/7/2006
Date Extracted: 7/12/2006
Date Analyzed: 7/19/2006
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Methylbenzenesulfonamide, Isomer of	12.97			8.02
2					
3					
4					
5					
6					
7					
8					
9					
10					

Comment:

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

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

Reviewed by: *RM*



Results for Semivolatiles
by GCMS 625

Client Sample ID: USTAS843-MW03
Client Project ID: CTO 0015
Lab Sample ID: G650-66-3I
Lab Project ID: G650-66

Analyzed By: MRC
Date Collected: 7/6/2006 10:08
Date Received: 7/7/2006
Date Extracted: 7/12/2006
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	4.10	10.0	1.22	1	7/19/2006	J
Acenaphthylene	BQL	10.0	1.12	1	7/19/2006	
Anthracene	BQL	10.0	1.75	1	7/19/2006	
Benzo[a]anthracene	BQL	10.0	1.36	1	7/19/2006	
Benzo[a]pyrene	BQL	10.0	1.27	1	7/19/2006	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	7/19/2006	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	7/19/2006	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	7/19/2006	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	7/19/2006	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	7/19/2006	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	7/19/2006	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	7/19/2006	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	7/19/2006	
Butylbenzylphthalate	BQL	10.0	1.53	1	7/19/2006	
2-Chloronaphthalene	BQL	10.0	1.25	1	7/19/2006	
2-Chlorophenol	BQL	10.0	4.22	1	7/19/2006	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	7/19/2006	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	7/19/2006	
Chrysene	BQL	10.0	1.11	1	7/19/2006	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	7/19/2006	
Di-n-Butylphthalate	BQL	10.0	1.65	1	7/19/2006	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	7/19/2006	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	7/19/2006	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	7/19/2006	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	7/19/2006	
2,4-Dichlorophenol	BQL	10.0	3.75	1	7/19/2006	
Diethylphthalate	BQL	10.0	1.48	1	7/19/2006	
Dimethylphthalate	BQL	10.0	1.04	1	7/19/2006	
2,4-Dimethylphenol	BQL	10.0	9.25	1	7/19/2006	
Di-n-octylphthalate	BQL	10.0	1.16	1	7/19/2006	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	7/19/2006	
2,4-Dinitrophenol	BQL	50.0	4.20	1	7/19/2006	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	7/19/2006	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	7/19/2006	
Diphenylamine *	BQL	10.0	1.53	1	7/19/2006	
Fluoranthene	BQL	10.0	1.41	1	7/19/2006	
Fluorene	4.40	10.0	1.22	1	7/19/2006	J
Hexachlorobenzene	BQL	10.0	1.22	1	7/19/2006	
Hexachlorobutadiene	BQL	10.0	1.58	1	7/19/2006	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	7/19/2006	
Hexachloroethane	BQL	10.0	1.58	1	7/19/2006	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	7/19/2006	
Isophorone	BQL	10.0	1.27	1	7/19/2006	
Naphthalene	12.3	10.0	1.08	1	7/19/2006	



Results for Semivolatiles
by GCMS 625

Client Sample ID: USTAS843-MW03
Client Project ID: CTO 0015
Lab Sample ID: G650-66-31
Lab Project ID: G650-66

Analyzed By: MRC
Date Collected: 7/6/2006 10:08
Date Received: 7/7/2006
Date Extracted: 7/12/2006
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Nitrobenzene	BQL	10.0	1.32	1	7/19/2006	
2-Nitrophenol	BQL	10.0	3.52	1	7/19/2006	
4-Nitrophenol	BQL	50.0	3.17	1	7/19/2006	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	7/19/2006	
Pentachlorophenol	BQL	50.0	2.83	1	7/19/2006	
Phenanthrene	BQL	10.0	1.38	1	7/19/2006	
Phenol	BQL	10.0	3.38	1	7/19/2006	
Pyrene	BQL	10.0	2.08	1	7/19/2006	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	7/19/2006	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	7/19/2006	

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	8.1	81
2-Fluorophenol	10	7.5	75
Nitrobenzene-d5	10	10.7	106
Phenol-d6	10	8.6	86
2,4,6-Tribromophenol	10	11.5	115
4-Terphenyl-d14	10	10.6	106

Comments:

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

Flags:

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By: RP



Results of Library Search for Semivolatile Compounds
by GCMS

Client Sample ID: USTAS843-MW03
Client Project ID: CTO 0015
Lab Sample ID: G650-66-3I
Lab Project ID: G650-66
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: MRC
Date Collected: 7/6/2006 10:08
Date Received: 7/7/2006
Date Extracted: 7/12/2006
Date Analyzed: 7/19/2006
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Ethenyldimethylbenzene, Isomer of	8.36	000090-12-0	99	17.4
2	Propenylbenzene, Isomer of	7.09			17.3
3	1-Methylnaphthalene	10.03			16.5
4	Dimethylnaphthalene, Isomer of	11.01			14.6
5	Dimethylnaphthalene, Isomer of	10.89			12.6
6	Alkane, Unknown	13.14			11.4
7	Tetrahydromethylnaphthalene, Isomer of	9.80			8.3
8	Dimethylnaphthalene, Isomer of	11.32			8.22
9	Aromatic, Unknown	8.85			7.99
10	Aromatic, Unknown	9.51			7.64

Comment:

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

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

Reviewed by: RM



Results for Semivolatiles
by GCMS 625

Client Sample ID: USTAS843-MW04
Client Project ID: CTO 0015
Lab Sample ID: G650-66-41
Lab Project ID: G650-66

Analyzed By: MRC
Date Collected: 7/6/2006 11:15
Date Received: 7/7/2006
Date Extracted: 7/12/2006
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	7/19/2006	
Acenaphthylene	BQL	10.0	1.12	1	7/19/2006	
Anthracene	BQL	10.0	1.75	1	7/19/2006	
Benzo[a]anthracene	BQL	10.0	1.36	1	7/19/2006	
Benzo[a]pyrene	BQL	10.0	1.27	1	7/19/2006	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	7/19/2006	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	7/19/2006	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	7/19/2006	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	7/19/2006	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	7/19/2006	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	7/19/2006	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	7/19/2006	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	7/19/2006	
Butylbenzylphthalate	BQL	10.0	1.53	1	7/19/2006	
2-Chloronaphthalene	BQL	10.0	1.25	1	7/19/2006	
2-Chlorophenol	BQL	10.0	4.22	1	7/19/2006	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	7/19/2006	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	7/19/2006	
Chrysene	BQL	10.0	1.11	1	7/19/2006	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	7/19/2006	
Di-n-Butylphthalate	BQL	10.0	1.65	1	7/19/2006	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	7/19/2006	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	7/19/2006	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	7/19/2006	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	7/19/2006	
2,4-Dichlorophenol	BQL	10.0	3.75	1	7/19/2006	
Diethylphthalate	BQL	10.0	1.48	1	7/19/2006	
Dimethylphthalate	BQL	10.0	1.04	1	7/19/2006	
2,4-Dimethylphenol	BQL	10.0	9.25	1	7/19/2006	
Di-n-octylphthalate	BQL	10.0	1.16	1	7/19/2006	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	7/19/2006	
2,4-Dinitrophenol	BQL	50.0	4.20	1	7/19/2006	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	7/19/2006	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	7/19/2006	
Diphenylamine *	BQL	10.0	1.53	1	7/19/2006	
Fluoranthene	BQL	10.0	1.41	1	7/19/2006	
Fluorene	1.90	10.0	1.22	1	7/19/2006	J
Hexachlorobenzene	BQL	10.0	1.22	1	7/19/2006	
Hexachlorobutadiene	BQL	10.0	1.58	1	7/19/2006	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	7/19/2006	
Hexachloroethane	BQL	10.0	1.58	1	7/19/2006	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	7/19/2006	
Isophorone	BQL	10.0	1.27	1	7/19/2006	
Naphthalene	BQL	10.0	1.08	1	7/19/2006	



Results for Semivolatiles
by GCMS 625

Client Sample ID: USTAS843-MW04
Client Project ID: CTO 0015
Lab Sample ID: G650-66-4I
Lab Project ID: G650-66

Analyzed By: MRC
Date Collected: 7/6/2006 11:15
Date Received: 7/7/2006
Date Extracted: 7/12/2006
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Nitrobenzene	BQL	10.0	1.32	1	7/19/2006	
2-Nitrophenol	BQL	10.0	3.52	1	7/19/2006	
4-Nitrophenol	BQL	50.0	3.17	1	7/19/2006	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	7/19/2006	
Pentachlorophenol	BQL	50.0	2.83	1	7/19/2006	
Phenanthrene	2.10	10.0	1.38	1	7/19/2006	J
Phenol	BQL	10.0	3.38	1	7/19/2006	
Pyrene	BQL	10.0	2.08	1	7/19/2006	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	7/19/2006	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	7/19/2006	

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	7	70
2-Fluorophenol	10	8	80
Nitrobenzene-d5	10	10.5	105
Phenol-d6	10	8.4	84
2,4,6-Tribromophenol	10	9.6	96
4-Terphenyl-d14	10	8.7	87

Comments:

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

Flags:

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By: SW



Results of Library Search for Semivolatile Compounds
by GCMS

Client Sample ID: USTAS843-MW04
Client Project ID: CTO 0015
Lab Sample ID: G650-66-4I
Lab Project ID: G650-66
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: MRC
Date Collected: 7/6/2006 11:15
Date Received: 7/7/2006
Date Extracted: 7/12/2006
Date Analyzed: 7/19/2006
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Alkane, Unknown	13.15			16.8
2	Alkane, Unknown	11.21			9.46
3	Unknown	12.71			8.94
4	Ethyldimethylbenzene, Isomer of	8.36			6.6
5	Trimethylnaphthalene, Isomer of	12.08			5.15
6	Propenylbenzene, Isomer of	7.09			5.09
7	Unknown	9.51			4.98
8	Dimethylnaphthalene, Isomer of	11.32			4.56
9	Tetrahydronaphthalene, Isomer of	9.80			4.21
10	Unknown	11.07			4.05

Comment:

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

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

Reviewed by: RW



Results for Semivolatiles
by GCMS 625

Client Sample ID: USTAS843-MW05
Client Project ID: CTO 0015
Lab Sample ID: G650-66-5I
Lab Project ID: G650-66

Analyzed By: MRC
Date Collected: 7/5/2006 14:35
Date Received: 7/7/2006
Date Extracted: 7/12/2006
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	7/19/2006	
Acenaphthylene	BQL	10.0	1.12	1	7/19/2006	
Anthracene	BQL	10.0	1.75	1	7/19/2006	
Benzo[a]anthracene	BQL	10.0	1.36	1	7/19/2006	
Benzo[a]pyrene	BQL	10.0	1.27	1	7/19/2006	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	7/19/2006	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	7/19/2006	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	7/19/2006	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	7/19/2006	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	7/19/2006	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	7/19/2006	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	7/19/2006	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	7/19/2006	
Butylbenzylphthalate	BQL	10.0	1.53	1	7/19/2006	
2-Chloronaphthalene	BQL	10.0	1.25	1	7/19/2006	
2-Chlorophenol	BQL	10.0	4.22	1	7/19/2006	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	7/19/2006	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	7/19/2006	
Chrysene	BQL	10.0	1.11	1	7/19/2006	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	7/19/2006	
Di-n-Butylphthalate	BQL	10.0	1.65	1	7/19/2006	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	7/19/2006	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	7/19/2006	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	7/19/2006	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	7/19/2006	
2,4-Dichlorophenol	BQL	10.0	3.75	1	7/19/2006	
Diethylphthalate	BQL	10.0	1.48	1	7/19/2006	
Dimethylphthalate	BQL	10.0	1.04	1	7/19/2006	
2,4-Dimethylphenol	BQL	10.0	9.25	1	7/19/2006	
Di-n-octylphthalate	BQL	10.0	1.16	1	7/19/2006	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	7/19/2006	
2,4-Dinitrophenol	BQL	50.0	4.20	1	7/19/2006	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	7/19/2006	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	7/19/2006	
Diphenylamine *	BQL	10.0	1.53	1	7/19/2006	
Fluoranthene	BQL	10.0	1.41	1	7/19/2006	
Fluorene	BQL	10.0	1.22	1	7/19/2006	
Hexachlorobenzene	BQL	10.0	1.22	1	7/19/2006	
Hexachlorobutadiene	BQL	10.0	1.58	1	7/19/2006	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	7/19/2006	
Hexachloroethane	BQL	10.0	1.58	1	7/19/2006	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	7/19/2006	
Isophorone	BQL	10.0	1.27	1	7/19/2006	
Naphthalene	9.50	10.0	1.08	1	7/19/2006	J



Results for Semivolatiles
by GCMS 625

Client Sample ID: USTAS843-MW05
Client Project ID: CTO 0015
Lab Sample ID: G650-66-51
Lab Project ID: G650-66

Analyzed By: MRC
Date Collected: 7/5/2006 14:35
Date Received: 7/7/2006
Date Extracted: 7/12/2006
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Nitrobenzene	BQL	10.0	1.32	1	7/19/2006	
2-Nitrophenol	BQL	10.0	3.52	1	7/19/2006	
4-Nitrophenol	BQL	50.0	3.17	1	7/19/2006	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	7/19/2006	
Pentachlorophenol	BQL	50.0	2.83	1	7/19/2006	
Phenanthrene	BQL	10.0	1.38	1	7/19/2006	
Phenol	BQL	10.0	3.38	1	7/19/2006	
Pyrene	BQL	10.0	2.08	1	7/19/2006	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	7/19/2006	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	7/19/2006	

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	8.1	81
2-Fluorophenol	10	8	80
Nitrobenzene-d5	10	11	110
Phenol-d6	10	8.4	84
2,4,6-Tribromophenol	10	10.8	108
4-Terphenyl-d14	10	9.8	98

Comments:

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

Flags:

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By: RNP



Results of Library Search for Semivolatile Compounds
by GCMS

Client Sample ID: USTAS843-MW05
Client Project ID: CTO 0015
Lab Sample ID: G650-66-5I
Lab Project ID: G650-66
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: MRC
Date Collected: 7/5/2006 14:35
Date Received: 7/7/2006
Date Extracted: 7/12/2006
Date Analyzed: 7/19/2006
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Ethynylmethylbenzene, Isomer of	7.21			8.63
2	Unknown	6.01			4.53
3					
4					
5					
6					
7					
8					
9					
10					

Comment:

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

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

Reviewed by:



Results for Semivolatiles
by GCMS 625

Client Sample ID: USTAS843-Duplicate
Client Project ID: CTO 0015
Lab Sample ID: G650-66-6K
Lab Project ID: G650-66

Analyzed By: MRC
Date Collected: 7/6/2006 0:00
Date Received: 7/7/2006
Date Extracted: 7/12/2006
Matrix: Water

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	3.80	10.0	1.22	1	7/19/2006	J
Acenaphthylene	BQL	10.0	1.12	1	7/19/2006	
Anthracene	BQL	10.0	1.75	1	7/19/2006	
Benzo[a]anthracene	BQL	10.0	1.36	1	7/19/2006	
Benzo[a]pyrene	BQL	10.0	1.27	1	7/19/2006	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	7/19/2006	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	7/19/2006	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	7/19/2006	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	7/19/2006	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	7/19/2006	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	7/19/2006	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	7/19/2006	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	7/19/2006	
Butylbenzylphthalate	BQL	10.0	1.53	1	7/19/2006	
2-Chloronaphthalene	BQL	10.0	1.25	1	7/19/2006	
2-Chlorophenol	BQL	10.0	4.22	1	7/19/2006	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	7/19/2006	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	7/19/2006	
Chrysene	BQL	10.0	1.11	1	7/19/2006	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	7/19/2006	
Di-n-Butylphthalate	BQL	10.0	1.65	1	7/19/2006	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	7/19/2006	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	7/19/2006	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	7/19/2006	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	7/19/2006	
2,4-Dichlorophenol	BQL	10.0	3.75	1	7/19/2006	
Diethylphthalate	BQL	10.0	1.48	1	7/19/2006	
Dimethylphthalate	BQL	10.0	1.04	1	7/19/2006	
2,4-Dimethylphenol	BQL	10.0	9.25	1	7/19/2006	
Di-n-octylphthalate	BQL	10.0	1.16	1	7/19/2006	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	7/19/2006	
2,4-Dinitrophenol	BQL	50.0	4.20	1	7/19/2006	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	7/19/2006	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	7/19/2006	
Diphenylamine *	BQL	10.0	1.53	1	7/19/2006	
Fluoranthene	BQL	10.0	1.41	1	7/19/2006	
Fluorene	3.90	10.0	1.22	1	7/19/2006	J
Hexachlorobenzene	BQL	10.0	1.22	1	7/19/2006	
Hexachlorobutadiene	BQL	10.0	1.58	1	7/19/2006	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	7/19/2006	
Hexachloroethane	BQL	10.0	1.58	1	7/19/2006	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	7/19/2006	
Isophorone	BQL	10.0	1.27	1	7/19/2006	
Naphthalene	11.1	10.0	1.08	1	7/19/2006	



Results for Semivolatiles
by GCMS 625

Client Sample ID: USTAS843-Duplicate
Client Project ID: CTO 0015
Lab Sample ID: G650-66-6K
Lab Project ID: G650-66

Analyzed By: MRC
Date Collected: 7/6/2006 0:00
Date Received: 7/7/2006
Date Extracted: 7/12/2006
Matrix: Water

Compound	Result	RL	MDL	Dilution	Date	Flag
	ug/L	ug/L	ug/L	Factor	Analyzed	
Nitrobenzene	BQL	10.0	1.32	1	7/19/2006	
2-Nitrophenol	BQL	10.0	3.52	1	7/19/2006	
4-Nitrophenol	BQL	50.0	3.17	1	7/19/2006	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	7/19/2006	
Pentachlorophenol	BQL	50.0	2.83	1	7/19/2006	
Phenanthrene	BQL	10.0	1.38	1	7/19/2006	
Phenol	BQL	10.0	3.38	1	7/19/2006	
Pyrene	BQL	10.0	2.08	1	7/19/2006	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	7/19/2006	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	7/19/2006	

	Spike	Spike	Percent
	Added	Result	Recovered
2-Fluorobiphenyl	10	6.7	67
2-Fluorophenol	10	7.1	71
Nitrobenzene-d5	10	10.5	105
Phenol-d6	10	7.6	76
2,4,6-Tribromophenol	10	10.5	105
4-Terphenyl-d14	10	8.8	88

Comments:

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

Flags:

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By: RW



Results of Library Search for Semivolatile Compounds
by GCMS

Client Sample ID: USTAS843-Duplicate
Client Project ID: CTO 0015
Lab Sample ID: G650-66-6K
Lab Project ID: G650-66
Sample Wt/Vol: 500 ML
Dilution: 1

Analyzed By: MRC
Date Collected: 7/6/2006 0:00
Date Received: 7/7/2006
Date Extracted: 7/12/2006
Date Analyzed: 7/19/2006
Matrix: Water

No.	Compound	Retention Time	CAS#	Match Probability	Result (ug/L)
1	Dihydromethylindene, Isomer of	8.36	000090-12-0	96	16.6
2	Propenylbenzene, Isomer of	7.09			16.1
3	Alkane, Unknown	13.15			12.6
4	1-Methylnaphthalene	10.03			11.9
5	Trimethylnaphthalene, Isomer of	12.07			11.5
6	Dimethylnaphthalene, Isomer of	11.01			9.65
7	Unknown	10.89			9.36
8	Alkane, Unknown	12.71			9.29
9	Tetrahydromethylnaphthalene, Isomer of	9.51			8.58
10	Aromatic, Unknown	8.85			8.14

Comment:

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

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

Reviewed by:



Results for Semivolatiles
by GCMS 625

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID: PB5679
Lab Project ID:

Analyzed By: MRC
Date Collected:
Date Received:
Date Extracted: 7/12/2006
Matrix: WATER

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Acenaphthene	BQL	10.0	1.22	1	7/18/2006	
Acenaphthylene	BQL	10.0	1.12	1	7/18/2006	
Anthracene	BQL	10.0	1.75	1	7/18/2006	
Benzo[a]anthracene	BQL	10.0	1.36	1	7/18/2006	
Benzo[a]pyrene	BQL	10.0	1.27	1	7/18/2006	
Benzo[b]fluoranthene	BQL	10.0	1.43	1	7/18/2006	
Benzo[g,h,i]perylene	BQL	10.0	4.57	1	7/18/2006	
Benzo[k]fluoranthene	BQL	10.0	1.09	1	7/18/2006	
Bis(2-chloroethoxy)methane	BQL	10.0	1.11	1	7/18/2006	
Bis(2-chloroethyl)ether	BQL	10.0	1.09	1	7/18/2006	
Bis(2-chloroisopropyl)ether	BQL	10.0	1.57	1	7/18/2006	
Bis(2-ethylhexyl)phthalate	BQL	10.0	1.33	1	7/18/2006	
4-bromophenyl phenyl ether	BQL	10.0	1.99	1	7/18/2006	
Butylbenzylphthalate	BQL	10.0	1.53	1	7/18/2006	
2-Chloronaphthalene	BQL	10.0	1.25	1	7/18/2006	
2-Chlorophenol	BQL	10.0	4.22	1	7/18/2006	
4-Chloro-3-methylphenol	BQL	10.0	3.26	1	7/18/2006	
4-Chlorophenyl phenyl ether	BQL	10.0	1.42	1	7/18/2006	
Chrysene	BQL	10.0	1.11	1	7/18/2006	
Dibenzo[a,h]anthracene	BQL	10.0	4.87	1	7/18/2006	
Di-n-Butylphthalate	BQL	10.0	1.65	1	7/18/2006	
1,2-Dichlorobenzene	BQL	10.0	1.25	1	7/18/2006	
1,3-Dichlorobenzene	BQL	10.0	1.24	1	7/18/2006	
1,4-Dichlorobenzene	BQL	10.0	1.20	1	7/18/2006	
3,3'-Dichlorobenzidine	BQL	20.0	4.10	1	7/18/2006	
2,4-Dichlorophenol	BQL	10.0	3.75	1	7/18/2006	
Diethylphthalate	BQL	10.0	1.48	1	7/18/2006	
Dimethylphthalate	BQL	10.0	1.04	1	7/18/2006	
2,4-Dimethylphenol	BQL	10.0	9.25	1	7/18/2006	
Di-n-octylphthalate	BQL	10.0	1.16	1	7/18/2006	
4,6-Dinitro-2-methylphenol	BQL	50.0	3.71	1	7/18/2006	
2,4-Dinitrophenol	BQL	50.0	4.20	1	7/18/2006	
2,4-Dinitrotoluene	BQL	10.0	1.52	1	7/18/2006	
2,6-Dinitrotoluene	BQL	10.0	1.41	1	7/18/2006	
Diphenylamine *	BQL	10.0	1.53	1	7/18/2006	
Fluoranthene	BQL	10.0	1.41	1	7/18/2006	
Fluorene	BQL	10.0	1.22	1	7/18/2006	
Hexachlorobenzene	BQL	10.0	1.22	1	7/18/2006	
Hexachlorobutadiene	BQL	10.0	1.58	1	7/18/2006	
Hexachlorocyclopentadiene	BQL	20.0	20.0	1	7/18/2006	
Hexachloroethane	BQL	10.0	1.58	1	7/18/2006	
Indeno(1,2,3-c,d)pyrene	BQL	10.0	4.57	1	7/18/2006	
Isophorone	BQL	10.0	1.27	1	7/18/2006	
Naphthalene	BQL	10.0	1.08	1	7/18/2006	



Results for Semivolatiles
by GCMS 625

Client Sample ID: Method Blank
Client Project ID:
Lab Sample ID: PB5679
Lab Project ID:

Analyzed By: MRC
Date Collected:
Date Received:
Date Extracted: 7/12/2006
Matrix: WATER

Compound	Result ug/L	RL ug/L	MDL ug/L	Dilution Factor	Date Analyzed	Flag
Nitrobenzene	BQL	10.0	1.32	1	7/18/2006	
2-Nitrophenol	BQL	10.0	3.52	1	7/18/2006	
4-Nitrophenol	BQL	50.0	3.17	1	7/18/2006	
N-Nitrosodi-n-propylamine	BQL	10.0	1.87	1	7/18/2006	
Pentachlorophenol	BQL	50.0	2.83	1	7/18/2006	
Phenanthrene	BQL	10.0	1.38	1	7/18/2006	
Phenol	BQL	10.0	3.38	1	7/18/2006	
Pyrene	BQL	10.0	2.08	1	7/18/2006	
1,2,4-Trichlorobenzene	BQL	10.0	1.33	1	7/18/2006	
2,4,6-Trichlorophenol	BQL	10.0	2.92	1	7/18/2006	

	Spike Added	Spike Result	Percent Recovered
2-Fluorobiphenyl	10	7.5	75
2-Fluorophenol	10	8.4	84
Nitrobenzene-d5	10	9.6	96
Phenol-d6	10	8.7	87
2,4,6-Tribromophenol	10	8.8	88
4-Terphenyl-d14	10	8.8	88

Comments:

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

Flags:

BQL = Below Quantitation Limits.

J = Detected below the quantitation limit.

Reviewed By: Rd



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

Client Sample ID: Batch QC

Client Project ID:

Lab Sample ID: Batch-5679-MS/MSD/LCS

Lab Project ID:

Matrix: WATER

Prep Method: 3520

Date Collected:

Date Received:

Date Extracted: 7/121

Date Analyzed: 07/19/06

Analyzed By: MRC

Dilution: 1

	Sample Amount (µg/L)	MS Spike (µg/L)	MS Conc. (µg/L)	MS Spike % Rec.	MSD Spike (µg/L)	MSD Conc. (µg/L)	MSD Conc. % Rec.	RPD	QC Limits	
									RPD	% Rec.
Acenaphthylene	BQL	217	198	91.2	217	186	85.6	6.33	30	62.0-119
4-Chloro-3-methylphenol	BQL	217	218	100	217	203	93.5	7.02	30	67.0-109
2-Chlorophenol	BQL	217	190	87.4	217	185	84.9	2.90	30	59.0-95.0
1,4-Dichlorobenzene	BQL	217	90.2	41.5	217	97.0	44.6	7.20	30	29.0-86.0
2,4-Dinitrotoluene	BQL	217	272	125*	217	259	119*	4.84	30	63.0-103
N-Nitrosodi-n-propylamine	BQL	217	197	90.7	217	199	91.7	1.10	30	67.0-107
4-Nitrophenol	BQL	217	197	90.6	217	184	84.7	6.73	30	49.0-146
Pentachlorophenol	BQL	217	225	104	217	206	94.8	8.87	30	43.0-106
Phenol	BQL	217	185	85.3	217	179	82.4	3.46	30	61.0-100
Pyrene	BQL	217	231	106	217	186	85.6	21.4	30	41.0-123
1,2,4-Trichlorobenzene	BQL	217	159	73.0	217	141	64.9	11.7	30	41.0-96.0

	Spiked Amount (µg/L)	LCS Conc. (µg/L)	LCS Spike %	QC Limits % Rec.
Acenaphthylene	100	88.9	88.9	72.9-127
4-Chloro-3-methylphenol	100	101	101	61.6-113
2-Chlorophenol	100	84.2	84.2	52.3-104
1,4-Dichlorobenzene	100	44.5	44.5	27.3-85.0
2,4-Dinitrotoluene	100	126	126*	66.5-117
N-Nitrosodi-n-propylamine	100	95.0	95.0	54.4-119
4-Nitrophenol	100	99.1	99.1	32.4-150
Pentachlorophenol	100	99.2	99.2	23.9-115
Phenol	100	82.9	82.9	54.5-106
Pyrene	100	99.1	99.1	63.5-126
1,2,4-Trichlorobenzene	100	72.4	72.4	49.1-98.5

Comments:

Concentrations reflect the spiked sample amounts.

Flags:

* = Out of limits.

NA = Not applicable.

Reviewed By: ed



VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Sovereign Consulting

Project Name: CTO 0015

Sample Information and Analytical Results	
Sample Identification	USTAS843-MW01
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	07/05/06
Date Received	07/07/06
Date Extracted	07/19/06
Date Analyzed	07/19/06
Dry Weight	
Dilution Factor	1
C ₅ -C ₈ Aliphatics**	< 100 (µg/L)
C ₉ -C ₁₂ Aliphatics**	< 100 (µg/L)
C ₉ -C ₁₀ Aromatics**	< 100 (µg/L)
Surrogate % Recovery - PID	100
Surrogate % Recovery - FID	100

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

** = Excludes any surrogates or internal standards.

Lab Info: G650-66-1C

Reviewed By: EW



VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Sovereign Consulting

Project Name: CTO 0015

Sample Information and Analytical Results	
Sample Identification	USTAS843-MW02
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	07/05/06
Date Received	07/07/06
Date Extracted	07/19/06
Date Analyzed	07/19/06
Dry Weight	
Dilution Factor	1
C ₅ -C ₈ Aliphatics**	< 100 (µg/L)
C ₉ -C ₁₂ Aliphatics**	< 100 (µg/L)
C ₉ -C ₁₀ Aromatics**	< 100 (µg/L)
Surrogate % Recovery - PID	99
Surrogate % Recovery - FID	97

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

** = Excludes any surrogates or internal standards.

Lab Info: G650-66-2D

Reviewed By: EW



VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Sovereign Consulting

Project Name: CTO 0015

Sample Information and Analytical Results	
Sample Identification	USTAS843-MW03
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	07/06/06
Date Received	07/07/06
Date Extracted	07/15/06
Date Analyzed	07/15/06
Dry Weight	
Dilution Factor	1
C ₅ -C ₈ Aliphatics**	< 100 (µg/L)
C ₉ -C ₁₂ Aliphatics**	< 100 (µg/L)
C ₉ -C ₁₀ Aromatics**	< 100 (µg/L)
Surrogate % Recovery - PID	86
Surrogate % Recovery - FID	100

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

** = Excludes any surrogates or internal standards.

Lab Info: G650-66-3D

Reviewed By: RL



VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Sovereign Consulting

Project Name: CTO 0015

Sample Information and Analytical Results	
Sample Identification	USTAS843-MW04
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	07/06/06
Date Received	07/07/06
Date Extracted	07/15/06
Date Analyzed	07/15/06
Dry Weight	
Dilution Factor	1
C ₅ -C ₈ Aliphatics**	< 100 (µg/L)
C ₉ -C ₁₂ Aliphatics**	< 100 (µg/L)
C ₉ -C ₁₀ Aromatics**	< 100 (µg/L)
Surrogate % Recovery - PID	84
Surrogate % Recovery - FID	97

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

** = Excludes any surrogates or internal standards.

Lab Info: G650-66-4B

Reviewed By: FW



VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Sovereign Consulting

Project Name: CTO 0015

Sample Information and Analytical Results	
Sample Identification	USTAS843-MW05
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	07/05/06
Date Received	07/07/06
Date Extracted	07/15/06
Date Analyzed	07/15/06
Dry Weight	
Dilution Factor	1
C ₅ -C ₈ Aliphatics**	< 100 (µg/L)
C ₈ -C ₁₂ Aliphatics**	< 100 (µg/L)
C ₉ -C ₁₀ Aromatics**	< 100 (µg/L)
Surrogate % Recovery - PID	84
Surrogate % Recovery - FID	97

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

** = Excludes any surrogates or internal standards.

Lab Info: G650-66-5D

Reviewed By: RVP



VPH (Aliphatics/Aromatics) Laboratory Reporting Form

Client Name: Sovereign Consulting
Project Name: CTO 0015

Sample Information and Analytical Results	
Sample Identification	USTAS843-Duplicate
Sample Matrix	Water
Collection Option (for Soil)*	
Date Collected	07/06/06
Date Received	07/07/06
Date Extracted	07/15/06
Date Analyzed	07/15/06
Dry Weight	
Dilution Factor	1
C ₅ -C ₈ Aliphatics**	< 100 (µg/L)
C ₉ -C ₁₂ Aliphatics**	< 100 (µg/L)
C ₉ -C ₁₀ Aromatics**	< 100 (µg/L)
Surrogate % Recovery - PID	85
Surrogate % Recovery - FID	99

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

** = Excludes any surrogates or internal standards.

Lab Info: G650-66-6B

Reviewed By: EW



Attachment 2

VPH Laboratory Reporting Form

Calibration and QA/QC Information

FID Initial Calibration Date: 07/19/06PID Initial Calibration Date: 07/19/06

Calibration Ranges and Limits

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

Calibration Concentration Levels

Range	Levels (µg/L)	%RSD or CCC	Method of Quantitation
C ₅ -C ₈ Aliphatics	40	1.0	Linear Regression
	1000		
	2000		
	3000		
	4000		
C ₉ -C ₁₂ Aliphatics	10	0.99	Linear Regression
	250		
	500		
	750		
	1000		
C ₉ -C ₁₀ Aromatics	10	0.99	Linear Regression
	250		
	500		
	750		
	1000		

Calibration Check Date: 07/19/06

Calibration Check

Range	Levels (µg/L) (mg/Kg)		RPD
C ₅ -C ₈ Aliphatics	2000	200	-13.8
C ₉ -C ₁₂ Aliphatics	500	50	-16.9
C ₉ -C ₁₀ Aromatics	500	50	-9.1

MDL = Method Detection Limit

ML = Minimum Limit

RL = Reportable Limit

RPD = Relative Percent Difference

%RSD = Percent Relative Standard Deviation

CCC = Correlation Coefficient of Curve



Attachment 2

VPH Laboratory Reporting Form

Calibration and QA/QC Information

FID Initial Calibration Date: 06/30/06PID Initial Calibration Date: 06/30/06

Calibration Ranges and Limits

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

Calibration Concentration Levels

Range	Levels (µg/L)	%RSD or CCC	Method of Quantitation
C ₅ -C ₈ Aliphatics	40	4.4	Calibration Factor
	1000		
	2000		
	3000		
	4000		
C ₉ -C ₁₂ Aliphatics	10	14.80	Calibration Factor
	250		
	500		
	750		
	1000		
C ₉ -C ₁₀ Aromatics	10	16.50	Calibration Factor
	250		
	500		
	750		
	1000		

Calibration Check Date: 07/14/06

Calibration Check

Range	Levels (µg/L)		RPD
	(mg/Kg)		
C ₅ -C ₈ Aliphatics	2000	200	2.8
C ₉ -C ₁₂ Aliphatics	500	50	1.0
C ₉ -C ₁₀ Aromatics	500	50	1.7

MDL = Method Detection Limit

ML = Minimum Limit

RL = Reportable Limit

RPD = Relative Percent Difference

%RSD = Percent Relative Standard Deviation

CCC = Correlation Coefficient of Curve



EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: Sovereign Consulting

Project Name: CTO 0015

Sample Information and Analytical Results	
Sample Identification	USTAS843-MW01
Sample Matrix	Water
Date Collected	07/05/06
Date Received	07/07/06
Date Extracted	07/10/06
Date Analyzed	07/13/06
Dry Weight	
Dilution Factor	1
C ₉ -C ₁₈ Aliphatics*	< 100 (ug/L)
C ₁₉ -C ₃₈ Aliphatics*	< 100 (ug/L)
C ₁₁ -C ₂₂ Aromatics*	< 100 (ug/L)
Aliphatic Surrogate % Recovery	75
Aromatic Surrogate % Recovery	67

Comments:

* = Excludes any surrogates or internal standards.

Sample did not require fractionation.

Lab Info: G650-66-1H

Reviewed By: RL



EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: Sovereign Consulting

Project Name: CTO 0015

Sample Information and Analytical Results	
Sample Identification	USTAS843-MW02
Sample Matrix	Water
Date Collected	07/05/06
Date Received	07/07/06
Date Extracted	07/10/06
Date Analyzed	07/18/06
Dry Weight	
Dilution Factor	1:1
C ₉ -C ₁₈ Aliphatics*	< 100 (ug/L)
C ₁₉ -C ₃₈ Aliphatics*	< 100 (ug/L)
C ₁₁ -C ₂₂ Aromatics*	< 100 (ug/L)
Aliphatic Surrogate % Recovery	88
Aromatic Surrogate % Recovery	82
Fractionation Surrogate 1 % Recovery	100

Comments:

* = Excludes any surrogates or internal standards.

Lab info: G650-66-2H

Reviewed By: RW



EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: Sovereign Consulting

Project Name: CTO 0015

Sample Information and Analytical Results	
Sample Identification	USTAS843-MW03
Sample Matrix	Water
Date Collected	07/06/06
Date Received	07/07/06
Date Extracted	07/10/06
Date Analyzed	07/18/06
Dry Weight	
Dilution Factor	1:1
C ₉ -C ₁₈ Aliphatics*	380 (ug/L)
C ₁₉ -C ₃₆ Aliphatics*	< 100 (ug/L)
C ₁₁ -C ₂₂ Aromatics*	320 (ug/L)
Aliphatic Surrogate % Recovery	81
Aromatic Surrogate % Recovery	79
Fractionation Surrogate 1 % Recovery	100

Comments:

* = Excludes any surrogates or internal standards.

Lab info: G650-66-3H

Reviewed By: [Signature]



EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: Sovereign Consulting

Project Name: CTO 0015

Sample Information and Analytical Results	
Sample Identification	USTAS843-MW04
Sample Matrix	Water
Date Collected	07/06/06
Date Received	07/07/06
Date Extracted	07/10/06
Date Analyzed	07/18/06
Dry Weight	
Dilution Factor	1:1
C ₉ -C ₁₈ Aliphatics*	610 (ug/L)
C ₁₉ -C ₃₈ Aliphatics*	< 100 (ug/L)
C ₁₁ -C ₂₂ Aromatics*	330 (ug/L)
Aliphatic Surrogate % Recovery	84
Aromatic Surrogate % Recovery	81
Fractionation Surrogate 1 % Recovery	100

Comments:

* = Excludes any surrogates or internal standards.

Lab info: G650-66-4H

Reviewed By: and



EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: Sovereign Consulting

Project Name: CTO 0015

Sample Information and Analytical Results	
Sample Identification	USTAS843-MW05
Sample Matrix	Water
Date Collected	07/05/06
Date Received	07/07/06
Date Extracted	07/10/06
Date Analyzed	07/13/06
Dry Weight	
Dilution Factor	1
C ₉ -C ₁₈ Aliphatics*	< 100 (ug/L)
C ₁₉ -C ₃₆ Aliphatics*	< 100 (ug/L)
C ₁₁ -C ₂₂ Aromatics*	< 100 (ug/L)
Aliphatic Surrogate % Recovery	81
Aromatic Surrogate % Recovery	69

Comments:

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

Lab info: G650-66-5H

Reviewed By: prl



EPH (Aliphatics/Aromatics) Results

by MDEP-EPH

Client Name: Sovereign Consulting

Project Name: CTO 0015

Sample Information and Analytical Results	
Sample Identification	USTAS843-Duplicate
Sample Matrix	Water
Date Collected	07/06/06
Date Received	07/07/06
Date Extracted	07/10/06
Date Analyzed	07/18/06
Dry Weight	
Dilution Factor	1:1
C ₉ -C ₁₈ Aliphatics*	260 (ug/L)
C ₁₉ -C ₃₈ Aliphatics*	< 100 (ug/L)
C ₁₁ -C ₂₂ Aromatics*	310 (ug/L)
Aliphatic Surrogate % Recovery	79
Aromatic Surrogate % Recovery	75
Fractionation Surrogate 1 % Recovery	100

Comments:

* = Excludes any surrogates or internal standards.

Lab info: G650-66-6H

Reviewed By: 2-1



Attachment 3
EPH Laboratory Reporting Form

Calibration and QA/QC Information

Initial Calibration Date: 05/31/06

Calibration Ranges and Limits

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

Calibration Concentration Levels

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

Calibration Check Date: 07/13/06

Calibration Check

Range	Levels (µg/mL)	RPD
C ₉ -C ₁₈ Aliphatics	120	16.0
C ₁₉ -C ₃₆ Aliphatics	160	0.3
C ₁₁ -C ₂₂ Aromatics	340	13.9

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

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



EPH Laboratory Reporting Form

Calibration and QA/QC Information

Initial Calibration Date: 05/31/06

Calibration Ranges and Limits

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

Calibration Concentration Levels

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

Calibration Check Date: 07/18/06

Calibration Check

Range	Levels (µg/mL)	RPD
C ₉ -C ₁₈ Aliphatics	120	23.2
C ₁₉ -C ₃₆ Aliphatics	160	14.0
C ₁₁ -C ₂₂ Aromatics	340	15.2

MDL = Method Detection Limit

ML = Minimum Limit

RL = Reportable Limit

RPD = Relative Percent Difference

%RSD = Percent Relative Standard Deviation

CCC = Correlation Coefficient of Curve



List of Reporting Abbreviations and Data Qualifiers

B = Compound also detected in batch blank

BQL = Below Quantitation Limit (RL or MDL)

DF = Dilution Factor

Dup = Duplicate

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

E = Estimated concentration, exceeds calibration range.

J = Estimated concentration, below calibration range and above MDL

LCS(D) = Laboratory Control Spike (Duplicate)

MDL = Method Detection Limit

MS(D) = Matrix Spike (Duplicate)

PQL = Practical Quantitation Limit

RL = Reporting Limit

RPD = Relative Percent Difference

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

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

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

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

% Rec = Percent Recovery

% solids = Percent Solids

Special Notes:

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



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1 CLIENT: <u>SOVEREIGN CONSULTING INC</u>					SGS Reference: <u>G650-66</u>					PAGE <u>1</u> OF <u>1</u>								
CONTACT: <u>THERESA BIERMAN</u> PHONE NO: <u>(910) 526-3941</u>																		
PROJECT: <u>CTO 0015</u> SITE/PWSID#: <u>A5843</u>																		
REPORTS TO: <u>Chris Murray</u> FAX NO: <u>757 456-5295</u>																		
INVOICE TO: <u>Chris Murray</u> QUOTE # <u>405 OAKMANS CRES</u> <u>VA Beach VA 23462</u> P.O. NUMBER																		
2																		
LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX	No CONTAINERS	SAMPLE TYPE	Preservatives Used	HCI	HCI	HCI	None							REMARKS
	USTAS843-MW01	7/5/06	1320	W	7													
	USTAS843-MW02	7/5/06	1510	↑	7													
	USTAS843-MW03	7/6/06	1008	↑	7													
	USTAS843-MW04	7/6/06	1115	↑	7													
	USTAS843-MW05	7/6/06	1435	↑	7													
	USTAS843-DUPLICATE	7/6/06		↓	7													
	TRIP BLANKS			W	2													
3																		
Collected/Relinquished By: (1) <u>[Signature]</u>					Shipping Carrier:					Samples Received Cold? (Circle) YES NO								
Date: <u>7/6/06</u>					Shipping Ticket No:					Temperature (C): <u>3.3, 4.5</u>								
Relinquished By: (2)					Special Deliverable Requirements:					Chain of Custody Seal: (Circle)								
Date: <u>7/7/06</u> Time: <u>1030</u> Received By: <u>[Signature]</u>					EDD Format					INTACT BROKEN ABSENT								
Requested By: (3)					Requested Turnaround Time and Special Instructions:					(Vids say 62100 2/7/16)								
Date: Time: Received By:					Standard Turn													
Requested By: (4)					Email Results to: <u>nhall@soncon.com</u>													
Date: Time: Received By:					EDD Format					<u>cmurray@soncon.com</u>								

SITE: AS843
Date: 4/5/01
Gauged By: TE

Gauging Interval

[illegible]

Project Number:
Project Name:
Date:
Weather:

QTO 0015
AS843.
7/5/06

Well ID:

Sample ID:

Well Condition:

MWO1
USTAS843-MWO1
day

Protective Casing Diameter (inch)

Inner Casing Diameter (inch)

Inner Casing Material:

Purge/Sample Method:

PID/FID Reading of Well Headspace (ppm)

Before Cap Removal.

After Cap Removal:

Depth to Product from TOC (feet) -

Initial Depth to Water from TOC (feet).

Product Thickness (feet):

Depth to Top of Screen from TOC (feet):

Total Depth from TOC (feet)

Water Column (feet).

Casing Volume (gal):

Pump Intake Setting from TOC (feet).

DTW After Pump Installed:

Start Purge Date/Time.

End Purge Date/Time:

Total Volume Purged (gal):

Depth to Water After Purge from TOC (feet):

Pre-Sample Depth to Water from TOC (feet):

Start Sample Date/Time:

End Sample Date/Time:

Sampler Name:

[illegible]

[illegible]

[illegible]

[illegible]

Date: 10/3/06
SITE: AS843

10/3/06
AS843

 DEPARTMENT OF HEALTH AND HUMAN SERVICES
 OFFICE OF THE SECRETARY

[illegible]

Date: 1/4/2007
SITE: AS843

if

[illegible]