

Hand delivered to NCDENR
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**FINAL SOIL SAMPLING REPORT
FOR
FC-201E
SOIL SAMPLING EVENT, SEPTEMBER 2006**

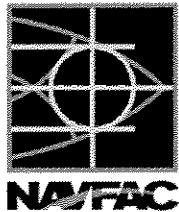
NCDENR Incident Number: 23741

Marine Corps Base
Camp Lejeune, North Carolina

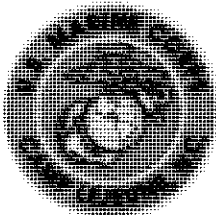
October 25, 2006

Prepared for:

Mr. David T. Cleland, P.G.
Naval Facilities Engineering Command Atlantic
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6506 Hampton Boulevard
Norfolk, Virginia 23508-1278



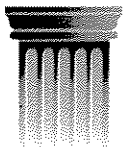
Commanding Officer
I&E/EMD/EQB (Attn: Mr. Andrew Smith)
PSC Box 20004
Marine Corps Base
Camp Lejeune, North Carolina 28542-0004



Prepared by:



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Newport News, VA 23606

*Navy Contract Number: N40085-06-D-7006
Task Order: 0001*



October 25, 2006

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

Re: FINAL Soil Sampling Report, FC-201E
North Carolina Department of Environment and Natural Resources
(NCDENR) Incident #23741
Soil Sampling Event, September 2006
Marine Corps Base (MCB) Camp Lejeune, North Carolina

Osage of Virginia (Osage) and Sovereign Consulting Inc. (Sovereign) partnered to carry out the recommendations made in the 2006 Sovereign Annual Monitoring Report for the subject site. The report recommended that MCB Camp Lejeune take soil samples from the former tank basin to demonstrate whether or not soils are below applicable maximum soil contaminant concentrations (MSCCs). One sample was taken from each sidewall and the basin center and analyzed via EPA Methods 8260 with IPE & MTBE, 8270, Total Metals, and MADEP VPH/EPH.

This work was authorized by the Naval Facilities Engineering Command Mid-Atlantic Marine Corps North Carolina IPT Division under Navy Contract N40085-06-D-7006, Task Order No. 0001. This site has been classified as low risk with industrial/commercial land use. Sampling activities at the project site show soil contamination does not exist above soil to groundwater (STGW) or residential North Carolina MSCCs. This report presents the data collected during the September 2006 sampling event.

Background

The subject site, NCDENR Incident #23741, was identified as a result of tank removal actions in 1992. The former 550-gallon waste oil tank was removed by Jones and Frank, Inc. on July 1, 1992. The underground storage tank (UST) closure report, dated September 15, 1992, did not report whether any lines were abandoned or removed, nor did it indicate if native soils were replaced into the excavation. Two soil samples were obtained from the tank excavation and analyzed for oil and grease via EPA methods 9071. Each sample was taken from approximately seven (7) feet below ground surface, and results indicated the presence of petroleum hydrocarbons at 1,800 ppm and 25,000 ppm. These tank removal soil samples were taken from within the saturated zone; therefore, the results are more reflective of groundwater conditions than true vadose zone conditions.

A Three Well Site Check was conducted by Groundwater Technology Government Services, Inc. in 1993. Soil and groundwater contamination was confirmed at the site. Law Engineering and Environmental Services (Law) subsequently performed a Comprehensive Site Assessment (CSA), dated October 10, 1994. Free product, as well as soil and groundwater contaminants were further delineated during the investigation. As a result, a Draft Corrective Action Plan (CAP) was prepared by CATLIN Engineers and Scientists, (CATLIN) in 1995. This draft report recommended the removal of free product and soil contamination via soil excavation, as well as groundwater monitoring to assess groundwater conditions.

Approximately 110 cubic yards of petroleum impacted soil in the vicinity of the former UST was removed and properly disposed of from August 19-26, 1998 by J.A. Jones Environmental Services, Inc. This work was documented only in monthly status reports to MCB Camp Lejeune. As of the preparation of this report, neither Osage nor Sovereign could locate detailed information pertaining to this removal activity, as J.A. Jones did not prepare an excavation summary report. Historical status reports indicate that monitoring well MW-03 was replaced after excavation and gauged and monitored on a regular basis.

The site has been gauged and monitored by various environmental contractors since the J.A. Jones removal action. Engineering and Environment, Inc. (EEI) provided an annual report, dated January 11, 2006, for the site. This report detailed gauging and sampling activities from November 2004 through August 2005. EEI did not detect measurable free product during any of their field events. Only two groundwater contaminants were observed above groundwater quality standards during the EEI November 2004 sampling event. Those compounds were 4-isopropyltoluene and C₉-C₂₂ Aromatics.

Sovereign conducted gauging and sampling events at the site from October 2005 through April 2006. Sovereign gauged monitoring well USTFC201E-MW03R three times and sampled the well once during the monitoring period. Well USTFC201E-MW03R historically contained free product. Gauging events were conducted on October 14, 2005, January 20, 2006, and April 5, 2006, and sampling of the well was performed during the April event. No measurable free product was detected during any of the gauging events. Groundwater elevation contours were not generated since only one well was monitored. Historical groundwater data, however, shows that the general groundwater flow is toward the north and northwest, and depth to water in the vicinity of the former tank basin ranges from 4-6 feet below land surface.

Sovereign conducted the most recent groundwater quality sampling event at the site in April 2006. The groundwater sample was tested for volatiles via EPA method 6210D, semivolatiles using EPA method 625, lead using EPA method 6010B, and volatile and extractable petroleum hydrocarbons with the Massachusetts Department of Environmental Protection (MADEP) methods. Naphthalene was the only VOC detected in the groundwater, with a concentration of 0.610 µg/L as compared to the standard of 21 µg/L. The compound, however, was not detected in the semivolatile analysis (EPA Method 625). No semi-VOCs were detected above laboratory quantitation limits. In addition, no tentatively identified compounds (TICs), lead, or chromium were detected.

Groundwater from the site exhibited MADEP constituents during the 2006 sampling event; however, none of the petroleum hydrocarbon concentrations were above the applicable NCGWQSs. The C₉-C₁₈ Aliphatics and C₁₉-C₃₆ Aliphatics were detected at concentrations of <470 µg/L and 3,500 µg/L, respectively. These concentrations are each below the 2L standards of 4,200 and 42,000 µg/L.

Since Sovereign did not detect free product at the site and groundwater contamination did not exist above applicable NCGWQSs based on the April 2006 sampling event, the annual monitoring report concluded the site is a candidate for No Further Action status. Since a report detailing the J.A. Jones soil removal could not be located, soil samples from the former tank basin were recommended to demonstrate soils are below applicable MSCCs. Sovereign recommended the collection of one sample from each sidewall and the excavation center of the former tank basin. Analyses recommended were EPA Methods 8260 with IPE & MTBE, 8270, 3050 (Total Metals – Chromium and Lead), and MADEP VPH/EPH. Osage, partnered with Sovereign, was tasked to collect the recommended soil samples and provide the results in a summary report.

Field Activities and Discussion

Field personnel conducted the soil sampling event on September 6, 2006. A geoprobe was used to collect five soil borings from which selected soil samples were obtained. Historical groundwater level measurements from the last two monitoring periods (2005 and 2006) indicate depth to groundwater ranged from 3.99 ft to 6.95 ft below land surface (bls) at the site. Field personnel measured static water levels during the September 2006 event in site monitoring wells. Measurements ranged from 5.15 ft bls – 6.83 ft bls. As a result, soil samples were chosen from the 2-3.5 ft bls interval to obtain samples most representative of vadose zone conditions. The geoprobe was decontaminated before each boring using an Alconox solution, and new, disposable latex gloves were worn for each sample acquisition. Field screening, using a PID, was also used during the sampling event.

The soil samples were packed into appropriately labeled laboratory glassware, placed on ice in an insulated cooler, and shipped under chain of custody to Accutest Laboratories in Orlando, Florida (North Carolina Laboratory Certification #573). The samples were then analyzed for the presence of volatile organic compounds, semi-volatile compounds, lead and chromium, and volatile and extractable petroleum hydrocarbons using EPA Methods 8260 + IPE & MTBE, 8270, Total Metals, MADEP VPH, and MADEP EPH. Laboratory reports and chain of custody documentation are attached.

Results

Five soil samples were collected from the former tank basin area. Laboratory analysis indicates the presence of soil contaminants at the site. All detected contaminant concentrations, however, are below the soil to groundwater maximum soil contaminant concentrations, with the exception of p-Isopropyltoluene and C₉-C₂₂ Aromatics.

EPA Method 8260 Results

Six volatile organic compounds were detected in the soil samples from the site - Methylene Chloride, Xylene (total), n-Butylbenzene, p-Isopropyltoluene, 1,2,4-Trimethylbenzene, and 1,3,5-Trimethylbenzene. Methylene Chloride was detected in each of the five samples at concentrations below the soil to groundwater MSCC. In addition to Methylene Chloride, soil sample FC201SS005 contained concentrations of Xylene (total), n-Butylbenzene, 1,2,4-Trimethylbenzene, and 1,3,5-Trimethylbenzene. Concentrations, however, were also below the applicable soil to groundwater MSCCs. The compound p-Isopropyltoluene was also detected in soil sample FC201SS005 at a concentration of 0.0141 ppm. NCDENR has not established MSCCs for this contaminant.

EPA Method 8270 Results

Laboratory analysis of the five soil samples did not indicate the presence of any EPA Method 8270 target analytes.

Total Metals – Lead and Chromium

Lead was detected in soil samples FC201SS003, FC201SS004, and FC201SS005 at concentrations of 15.3 mg/kg, 15.5 mg/kg, and 11.3 mg/kg respectively. These concentrations are well below the soil to groundwater MSCC of 270 mg/kg. Chromium was also detected in each soil sample taken from the site. Concentrations ranged from a low of 2.0 mg/kg in FC201SS002 to a high of 5.7 mg/kg in FC201SS004. Chromium concentrations are also well below the soil to groundwater MSCC of 27 mg/kg.

MADEP Methods

Laboratory analysis did not detect C₅-C₈ Aliphatics concentrations in any of the soil samples. Soil sample FC201SS005 was the only sample that contained C₉-C₁₈ Aliphatics at a concentration of <82.8 mg/kg as compared to the STGW MSCC of 3,300 mg/kg. Concentrations of C₁₉-C₃₆ Aliphatics were detected in the five soil samples. Concentrations did not exceed the residential MSCC of 93,860 mg/kg. A STGW MSCC is not applicable for this MADEP constituent as it is considered immobile. C₉-C₂₂ Aromatics were also detected at the site in soil samples FC201SS001, FC201SS002, FC201SS003, and FC201SS005 at concentrations of <36.7 mg/kg, <9.19 mg/kg, <63.6 mg/kg, and 105.46 mg/kg, respectively. The STGW and residential MSCCs are 34 mg/kg and 469 mg/kg; concentrations were above the STGW MSCC, but below the residential MSCC.

Conclusions and Recommendations

Soil contamination was identified in the five soil samples obtained from the site during the September 2006 field event. All contaminant concentrations, however, were below the applicable STGW MSCCs, with the exception of p-Isopropyltoluene and C₉-C₂₂ Aromatics. There are no established MSCCs for p-Isopropyltoluene, and the C₉-C₂₂ Aromatics concentrations in soil samples FC201SS001, FC201SS003, and FC201SS005 were above the STGW MSCC, but below the residential MSCC.

Since the p-Isopropyltoluene concentration detected in soil sample FC201SS005 is comparatively low at a concentration of 0.0141 mg/kg, it is recommended that MCB Camp Lejeune resample this location in one year to assess attenuation of the contaminant. The soil sample should be collected and analyzed for volatile organic compounds using EPA Method 8260 + IPE and MTBE. Results should be summarized in a letter report and provided to NCDENR. If contaminant levels remain, a localized soil removal action in the area of FC201SS005 may be conducted.

Once the p-Isopropyltoluene concentration resolves (either via attenuation or soil removal), MCB Camp Lejeune can submit a request for No Further Action. Public notice will be required; however, since MADEP constituents (C₉-C₂₂ Aromatics) in site soils are present above the STGW, but below the residential MSCCs.

Sincerely,
Sovereign Consulting Inc.



Nicole L. Hall, P.E.
Senior Engineer



Attachments: Figures 1-7, Tables 1-5, Laboratory Analytical Reports

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

Table 1
Analytical Method: EPA Method 8260

Sample ID	Contaminant of Concern →		Methylene Chloride	Xylene (total)	n-Butylbenzene	p-Isopropyltoluene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	All Other Compounds
	Date Collected	Sample Depth (ft BGS)							
FC201SS001	9/6/2006	2-3.5	0.008 J	ND	ND	ND	ND	ND	ND
FC201SS002	9/6/2006	2-3.5	0.010 J	ND	ND	ND	ND	ND	ND
FC201SS003	9/6/2006	2-3.5	0.0106 J	ND	ND	ND	ND	ND	ND
FC201SS004	9/6/2006	2-3.5	0.0097 J	ND	ND	ND	ND	ND	ND
FC201SS005	9/6/2006	2-3.5	0.0081 J	0.0154 J	0.0082	0.0141	0.0717	0.0903	ND
Soil to groundwater MSCC (mg/kg)			0.02	5	4.3	NE	7.5	7.3	Varies
Residential MSCC (mg/kg)			85	3,129	626	NE	782	782	Varies
Industrial/Commercial MSCC (mg/kg)			763	81,760	16,350	NE	20,440	20,440	Varies

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

Table 2
Analytical Method: EPA Method 8270

Sample ID	Contaminant of Concern →		All Target Analytes
	Date Collected	Sample Depth (ft BGS)	
FC201SS001	9/6/2006	2-3.5	ND
FC201SS002	9/6/2006	2-3.5	ND
FC201SS003	9/6/2006	2-3.5	ND
FC201SS004	9/6/2006	2-3.5	ND
FC201SS005	9/6/2006	2-3.5	ND
Soil to groundwater MSCC (mg/kg)			Varies
Residential MSCC (mg/kg)			Varies
Industrial/Commercial MSCC (mg/kg)			Varies

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

Table 3
Analytical Method: Total Metals

Contaminant of Concern →			Lead	Chromium
Sample ID	Date Collected	Sample Depth (ft BGS)		
FC201SS001	9/6/2006	2-3.5	<11	3.9
FC201SS002	9/6/2006	2-3.5	<11	2.0
FC201SS003	9/6/2006	2-3.5	15.3	5.6
FC201SS004	9/6/2006	2-3.5	15.5	5.7
FC201SS005	9/6/2006	2-3.5	11.3	2.2
Soil to groundwater MSCC (mg/kg)			270	27
Residential MSCC (mg/kg)			400	47
Industrial/Commercial MSCC (mg/kg)			400	1,226

- All results reported in mg/kg; only lead and chromium results summarized in this table.
- mg/kg = milligrams per kilogram
- MSCC = Maximum Soil Contaminant Concentration
- <# = less than the reporting limit
- NE = Not Established
- **BOLD** = detected concentration

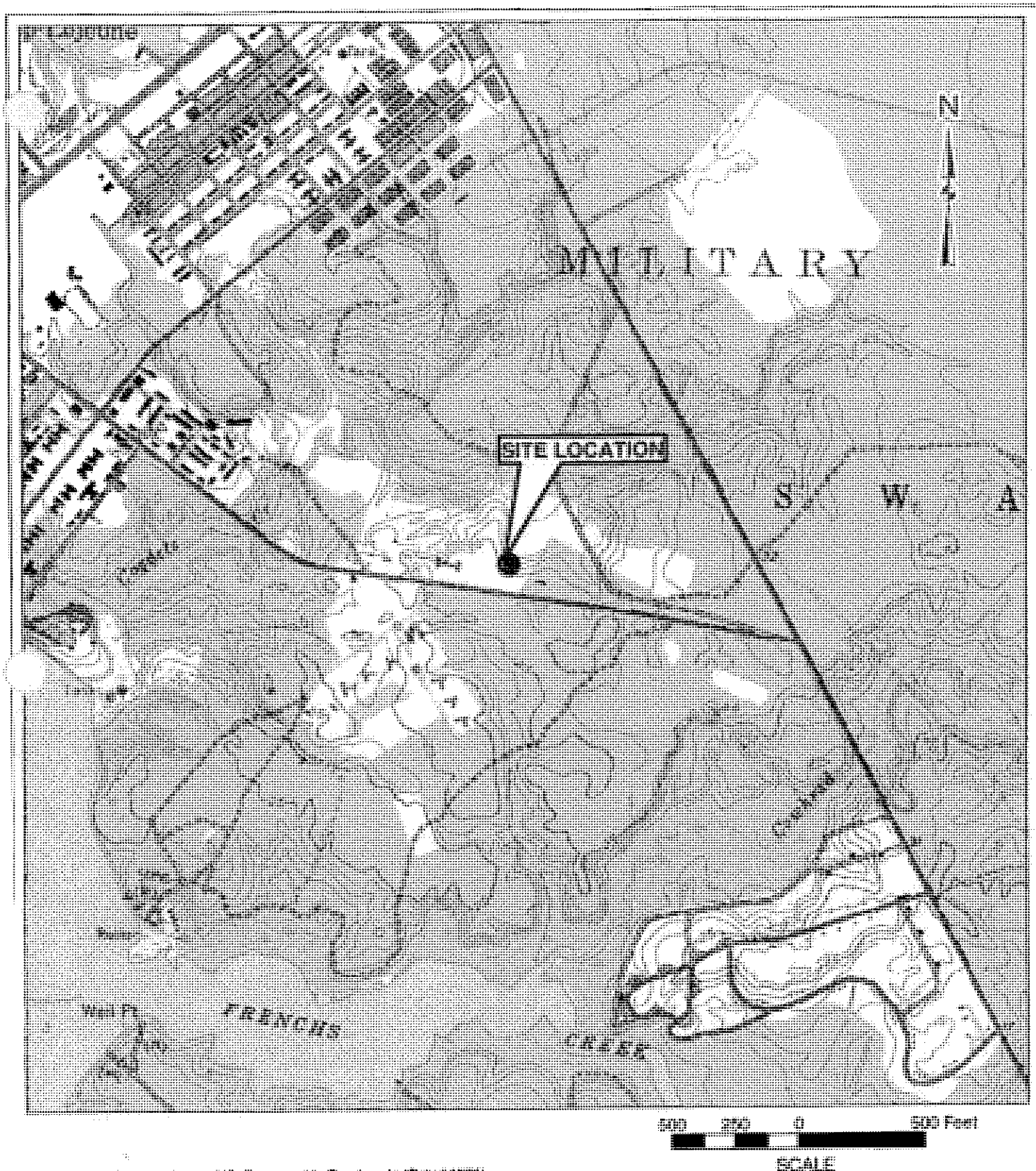
Table 4
Analytical Method: MADEP Method VPH/EPH

Contaminant of Concern →			C ₅ -C ₈ Aliphatics	C ₉ -C ₁₂ Aliphatics	C ₉ -C ₁₀ Aromatics	C ₉ -C ₁₈ Aliphatics	C ₁₉ -C ₃₆ Aliphatics	C ₁₁ -C ₂₂ Aromatics
Sample ID	Date Collected	Sample Depth (ft BGS)						
FC201SS001	9/6/2006	2-3.5	<4.2	<3.1	<1.1	<35	152	35.6
FC201SS002	9/6/2006	2-3.5	<4.3	<3.1	<1.1	<7.2	69.3	8.09
FC201SS003	9/6/2006	2-3.5	<4.0	<3.0	<1.1	<36	224	62.5
FC201SS004	9/6/2006	2-3.5	<4.0	<3.0	<1.1	<29	146	<29
FC201SS005	9/6/2006	2-3.5	<4.1	6.8	4.46	<76	990	101

Table 5
Analytical Method: MADEP Method VPH/EPH as compared to NCDENR MSCCs

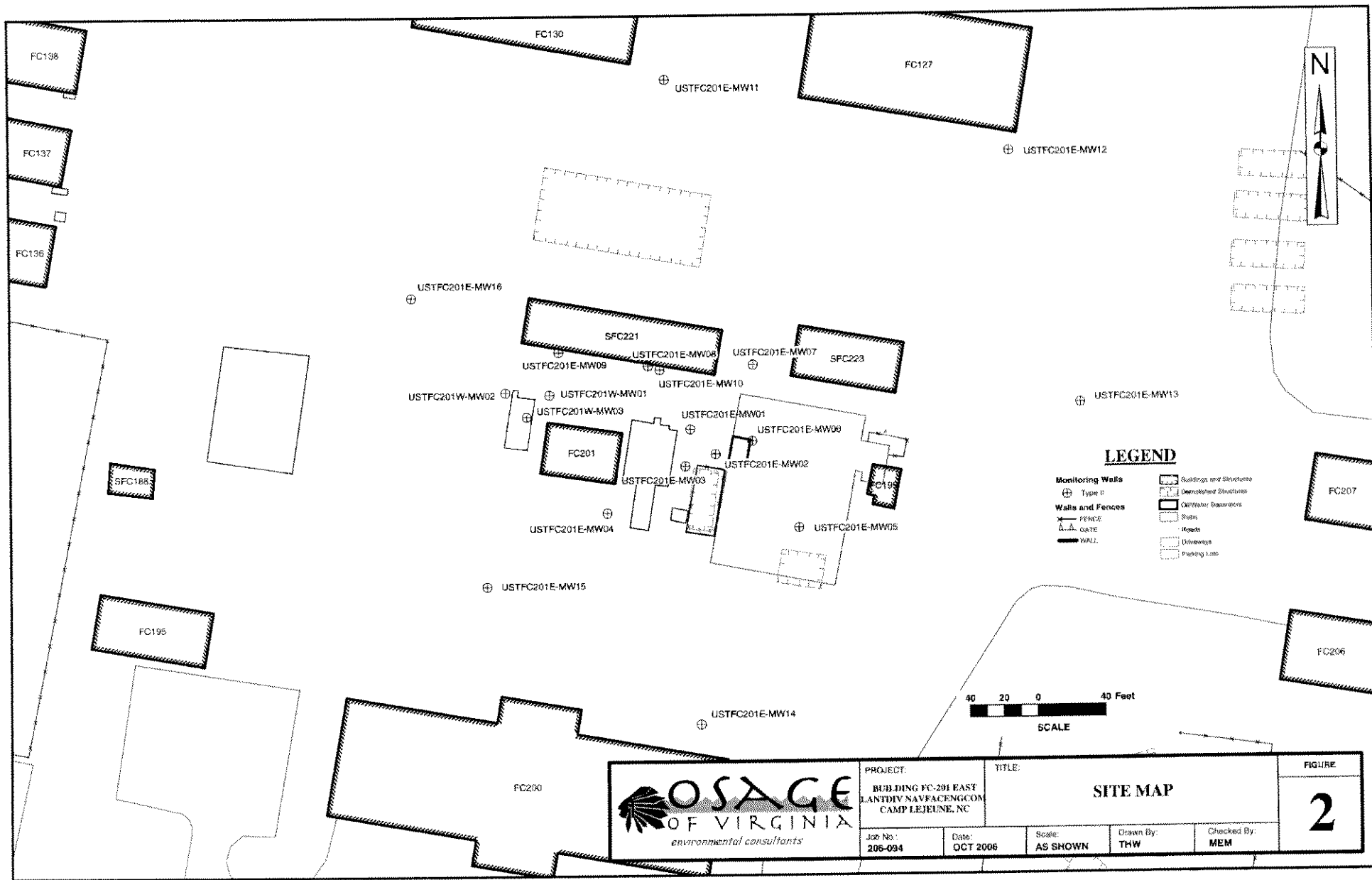
Contaminant of Concern →			C ₅ -C ₈ Aliphatics	C ₉ -C ₁₈ Aliphatics	C ₁₉ -C ₃₆ Aliphatics	C ₉ -C ₂₂ Aromatics
Sample ID	Date Collected	Sample Depth (ft BGS)				
FC201SS001	9/6/2006	2-3.5	<4.2	<38.1	152	< 36.7
FC201SS002	9/6/2006	2-3.5	<4.3	<10.3	69.3	< 9.19
FC201SS003	9/6/2006	2-3.5	<4.0	<39	224	< 63.6
FC201SS004	9/6/2006	2-3.5	<4.0	<32	146	<30.1
FC201SS005	9/6/2006	2-3.5	<4.1	< 82.8	990	105.46
Soil to Groundwater MSCC (mg/kg)			72	3,300	##	34
Residential MSCC (mg/kg)			939	9,386	93,860	469
Industrial/Commercial MSCC (mg/kg)			24,528	245,280	#	12,264

- All results reported in mg/kg
- mg/kg = milligrams per kilogram
- MSCC = Maximum Soil Contaminant Concentration
- <# = less than the reporting limit
- # = Health Based Level >100%
- ## = Considered immobile
- **BOLD** = detected concentration



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

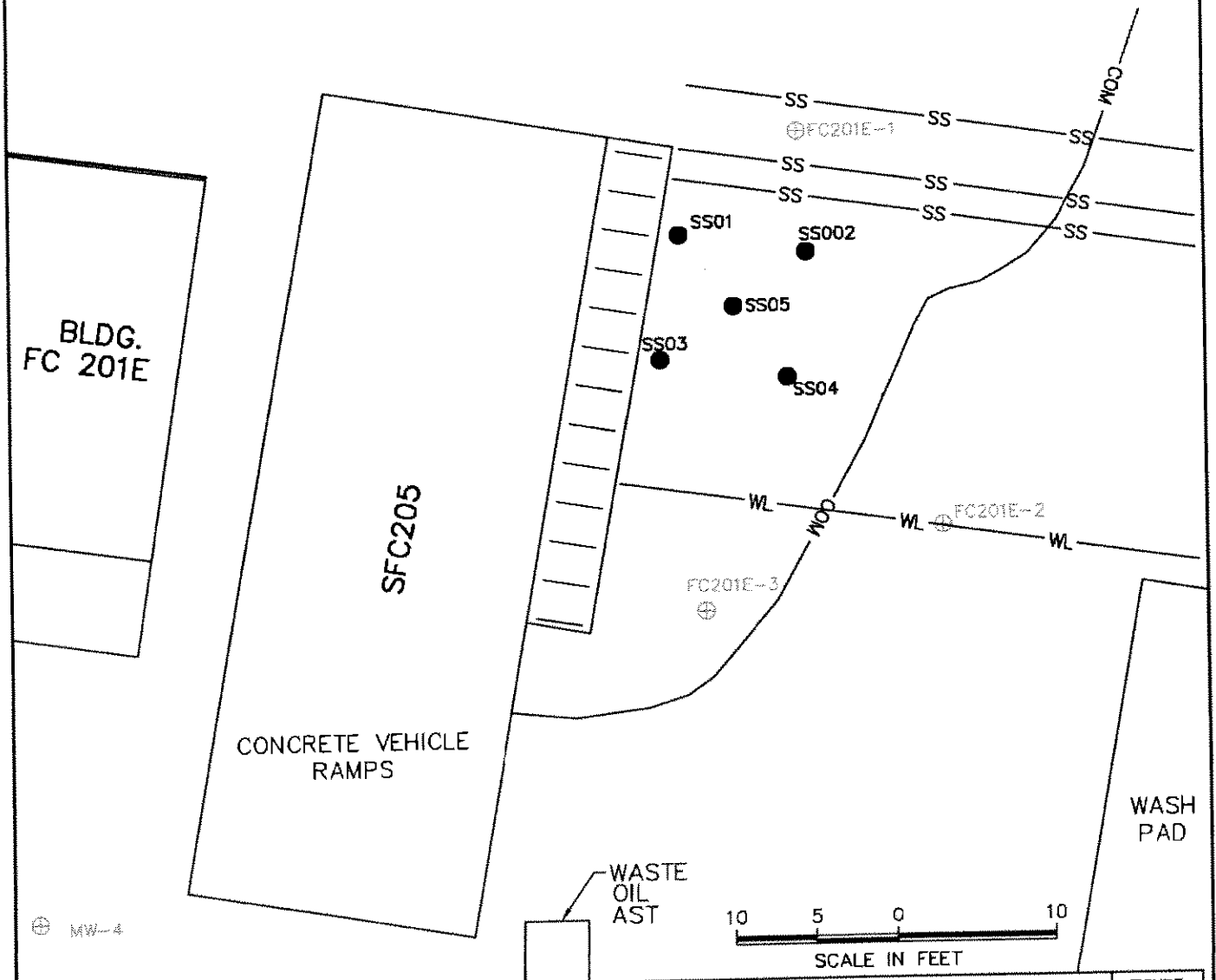
 OSAGE IN OF VIRGINIA environmental consultants	PROJECT BUILDING FC-201 EAST MARINE CORPS BASE CAMP LEJEUNE, N.C.		TITLE GENERAL VICINITY TOPOGRAPHIC MAP		FIGURE 1
	JOB NO. 200-0304	DATE OCT 2024	SCALE 1"=500'	CREATED BY LCJ	CHECKED BY MEM



LEGEND

⊕	DESCRIPTION
⊕	MONITORING WELL
●	SAMPLE HOLE
— WL —	WATER LINE
— SS —	COMMUNICATION LINE
— COM —	SEWER LINE

FIGURE TAKEN FROM DWG 4.5, BUILDING
FC-201 EAST LUST SITE ASSESSMENT
REPORT DATED APRIL 1994
BY: LAW ENGINEERING
RALEIGH, N.C.



PROJECT
BUILDING FC-201 EAST
LANTDIV NAVFACENGCOM
CAMP LEJEUNE, N.C.
JOB NO: 206-094 DATE: OCT 2006

TITLE
**SITE MAP WITH
SOIL SAMPLE LOCATIONS**
SCALE: 1"=10'
DRAWN BY: LCJ CHECKED BY: MEM

FIGURE
3

SOIL SAMPLING RESULTS, FC201E
Date: October, 2006

Table 1
Analytical Method: EPA Method 8260

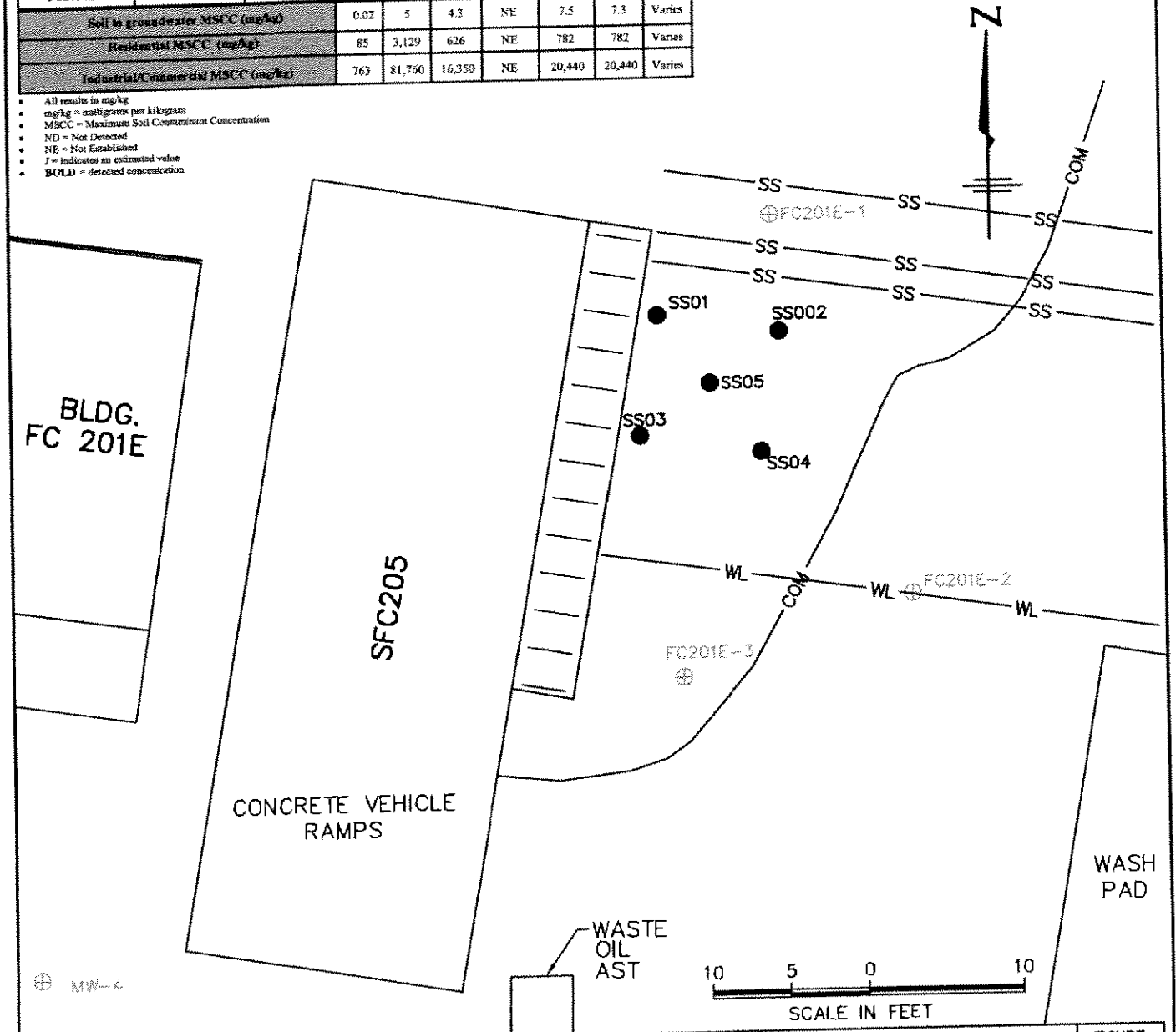
Sample ID	Constituent of Concern		Methylene Chloride	Xylene (total)	n-Butylbenzene	p-Isopropyltoluene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	All Other Compounds
	Date Collected	Sample Depth (ft BGS)							
FC201SS001	9/6/2006	2-3.5	0.008 J	ND	ND	ND	ND	ND	ND
FC201SS002	9/6/2006	2-3.5	0.010 J	ND	ND	ND	ND	ND	ND
FC201SS003	9/6/2006	2-3.5	0.0106 J	ND	ND	ND	ND	ND	ND
FC201SS004	9/6/2006	2-3.5	0.0097 J	ND	ND	ND	ND	ND	ND
FC201SS005	9/6/2006	2-3.5	0.0081 J	0.0154 J	0.0082	0.0141	0.0717	0.0903	ND
Soil to groundwater MSCC (mg/kg)			0.02	5	4.3	NE	7.5	7.3	Varies
Residential MSCC (mg/kg)			85	3,129	626	NE	782	782	Varies
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- ND = Not Detected
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LEGEND

⊕	DESCRIPTION
●	MONITORING WELL
●	SAMPLE HOLE
— WL —	WATER LINE
— SS —	COMMUNICATION LINE
— COM —	SEWER LINE

FIGURE TAKEN FROM DWG 4.5, BUILDING FC-201 EAST LUST SITE ASSESSMENT REPORT DATED APRIL 1994
BY: LAW ENGINEERING
RALEIGH, N.C.



PROJECT: BUILDING FC-201 EAST
LAND/IV NAVFACENGCOM
CAMP LEJEUNE, N.C.
JOB NO: 206-094 DATE: OCT 2006

TITLE: SITE MAP WITH SEPTEMBER
SOIL SAMPLING RESULTS -
EPA METHOD 8260
SCALE: 1"=10' DRAWN BY: LCJ CHECKED BY: MEM

FIGURE
4

SOIL SAMPLING RESULTS, FC201E
Date: October, 2006

Table 2
Analytical Method: EPA Method 8270

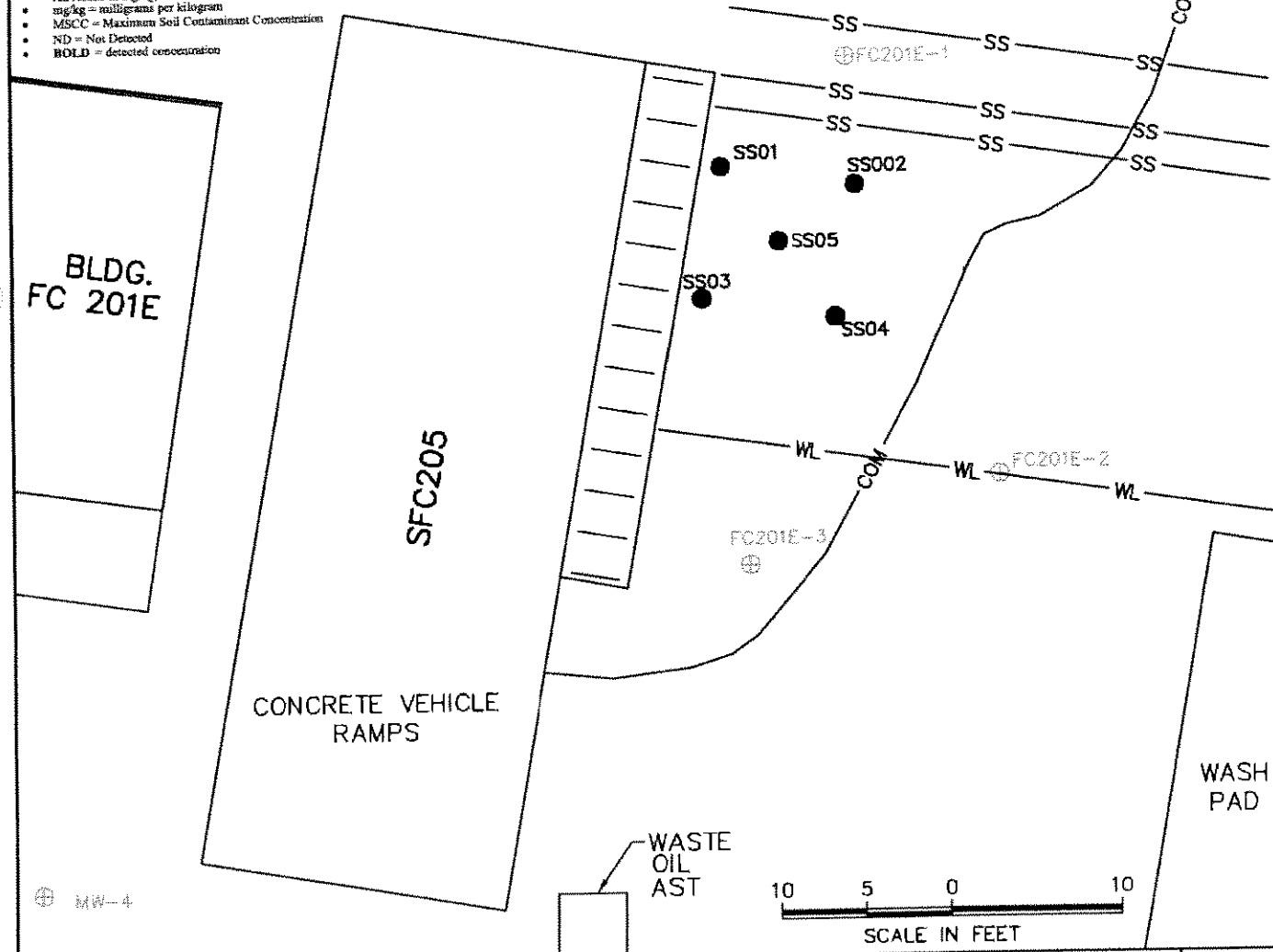
Sample ID	Contaminant of Concern →		All Target Analytes
	Date Collected	Sample Depth (ft BGS)	
FC201SS001	9/6/2006	2-3.5	ND
FC201SS002	9/6/2006	2-3.5	ND
FC201SS003	9/6/2006	2-3.5	ND
FC201SS004	9/6/2006	2-3.5	ND
FC201SS005	9/6/2006	2-3.5	ND
Soil to groundwater MSCC (mg/kg)			Varies
Residential MSCC (mg/kg)			Varies
Industrial/Commercial MSCC (mg/kg)			Varies

- All results in mg/kg;
- mg/kg = milligrams per kilogram
- MSCC = Maximum Soil Contaminant Concentration
- ND = Not Detected
- BOLD** = detected concentration

LEGEND

	DESCRIPTION
⊕	MONITORING WELL
●	SAMPLE HOLE
— WL —	WATER LINE
— SS —	COMMUNICATION LINE
— COM —	SEWER LINE

FIGURE TAKEN FROM DWG 4.5, BUILDING
FC-201 EAST LUST SITE ASSESSMENT
REPORT DATED APRIL 1994
BY: LAW ENGINEERING
RALEIGH, N.C.



PROJECT
BUILDING FC-201 EAST
LANTDIV NAVFACENGCOM
CAMP LEJEUNE, N.C.

JOB NO: 206-094 DATE: OCT 2006

TITLE
SITE MAP WITH SEPTEMBER
SOIL SAMPLING RESULTS -
EPA METHOD 8270

SCALE: 1"=10' DRAWN BY: LCJ CHECKED BY: MEM

FIGURE

5

SOIL SAMPLING RESULTS, FC201E
Date: October, 2006

Table 3
Analytical Method: Total Metals

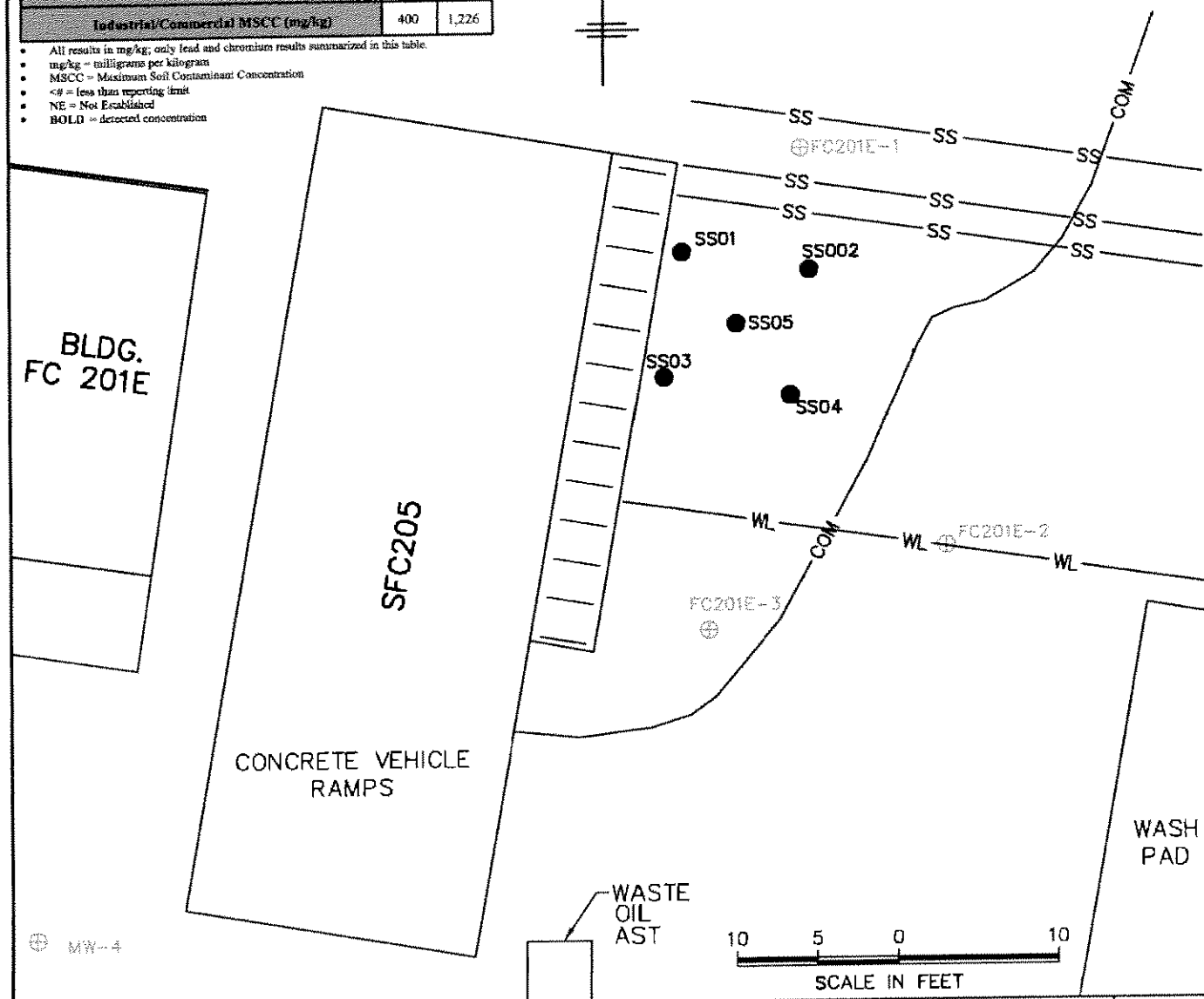
Sample ID	Contaminant of Concern →		Lead	Chromium
	Date Collected	Sample Depth (ft BGS)		
FC201SS001	9/6/2006	2-3.5	<11	3.9
FC201SS002	9/6/2006	2-3.5	<11	2.0
FC201SS003	9/6/2006	2-3.5	15.3	5.6
FC201SS004	9/6/2006	2-3.5	15.9	5.7
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LEGEND

	DESCRIPTION
	MONITORING WELL
	SAMPLE HOLE
	WATER LINE
	COMMUNICATION LINE
	SEWER LINE

FIGURE TAKEN FROM DWG 4.5, BUILDING
FC-201 EAST LUST SITE ASSESSMENT
REPORT DATED APRIL 1994
BY: LAW ENGINEERING
RALEIGH, N.C.



	PROJECT	BUILDING FC-201 EAST LANTDIV NAVFACENGCOM CAMP LEJEUNE, N.C.	TITLE	SITE MAP WITH SEPTEMBER SOIL SAMPLING RESULTS - TOTAL METALS (CHROMIUM & LEAD)		FIGURE	6
	JOB NO.	206-094	DATE	OCT 2006	SCALE: 1"=10'	DRAWN BY: LCJ	

SOIL SAMPLING RESULTS, FC201E
Date: October, 2006

Table 5

Analytical Method: MADEP Method VP/EPH as compared to NCDENR MSCCs

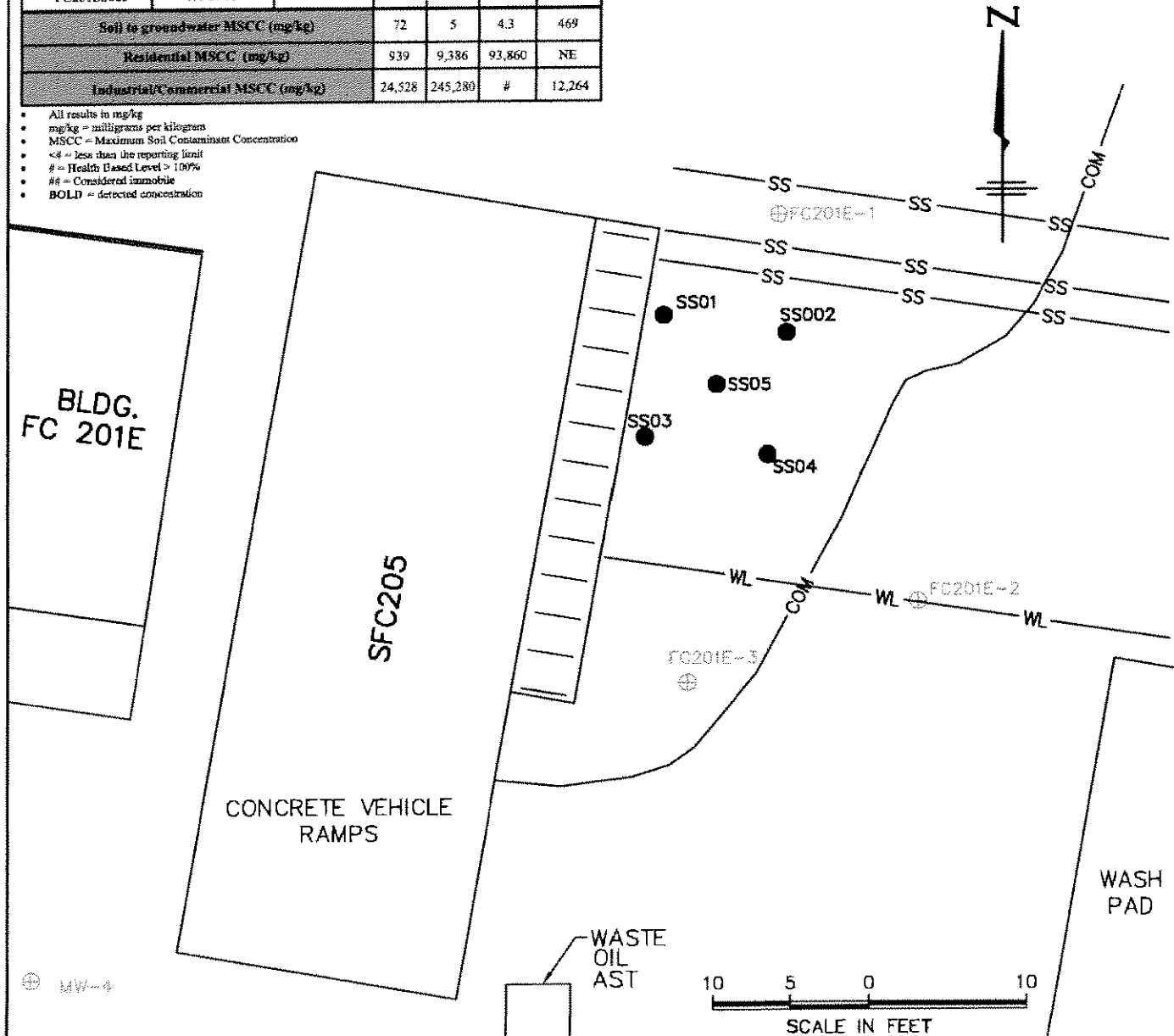
Sample ID	Contaminant of Concern →		C ₃ -C ₈ Aliphatics	C ₉ -C ₁₀ Aliphatics	C ₁₁ -C ₁₆ Aliphatics	C ₁₇ -C ₂₂ Aromatics
	Date Collected	Sample Depth (ft BGS)				
FC201SS001	9/6/2006	2-3.5	<4.2	<38.1	152	<36.7
FC201SS002	9/6/2006	2-3.5	<4.3	<10.3	69.3	<9.19
FC201SS003	9/6/2006	2-3.5	<4.0	<39	224	<63.6
FC201SS004	9/6/2006	2-3.5	<4.0	<32	146	<30.1
FC201SS005	9/6/2006	2-3.5	<4.1	<82.8	990	105.46
Soil to groundwater MSCC (mg/kg)			72	5	4.3	469
Residential MSCC (mg/kg)			939	9,386	93,860	NE
Industrial/Commercial MSCC (mg/kg)			24,528	245,280	#	12,264

- All results in mg/kg
- mg/kg = milligrams per kilogram
- MSCC = Maximum Soil Contaminant Concentration
- <4 = less than the reporting limit
- # = Health Based Level > 100%
- ## = Considered immobile
- BOLD = detected concentration

LEGEND

	DESCRIPTION
	MONITORING WELL
	SAMPLE HOLE
	WATER LINE
	COMMUNICATION LINE
	SEWER LINE

FIGURE TAKEN FROM DWG 4.5, BUILDING
FC-201 EAST LUST SITE ASSESSMENT
REPORT DATED APRIL 1994
BY: LAW ENGINEERING
RALEIGH, N.C.



PROJECT
BUILDING FC-201 EAST
LANTDIV NAVFACENGCOM
CAMP LEJEUNE, N.C.

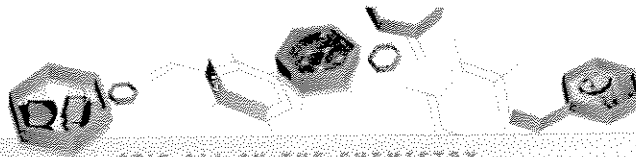
JOB NO: 206-094 DATE: OCT 2006

TITLE
SITE MAP WITH SEPTEMBER
SOIL SAMPLING RESULTS -
MADEP VP/EPH AS
COMPARED TO NCDENR MSCCs

SCALE: 1"=10' DRAWN BY: LCJ CHECKED BY: MEM

FIGURE

7



09/28/06



Technical Report for

Osage of Virginia

FC 201/TT2477; Camp Lejeune, NC

Accutest Job Number: F43446

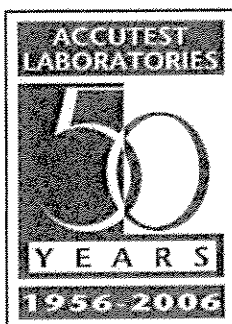
Sampling Date: 09/06/06

Report to:

Osage of Virginia
2618A Colley Avenue
P.O. Box 11006
Norfolk, VA 23517

ATTN: Mike Cree

Total number of pages in report: 114



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi
Harry Behzadi, Ph.D.
Laboratory Director

Certifications: FL (DOH E83510), NC (573), NJ (FL002), MA (FL946), IA (366), LA (03051), KS (E-10327), SC, AK
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Sample Summary

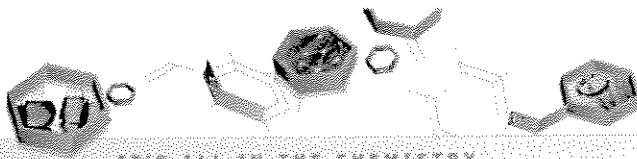
Osage of Virginia

Job No: F43446

FC 201/TT2477; Camp Lejeune, NC

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
F43446-1	09/06/06	12:20 JWM	09/07/06	SO	Soil	FC201SS001
F43446-2	09/06/06	12:30 JWM	09/07/06	SO	Soil	FC201SS002
F43446-3	09/06/06	12:40 JWM	09/07/06	SO	Soil	FC201SS003
F43446-4	09/06/06	12:50 JWM	09/07/06	SO	Soil	FC201SS004
F43446-5	09/06/06	13:00 JWM	09/07/06	SO	Soil	FC201SS005
F43446-6	09/06/06	15:30 JWM	09/07/06	SO	Soil	TT2477SS001
F43446-7	09/06/06	15:45 JWM	09/07/06	SO	Soil	TT2477SS002
F43446-8	09/06/06	16:10 JWM	09/07/06	SO	Soil	TT2478SS004
F43446-9	09/06/06	00:00 JWM	09/07/06	SO	Trip Blank Soil	TRIP BLANK

Soil samples reported on a dry weight basis unless otherwise indicated on result page.



IT'S ALL IN THE CHEMISTRY



Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: FC201SS001
Lab Sample ID: F43446-1
Matrix: SO - Soil
Method: SW846 8260B SW846 5035
Project: FC 201/TT2477; Camp Lejeune, NC

Date Sampled: 09/06/06
Date Received: 09/07/06
Percent Solids: 87.9

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K028332.D	1	09/13/06	WJ	09/07/06 12:35	n/a	VK1262
Run #2							

	Initial Weight
Run #1	6.73 g
Run #2	

VOA List for NC

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	42	21	ug/kg	
71-43-2	Benzene	ND	4.2	1.7	ug/kg	
108-86-1	Bromobenzene	ND	4.2	1.7	ug/kg	
74-97-5	Bromochloromethane	ND	4.2	1.7	ug/kg	
75-27-4	Bromodichloromethane	ND	4.2	1.7	ug/kg	
75-25-2	Bromoform	ND	4.2	1.7	ug/kg	
104-51-8	n-Butylbenzene	ND	4.2	2.5	ug/kg	
135-98-8	sec-Butylbenzene	ND	4.2	1.7	ug/kg	
98-06-6	tert-Butylbenzene	ND	4.2	1.7	ug/kg	
108-90-7	Chlorobenzene	ND	4.2	1.7	ug/kg	
75-00-3	Chloroethane	ND	4.2	2.5	ug/kg	
67-66-3	Chloroform	ND	4.2	1.7	ug/kg	
95-49-8	o-Chlorotoluene	ND	4.2	1.7	ug/kg	
106-43-4	p-Chlorotoluene	ND	4.2	1.7	ug/kg	
56-23-5	Carbon tetrachloride	ND	4.2	1.7	ug/kg	
75-34-3	1,1-Dichloroethane	ND	4.2	1.7	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	4.2	1.7	ug/kg	
563-58-6	1,1-Dichloropropene	ND	4.2	1.7	ug/kg	
106-93-4	1,2-Dibromoethane	ND	4.2	1.7	ug/kg	
107-06-2	1,2-Dichloroethane	ND	4.2	1.7	ug/kg	
78-87-5	1,2-Dichloropropane	ND	4.2	1.7	ug/kg	
142-28-9	1,3-Dichloropropane	ND	4.2	1.7	ug/kg	
108-20-3	Di-Isopropyl ether	ND	4.2	1.7	ug/kg	
594-20-7	2,2-Dichloropropane	ND	4.2	1.7	ug/kg	
124-48-1	Dibromochloromethane	ND	4.2	1.7	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	4.2	2.5	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	4.2	1.7	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	4.2	1.7	ug/kg	
541-73-1	m-Dichlorobenzene	ND	4.2	1.7	ug/kg	
95-50-1	o-Dichlorobenzene	ND	4.2	1.7	ug/kg	
106-46-7	p-Dichlorobenzene	ND	4.2	1.7	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	4.2	1.7	ug/kg	

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FC201SS001	Date Sampled:	09/06/06
Lab Sample ID:	F43446-1	Date Received:	09/07/06
Matrix:	SO - Soil	Percent Solids:	87.9
Method:	SW846 8260B SW846 5035		
Project:	FC 201/TT2477; Camp Lejeune, NC		

VOA List for NC

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	4.2	1.7	ug/kg	
100-41-4	Ethylbenzene	ND	4.2	1.7	ug/kg	
591-78-6	2-Hexanone	ND	21	8.5	ug/kg	
98-82-8	Isopropylbenzene	ND	4.2	1.7	ug/kg	
99-87-6	p-Isopropyltoluene	ND	4.2	1.7	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	21	8.5	ug/kg	
74-83-9	Methyl bromide	ND	4.2	1.7	ug/kg	
74-87-3	Methyl chloride	ND	4.2	1.7	ug/kg	
75-09-2	Methylene chloride	8.0	8.5	4.2	ug/kg	J
78-93-3	Methyl ethyl ketone	ND	21	8.5	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	4.2	1.7	ug/kg	
91-20-3	Naphthalene	ND	4.2	1.7	ug/kg	
103-65-1	n-Propylbenzene	ND	4.2	1.7	ug/kg	
100-42-5	Styrene	ND	4.2	1.7	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	4.2	1.7	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.2	1.7	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	4.2	1.7	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	4.2	1.7	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	4.2	2.1	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	4.2	1.7	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	4.2	2.5	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	4.2	1.7	ug/kg	
127-18-4	Tetrachloroethylene	ND	4.2	1.7	ug/kg	
108-88-3	Toluene	ND	4.2	1.7	ug/kg	
79-01-6	Trichloroethylene	ND	4.2	1.7	ug/kg	
75-69-4	Trichlorofluoromethane	ND	4.2	1.7	ug/kg	
75-01-4	Vinyl chloride	ND	4.2	1.7	ug/kg	
108-05-4	Vinyl Acetate	ND	21	8.5	ug/kg	
1330-20-7	Xylene (total)	ND	13	4.2	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		78-123%
2037-26-5	Toluene-D8	113%		71-137%
460-00-4	4-Bromofluorobenzene	104%		61-157%
17060-07-0	1,2-Dichloroethane-D4	99%		74-125%

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Report of Analysis

Client Sample ID:	FC201SS001	Date Sampled:	09/06/06
Lab Sample ID:	F43446-1	Date Received:	09/07/06
Matrix:	SO - Soil	Percent Solids:	87.9
Method:	SW846 8270C SW846 3550B		
Project:	FC 201/TT2477; Camp Lejeune, NC		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R04977.D	1	09/14/06	NJ	09/14/06	OP17858	SR236
Run #2							

	Initial Weight	Final Volume
Run #1	30.4 g	1.0 ml
Run #2		

ABN List for NC

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic acid	ND	940	370	ug/kg	
95-57-8	2-Chlorophenol	ND	190	37	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	190	37	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	190	37	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	190	37	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	940	370	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	370	75	ug/kg	
95-48-7	2-Methylphenol	ND	190	37	ug/kg	
	3&4-Methylphenol	ND	190	37	ug/kg	
88-75-5	2-Nitrophenol	ND	190	37	ug/kg	
100-02-7	4-Nitrophenol	ND	940	370	ug/kg	
87-86-5	Pentachlorophenol	ND	940	370	ug/kg	
108-95-2	Phenol	ND	190	37	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	190	37	ug/kg	
83-32-9	Acenaphthene	ND	190	37	ug/kg	
208-96-8	Acenaphthylene	ND	190	37	ug/kg	
120-12-7	Anthracene	ND	190	37	ug/kg	
56-55-3	Benzo(a)anthracene	ND	190	37	ug/kg	
50-32-8	Benzo(a)pyrene	ND	190	37	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	190	37	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	190	75	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	190	37	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	190	37	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	370	94	ug/kg	
100-51-6	Benzyl Alcohol	ND	190	37	ug/kg	
91-58-7	2-Chloronaphthalene	ND	190	37	ug/kg	
106-47-8	4-Chloroaniline	ND	370	150	ug/kg	
218-01-9	Chrysene	ND	190	37	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	190	37	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	190	75	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	190	37	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	190	37	ug/kg	

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
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 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FC201SS001	Date Sampled:	09/06/06
Lab Sample ID:	F43446-1	Date Received:	09/07/06
Matrix:	SO - Soil	Percent Solids:	87.9
Method:	SW846 8270C SW846 3550B		
Project:	FC 201/TT2477; Camp Lejeune, NC		

ABN List for NC

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	190	37	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	190	37	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	190	37	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	190	37	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	190	75	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	190	75	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	370	190	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	190	75	ug/kg	
132-64-9	Dibenzofuran	ND	190	37	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	370	94	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	370	190	ug/kg	
84-66-2	Diethyl phthalate	ND	370	94	ug/kg	
131-11-3	Dimethyl phthalate	ND	370	94	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	370	190	ug/kg	
206-44-0	Fluoranthene	ND	190	37	ug/kg	
86-73-7	Fluorene	ND	190	37	ug/kg	
118-74-1	Hexachlorobenzene	ND	190	37	ug/kg	
87-68-3	Hexachlorobutadiene	ND	190	75	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	190	75	ug/kg	
67-72-1	Hexachloroethane	ND	190	75	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	190	75	ug/kg	
78-59-1	Isophorone	ND	190	37	ug/kg	
91-57-6	2-Methylnaphthalene	ND	190	37	ug/kg	
91-20-3	Naphthalene	ND	190	37	ug/kg	
98-95-3	Nitrobenzene	ND	190	37	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	190	75	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	190	37	ug/kg	
85-01-8	Phenanthrene	ND	190	37	ug/kg	
129-00-0	Pyrene	ND	190	75	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	190	37	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	62%		45-114%
4165-62-2	Phenol-d5	61%		44-124%
118-79-6	2,4,6-Tribromophenol	83%		50-128%
4165-60-0	Nitrobenzene-d5	68%		41-123%
321-60-8	2-Fluorobiphenyl	70%		46-122%
1718-51-0	Terphenyl-d14	79%		45-135%

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 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

2.1
2

Client Sample ID:	FC201SS001	Date Sampled:	09/06/06
Lab Sample ID:	F43446-1	Date Received:	09/07/06
Matrix:	SO - Soil	Percent Solids:	87.9
Method:	MADEP VPH		
Project:	FC 201/TT2477; Camp Lejeune, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV023866.D	1	09/15/06	MM	n/a	n/a	GUV1377
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.18 g	5.1 ml	100 ul
Run #2			

MADEP VPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
	C5- C8 Aliphatics (Unadj.)	ND	4200	2200	ug/kg	
	C9- C12 Aliphatics (Unadj.)	ND	3100	1700	ug/kg	
	C9- C10 Aromatics (Unadj.)	ND	1100	560	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	BFB	86%		70-130%
460-00-4	BFB	84%		70-130%

ND = Not detected MDL - Method Detection Limit
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J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

2.1
2

Client Sample ID:	FC201SS001	Date Sampled:	09/06/06
Lab Sample ID:	F43446-1	Date Received:	09/07/06
Matrix:	SO - Soil	Percent Solids:	87.9
Method:	MADEP-EPH-98-1 SW846 3550B		
Project:	FC 201/TT2477; Camp Lejeune, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF21418.D	5	09/19/06	ME	09/13/06	OP17843	GZF1007
Run #2							

	Initial Weight	Final Volume
Run #1	32.3 g	2.0 ml
Run #2		

MAEPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
	C11-C22 Aromatics (Unadj.)	35600	35000	35000	ug/kg	
	C9-C18 Aliphatics	ND	35000	35000	ug/kg	
	C19-C36 Aliphatics	152000	35000	35000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	70%		40-140%
580-13-2	2-Bromonaphthalene	52%		40-140%
84-15-1	o-Terphenyl	86%		40-140%
321-60-8	2-Fluorobiphenyl	84%		40-140%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID: FC201SS001	Date Sampled: 09/06/06
Lab Sample ID: F43446-1	Date Received: 09/07/06
Matrix: SO - Soil	Percent Solids: 87.9
Project: FC 201/TT2477; Camp Lejeune, NC	

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	2540	23	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Antimony	< 6.8	6.8	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Arsenic	< 0.91	0.91	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Barium	< 23	23	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Beryllium	< 0.57	0.57	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Cadmium	< 0.46	0.46	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Calcium	2380	570	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Chromium	3.9	1.1	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Cobalt	< 5.7	5.7	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Copper	< 2.8	2.8	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Iron	864	11	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Lead	< 11	11	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Magnesium	< 570	570	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Manganese	4.4	1.7	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Mercury	< 0.085	0.085	mg/kg	1	09/09/06	09/09/06 MS	SW846 7471A ¹	SW846 7471A ³
Nickel	< 4.6	4.6	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Potassium ^a	< 2200	2200	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Selenium	< 11	11	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Silver	< 1.1	1.1	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Sodium ^a	< 2200	2200	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Thallium ^b	< 4.4	4.4	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Vanadium	< 5.7	5.7	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Zinc	10.4	2.3	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴

(1) Instrument QC Batch: MA5219

(2) Instrument QC Batch: MA5237

(3) Prep QC Batch: MP10283

(4) Prep QC Batch: MP10328

(a) Elevated RL/MDL due to CRIA exceeding acceptance criteria.

(b) Elevated RL/MDL due to negative bias of Method Blank.

RL = Reporting Limit

Report of Analysis

Client Sample ID: FC201SS002
Lab Sample ID: F43446-2
Matrix: SO - Soil
Method: SW846 8260B SW846 5035
Project: FC 201/TT2477; Camp Lejeune, NC

Date Sampled: 09/06/06
Date Received: 09/07/06
Percent Solids: 88.1

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K028333.D	1	09/13/06	WJ	09/07/06 12:35	n/a	VK1262
Run #2							

	Initial Weight
Run #1	5.20 g
Run #2	

VOA List for NC

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	55	27	ug/kg	
71-43-2	Benzene	ND	5.5	2.2	ug/kg	
108-86-1	Bromobenzene	ND	5.5	2.2	ug/kg	
74-97-5	Bromochloromethane	ND	5.5	2.2	ug/kg	
75-27-4	Bromodichloromethane	ND	5.5	2.2	ug/kg	
75-25-2	Bromoform	ND	5.5	2.2	ug/kg	
104-51-8	n-Butylbenzene	ND	5.5	3.3	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.5	2.2	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.5	2.2	ug/kg	
108-90-7	Chlorobenzene	ND	5.5	2.2	ug/kg	
75-00-3	Chloroethane	ND	5.5	3.3	ug/kg	
67-66-3	Chloroform	ND	5.5	2.2	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.5	2.2	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.5	2.2	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.5	2.2	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.5	2.2	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.5	2.2	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.5	2.2	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.5	2.2	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.5	2.2	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.5	2.2	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.5	2.2	ug/kg	
108-20-3	Di-Isopropyl ether	ND	5.5	2.2	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.5	2.2	ug/kg	
124-48-1	Dibromochloromethane	ND	5.5	2.2	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.5	3.3	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.5	2.2	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.5	2.2	ug/kg	
541-73-1	m-Dichlorobenzene	ND	5.5	2.2	ug/kg	
95-50-1	o-Dichlorobenzene	ND	5.5	2.2	ug/kg	
106-46-7	p-Dichlorobenzene	ND	5.5	2.2	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.5	2.2	ug/kg	

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FC201SS002	Date Sampled:	09/06/06
Lab Sample ID:	F43446-2	Date Received:	09/07/06
Matrix:	SO - Soil	Percent Solids:	88.1
Method:	SW846 8260B SW846 5035		
Project:	FC 201/TT2477; Camp Lejeune, NC		

VOA List for NC

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	5.5	2.2	ug/kg	
100-41-4	Ethylbenzene	ND	5.5	2.2	ug/kg	
591-78-6	2-Hexanone	ND	27	11	ug/kg	
98-82-8	Isopropylbenzene	ND	5.5	2.2	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.5	2.2	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	27	11	ug/kg	
74-83-9	Methyl bromide	ND	5.5	2.2	ug/kg	
74-87-3	Methyl chloride	ND	5.5	2.2	ug/kg	
75-09-2	Methylene chloride	10	11	5.5	ug/kg	J
78-93-3	Methyl ethyl ketone	ND	27	11	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.5	2.2	ug/kg	
91-20-3	Naphthalene	ND	5.5	2.2	ug/kg	
103-65-1	n-Propylbenzene	ND	5.5	2.2	ug/kg	
100-42-5	Styrene	ND	5.5	2.2	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.5	2.2	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.5	2.2	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.5	2.2	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.5	2.2	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.5	2.7	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.5	2.2	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.5	3.3	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.5	2.2	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.5	2.2	ug/kg	
108-88-3	Toluene	ND	5.5	2.2	ug/kg	
79-01-6	Trichloroethylene	ND	5.5	2.2	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.5	2.2	ug/kg	
75-01-4	Vinyl chloride	ND	5.5	2.2	ug/kg	
108-05-4	Vinyl Acetate	ND	27	11	ug/kg	
1330-20-7	Xylene (total)	ND	16	5.5	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		78-123%
2037-26-5	Toluene-D8	107%		71-137%
460-00-4	4-Bromofluorobenzene	95%		61-157%
17060-07-0	1,2-Dichloroethane-D4	108%		74-125%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 2

Client Sample ID:	FC201SS002	Date Sampled:	09/06/06
Lab Sample ID:	F43446-2	Date Received:	09/07/06
Matrix:	SO - Soil	Percent Solids:	88.1
Method:	SW846 8270C SW846 3550B		
Project:	FC 201/TT2477; Camp Lejeune, NC		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R04978.D	1	09/14/06	NJ	09/14/06	OP17858	SR236
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.3 g	1.0 ml
Run #2		

ABN List for NC

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic acid	ND	940	370	ug/kg	
95-57-8	2-Chlorophenol	ND	190	37	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	190	37	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	190	37	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	190	37	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	940	370	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	370	75	ug/kg	
95-48-7	2-Methylphenol	ND	190	37	ug/kg	
	3&4-Methylphenol	ND	190	37	ug/kg	
88-75-5	2-Nitrophenol	ND	190	37	ug/kg	
100-02-7	4-Nitrophenol	ND	940	370	ug/kg	
87-86-5	Pentachlorophenol	ND	940	370	ug/kg	
108-95-2	Phenol	ND	190	37	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	190	37	ug/kg	
83-32-9	Acenaphthene	ND	190	37	ug/kg	
208-96-8	Acenaphthylene	ND	190	37	ug/kg	
120-12-7	Anthracene	ND	190	37	ug/kg	
56-55-3	Benzo(a)anthracene	ND	190	37	ug/kg	
50-32-8	Benzo(a)pyrene	ND	190	37	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	190	37	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	190	75	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	190	37	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	190	37	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	370	94	ug/kg	
100-51-6	Benzyl Alcohol	ND	190	37	ug/kg	
91-58-7	2-Chloronaphthalene	ND	190	37	ug/kg	
106-47-8	4-Chloroaniline	ND	370	150	ug/kg	
218-01-9	Chrysene	ND	190	37	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	190	37	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	190	75	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	190	37	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	190	37	ug/kg	

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FC201SS002	Date Sampled:	09/06/06
Lab Sample ID:	F43446-2	Date Received:	09/07/06
Matrix:	SO - Soil	Percent Solids:	88.1
Method:	SW846 8270C SW846 3550B		
Project:	FC 201/TT2477; Camp Lejeune, NC		

ABN List for NC

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	190	37	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	190	37	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	190	37	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	190	37	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	190	75	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	190	75	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	370	190	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	190	75	ug/kg	
132-64-9	Dibenzofuran	ND	190	37	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	370	94	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	370	190	ug/kg	
84-66-2	Diethyl phthalate	ND	370	94	ug/kg	
131-11-3	Dimethyl phthalate	ND	370	94	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	370	190	ug/kg	
206-44-0	Fluoranthene	ND	190	37	ug/kg	
86-73-7	Fluorene	ND	190	37	ug/kg	
118-74-1	Hexachlorobenzene	ND	190	37	ug/kg	
87-68-3	Hexachlorobutadiene	ND	190	75	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	190	75	ug/kg	
67-72-1	Hexachloroethane	ND	190	75	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	190	75	ug/kg	
78-59-1	Isophorone	ND	190	37	ug/kg	
91-57-6	2-Methylnaphthalene	ND	190	37	ug/kg	
91-20-3	Naphthalene	ND	190	37	ug/kg	
98-95-3	Nitrobenzene	ND	190	37	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	190	75	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	190	37	ug/kg	
85-01-8	Phenanthrene	ND	190	37	ug/kg	
129-00-0	Pyrene	ND	190	75	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	190	37	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	54%		45-114%
4165-62-2	Phenol-d5	53%		44-124%
118-79-6	2,4,6-Tribromophenol	74%		50-128%
4165-60-0	Nitrobenzene-d5	62%		41-123%
321-60-8	2-Fluorobiphenyl	61%		46-122%
1718-51-0	Terphenyl-d14	68%		45-135%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	FC201SS002	Date Sampled:	09/06/06
Lab Sample ID:	F43446-2	Date Received:	09/07/06
Matrix:	SO - Soil	Percent Solids:	88.1
Method:	MADEP VPH		
Project:	FC 201/TT2477; Camp Lejeune, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV023867.D	1	09/15/06	MM	n/a	n/a	GUV1377
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.06 g	5.1 ml	100 ul
Run #2			

MADEP VPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
	C5- C8 Aliphatics (Unadj.)	ND	4300	2300	ug/kg	
	C9- C12 Aliphatics (Unadj.)	ND	3100	1700	ug/kg	
	C9- C10 Aromatics (Unadj.)	ND	1100	570	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	BFB	86%		70-130%
460-00-4	BFB	84%		70-130%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID: FC201SS002

Lab Sample ID: F43446-2

Date Sampled: 09/06/06

Matrix: SO - Soil

Date Received: 09/07/06

Method: MADEP-EPH-98-1 SW846 3550B

Percent Solids: 88.1

Project: FC 201/TT2477; Camp Lejeune, NC

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF21440.D	1	09/20/06	ME	09/13/06	OP17843	GZF1008
Run #2							

	Initial Weight	Final Volume
Run #1	31.6 g	2.0 ml
Run #2		

MAEPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
	C11-C22 Aromatics (Unadj.)	8090	7200	7200	ug/kg	
	C9-C18 Aliphatics	ND	7200	7200	ug/kg	
	C19-C36 Aliphatics	69300	7200	7200	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	78%		40-140%
580-13-2	2-Bromonaphthalene	43%		40-140%
84-15-1	o-Terphenyl	76%		40-140%
321-60-8	2-Fluorobiphenyl	81%		40-140%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: FC201SS002

Lab Sample ID: F43446-2

Matrix: SO - Soil

Date Sampled: 09/06/06

Date Received: 09/07/06

Percent Solids: 88.1

Project: FC 201/TT2477; Camp Lejeune, NC

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	1160	21	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Antimony	< 6.4	6.4	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Arsenic	< 0.86	0.86	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Barium	< 21	21	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Beryllium	< 0.54	0.54	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Cadmium	< 0.43	0.43	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Calcium	2150	540	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Chromium	2.0	1.1	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Cobalt	< 5.4	5.4	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Copper	< 2.7	2.7	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Iron	545	11	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Lead	< 11	11	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Magnesium	< 540	540	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Manganese	5.5	1.6	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Mercury	< 0.085	0.085	mg/kg	1	09/09/06	09/09/06 MS	SW846 7471A ¹	SW846 7471A ³
Nickel	< 4.3	4.3	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Potassium ^a	< 2200	2200	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Selenium	< 11	11	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Silver	< 1.1	1.1	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Sodium ^a	< 2200	2200	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Thallium ^b	< 4.4	4.4	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Vanadium	< 5.4	5.4	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Zinc	10.7	2.1	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴

(1) Instrument QC Batch: MA5219

(2) Instrument QC Batch: MA5237

(3) Prep QC Batch: MP10283

(4) Prep QC Batch: MP10328

(a) Elevated RL/MDL due to CRIA exceeding acceptance criteria.

(b) Elevated RL/MDL due to negative bias of Method Blank.

RL = Reporting Limit

Report of Analysis

Page 1 of 2

Client Sample ID:	FC201SS003	Date Sampled:	09/06/06
Lab Sample ID:	F43446-3	Date Received:	09/07/06
Matrix:	SO - Soil	Percent Solids:	88.9
Method:	SW846 8260B SW846 5035		
Project:	FC 201/TT2477; Camp Lejeune, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K028334.D	1	09/13/06	WJ	09/07/06 12:35	n/a	VK1262
Run #2							

	Initial Weight
Run #1	5.27 g
Run #2	

VOA List for NC

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	53	27	ug/kg	
71-43-2	Benzene	ND	5.3	2.1	ug/kg	
108-86-1	Bromobenzene	ND	5.3	2.1	ug/kg	
74-97-5	Bromochloromethane	ND	5.3	2.1	ug/kg	
75-27-4	Bromodichloromethane	ND	5.3	2.1	ug/kg	
75-25-2	Bromoform	ND	5.3	2.1	ug/kg	
104-51-8	n-Butylbenzene	ND	5.3	3.2	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.3	2.1	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.3	2.1	ug/kg	
108-90-7	Chlorobenzene	ND	5.3	2.1	ug/kg	
75-00-3	Chloroethane	ND	5.3	3.2	ug/kg	
67-66-3	Chloroform	ND	5.3	2.1	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.3	2.1	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.3	2.1	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.3	2.1	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.3	2.1	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.3	2.1	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.3	2.1	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.3	2.1	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.3	2.1	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.3	2.1	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.3	2.1	ug/kg	
108-20-3	Di-Isopropyl ether	ND	5.3	2.1	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.3	2.1	ug/kg	
124-48-1	Dibromochloromethane	ND	5.3	2.1	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.3	3.2	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.3	2.1	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.3	2.1	ug/kg	
541-73-1	m-Dichlorobenzene	ND	5.3	2.1	ug/kg	
95-50-1	o-Dichlorobenzene	ND	5.3	2.1	ug/kg	
106-46-7	p-Dichlorobenzene	ND	5.3	2.1	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.3	2.1	ug/kg	

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FC201SS003	Date Sampled:	09/06/06
Lab Sample ID:	F43446-3	Date Received:	09/07/06
Matrix:	SO - Soil	Percent Solids:	88.9
Method:	SW846 8260B SW846 5035		
Project:	FC 201/TT2477; Camp Lejeune, NC		

VOA List for NC

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	5.3	2.1	ug/kg	
100-41-4	Ethylbenzene	ND	5.3	2.1	ug/kg	
591-78-6	2-Hexanone	ND	27	11	ug/kg	
98-82-8	Isopropylbenzene	ND	5.3	2.1	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.3	2.1	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	27	11	ug/kg	
74-83-9	Methyl bromide	ND	5.3	2.1	ug/kg	
74-87-3	Methyl chloride	ND	5.3	2.1	ug/kg	
75-09-2	Methylene chloride	10.6	11	5.3	ug/kg	J
78-93-3	Methyl ethyl ketone	ND	27	11	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.3	2.1	ug/kg	
91-20-3	Naphthalene	ND	5.3	2.1	ug/kg	
103-65-1	n-Propylbenzene	ND	5.3	2.1	ug/kg	
100-42-5	Styrene	ND	5.3	2.1	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.3	2.1	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.3	2.1	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.3	2.1	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.3	2.1	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.3	2.7	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.3	2.1	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.3	3.2	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.3	2.1	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.3	2.1	ug/kg	
108-88-3	Toluene	ND	5.3	2.1	ug/kg	
79-01-6	Trichloroethylene	ND	5.3	2.1	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.3	2.1	ug/kg	
75-01-4	Vinyl chloride	ND	5.3	2.1	ug/kg	
108-05-4	Vinyl Acetate	ND	27	11	ug/kg	
1330-20-7	Xylene (total)	ND	16	5.3	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		78-123%
2037-26-5	Toluene-D8	122%		71-137%
460-00-4	4-Bromofluorobenzene	124%		61-157%
17060-07-0	1,2-Dichloroethane-D4	100%		74-125%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 2

Client Sample ID: FC201SS003
Lab Sample ID: F43446-3
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: FC 201/TT2477; Camp Lejeune, NC

Date Sampled: 09/06/06
Date Received: 09/07/06
Percent Solids: 88.9

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R04979.D	1	09/14/06	NJ	09/14/06	OP17858	SR236
Run #2							

	Initial Weight	Final Volume
Run #1	30.8 g	1.0 ml
Run #2		

ABN List for NC

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic acid	ND	910	370	ug/kg	
95-57-8	2-Chlorophenol	ND	180	37	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	180	37	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	180	37	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	180	37	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	910	370	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	370	73	ug/kg	
95-48-7	2-Methylphenol	ND	180	37	ug/kg	
	3&4-Methylphenol	ND	180	37	ug/kg	
88-75-5	2-Nitrophenol	ND	180	37	ug/kg	
100-02-7	4-Nitrophenol	ND	910	370	ug/kg	
87-86-5	Pentachlorophenol	ND	910	370	ug/kg	
108-95-2	Phenol	ND	180	37	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	180	37	ug/kg	
83-32-9	Acenaphthene	ND	180	37	ug/kg	
208-96-8	Acenaphthylene	ND	180	37	ug/kg	
120-12-7	Anthracene	ND	180	37	ug/kg	
56-55-3	Benzo(a)anthracene	ND	180	37	ug/kg	
50-32-8	Benzo(a)pyrene	ND	180	37	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	180	37	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	180	73	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	180	37	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	180	37	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	370	91	ug/kg	
100-51-6	Benzyl Alcohol	ND	180	37	ug/kg	
91-58-7	2-Chloronaphthalene	ND	180	37	ug/kg	
106-47-8	4-Chloroaniline	ND	370	150	ug/kg	
218-01-9	Chrysene	ND	180	37	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	180	37	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	180	73	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	180	37	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	180	37	ug/kg	

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FC201SS003	Date Sampled:	09/06/06
Lab Sample ID:	F43446-3	Date Received:	09/07/06
Matrix:	SO - Soil	Percent Solids:	88.9
Method:	SW846 8270C SW846 3550B		
Project:	FC 201/TT2477; Camp Lejeune, NC		

ABN List for NC

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	180	37	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	180	37	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	180	37	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	180	37	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	180	73	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	180	73	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	370	180	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	180	73	ug/kg	
132-64-9	Dibenzofuran	ND	180	37	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	370	91	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	370	180	ug/kg	
84-66-2	Diethyl phthalate	ND	370	91	ug/kg	
131-11-3	Dimethyl phthalate	ND	370	91	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	370	180	ug/kg	
206-44-0	Fluoranthene	ND	180	37	ug/kg	
86-73-7	Fluorene	ND	180	37	ug/kg	
118-74-1	Hexachlorobenzene	ND	180	37	ug/kg	
87-68-3	Hexachlorobutadiene	ND	180	73	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	180	73	ug/kg	
67-72-1	Hexachloroethane	ND	180	73	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	180	73	ug/kg	
78-59-1	Isophorone	ND	180	37	ug/kg	
91-57-6	2-Methylnaphthalene	ND	180	37	ug/kg	
91-20-3	Naphthalene	ND	180	37	ug/kg	
98-95-3	Nitrobenzene	ND	180	37	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	180	73	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	180	37	ug/kg	
85-01-8	Phenanthrene	ND	180	37	ug/kg	
129-00-0	Pyrene	ND	180	73	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	180	37	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	74%		45-114%
4165-62-2	Phenol-d5	67%		44-124%
118-79-6	2,4,6-Tribromophenol	85%		50-128%
4165-60-0	Nitrobenzene-d5	75%		41-123%
321-60-8	2-Fluorobiphenyl	71%		46-122%
1718-51-0	Terphenyl-d14	79%		45-135%

ND = Not detected MDL - Method Detection Limit
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J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID: FC201SS003
Lab Sample ID: F43446-3
Matrix: SO - Soil
Method: MADEP VPH
Project: FC 201/TT2477; Camp Lejeune, NC

Date Sampled: 09/06/06
Date Received: 09/07/06
Percent Solids: 88.9

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV023868.D	1	09/15/06	MM	n/a	n/a	GUV1377
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.32 g	5.1 ml	100 ul
Run #2			

MADEP VPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
	C5- C8 Aliphatics (Unadj.)	ND	4000	2200	ug/kg	
	C9- C12 Aliphatics (Unadj.)	ND	3000	1600	ug/kg	
	C9- C10 Aromatics (Unadj.)	ND	1100	540	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	BFB	84%		70-130%
460-00-4	BFB	82%		70-130%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	FC201SS003	Date Sampled:	09/06/06
Lab Sample ID:	F43446-3	Date Received:	09/07/06
Matrix:	SO - Soil	Percent Solids:	88.9
Method:	MADEP-EPH-98-1 SW846 3550B		
Project:	FC 201/TT2477; Camp Lejeune, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF21441.D	5	09/20/06	ME	09/13/06	OP17843	GZF1008
Run #2							

	Initial Weight	Final Volume
Run #1	31.2 g	2.0 ml
Run #2		

MAEPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
	C11-C22 Aromatics (Unadj.)	62500	36000	36000	ug/kg	
	C9-C18 Aliphatics	ND	36000	36000	ug/kg	
	C19-C36 Aliphatics	224000	36000	36000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	60%		40-140%
580-13-2	2-Bromonaphthalene	61%		40-140%
84-15-1	o-Terphenyl	74%		40-140%
321-60-8	2-Fluorobiphenyl	91%		40-140%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: FC201SS003	Date Sampled: 09/06/06
Lab Sample ID: F43446-3	Date Received: 09/07/06
Matrix: SO - Soil	Percent Solids: 88.9
Project: FC 201/TT2477; Camp Lejeune, NC	

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	4220	22	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Antimony	< 6.5	6.5	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Arsenic	< 0.87	0.87	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Barium	< 22	22	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Beryllium	< 0.54	0.54	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Cadmium	< 0.43	0.43	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Calcium	1160	540	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Chromium	5.6	1.1	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Cobalt	< 5.4	5.4	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Copper	< 2.7	2.7	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Iron	1170	11	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Lead	15.3	11	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Magnesium	< 540	540	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Manganese	5.5	1.6	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Mercury	< 0.092	0.092	mg/kg	1	09/09/06	09/09/06 MS	SW846 7471A ¹	SW846 7471A ³
Nickel	< 4.3	4.3	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Potassium ^a	< 2200	2200	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Selenium	< 11	11	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Silver	< 1.1	1.1	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Sodium ^a	< 2200	2200	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Thallium ^b	< 4.4	4.4	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Vanadium	< 5.4	5.4	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Zinc	72.9	2.2	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴

(1) Instrument QC Batch: MA5219

(2) Instrument QC Batch: MA5237

(3) Prep QC Batch: MP10283

(4) Prep QC Batch: MP10328

(a) Elevated RL/MDL due to CRIA exceeding acceptance criteria.

(b) Elevated RL/MDL due to negative bias of Method Blank.

RL = Reporting Limit

Report of Analysis

Client Sample ID: FC201SS004

Lab Sample ID: F43446-4

Date Sampled: 09/06/06

Matrix: SO - Soil

Date Received: 09/07/06

Method: SW846 8260B SW846 5035

Percent Solids: 91.1

Project: FC 201/TT2477; Camp Lejeune, NC

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K028335.D	1	09/13/06	WJ	09/07/06 12:35	n/a	VK1262
Run #2							

Initial Weight

Run #1 5.25 g

Run #2

VOA List for NC

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	52	26	ug/kg	
71-43-2	Benzene	ND	5.2	2.1	ug/kg	
108-86-1	Bromobenzene	ND	5.2	2.1	ug/kg	
74-97-5	Bromochloromethane	ND	5.2	2.1	ug/kg	
75-27-4	Bromodichloromethane	ND	5.2	2.1	ug/kg	
75-25-2	Bromoform	ND	5.2	2.1	ug/kg	
104-51-8	n-Butylbenzene	ND	5.2	3.1	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.2	2.1	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.2	2.1	ug/kg	
108-90-7	Chlorobenzene	ND	5.2	2.1	ug/kg	
75-00-3	Chloroethane	ND	5.2	3.1	ug/kg	
67-66-3	Chloroform	ND	5.2	2.1	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.2	2.1	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.2	2.1	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.2	2.1	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.2	2.1	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.2	2.1	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.2	2.1	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.2	2.1	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.2	2.1	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.2	2.1	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.2	2.1	ug/kg	
108-20-3	Di-Isopropyl ether	ND	5.2	2.1	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.2	2.1	ug/kg	
124-48-1	Dibromochloromethane	ND	5.2	2.1	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.2	3.1	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.2	2.1	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.2	2.1	ug/kg	
541-73-1	m-Dichlorobenzene	ND	5.2	2.1	ug/kg	
95-50-1	o-Dichlorobenzene	ND	5.2	2.1	ug/kg	
106-46-7	p-Dichlorobenzene	ND	5.2	2.1	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.2	2.1	ug/kg	

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FC201SS004	Date Sampled:	09/06/06
Lab Sample ID:	F43446-4	Date Received:	09/07/06
Matrix:	SO - Soil	Percent Solids:	91.1
Method:	SW846 8260B SW846 5035		
Project:	FC 201/TT2477; Camp Lejeune, NC		

VOA List for NC

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	5.2	2.1	ug/kg	
100-41-4	Ethylbenzene	ND	5.2	2.1	ug/kg	
591-78-6	2-Hexanone	ND	26	10	ug/kg	
98-82-8	Isopropylbenzene	ND	5.2	2.1	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.2	2.1	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	26	10	ug/kg	
74-83-9	Methyl bromide	ND	5.2	2.1	ug/kg	
74-87-3	Methyl chloride	ND	5.2	2.1	ug/kg	
75-09-2	Methylene chloride	9.7	10	5.2	ug/kg	J
78-93-3	Methyl ethyl ketone	ND	26	10	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.2	2.1	ug/kg	
91-20-3	Naphthalene	ND	5.2	2.1	ug/kg	
103-65-1	n-Propylbenzene	ND	5.2	2.1	ug/kg	
100-42-5	Styrene	ND	5.2	2.1	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.2	2.1	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.2	2.1	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.2	2.1	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.2	2.1	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.2	2.6	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.2	2.1	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.2	3.1	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.2	2.1	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.2	2.1	ug/kg	
108-88-3	Toluene	ND	5.2	2.1	ug/kg	
79-01-6	Trichloroethylene	ND	5.2	2.1	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.2	2.1	ug/kg	
75-01-4	Vinyl chloride	ND	5.2	2.1	ug/kg	
108-05-4	Vinyl Acetate	ND	26	10	ug/kg	
1330-20-7	Xylene (total)	ND	16	5.2	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		78-123%
2037-26-5	Toluene-D8	111%		71-137%
460-00-4	4-Bromofluorobenzene	115%		61-157%
17060-07-0	1,2-Dichloroethane-D4	100%		74-125%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 2

Client Sample ID: FC201SS004
Lab Sample ID: F43446-4
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: FC 201/TT2477; Camp Lejeune, NC

Date Sampled: 09/06/06
Date Received: 09/07/06
Percent Solids: 91.1

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	R04980.D	1	09/14/06	NJ	09/14/06	OP17858	SR236
Run #2							

	Initial Weight	Final Volume
Run #1	30.6 g	1.0 ml
Run #2		

ABN List for NC

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic acid	ND	900	360	ug/kg	
95-57-8	2-Chlorophenol	ND	180	36	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	180	36	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	180	36	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	180	36	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	900	360	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	360	72	ug/kg	
95-48-7	2-Methylphenol	ND	180	36	ug/kg	
	3&4-Methylphenol	ND	180	36	ug/kg	
88-75-5	2-Nitrophenol	ND	180	36	ug/kg	
100-02-7	4-Nitrophenol	ND	900	360	ug/kg	
87-86-5	Pentachlorophenol	ND	900	360	ug/kg	
108-95-2	Phenol	ND	180	36	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	180	36	ug/kg	
83-32-9	Acenaphthene	ND	180	36	ug/kg	
208-96-8	Acenaphthylene	ND	180	36	ug/kg	
120-12-7	Anthracene	ND	180	36	ug/kg	
56-55-3	Benzo(a)anthracene	ND	180	36	ug/kg	
50-32-8	Benzo(a)pyrene	ND	180	36	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	180	36	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	180	72	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	180	36	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	180	36	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	360	90	ug/kg	
100-51-6	Benzyl Alcohol	ND	180	36	ug/kg	
91-58-7	2-Chloronaphthalene	ND	180	36	ug/kg	
106-47-8	4-Chloroaniline	ND	360	140	ug/kg	
218-01-9	Chrysene	ND	180	36	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	180	36	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	180	72	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	180	36	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	180	36	ug/kg	

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FC201SS004	Date Sampled:	09/06/06
Lab Sample ID:	F43446-4	Date Received:	09/07/06
Matrix:	SO - Soil	Percent Solids:	91.1
Method:	SW846 8270C SW846 3550B		
Project:	FC 201/TT2477; Camp Lejeune, NC		

ABN List for NC

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	180	36	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	180	36	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	180	36	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	180	36	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	180	72	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	180	72	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	360	180	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	180	72	ug/kg	
132-64-9	Dibenzofuran	ND	180	36	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	360	90	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	360	180	ug/kg	
84-66-2	Diethyl phthalate	ND	360	90	ug/kg	
131-11-3	Dimethyl phthalate	ND	360	90	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	360	180	ug/kg	
206-44-0	Fluoranthene	ND	180	36	ug/kg	
86-73-7	Fluorene	ND	180	36	ug/kg	
118-74-1	Hexachlorobenzene	ND	180	36	ug/kg	
87-68-3	Hexachlorobutadiene	ND	180	72	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	180	72	ug/kg	
67-72-1	Hexachloroethane	ND	180	72	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	180	72	ug/kg	
78-59-1	Isophorone	ND	180	36	ug/kg	
91-57-6	2-Methylnaphthalene	ND	180	36	ug/kg	
91-20-3	Naphthalene	ND	180	36	ug/kg	
98-95-3	Nitrobenzene	ND	180	36	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	180	72	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	180	36	ug/kg	
85-01-8	Phenanthrene	ND	180	36	ug/kg	
129-00-0	Pyrene	ND	180	72	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	180	36	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	80%		45-114%
4165-62-2	Phenol-d5	80%		44-124%
118-79-6	2,4,6-Tribromophenol	94%		50-128%
4165-60-0	Nitrobenzene-d5	84%		41-123%
321-60-8	2-Fluorobiphenyl	82%		46-122%
1718-51-0	Terphenyl-d14	92%		45-135%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	FC201SS004	Date Sampled:	09/06/06
Lab Sample ID:	F43446-4	Date Received:	09/07/06
Matrix:	SO - Soil	Percent Solids:	91.1
Method:	MADEP VPH		
Project:	FC 201/TT2477; Camp Lejeune, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV023869.D	1	09/15/06	MM	n/a	n/a	GUV1377
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.20 g	5.1 ml	100 ul
Run #2			

MADEP VPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
	C5- C8 Aliphatics (Unadj.)	ND	4000	2200	ug/kg	
	C9- C12 Aliphatics (Unadj.)	ND	3000	1600	ug/kg	
	C9- C10 Aromatics (Unadj.)	ND	1100	540	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	BFB	80%		70-130%
460-00-4	BFB	78%		70-130%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID: FC201SS004

Lab Sample ID: F43446-4

Matrix: SO - Soil

Method: MADEP-EPH-98-1 SW846 3550B

Project: FC 201/TT2477; Camp Lejeune, NC

Date Sampled: 09/06/06

Date Received: 09/07/06

Percent Solids: 91.1

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF21442.D	4	09/20/06	ME	09/13/06	OP17843	GZF1008
Run #2							

	Initial Weight	Final Volume
Run #1	30.8 g	2.0 ml
Run #2		

MAEPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
	C11-C22 Aromatics (Unadj.)	ND	29000	29000	ug/kg	
	C9-C18 Aliphatics	ND	29000	29000	ug/kg	
	C19-C36 Aliphatics	146000	29000	29000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	72%		40-140%
580-13-2	2-Bromonaphthalene	55%		40-140%
84-15-1	o-Terphenyl	78%		40-140%
321-60-8	2-Fluorobiphenyl	87%		40-140%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: FC201SS004

Lab Sample ID: F43446-4

Matrix: SO - Soil

Date Sampled: 09/06/06

Date Received: 09/07/06

Percent Solids: 91.1

Project: FC 201/TT2477; Camp Lejeune, NC

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	2850	22	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Antimony	< 6.6	6.6	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Arsenic	< 0.88	0.88	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Barium	< 22	22	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Beryllium	< 0.55	0.55	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Cadmium	< 0.44	0.44	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Calcium	8970	550	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Chromium	5.7	1.1	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Cobalt	< 5.5	5.5	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Copper	4.4	2.7	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Iron	1620	11	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Lead	15.5	11	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Magnesium	< 550	550	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Manganese	12.3	1.6	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Mercury	< 0.083	0.083	mg/kg	1	09/09/06	09/09/06 MS	SW846 7471A ¹	SW846 7471A ³
Nickel	< 4.4	4.4	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Potassium ^a	< 2200	2200	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Selenium	< 11	11	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Silver	< 1.1	1.1	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Sodium ^a	< 2200	2200	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Thallium ^b	< 4.4	4.4	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Vanadium	< 5.5	5.5	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Zinc	86.3	2.2	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴

(1) Instrument QC Batch: MA5219

(2) Instrument QC Batch: MA5237

(3) Prep QC Batch: MP10283

(4) Prep QC Batch: MP10328

(a) Elevated RL/MDL due to CRIA exceeding acceptance criteria.

(b) Elevated RL/MDL due to negative bias of Method Blank.

RL = Reporting Limit

Report of Analysis

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Client Sample ID: FC201SS005
Lab Sample ID: F43446-5
Matrix: SO - Soil
Method: SW846 8260B SW846 5035
Project: FC 201/TT2477; Camp Lejeune, NC

Date Sampled: 09/06/06
Date Received: 09/07/06
Percent Solids: 89.7

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K028336.D	1	09/13/06	WJ	09/07/06 12:35	n/a	VK1262
Run #2							

Run #	Initial Weight
Run #1	5.02 g
Run #2	

VOA List for NC

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	56	28	ug/kg	
71-43-2	Benzene	ND	5.6	2.2	ug/kg	
108-86-1	Bromobenzene	ND	5.6	2.2	ug/kg	
74-97-5	Bromochloromethane	ND	5.6	2.2	ug/kg	
75-27-4	Bromodichloromethane	ND	5.6	2.2	ug/kg	
75-25-2	Bromoform	ND	5.6	2.2	ug/kg	
104-51-8	n-Butylbenzene	8.2	5.6	3.3	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.6	2.2	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.6	2.2	ug/kg	
108-90-7	Chlorobenzene	ND	5.6	2.2	ug/kg	
75-00-3	Chloroethane	ND	5.6	3.3	ug/kg	
67-66-3	Chloroform	ND	5.6	2.2	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.6	2.2	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.6	2.2	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.6	2.2	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.6	2.2	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.6	2.2	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.6	2.2	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.6	2.2	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.6	2.2	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.6	2.2	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.6	2.2	ug/kg	
108-20-3	Di-Isopropyl ether	ND	5.6	2.2	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.6	2.2	ug/kg	
124-48-1	Dibromochloromethane	ND	5.6	2.2	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.6	3.3	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.6	2.2	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.6	2.2	ug/kg	
541-73-1	m-Dichlorobenzene	ND	5.6	2.2	ug/kg	
95-50-1	o-Dichlorobenzene	ND	5.6	2.2	ug/kg	
106-46-7	p-Dichlorobenzene	ND	5.6	2.2	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.6	2.2	ug/kg	

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FC201SS005	Date Sampled:	09/06/06
Lab Sample ID:	F43446-5	Date Received:	09/07/06
Matrix:	SO - Soil	Percent Solids:	89.7
Method:	SW846 8260B SW846 5035		
Project:	FC 201/TT2477; Camp Lejeune, NC		

VOA List for NC

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	5.6	2.2	ug/kg	
100-41-4	Ethylbenzene	ND	5.6	2.2	ug/kg	
591-78-6	2-Hexanone	ND	28	11	ug/kg	
98-82-8	Isopropylbenzene	ND	5.6	2.2	ug/kg	
99-87-6	p-Isopropyltoluene	14.1	5.6	2.2	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	28	11	ug/kg	
74-83-9	Methyl bromide	ND	5.6	2.2	ug/kg	
74-87-3	Methyl chloride	ND	5.6	2.2	ug/kg	
75-09-2	Methylene chloride	8.1	11	5.6	ug/kg	J
78-93-3	Methyl ethyl ketone	ND	28	11	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.6	2.2	ug/kg	
91-20-3	Naphthalene	ND	5.6	2.2	ug/kg	
103-65-1	n-Propylbenzene	ND	5.6	2.2	ug/kg	
100-42-5	Styrene	ND	5.6	2.2	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.6	2.2	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.6	2.2	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.6	2.2	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.6	2.2	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.6	2.8	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.6	2.2	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	71.7	5.6	3.3	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	90.3	5.6	2.2	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.6	2.2	ug/kg	
108-88-3	Toluene	ND	5.6	2.2	ug/kg	
79-01-6	Trichloroethylene	ND	5.6	2.2	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.6	2.2	ug/kg	
75-01-4	Vinyl chloride	ND	5.6	2.2	ug/kg	
108-05-4	Vinyl Acetate	ND	28	11	ug/kg	
1330-20-7	Xylene (total)	15.4	17	5.6	ug/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		78-123%
2037-26-5	Toluene-D8	107%		71-137%
460-00-4	4-Bromofluorobenzene	168% ^a		61-157%
17060-07-0	1,2-Dichloroethane-D4	103%		74-125%

(a) Outside control limits due to matrix interference.

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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2.5
2

Client Sample ID: FC201SS005	Date Sampled: 09/06/06
Lab Sample ID: F43446-5	Date Received: 09/07/06
Matrix: SO - Soil	Percent Solids: 89.7
Method: SW846 8270C SW846 3550B	
Project: FC 201/TT2477; Camp Lejeune, NC	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	L033928.D	4	09/22/06	NJ	09/12/06	OP17837	SL1743
Run #2							

	Initial Weight	Final Volume
Run #1	30.7 g	1.0 ml
Run #2		

ABN List for NC

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic acid	ND	3600	1500	ug/kg	
95-57-8	2-Chlorophenol	ND	730	150	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	730	150	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	730	150	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	730	150	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	3600	1500	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	1500	290	ug/kg	
95-48-7	2-Methylphenol	ND	730	150	ug/kg	
	3&4-Methylphenol	ND	730	150	ug/kg	
88-75-5	2-Nitrophenol	ND	730	150	ug/kg	
100-02-7	4-Nitrophenol	ND	3600	1500	ug/kg	
87-86-5	Pentachlorophenol	ND	3600	1500	ug/kg	
108-95-2	Phenol	ND	730	150	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	730	150	ug/kg	
83-32-9	Acenaphthene	ND	730	150	ug/kg	
208-96-8	Acenaphthylene	ND	730	150	ug/kg	
120-12-7	Anthracene	ND	730	150	ug/kg	
56-55-3	Benzo(a)anthracene	ND	730	150	ug/kg	
50-32-8	Benzo(a)pyrene	ND	730	150	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	730	150	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	730	290	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	730	150	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	730	150	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	1500	360	ug/kg	
100-51-6	Benzyl Alcohol	ND	730	150	ug/kg	
91-58-7	2-Chloronaphthalene	ND	730	150	ug/kg	
106-47-8	4-Chloroaniline	ND	1500	580	ug/kg	
218-01-9	Chrysene	ND	730	150	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	730	150	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	730	290	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	730	150	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	730	150	ug/kg	

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FC201SS005	Date Sampled:	09/06/06
Lab Sample ID:	F43446-5	Date Received:	09/07/06
Matrix:	SO - Soil	Percent Solids:	89.7
Method:	SW846 8270C SW846 3550B		
Project:	FC 201/TT2477; Camp Lejeune, NC		

ABN List for NC

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	730	150	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	730	150	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	730	150	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	730	150	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	730	290	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	730	290	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	1500	730	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	730	290	ug/kg	
132-64-9	Dibenzofuran	ND	730	150	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	1500	360	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	1500	730	ug/kg	
84-66-2	Diethyl phthalate	ND	1500	360	ug/kg	
131-11-3	Dimethyl phthalate	ND	1500	360	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	1500	730	ug/kg	
206-44-0	Fluoranthene	ND	730	150	ug/kg	
86-73-7	Fluorene	ND	730	150	ug/kg	
118-74-1	Hexachlorobenzene	ND	730	150	ug/kg	
87-68-3	Hexachlorobutadiene	ND	730	290	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	730	290	ug/kg	
67-72-1	Hexachloroethane	ND	730	290	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	730	290	ug/kg	
78-59-1	Isophorone	ND	730	150	ug/kg	
91-57-6	2-Methylnaphthalene	ND	730	150	ug/kg	
91-20-3	Naphthalene	ND	730	150	ug/kg	
98-95-3	Nitrobenzene	ND	730	150	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	730	290	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	730	150	ug/kg	
85-01-8	Phenanthrene	ND	730	150	ug/kg	
129-00-0	Pyrene	ND	730	290	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	730	150	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	71%		45-114%
4165-62-2	Phenol-d5	75%		44-124%
118-79-6	2,4,6-Tribromophenol	69%		50-128%
4165-60-0	Nitrobenzene-d5	68%		41-123%
321-60-8	2-Fluorobiphenyl	69%		46-122%
1718-51-0	Terphenyl-d14	64%		45-135%

ND = Not detected MDL = Method Detection Limit
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 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	FC201SS005	Date Sampled:	09/06/06
Lab Sample ID:	F43446-5	Date Received:	09/07/06
Matrix:	SO - Soil	Percent Solids:	89.7
Method:	SW846 8270C SW846 3550B		
Project:	FC 201/TT2477; Camp Lejeune, NC		

ABN List for NC

CAS No.	Compound	Result	RL	MDL	Units	Q
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(a) Associated Blank Spike outside QC limits; insufficient sample for re-extraction. Dilution required due to matrix interference.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID: FC201SS005

Lab Sample ID: F43446-5

Date Sampled: 09/06/06

Matrix: SO - Soil

Date Received: 09/07/06

Method: MADEP VPH

Percent Solids: 89.7

Project: FC 201/TT2477; Camp Lejeune, NC

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV023870.D	1	09/15/06	MM	n/a	n/a	GUV1377
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.16 g	5.1 ml	100 ul
Run #2			

MADEP VPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
	C5- C8 Aliphatics (Unadj.)	ND	4100	2200	ug/kg	
	C9- C12 Aliphatics (Unadj.)	6800	3000	1700	ug/kg	
	C9- C10 Aromatics (Unadj.)	4460	1100	550	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	BFB	83%		70-130%
460-00-4	BFB	86%		70-130%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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2

Client Sample ID:	FC201SS005	Date Sampled:	09/06/06
Lab Sample ID:	F43446-5	Date Received:	09/07/06
Matrix:	SO - Soil	Percent Solids:	89.7
Method:	MADEP-EPH-98-1 SW846 3550B		
Project:	FC 201/TT2477; Camp Lejeune, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF21422.D	10	09/19/06	ME	09/13/06	OP17843	GZF1007
Run #2							

	Initial Weight	Final Volume
Run #1	29.4 g	2.0 ml
Run #2		

MAEPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
	C11-C22 Aromatics (Unadj.)	101000	76000	76000	ug/kg	
	C9-C18 Aliphatics	ND	76000	76000	ug/kg	
	C19-C36 Aliphatics	990000	76000	76000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	100%		40-140%
580-13-2	2-Bromonaphthalene	56%		40-140%
84-15-1	o-Terphenyl	84%		40-140%
321-60-8	2-Fluorobiphenyl	86%		40-140%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: FC201SS005

Lab Sample ID: F43446-5

Matrix: SO - Soil

Date Sampled: 09/06/06

Date Received: 09/07/06

Percent Solids: 89.7

Project: FC 201/TT2477; Camp Lejeune, NC

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	1370	22	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Antimony	< 6.7	6.7	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Arsenic	< 0.89	0.89	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Barium	< 22	22	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Beryllium	< 0.56	0.56	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Cadmium	< 0.45	0.45	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Calcium	1450	560	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Chromium	2.2	1.1	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Cobalt	< 5.6	5.6	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Copper	< 2.8	2.8	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Iron	683	11	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Lead	11.3	11	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Magnesium	< 560	560	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Manganese	4.1	1.7	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Mercury	< 0.090	0.090	mg/kg	1	09/09/06	09/09/06 MS	SW846 7471A ¹	SW846 7471A ³
Nickel	< 4.5	4.5	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Potassium ^a	< 2200	2200	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Selenium	< 11	11	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Silver	< 1.1	1.1	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Sodium ^a	< 2200	2200	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Thallium ^b	< 4.4	4.4	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Vanadium	< 5.6	5.6	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴
Zinc	34.6	2.2	mg/kg	1	09/18/06	09/18/06 RS	SW846 6010B ²	SW846 3050B ⁴

(1) Instrument QC Batch: MA5219

(2) Instrument QC Batch: MA5237

(3) Prep QC Batch: MP10283

(4) Prep QC Batch: MP10328

(a) Elevated RL/MDL due to CRIA exceeding acceptance criteria.

(b) Elevated RU/MDL due to negative bias of Method Blank.

RL = Reporting Limit

Report of Analysis

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Client Sample ID: TT2477SS001	Date Sampled: 09/06/06
Lab Sample ID: F43446-6	Date Received: 09/07/06
Matrix: SO - Soil	Percent Solids: 78.0
Method: SW846 8260B SW846 5035	
Project: FC 201/TT2477; Camp Lejeune, NC	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K028339.D	1	09/13/06	WJ	09/07/06 12:40	n/a	VK1262
Run #2							

	Initial Weight
Run #1	5.97 g
Run #2	

VOA List for NC

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	39.7	54	27	ug/kg	J
71-43-2	Benzene	ND	5.4	2.1	ug/kg	
108-86-1	Bromobenzene	ND	5.4	2.1	ug/kg	
74-97-5	Bromochloromethane	ND	5.4	2.1	ug/kg	
75-27-4	Bromodichloromethane	ND	5.4	2.1	ug/kg	
75-25-2	Bromoform	ND	5.4	2.1	ug/kg	
104-51-8	n-Butylbenzene	367	5.4	3.2	ug/kg	E
135-98-8	sec-Butylbenzene	233	5.4	2.1	ug/kg	E
98-06-6	tert-Butylbenzene	ND	5.4	2.1	ug/kg	
108-90-7	Chlorobenzene	ND	5.4	2.1	ug/kg	
75-00-3	Chloroethane	ND	5.4	3.2	ug/kg	
67-66-3	Chloroform	ND	5.4	2.1	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.4	2.1	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.4	2.1	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.4	2.1	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.4	2.1	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.4	2.1	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.4	2.1	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.4	2.1	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.4	2.1	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.4	2.1	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.4	2.1	ug/kg	
108-20-3	Di-Isopropyl ether	ND	5.4	2.1	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.4	2.1	ug/kg	
124-48-1	Dibromochloromethane	ND	5.4	2.1	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.4	3.2	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.4	2.1	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.4	2.1	ug/kg	
541-73-1	m-Dichlorobenzene	ND	5.4	2.1	ug/kg	
95-50-1	o-Dichlorobenzene	ND	5.4	2.1	ug/kg	
106-46-7	p-Dichlorobenzene	ND	5.4	2.1	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.4	2.1	ug/kg	

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TT2477SS001	Date Sampled:	09/06/06
Lab Sample ID:	F43446-6	Date Received:	09/07/06
Matrix:	SO - Soil	Percent Solids:	78.0
Method:	SW846 8260B SW846 5035		
Project:	FC 201/TT2477; Camp Lejeune, NC		

VOA List for NC

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	5.4	2.1	ug/kg	
100-41-4	Ethylbenzene	ND	5.4	2.1	ug/kg	
591-78-6	2-Hexanone	ND	27	11	ug/kg	
98-82-8	Isopropylbenzene	ND	5.4	2.1	ug/kg	
99-87-6	p-Isopropyltoluene	217	5.4	2.1	ug/kg	E
108-10-1	4-Methyl-2-pentanone	ND	27	11	ug/kg	
74-83-9	Methyl bromide	ND	5.4	2.1	ug/kg	
74-87-3	Methyl chloride	ND	5.4	2.1	ug/kg	
75-09-2	Methylene chloride	9.2	11	5.4	ug/kg	J
78-93-3	Methyl ethyl ketone	ND	27	11	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.4	2.1	ug/kg	
91-20-3	Naphthalene	175	5.4	2.1	ug/kg	
103-65-1	n-Propylbenzene	226	5.4	2.1	ug/kg	E
100-42-5	Styrene	ND	5.4	2.1	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.4	2.1	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.4	2.1	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.4	2.1	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.4	2.1	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.4	2.7	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.4	2.1	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	1290	5.4	3.2	ug/kg	E
108-67-8	1,3,5-Trimethylbenzene	947	5.4	2.1	ug/kg	E
127-18-4	Tetrachloroethylene	ND	5.4	2.1	ug/kg	
108-88-3	Toluene	ND	5.4	2.1	ug/kg	
79-01-6	Trichloroethylene	ND	5.4	2.1	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.4	2.1	ug/kg	
75-01-4	Vinyl chloride	ND	5.4	2.1	ug/kg	
108-05-4	Vinyl Acetate	ND	27	11	ug/kg	
1330-20-7	Xylene (total)	276	16	5.4	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		78-123%
2037-26-5	Toluene-D8	127%		71-137%
460-00-4	4-Bromofluorobenzene	324% ^a		61-157%
17060-07-0	1,2-Dichloroethane-D4	99%		74-125%

(a) Outside control limits due to matrix interference.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TT2477SS001
Lab Sample ID: F43446-6
Matrix: SO - Soil
Method: SW846 8270C SW846 3550B
Project: FC 201/TT2477; Camp Lejeune, NC

Date Sampled: 09/06/06
Date Received: 09/07/06
Percent Solids: 78.0

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	L033841.D	4	09/15/06	NJ	09/14/06	OP17858	SL1739
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

ABN List for NC

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic acid	ND	4300	1700	ug/kg	
95-57-8	2-Chlorophenol	ND	850	170	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	850	170	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	850	170	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	850	170	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	4300	1700	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	1700	340	ug/kg	
95-48-7	2-Methylphenol	ND	850	170	ug/kg	
	3&4-Methylphenol	ND	850	170	ug/kg	
88-75-5	2-Nitrophenol	ND	850	170	ug/kg	
100-02-7	4-Nitrophenol	ND	4300	1700	ug/kg	
87-86-5	Pentachlorophenol	ND	4300	1700	ug/kg	
108-95-2	Phenol	ND	850	170	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	850	170	ug/kg	
83-32-9	Acenaphthene	420	850	170	ug/kg	J
208-96-8	Acenaphthylene	ND	850	170	ug/kg	
120-12-7	Anthracene	190	850	170	ug/kg	J
56-55-3	Benzo(a)anthracene	ND	850	170	ug/kg	
50-32-8	Benzo(a)pyrene	ND	850	170	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	850	170	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	850	340	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	850	170	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	850	170	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	1700	430	ug/kg	
100-51-6	Benzyl Alcohol	ND	850	170	ug/kg	
91-58-7	2-Chloronaphthalene	ND	850	170	ug/kg	
106-47-8	4-Chloroaniline	ND	1700	680	ug/kg	
218-01-9	Chrysene	ND	850	170	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	850	170	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	850	340	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	850	170	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	850	170	ug/kg	

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	TT2477SS001	Date Sampled:	09/06/06
Lab Sample ID:	F43446-6	Date Received:	09/07/06
Matrix:	SO - Soil	Percent Solids:	78.0
Method:	SW846 8270C SW846 3550B		
Project:	FC 201/TT2477; Camp Lejeune, NC		

ABN List for NC

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	850	170	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	850	170	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	850	170	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	850	170	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	850	340	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	850	340	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	1700	850	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	850	340	ug/kg	
132-64-9	Dibenzofuran	471	850	170	ug/kg	J
84-74-2	Di-n-butyl phthalate	ND	1700	430	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	1700	850	ug/kg	
84-66-2	Diethyl phthalate	ND	1700	430	ug/kg	
131-11-3	Dimethyl phthalate	ND	1700	430	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	1700	850	ug/kg	
206-44-0	Fluoranthene	ND	850	170	ug/kg	
86-73-7	Fluorene	973	850	170	ug/kg	
118-74-1	Hexachlorobenzene	ND	850	170	ug/kg	
87-68-3	Hexachlorobutadiene	ND	850	340	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	850	340	ug/kg	
67-72-1	Hexachloroethane	ND	850	340	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	850	340	ug/kg	
78-59-1	Isophorone	ND	850	170	ug/kg	
91-57-6	2-Methylnaphthalene	8410	850	170	ug/kg	
91-20-3	Naphthalene	1380	850	170	ug/kg	
98-95-3	Nitrobenzene	ND	850	170	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	850	340	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	850	170	ug/kg	
85-01-8	Phenanthrene	2120	850	170	ug/kg	
129-00-0	Pyrene	358	850	340	ug/kg	J
120-82-1	1,2,4-Trichlorobenzene	ND	850	170	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	67%		45-114%
4165-62-2	Phenol-d5	73%		44-124%
118-79-6	2,4,6-Tribromophenol	72%		50-128%
4165-60-0	Nitrobenzene-d5	71%		41-123%
321-60-8	2-Fluorobiphenyl	72%		46-122%
1718-51-0	Terphenyl-d14	69%		45-135%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

Client Sample ID:	TT2477SS001	Date Sampled:	09/06/06
Lab Sample ID:	F43446-6	Date Received:	09/07/06
Matrix:	SO - Soil	Percent Solids:	78.0
Method:	SW846 8270C SW846 3550B		
Project:	FC 201/TT2477; Camp Lejeune, NC		

ABN List for NC

CAS No.	Compound	Result	RL	MDL	Units	Q
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(a) Dilution required due to matrix interference.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	TT2477SS001		
Lab Sample ID:	F43446-6	Date Sampled:	09/06/06
Matrix:	SO - Soil	Date Received:	09/07/06
Method:	MADEP VPH	Percent Solids:	78.0
Project:	FC 201/TT2477; Camp Lejeune, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV023890.D	1	09/15/06	MM	n/a	n/a	GUV1377
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.82 g	5.1 ml	15.0 ul
Run #2			

MADEP VPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
	C5- C8 Aliphatics (Unadj.)	ND	28000	15000	ug/kg	
	C9- C12 Aliphatics (Unadj.)	165000	21000	11000	ug/kg	
	C9- C10 Aromatics (Unadj.)	111000	7500	3700	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	BFB	88%		70-130%
460-00-4	BFB	101%		70-130%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	TT2477SS001	Date Sampled:	09/06/06
Lab Sample ID:	F43446-6	Date Received:	09/07/06
Matrix:	SO - Soil	Percent Solids:	78.0
Method:	MADEP-EPH-98-1 SW846 3550B		
Project:	FC 201/TT2477; Camp Lejeune, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF21425.D	40	09/19/06	ME	09/13/06	OP17843	GZF1007
Run #2							

	Initial Weight	Final Volume
Run #1	30.3 g	2.0 ml
Run #2		

MAEPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
	C11-C22 Aromatics (Unadj.)	450000	340000	340000	ug/kg	
	C9-C18 Aliphatics	1290000	340000	340000	ug/kg	
	C19-C36 Aliphatics	ND	340000	340000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	0% ^a		40-140%
580-13-2	2-Bromonaphthalene	0% ^a		40-140%
84-15-1	o-Terphenyl	0% ^a		40-140%
321-60-8	2-Fluorobiphenyl	0% ^a		40-140%

(a) Outside control limits due to dilution.

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TT2477SS002	Date Sampled:	09/06/06
Lab Sample ID:	F43446-7	Date Received:	09/07/06
Matrix:	SO - Soil	Percent Solids:	77.4
Method:	SW846 8260B SW846 5035		
Project:	FC 201/TT2477; Camp Lejeune, NC		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K028337.D	1	09/13/06	WJ	09/07/06 12:40	n/a	VK1262
Run #2							

Run #	Initial Weight
Run #1	5.98 g
Run #2	

VOA List for NC

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.4	27	ug/kg	
71-43-2	Benzene	ND	5.4	2.2	ug/kg	
108-86-1	Bromobenzene	ND	5.4	2.2	ug/kg	
74-97-5	Bromochloromethane	ND	5.4	2.2	ug/kg	
75-27-4	Bromodichloromethane	ND	5.4	2.2	ug/kg	
75-25-2	Bromoform	ND	5.4	2.2	ug/kg	
104-51-8	n-Butylbenzene	ND	5.4	3.2	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.4	2.2	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.4	2.2	ug/kg	
108-90-7	Chlorobenzene	ND	5.4	2.2	ug/kg	
75-00-3	Chloroethane	ND	5.4	3.2	ug/kg	
67-66-3	Chloroform	ND	5.4	2.2	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.4	2.2	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.4	2.2	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.4	2.2	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.4	2.2	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.4	2.2	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.4	2.2	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.4	2.2	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.4	2.2	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.4	2.2	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.4	2.2	ug/kg	
108-20-3	Di-Isopropyl ether	ND	5.4	2.2	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.4	2.2	ug/kg	
124-48-1	Dibromochloromethane	ND	5.4	2.2	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.4	3.2	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.4	2.2	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.4	2.2	ug/kg	
541-73-1	m-Dichlorobenzene	ND	5.4	2.2	ug/kg	
95-50-1	o-Dichlorobenzene	ND	5.4	2.2	ug/kg	
106-46-7	p-Dichlorobenzene	ND	5.4	2.2	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.4	2.2	ug/kg	

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TT2477SS002	Date Sampled:	09/06/06
Lab Sample ID:	F43446-7	Date Received:	09/07/06
Matrix:	SO - Soil	Percent Solids:	77.4
Method:	SW846 8260B SW846 5035		
Project:	FC 201/TT2477; Camp Lejeune, NC		

VOA List for NC

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	5.4	2.2	ug/kg	
100-41-4	Ethylbenzene	ND	5.4	2.2	ug/kg	
591-78-6	2-Hexanone	ND	27	11	ug/kg	
98-82-8	Isopropylbenzene	ND	5.4	2.2	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.4	2.2	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	27	11	ug/kg	
74-83-9	Methyl bromide	ND	5.4	2.2	ug/kg	
74-87-3	Methyl chloride	ND	5.4	2.2	ug/kg	
75-09-2	Methylene chloride	8.3	11	5.4	ug/kg	J
78-93-3	Methyl ethyl ketone	ND	27	11	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.4	2.2	ug/kg	
91-20-3	Naphthalene	ND	5.4	2.2	ug/kg	
103-65-1	n-Propylbenzene	ND	5.4	2.2	ug/kg	
100-42-5	Styrene	ND	5.4	2.2	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.4	2.2	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.4	2.2	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.4	2.2	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.4	2.2	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.4	2.7	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.4	2.2	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.4	3.2	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.4	2.2	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.4	2.2	ug/kg	
108-88-3	Toluene	ND	5.4	2.2	ug/kg	
79-01-6	Trichloroethylene	ND	5.4	2.2	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.4	2.2	ug/kg	
75-01-4	Vinyl chloride	ND	5.4	2.2	ug/kg	
108-05-4	Vinyl Acetate	ND	27	11	ug/kg	
1330-20-7	Xylene (total)	ND	16	5.4	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		78-123%
2037-26-5	Toluene-D8	107%		71-137%
460-00-4	4-Bromofluorobenzene	93%		61-157%
17060-07-0	1,2-Dichloroethane-D4	100%		74-125%

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 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TT2477SS002	Date Sampled:	09/06/06
Lab Sample ID:	F43446-7	Date Received:	09/07/06
Matrix:	SO - Soil	Percent Solids:	77.4
Method:	SW846 8270C SW846 3550B		
Project:	FC 201/TT2477; Camp Lejeune, NC		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L033837.D	1	09/15/06	NJ	09/14/06	OP17858	SL1739
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.9 g	1.0 ml
Run #2		

ABN List for NC

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic acid	ND	1000	420	ug/kg	
95-57-8	2-Chlorophenol	ND	210	42	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	210	42	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	210	42	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	210	42	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	1000	420	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	420	84	ug/kg	
95-48-7	2-Methylphenol	ND	210	42	ug/kg	
	3&4-Methylphenol	ND	210	42	ug/kg	
88-75-5	2-Nitrophenol	ND	210	42	ug/kg	
100-02-7	4-Nitrophenol	ND	1000	420	ug/kg	
87-86-5	Pentachlorophenol	ND	1000	420	ug/kg	
108-95-2	Phenol	ND	210	42	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	210	42	ug/kg	
83-32-9	Acenaphthene	ND	210	42	ug/kg	
208-96-8	Acenaphthylene	ND	210	42	ug/kg	
120-12-7	Anthracene	ND	210	42	ug/kg	
56-55-3	Benzo(a)anthracene	ND	210	42	ug/kg	
50-32-8	Benzo(a)pyrene	ND	210	42	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	210	42	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	210	84	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	210	42	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	210	42	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	420	100	ug/kg	
100-51-6	Benzyl Alcohol	ND	210	42	ug/kg	
91-58-7	2-Chloronaphthalene	ND	210	42	ug/kg	
106-47-8	4-Chloroaniline	ND	420	170	ug/kg	
218-01-9	Chrysene	ND	210	42	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	210	42	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	210	84	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	210	42	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	210	42	ug/kg	

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TT2477SS002		
Lab Sample ID:	F43446-7	Date Sampled:	09/06/06
Matrix:	SO - Soil	Date Received:	09/07/06
Method:	SW846 8270C SW846 3550B	Percent Solids:	77.4
Project:	FC 201/TT2477; Camp Lejeune, NC		

ABN List for NC

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	210	42	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	210	42	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	210	42	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	210	42	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	210	84	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	210	84	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	420	210	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	210	84	ug/kg	
132-64-9	Dibenzofuran	ND	210	42	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	420	100	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	420	210	ug/kg	
84-66-2	Diethyl phthalate	105	420	100	ug/kg	J
131-11-3	Dimethyl phthalate	ND	420	100	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	420	210	ug/kg	
206-44-0	Fluoranthene	ND	210	42	ug/kg	
86-73-7	Fluorene	ND	210	42	ug/kg	
118-74-1	Hexachlorobenzene	ND	210	42	ug/kg	
87-68-3	Hexachlorobutadiene	ND	210	84	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	210	84	ug/kg	
67-72-1	Hexachloroethane	ND	210	84	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	210	84	ug/kg	
78-59-1	Isophorone	ND	210	42	ug/kg	
91-57-6	2-Methylnaphthalene	ND	210	42	ug/kg	
91-20-3	Naphthalene	ND	210	42	ug/kg	
98-95-3	Nitrobenzene	ND	210	42	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	210	84	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	210	42	ug/kg	
85-01-8	Phenanthrene	ND	210	42	ug/kg	
129-00-0	Pyrene	ND	210	84	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	210	42	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	81%		45-114%
4165-62-2	Phenol-d5	85%		44-124%
118-79-6	2,4,6-Tribromophenol	79%		50-128%
4165-60-0	Nitrobenzene-d5	70%		41-123%
321-60-8	2-Fluorobiphenyl	72%		46-122%
1718-51-0	Terphenyl-d14	76%		45-135%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	TT2477SS002	Date Sampled:	09/06/06
Lab Sample ID:	F43446-7	Date Received:	09/07/06
Matrix:	SO - Soil	Percent Solids:	77.4
Method:	MADEP VPH		
Project:	FC 201/TT2477; Camp Lejeune, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV023872.D	1	09/15/06	MM	n/a	n/a	GUV1377
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.71 g	5.1 ml	100 ul
Run #2			

MADEP VPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
	C5- C8 Aliphatics (Unadj.)	ND	4300	2300	ug/kg	
	C9- C12 Aliphatics (Unadj.)	ND	3200	1700	ug/kg	
	C9- C10 Aromatics (Unadj.)	ND	1200	580	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	BFB	88%		70-130%
460-00-4	BFB	86%		70-130%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	TT2477SS002		
Lab Sample ID:	F43446-7	Date Sampled:	09/06/06
Matrix:	SO - Soil	Date Received:	09/07/06
Method:	MADEP-EPH-98-1 SW846 3550B	Percent Solids:	77.4
Project:	FC 201/TT2477; Camp Lejeune, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF21451.D	1	09/21/06	ME	09/13/06	OP17843	GZF1009
Run #2							

	Initial Weight	Final Volume
Run #1	30.5 g	2.0 ml
Run #2		

MAEPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
	C11-C22 Aromatics (Unadj.)	18000	8500	8500	ug/kg	
	C9-C18 Aliphatics	ND	8500	8500	ug/kg	
	C19-C36 Aliphatics	31200	8500	8500	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	82%		40-140%
580-13-2	2-Bromonaphthalene	72%		40-140%
84-15-1	o-Terphenyl	91%		40-140%
321-60-8	2-Fluorobiphenyl	97%		40-140%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 2

Client Sample ID:	TT2478SS004	Date Sampled:	09/06/06
Lab Sample ID:	F43446-8	Date Received:	09/07/06
Matrix:	SO - Soil	Percent Solids:	84.2
Method:	SW846 8260B SW846 5035		
Project:	FC 201/TT2477; Camp Lejeune, NC		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K028338.D	1	09/13/06	WJ	09/07/06 12:40	n/a	VK1262
Run #2							

	Initial Weight
Run #1	6.10 g
Run #2	

VOA List for NC

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	49	24	ug/kg	
71-43-2	Benzene	ND	4.9	1.9	ug/kg	
108-86-1	Bromobenzene	ND	4.9	1.9	ug/kg	
74-97-5	Bromochloromethane	ND	4.9	1.9	ug/kg	
75-27-4	Bromodichloromethane	ND	4.9	1.9	ug/kg	
75-25-2	Bromoform	ND	4.9	1.9	ug/kg	
104-51-8	n-Butylbenzene	ND	4.9	2.9	ug/kg	
135-98-8	sec-Butylbenzene	ND	4.9	1.9	ug/kg	
98-06-6	tert-Butylbenzene	ND	4.9	1.9	ug/kg	
108-90-7	Chlorobenzene	ND	4.9	1.9	ug/kg	
75-00-3	Chloroethane	ND	4.9	2.9	ug/kg	
67-66-3	Chloroform	ND	4.9	1.9	ug/kg	
95-49-8	o-Chlorotoluene	ND	4.9	1.9	ug/kg	
106-43-4	p-Chlorotoluene	ND	4.9	1.9	ug/kg	
56-23-5	Carbon tetrachloride	ND	4.9	1.9	ug/kg	
75-34-3	1,1-Dichloroethane	ND	4.9	1.9	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	4.9	1.9	ug/kg	
563-58-6	1,1-Dichloropropene	ND	4.9	1.9	ug/kg	
106-93-4	1,2-Dibromoethane	ND	4.9	1.9	ug/kg	
107-06-2	1,2-Dichloroethane	ND	4.9	1.9	ug/kg	
78-87-5	1,2-Dichloropropane	ND	4.9	1.9	ug/kg	
142-28-9	1,3-Dichloropropane	ND	4.9	1.9	ug/kg	
108-20-3	Di-Isopropyl ether	ND	4.9	1.9	ug/kg	
594-20-7	2,2-Dichloropropane	ND	4.9	1.9	ug/kg	
124-48-1	Dibromochloromethane	ND	4.9	1.9	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	4.9	2.9	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	4.9	1.9	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	4.9	1.9	ug/kg	
541-73-1	m-Dichlorobenzene	ND	4.9	1.9	ug/kg	
95-50-1	o-Dichlorobenzene	ND	4.9	1.9	ug/kg	
106-46-7	p-Dichlorobenzene	ND	4.9	1.9	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	4.9	1.9	ug/kg	

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TT2478SS004		
Lab Sample ID:	F43446-8	Date Sampled:	09/06/06
Matrix:	SO - Soil	Date Received:	09/07/06
Method:	SW846 8260B SW846 5035	Percent Solids:	84.2
Project:	FC 201/TT2477; Camp Lejeune, NC		

VOA List for NC

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	4.9	1.9	ug/kg	
100-41-4	Ethylbenzene	ND	4.9	1.9	ug/kg	
591-78-6	2-Hexanone	ND	24	9.7	ug/kg	
98-82-8	Isopropylbenzene	ND	4.9	1.9	ug/kg	
99-87-6	p-Isopropyltoluene	ND	4.9	1.9	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	24	9.7	ug/kg	
74-83-9	Methyl bromide	ND	4.9	1.9	ug/kg	
74-87-3	Methyl chloride	ND	4.9	1.9	ug/kg	
75-09-2	Methylene chloride	9.3	9.7	4.9	ug/kg	J
78-93-3	Methyl ethyl ketone	ND	24	9.7	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	4.9	1.9	ug/kg	
91-20-3	Naphthalene	ND	4.9	1.9	ug/kg	
103-65-1	n-Propylbenzene	ND	4.9	1.9	ug/kg	
100-42-5	Styrene	ND	4.9	1.9	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	4.9	1.9	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.9	1.9	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	4.9	1.9	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	4.9	1.9	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	4.9	2.4	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	4.9	1.9	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	4.9	2.9	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	4.9	1.9	ug/kg	
127-18-4	Tetrachloroethylene	ND	4.9	1.9	ug/kg	
108-88-3	Toluene	ND	4.9	1.9	ug/kg	
79-01-6	Trichloroethylene	ND	4.9	1.9	ug/kg	
75-69-4	Trichlorofluoromethane	ND	4.9	1.9	ug/kg	
75-01-4	Vinyl chloride	ND	4.9	1.9	ug/kg	
108-05-4	Vinyl Acetate	ND	24	9.7	ug/kg	
1330-20-7	Xylene (total)	ND	15	4.9	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		78-123%
2037-26-5	Toluene-D8	109%		71-137%
460-00-4	4-Bromofluorobenzene	89%		61-157%
17060-07-0	1,2-Dichloroethane-D4	95%		74-125%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TT2478SS004	Date Sampled:	09/06/06
Lab Sample ID:	F43446-8	Date Received:	09/07/06
Matrix:	SO - Soil	Percent Solids:	84.2
Method:	SW846 8270C SW846 3550B		
Project:	FC 201/TT2477; Camp Lejeune, NC		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	L033840.D	1	09/15/06	NJ	09/14/06	OP17858	SL1739
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.9 g	1.0 ml
Run #2		

ABN List for NC

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic acid	ND	960	380	ug/kg	
95-57-8	2-Chlorophenol	ND	190	38	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	190	38	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	190	38	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	190	38	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	960	380	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	380	77	ug/kg	
95-48-7	2-Methylphenol	ND	190	38	ug/kg	
	3&4-Methylphenol	ND	190	38	ug/kg	
88-75-5	2-Nitrophenol	ND	190	38	ug/kg	
100-02-7	4-Nitrophenol	ND	960	380	ug/kg	
87-86-5	Pentachlorophenol	ND	960	380	ug/kg	
108-95-2	Phenol	ND	190	38	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	190	38	ug/kg	
83-32-9	Acenaphthene	ND	190	38	ug/kg	
208-96-8	Acenaphthylene	ND	190	38	ug/kg	
120-12-7	Anthracene	ND	190	38	ug/kg	
56-55-3	Benzo(a)anthracene	ND	190	38	ug/kg	
50-32-8	Benzo(a)pyrene	ND	190	38	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	190	38	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	190	77	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	190	38	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	190	38	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	380	96	ug/kg	
100-51-6	Benzyl Alcohol	ND	190	38	ug/kg	
91-58-7	2-Chloronaphthalene	ND	190	38	ug/kg	
106-47-8	4-Chloroaniline	ND	380	150	ug/kg	
218-01-9	Chrysene	ND	190	38	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	190	38	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	190	77	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	190	38	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	190	38	ug/kg	

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

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 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TT2478SS004		
Lab Sample ID:	F43446-8	Date Sampled:	09/06/06
Matrix:	SO - Soil	Date Received:	09/07/06
Method:	SW846 8270C SW846 3550B	Percent Solids:	84.2
Project:	FC 201/TT2477; Camp Lejeune, NC		

ABN List for NC

CAS No.	Compound	Result	RL	MDL	Units	Q
95-50-1	1,2-Dichlorobenzene	ND	190	38	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	190	38	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	190	38	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	190	38	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	190	77	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	190	77	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	380	190	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	190	77	ug/kg	
132-64-9	Dibenzofuran	ND	190	38	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	380	96	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	380	190	ug/kg	
84-66-2	Diethyl phthalate	ND	380	96	ug/kg	
131-11-3	Dimethyl phthalate	ND	380	96	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	380	190	ug/kg	
206-44-0	Fluoranthene	ND	190	38	ug/kg	
86-73-7	Fluorene	ND	190	38	ug/kg	
118-74-1	Hexachlorobenzene	ND	190	38	ug/kg	
87-68-3	Hexachlorobutadiene	ND	190	77	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	190	77	ug/kg	
67-72-1	Hexachloroethane	ND	190	77	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	190	77	ug/kg	
78-59-1	Isophorone	ND	190	38	ug/kg	
91-57-6	2-Methylnaphthalene	ND	190	38	ug/kg	
91-20-3	Naphthalene	ND	190	38	ug/kg	
98-95-3	Nitrobenzene	ND	190	38	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	190	77	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	190	38	ug/kg	
85-01-8	Phenanthrene	ND	190	38	ug/kg	
129-00-0	Pyrene	ND	190	77	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	190	38	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	79%		45-114%
4165-62-2	Phenol-d5	84%		44-124%
118-79-6	2,4,6-Tribromophenol	78%		50-128%
4165-60-0	Nitrobenzene-d5	59%		41-123%
321-60-8	2-Fluorobiphenyl	61%		46-122%
1718-51-0	Terphenyl-d14	71%		45-135%

ND = Not detected MDL - Method Detection Limit
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J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID: TT2478SS004

Lab Sample ID: F43446-8

Matrix: SO - Soil

Method: MADEP VPH

Project: FC 201/TT2477; Camp Lejeune, NC

Date Sampled: 09/06/06

Date Received: 09/07/06

Percent Solids: 84.2

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV023873.D	1	09/15/06	MM	n/a	n/a	GUV1377
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	6.14 g	5.1 ml	100 ul
Run #2			

MADEP VPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
	C5- C8 Aliphatics (Unadj.)	ND	3700	2000	ug/kg	
	C9- C12 Aliphatics (Unadj.)	ND	2700	1500	ug/kg	
	C9- C10 Aromatics (Unadj.)	ND	990	490	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	BFB	86%		70-130%
460-00-4	BFB	84%		70-130%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	TT2478SS004	Date Sampled:	09/06/06
Lab Sample ID:	F43446-8	Date Received:	09/07/06
Matrix:	SO - Soil	Percent Solids:	84.2
Method:	MADEP-EPH-98-1 SW846 3550B		
Project:	FC 201/TT2477; Camp Lejeune, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	ZF21428.D	1	09/19/06	ME	09/13/06	OP17843	GZF1007
Run #2							

	Initial Weight	Final Volume
Run #1	32.3 g	2.0 ml
Run #2		

MAEPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
	C11-C22 Aromatics (Unadj.)	ND	7400	7400	ug/kg	
	C9-C18 Aliphatics	ND	7400	7400	ug/kg	
	C19-C36 Aliphatics	ND	7400	7400	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	71%		40-140%
580-13-2	2-Bromonaphthalene	69%		40-140%
84-15-1	o-Terphenyl	80%		40-140%
321-60-8	2-Fluorobiphenyl	88%		40-140%

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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2.9
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Client Sample ID:	TRIP BLANK	Date Sampled:	09/06/06
Lab Sample ID:	F43446-9	Date Received:	09/07/06
Matrix:	SO - Trip Blank Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	FC 201/TT2477; Camp Lejeune, NC		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	K028327.D	1	09/13/06	WJ	n/a	n/a	VK1262
Run #2							

Run #	Initial Weight
Run #1	5.00 g
Run #2	

VOA List for NC

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	50	25	ug/kg	
71-43-2	Benzene	ND	5.0	2.0	ug/kg	
108-86-1	Bromobenzene	ND	5.0	2.0	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	2.0	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	2.0	ug/kg	
75-25-2	Bromoform	ND	5.0	2.0	ug/kg	
104-51-8	n-Butylbenzene	ND	5.0	3.0	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.0	2.0	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.0	2.0	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	2.0	ug/kg	
75-00-3	Chloroethane	ND	5.0	3.0	ug/kg	
67-66-3	Chloroform	ND	5.0	2.0	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.0	2.0	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.0	2.0	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.0	2.0	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	2.0	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.0	2.0	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.0	2.0	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.0	2.0	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.0	2.0	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	2.0	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.0	2.0	ug/kg	
108-20-3	Di-Isopropyl ether	ND	5.0	2.0	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.0	2.0	ug/kg	
124-48-1	Dibromochloromethane	ND	5.0	2.0	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	3.0	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	2.0	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	2.0	ug/kg	
541-73-1	m-Dichlorobenzene	ND	5.0	2.0	ug/kg	
95-50-1	o-Dichlorobenzene	ND	5.0	2.0	ug/kg	
106-46-7	p-Dichlorobenzene	ND	5.0	2.0	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	2.0	ug/kg	

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TRIP BLANK	Date Sampled:	09/06/06
Lab Sample ID:	F43446-9	Date Received:	09/07/06
Matrix:	SO - Trip Blank Soil	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	FC 201/TT2477; Camp Lejeune, NC		

VOA List for NC

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	2.0	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	2.0	ug/kg	
591-78-6	2-Hexanone	ND	25	10	ug/kg	
98-82-8	Isopropylbenzene	ND	5.0	2.0	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.0	2.0	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	25	10	ug/kg	
74-83-9	Methyl bromide	ND	5.0	2.0	ug/kg	
74-87-3	Methyl chloride	ND	5.0	2.0	ug/kg	
75-09-2	Methylene chloride	ND	10	5.0	ug/kg	
78-93-3	Methyl ethyl ketone	ND	25	10	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	2.0	ug/kg	
91-20-3	Naphthalene	ND	5.0	2.0	ug/kg	
103-65-1	n-Propylbenzene	ND	5.0	2.0	ug/kg	
100-42-5	Styrene	ND	5.0	2.0	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	2.0	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	2.0	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	2.0	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	2.0	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.0	2.5	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	2.0	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	3.0	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	2.0	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.0	2.0	ug/kg	
108-88-3	Toluene	ND	5.0	2.0	ug/kg	
79-01-6	Trichloroethylene	ND	5.0	2.0	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	2.0	ug/kg	
75-01-4	Vinyl chloride	ND	5.0	2.0	ug/kg	
108-05-4	Vinyl Acetate	ND	25	10	ug/kg	
1330-20-7	Xylene (total)	ND	15	5.0	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		78-123%
2037-26-5	Toluene-D8	117%		71-137%
460-00-4	4-Bromofluorobenzene	99%		61-157%
17060-07-0	1,2-Dichloroethane-D4	100%		74-125%

ND = Not detected MDL - Method Detection Limit
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J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	TRIP BLANK	Date Sampled:	09/06/06
Lab Sample ID:	F43446-9	Date Received:	09/07/06
Matrix:	SO - Trip Blank Soil	Percent Solids:	n/a
Method:	MADEP VPH		
Project:	FC 201/TT2477; Camp Lejeune, NC		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	UV023877.D	1	09/15/06	MM	n/a	n/a	GUV1377
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.00 g	5.1 ml	100 ul
Run #2			

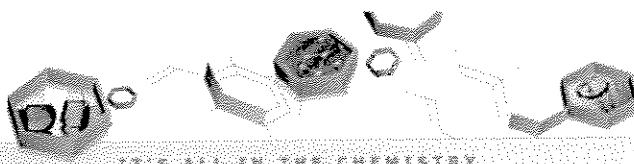
MADEP VPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
	C5- C8 Aliphatics (Unadj.)	ND	3800	2000	ug/kg	
	C9- C12 Aliphatics (Unadj.)	ND	2800	1500	ug/kg	
	C9- C10 Aromatics (Unadj.)	ND	1000	510	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	BFB	82%		70-130%
460-00-4	BFB	80%		70-130%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound



Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody



CHAIN OF CUSTODY

4405 VINELAND ROAD • SUITE C-15
ORLANDO, FL 32811
TEL: 407-425-6700 • FAX: 407-425-0707

ACCUTEST JOB # **F43446**
ACCUTEST QUOTE #

CLIENT INFORMATION		FACILITY INFORMATION		ANALYTICAL INFORMATION		MATRIX CODES			
NAME OSAGE AF VA		PROJECT NAME FC201 / TT2477				DW - DRINKING WATER OW - OROUND WATER WW - WASTE WATER SO - SOIL BL - BLOOD OI - OIL LIQ - OTHER LIQUID SOL - OTHER SOLID			
ADDRESS 2618A COLLEY AVE		LOCATION CAMP LESTER, NC							
CITY PORTFOLK		STATE VA							
ZIP 23517		PROJECT NO.							
SEND REPORT TO: MIKE CROSBY		FAX # 757 440-0411							
PHONE # 757 440-0400									
ACCUTEST SAMPLE #		FIELD ID / POINT OF COLLECTION		COLLECTION		PRESERVATION		LAB USE ONLY	
		DATE	TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	NO	YES	NO
1		FC201SS001	9-6-06	1220	JWK	SO	4		
2		FC201SS002	9-6-06	1230	JWK	SO	4		
3		FC201SS003	9-6-06	1240	JWK	SO	4		
4		FC201SS004	9-6-06	1250	JWK	SO	4		
5		FC201SS005	9-6-06	1300	JWK	SO	4		
6		TT2477SS001	9-6-06	1530	JWK	SO	4		
7		TT2477SS002	9-6-06	1545	JWK	SO	4		
8		TT2478SS004	9-6-06	1610	JWK	SO	4		
9		TRIP BLANK							
10		TEMP BLANK							
DATA TURNAROUND INFORMATION		DATA DELIVERABLE INFORMATION		COMMENTS/REMARKS					
☒ STANDARD ☐ 48 HOUR RUSH ☐ 24 HOUR EMERGENCY ☐ OTHER		APPROVED BY: _____ ☐ STANDARD ☐ COMMERCIAL "B" ☐ DISK DELIVERABLE ☐ STATE FORMS ☐ OTHER (SPECIFY) _____							
EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED									
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY									
RELINQUISHED BY: JWK	DATE/TIME: 9/6/06 / 1630	RECEIVED BY: AC	DATE/TIME: 9/6/06 / 1700	RELINQUISHED BY: AC	DATE/TIME: 9/6/06 / 1700	RECEIVED BY: AC	DATE/TIME: 9/6/06 / 1700	RELINQUISHED BY: AC	DATE/TIME: 9/6/06 / 1700
RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:	RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:	RELINQUISHED BY:	DATE/TIME:
RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:	RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:	RELINQUISHED BY:	DATE/TIME:
RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:	RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:	RELINQUISHED BY:	DATE/TIME:
SEAL #				PRESERVE WHERE APPLICABLE		DILUTE		TEMPERATURE	
				AC		AC		42 C	

F43446: Chain of Custody

Page 1 of 2

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F43446 CLIENT: OSAGE of VA PROJECT: FC 201/IT 2477
 DATE/TIME RECEIVED: 9/7/06 9:00 # OF COOLERS RECEIVED: 1 COOLER TEMPS: 4.2
 METHOD OF DELIVERY: FEDEX UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER
 AIRBILL NUMBERS: 8580 9991 1108

COOLER INFORMATION

- ☐ CUSTODY SEAL NOT PRESENT OR NOT INTACT
- ☐ CHAIN OF CUSTODY NOT RECEIVED (COC)
- ☐ ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- ☐ SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- ☐ TEMPERATURE CRITERIA NOT MET

TRIP BLANK INFORMATION

- ☐ TRIP BLANK NOT PROVIDED
- ☐ TRIP BLANK NOT ON COC
- ☒ TRIP BLANK INTACT
- ☐ TRIP BLANK NOT INTACT
- ☐ RECEIVED WATER TRIP BLANK
- ☒ RECEIVED SOIL TRIP BLANK

SAMPLE INFORMATION

- ☐ SAMPLE LABELS PRESENT ON ALL BOTTLES
- ☐ CORRECT NUMBER OF CONTAINERS USED
- ☐ SAMPLE RECEIVED IMPROPERLY PRESERVED
- ☐ INSUFFICIENT VOLUME FOR ANALYSIS
- ☐ TIMES ON COC DON'T MATCH LABEL
- ☐ ID'S ON COC DON'T MATCH LABEL
- ☐ VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- ☐ BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- ☐ NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- ☐ UNCLEAR FILTERING INSTRUCTIONS
- ☐ UNCLEAR COMPOSITING INSTRUCTIONS
- ☐ SAMPLE CONTAINER(S) RECEIVED BROKEN
- ☐ % SOLIDS JAR NOT RECEIVED
- ☐ 5035 FIELD KIT FROZEN WITHIN 48 HOURS

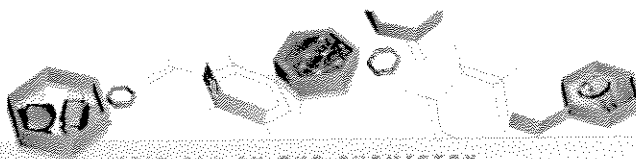
MISC. INFORMATION

NUMBER OF ENCORES ? 8
 NUMBER OF 5035 FIELD KITS ? trip
 NUMBER OF LAB FILTERED METALS ? x

SUMMARY OF COMMENTS: _____

TECHNICIAN SIGNATURE/DATE [Signature] 9/7/06 TECHNICIAN SIGNATURE/DATE _____

ASBD03/27/06



IT'S ALL IN THE CHEMISTRY

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Page 1 of 2

Job Number: F43446

Account: OSAGEVAN Osage of Virginia

Project: FC 201/TT2477; Camp Lejeune, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VK1262-MB	K028323.D	1	09/13/06	WJ	n/a	n/a	VK1262

The QC reported here applies to the following samples:

Method: SW846 8260B

F43446-1, F43446-2, F43446-3, F43446-4, F43446-5, F43446-6, F43446-7, F43446-8, F43446-9

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	50	25	ug/kg	
71-43-2	Benzene	ND	5.0	2.0	ug/kg	
108-86-1	Bromobenzene	ND	5.0	2.0	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	2.0	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	2.0	ug/kg	
75-25-2	Bromoform	ND	5.0	2.0	ug/kg	
104-51-8	n-Butylbenzene	ND	5.0	3.0	ug/kg	
135-98-8	sec-Butylbenzene	ND	5.0	2.0	ug/kg	
98-06-6	tert-Butylbenzene	ND	5.0	2.0	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	2.0	ug/kg	
75-00-3	Chloroethane	ND	5.0	3.0	ug/kg	
67-66-3	Chloroform	ND	5.0	2.0	ug/kg	
95-49-8	o-Chlorotoluene	ND	5.0	2.0	ug/kg	
106-43-4	p-Chlorotoluene	ND	5.0	2.0	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.0	2.0	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	2.0	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.0	2.0	ug/kg	
563-58-6	1,1-Dichloropropene	ND	5.0	2.0	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.0	2.0	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.0	2.0	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	2.0	ug/kg	
142-28-9	1,3-Dichloropropane	ND	5.0	2.0	ug/kg	
108-20-3	Di-Isopropyl ether	ND	5.0	2.0	ug/kg	
594-20-7	2,2-Dichloropropane	ND	5.0	2.0	ug/kg	
124-48-1	Dibromochloromethane	ND	5.0	2.0	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	3.0	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	2.0	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	2.0	ug/kg	
541-73-1	m-Dichlorobenzene	ND	5.0	2.0	ug/kg	
95-50-1	o-Dichlorobenzene	ND	5.0	2.0	ug/kg	
106-46-7	p-Dichlorobenzene	ND	5.0	2.0	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	2.0	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	2.0	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	2.0	ug/kg	
591-78-6	2-Hexanone	ND	25	10	ug/kg	
98-82-8	Isopropylbenzene	ND	5.0	2.0	ug/kg	

Method Blank Summary

Page 2 of 2

Job Number: F43446
Account: OSAGEVAN Osage of Virginia
Project: FC 201/TT2477; Camp Lejeune, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VK1262-MB	K028323.D	1	09/13/06	WJ	n/a	n/a	VK1262

The QC reported here applies to the following samples:

Method: SW846 8260B

F43446-1, F43446-2, F43446-3, F43446-4, F43446-5, F43446-6, F43446-7, F43446-8, F43446-9

CAS No.	Compound	Result	RL	MDL	Units	Q
99-87-6	p-Isopropyltoluene	ND	5.0	2.0	ug/kg	
108-10-1	4-Methyl-2-pentanone	ND	25	10	ug/kg	
74-83-9	Methyl bromide	ND	5.0	2.0	ug/kg	
74-87-3	Methyl chloride	ND	5.0	2.0	ug/kg	
75-09-2	Methylene chloride	ND	10	5.0	ug/kg	
78-93-3	Methyl ethyl ketone	ND	25	10	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	2.0	ug/kg	
91-20-3	Naphthalene	ND	5.0	2.0	ug/kg	
103-65-1	n-Propylbenzene	ND	5.0	2.0	ug/kg	
100-42-5	Styrene	ND	5.0	2.0	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	2.0	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	2.0	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	2.0	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	2.0	ug/kg	
96-18-4	1,2,3-Trichloropropane	ND	5.0	2.5	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	2.0	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	3.0	ug/kg	
108-67-8	1,3,5-Trimethylbenzene	ND	5.0	2.0	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.0	2.0	ug/kg	
108-88-3	Toluene	ND	5.0	2.0	ug/kg	
79-01-6	Trichloroethylene	ND	5.0	2.0	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	2.0	ug/kg	
75-01-4	Vinyl chloride	ND	5.0	2.0	ug/kg	
108-05-4	Vinyl Acetate	ND	25	10	ug/kg	
1330-20-7	Xylene (total)	ND	15	5.0	ug/kg	

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	93% 78-123%
2037-26-5	Toluene-D8	108% 71-137%
460-00-4	4-Bromofluorobenzene	97% 61-157%
17060-07-0	1,2-Dichloroethane-D4	93% 74-125%

Blank Spike Summary

Page 1 of 2

Job Number: F43446
Account: OSAGEVAN Osage of Virginia
Project: FC 201/TT2477; Camp Lejeune, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VK1262-BS	K028322.D	1	09/13/06	WJ	n/a	n/a	VK1262

The QC reported here applies to the following samples:

Method: SW846 8260B

F43446-1, F43446-2, F43446-3, F43446-4, F43446-5, F43446-6, F43446-7, F43446-8, F43446-9

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	250	216	86	51-136
71-43-2	Benzene	50	48.7	97	74-124
108-86-1	Bromobenzene	50	52.6	105	78-117
74-97-5	Bromochloromethane	50	43.7	87	77-126
75-27-4	Bromodichloromethane	50	42.4	85	74-124
75-25-2	Bromoform	50	45.3	91	79-127
104-51-8	n-Butylbenzene	50	59.9	120	75-131
135-98-8	sec-Butylbenzene	50	58.2	116	78-128
98-06-6	tert-Butylbenzene	50	56.3	113	76-126
108-90-7	Chlorobenzene	50	52.2	104	78-117
75-00-3	Chloroethane	50	47.2	94	63-147
67-66-3	Chloroform	50	48.8	98	75-121
95-49-8	o-Chlorotoluene	50	55.9	112	79-124
106-43-4	p-Chlorotoluene	50	57.0	114	79-124
56-23-5	Carbon tetrachloride	50	50.3	101	67-131
75-34-3	1,1-Dichloroethane	50	49.4	99	71-118
75-35-4	1,1-Dichloroethylene	50	48.6	97	64-126
563-58-6	1,1-Dichloropropene	50	52.2	104	73-132
106-93-4	1,2-Dibromoethane	50	48.8	98	78-117
107-06-2	1,2-Dichloroethane	50	47.2	94	72-120
78-87-5	1,2-Dichloropropane	50	46.3	93	74-126
142-28-9	1,3-Dichloropropane	50	49.8	100	77-117
108-20-3	Di-Isopropyl ether	50	48.4	97	75-132
594-20-7	2,2-Dichloropropane	50	52.7	105	66-126
124-48-1	Dibromochloromethane	50	48.2	96	78-120
75-71-8	Dichlorodifluoromethane	50	54.3	109	33-172
156-59-2	cis-1,2-Dichloroethylene	50	45.8	92	75-124
10061-01-5	cis-1,3-Dichloropropene	50	47.8	96	72-120
541-73-1	m-Dichlorobenzene	50	54.7	109	79-119
95-50-1	o-Dichlorobenzene	50	54.2	108	78-119
106-46-7	p-Dichlorobenzene	50	55.9	112	78-117
156-60-5	trans-1,2-Dichloroethylene	50	48.7	97	70-122
10061-02-6	trans-1,3-Dichloropropene	50	55.6	111	75-118
100-41-4	Ethylbenzene	50	53.8	108	77-120
591-78-6	2-Hexanone	250	229	92	68-136
98-82-8	Isopropylbenzene	50	59.4	119	79-134

Blank Spike Summary

Page 2 of 2

Job Number: F43446
Account: OSAGEVAN Osage of Virginia
Project: FC 201/TT2477; Camp Lejeune, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VK1262-BS	K028322.D	1	09/13/06	WJ	n/a	n/a	VK1262

The QC reported here applies to the following samples:

Method: SW846 8260B

F43446-1, F43446-2, F43446-3, F43446-4, F43446-5, F43446-6, F43446-7, F43446-8, F43446-9

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
99-87-6	p-Isopropyltoluene	50	57.8	116	80-134
108-10-1	4-Methyl-2-pentanone	250	202	81	69-136
74-83-9	Methyl bromide	50	43.0	86	52-156
74-87-3	Methyl chloride	50	49.4	99	63-142
75-09-2	Methylene chloride	50	47.8	96	51-142
78-93-3	Methyl ethyl ketone	250	213	85	63-138
1634-04-4	Methyl Tert Butyl Ether	50	44.6	89	77-131
91-20-3	Naphthalene	50	49.2	98	75-134
103-65-1	n-Propylbenzene	50	57.8	116	77-125
100-42-5	Styrene	50	51.5	103	74-120
71-55-6	1,1,1-Trichloroethane	50	49.9	100	70-131
79-34-5	1,1,2,2-Tetrachloroethane	50	48.9	98	76-121
79-00-5	1,1,2-Trichloroethane	50	48.4	97	77-118
87-61-6	1,2,3-Trichlorobenzene	50	52.1	104	76-129
96-18-4	1,2,3-Trichloropropane	50	51.6	103	75-121
120-82-1	1,2,4-Trichlorobenzene	50	57.7	115	73-128
95-63-6	1,2,4-Trimethylbenzene	50	53.8	108	79-121
108-67-8	1,3,5-Trimethylbenzene	50	56.0	112	78-126
127-18-4	Tetrachloroethylene	50	58.4	117	68-127
108-88-3	Toluene	50	52.3	105	74-118
79-01-6	Trichloroethylene	50	48.2	96	72-122
75-69-4	Trichlorofluoromethane	50	52.8	106	60-147
75-01-4	Vinyl chloride	50	47.5	95	64-144
108-05-4	Vinyl Acetate	250	138	55	47-132
1330-20-7	Xylene (total)	150	161	107	78-122

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	95%	78-123%
2037-26-5	Toluene-D8	105%	71-137%
460-00-4	4-Bromofluorobenzene	97%	61-157%
17060-07-0	1,2-Dichloroethane-D4	103%	74-125%

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 2

Job Number: F43446
Account: OSAGEVAN Osage of Virginia
Project: FC 201/TT2477; Camp Lejeune, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F43603-1MS	K028329.D	1	09/13/06	WJ	n/a	n/a	VK1262
F43603-1MSD	K028330.D	1	09/13/06	WJ	n/a	n/a	VK1262
F43603-1	K028328.D	1	09/13/06	WJ	n/a	n/a	VK1262

The QC reported here applies to the following samples:

Method: SW846 8260B

F43446-1, F43446-2, F43446-3, F43446-4, F43446-5, F43446-6, F43446-7, F43446-8, F43446-9

CAS No.	Compound	F43603-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		372	316	85	312	83	1	14-140/33
71-43-2	Benzene	ND		74.4	63.3	85	63.2	84	0	63-135/23
108-86-1	Bromobenzene	ND		74.4	67.1	90	67.9	90	1	56-145/30
74-97-5	Bromochloromethane	ND		74.4	63.8	86	59.2	79	7	64-120/23
75-27-4	Bromodichloromethane	ND		74.4	55.6	75	54.7	73	2	63-126/23
75-25-2	Bromoform	ND		74.4	62.6	84	60.4	80	4	54-109/24
104-51-8	n-Butylbenzene	ND		74.4	64.7	87	63.4	84	2	45-159/32
135-98-8	sec-Butylbenzene	ND		74.4	69.3	93	70.0	93	1	54-164/31
98-06-6	tert-Butylbenzene	ND		74.4	71.5	96	72.7	97	2	60-161/30
108-90-7	Chlorobenzene	ND		74.4	69.3	93	65.6	87	5	64-130/24
75-00-3	Chloroethane	ND		74.4	68.4	92	63.7	85	7	53-172/28
67-66-3	Chloroform	ND		74.4	69.2	93	65.6	87	5	68-131/24
95-49-8	o-Chlorotoluene	ND		74.4	69.3	93	73.1	97	5	59-162/32
106-43-4	p-Chlorotoluene	ND		74.4	68.4	92	70.5	94	3	59-155/29
56-23-5	Carbon tetrachloride	ND		74.4	61.2	82	63.6	85	4	64-148/24
75-34-3	1,1-Dichloroethane	ND		74.4	69.2	93	66.3	88	4	64-130/25
75-35-4	1,1-Dichloroethylene	ND		74.4	68.1	92	62.5	83	9	55-149/28
563-58-6	1,1-Dichloropropene	ND		74.4	67.5	91	63.0	84	7	67-148/25
106-93-4	1,2-Dibromoethane	ND		74.4	69.6	94	66.8	89	4	55-107/24
107-06-2	1,2-Dichloroethane	ND		74.4	67.2	90	64.9	86	3	60-114/22
78-87-5	1,2-Dichloropropane	ND		74.4	62.1	83	62.1	83	0	65-128/23
142-28-9	1,3-Dichloropropane	ND		74.4	73.8	99	75.2	100	2	58-114/25
108-20-3	Di-Isopropyl ether	ND		74.4	68.3	92	64.9	86	5	66-133/23
594-20-7	2,2-Dichloropropane	ND		74.4	62.0	83	61.0	81	2	60-144/27
124-48-1	Dibromochloromethane	ND		74.4	65.4	88	63.6	85	3	60-119/23
75-71-8	Dichlorodifluoromethane	ND		74.4	74.2	100	68.5	91	8	41-185/30
156-59-2	cis-1,2-Dichloroethylene	ND		74.4	64.3	86	58.6	78	9	66-132/24
10061-01-5	cis-1,3-Dichloropropene	ND		74.4	55.9	75	51.0	68	9	57-118/25
541-73-1	m-Dichlorobenzene	ND		74.4	63.7	86	62.9	84	1	59-138/28
95-50-1	o-Dichlorobenzene	ND		74.4	60.8	82	60.4	80	1	56-128/27
106-46-7	p-Dichlorobenzene	ND		74.4	62.7	84	62.1	83	1	57-134/26
156-60-5	trans-1,2-Dichloroethylene	ND		74.4	67.2	90	64.0	85	5	63-137/27
10061-02-6	trans-1,3-Dichloropropene	ND		74.4	76.8	103	72.4	96	6	58-115/25
100-41-4	Ethylbenzene	ND		74.4	71.1	96	70.0	93	2	63-142/25
591-78-6	2-Hexanone	ND		372	362	97	345	92	5	35-109/34
98-82-8	Isopropylbenzene	ND		74.4	75.9	102	77.6	103	2	59-177/29

Matrix Spike/Matrix Spike Duplicate Summary

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Job Number: F43446
Account: OSAGEVAN Osage of Virginia
Project: FC 201/TT2477; Camp Lejeune, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F43603-1MS	K028329.D	1	09/13/06	WJ	n/a	n/a	VK1262
F43603-1MSD	K028330.D	1	09/13/06	WJ	n/a	n/a	VK1262
F43603-1	K028328.D	1	09/13/06	WJ	n/a	n/a	VK1262

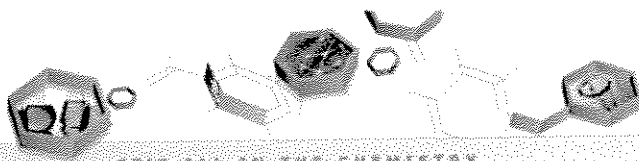
The QC reported here applies to the following samples:

Method: SW846 8260B

F43446-1, F43446-2, F43446-3, F43446-4, F43446-5, F43446-6, F43446-7, F43446-8, F43446-9

CAS No.	Compound	F43603-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
99-87-6	p-Isopropyltoluene	ND		74.4	66.9	90	67.2	89	0	53-168/31
108-10-1	4-Methyl-2-pentanone	ND		372	304	82	295	78	3	44-99/32
74-83-9	Methyl bromide	ND		74.4	58.4	78	56.4	75	3	38-188/27
74-87-3	Methyl chloride	ND		74.4	70.3	94	67.0	89	5	57-160/29
75-09-2	Methylene chloride	ND		74.4	87.5	118	82.8	110	6	40-183/34
78-93-3	Methyl ethyl ketone	ND		372	340	91	325	86	5	27-112/32
1634-04-4	Methyl Tert Butyl Ether	ND		74.4	66.1	89	64.7	86	2	53-122/28
91-20-3	Naphthalene	ND		74.4	41.3	55	38.8	52	6	20-116/35
103-65-1	n-Propylbenzene	ND		74.4	73.2	98	73.1	97	0	59-163/31
100-42-5	Styrene	ND		74.4	63.6	85	60.2	80	5	54-130/26
71-55-6	1,1,1-Trichloroethane	ND		74.4	66.7	90	62.8	84	6	70-149/25
79-34-5	1,1,2,2-Tetrachloroethane	ND		74.4	72.6	98	74.9	100	3	45-121/33
79-00-5	1,1,2-Trichloroethane	ND		74.4	71.9	97	70.8	94	2	60-114/25
87-61-6	1,2,3-Trichlorobenzene	ND		74.4	43.2	58	39.5	53	9	24-135/31
96-18-4	1,2,3-Trichloropropane	ND		74.4	72.2	97	74.3	99	3	39-125/32
120-82-1	1,2,4-Trichlorobenzene	ND		74.4	49.3	66	43.7	58	12	23-142/31
95-63-6	1,2,4-Trimethylbenzene	ND		74.4	67.8	91	68.2	91	1	50-161/32
108-67-8	1,3,5-Trimethylbenzene	ND		74.4	70.3	94	71.8	96	2	57-164/31
127-18-4	Tetrachloroethylene	ND		74.4	76.7	103	70.6	94	8	54-154/27
108-88-3	Toluene	ND		74.4	72.8	98	69.2	92	5	62-142/29
79-01-6	Trichloroethylene	ND		74.4	63.0	85	61.6	82	2	59-143/25
75-69-4	Trichlorofluoromethane	ND		74.4	74.7	100	69.1	92	8	59-171/28
75-01-4	Vinyl chloride	ND		74.4	70.9	95	67.1	89	6	64-165/27
108-05-4	Vinyl Acetate	ND		372	82.9	22	70.4	19	16	13-113/42
1330-20-7	Xylene (total)	ND		223	210	94	203	90	3	64-142/24

CAS No.	Surrogate Recoveries	MS	MSD	F43603-1	Limits
1868-53-7	Dibromofluoromethane	98%	97%	100%	78-123%
2037-26-5	Toluene-D8	111%	111%	114%	71-137%
460-00-4	4-Bromofluorobenzene	98%	102%	105%	61-157%
17060-07-0	1,2-Dichloroethane-D4	104%	108%	102%	74-125%



IT'S ALL IN THE CHEMISTRY

GC/MS Semi-volatiles



QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

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Job Number: F43446
Account: OSAGEVAN Osage of Virginia
Project: FC 201/TT2477; Camp Lejeune, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP17837-MB	L033923.D	1	09/22/06	NJ	09/12/06	OP17837	SL1743

The QC reported here applies to the following samples:

Method: SW846 8270C

F43446-5

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic acid	ND	830	330	ug/kg	
95-57-8	2-Chlorophenol	ND	170	33	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	33	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	33	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	33	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	830	330	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	330	67	ug/kg	
95-48-7	2-Methylphenol	ND	170	33	ug/kg	
	3&4-Methylphenol	ND	170	33	ug/kg	
88-75-5	2-Nitrophenol	ND	170	33	ug/kg	
100-02-7	4-Nitrophenol	ND	830	330	ug/kg	
87-86-5	Pentachlorophenol	ND	830	330	ug/kg	
108-95-2	Phenol	ND	170	33	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	33	ug/kg	
83-32-9	Acenaphthene	ND	170	33	ug/kg	
208-96-8	Acenaphthylene	ND	170	33	ug/kg	
120-12-7	Anthracene	ND	170	33	ug/kg	
56-55-3	Benzo(a)anthracene	ND	170	33	ug/kg	
50-32-8	Benzo(a)pyrene	ND	170	33	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	170	33	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	170	67	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	170	33	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	170	33	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	330	83	ug/kg	
100-51-6	Benzyl Alcohol	ND	170	33	ug/kg	
91-58-7	2-Chloronaphthalene	ND	170	33	ug/kg	
106-47-8	4-Chloroaniline	ND	330	130	ug/kg	
218-01-9	Chrysene	ND	170	33	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	170	33	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	170	67	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	170	33	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	170	33	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	170	33	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	170	33	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	170	33	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	170	33	ug/kg	

Method Blank Summary

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Job Number: F43446
Account: OSAGEVAN Osage of Virginia
Project: FC 201/TT2477; Camp Lejeune, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP17837-MB	L033923.D	1	09/22/06	NJ	09/12/06	OP17837	SL1743

The QC reported here applies to the following samples:

Method: SW846 8270C

F43446-5

CAS No.	Compound	Result	RL	MDL	Units	Q
121-14-2	2,4-Dinitrotoluene	ND	170	67	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	170	67	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	330	170	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	170	67	ug/kg	
132-64-9	Dibenzofuran	ND	170	33	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	330	83	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	330	170	ug/kg	
84-66-2	Diethyl phthalate	ND	330	83	ug/kg	
131-11-3	Dimethyl phthalate	ND	330	83	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	330	170	ug/kg	
206-44-0	Fluoranthene	ND	170	33	ug/kg	
86-73-7	Fluorene	ND	170	33	ug/kg	
118-74-1	Hexachlorobenzene	ND	170	33	ug/kg	
87-68-3	Hexachlorobutadiene	ND	170	67	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	170	67	ug/kg	
67-72-1	Hexachloroethane	ND	170	67	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	170	67	ug/kg	
78-59-1	Isophorone	ND	170	33	ug/kg	
91-57-6	2-Methylnaphthalene	ND	170	33	ug/kg	
91-20-3	Naphthalene	ND	170	33	ug/kg	
98-95-3	Nitrobenzene	ND	170	33	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	170	67	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	33	ug/kg	
85-01-8	Phenanthrene	ND	170	33	ug/kg	
129-00-0	Pyrene	ND	170	67	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	170	33	ug/kg	

CAS No.	Surrogate Recoveries	Limits
367-12-4	2-Fluorophenol	71% 45-114%
4165-62-2	Phenol-d5	70% 44-124%
118-79-6	2,4,6-Tribromophenol	66% 50-128%
4165-60-0	Nitrobenzene-d5	67% 41-123%
321-60-8	2-Fluorobiphenyl	65% 46-122%
1718-51-0	Terphenyl-d14	69% 45-135%

Method Blank Summary

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Job Number: F43446
Account: OSAGEVAN Osage of Virginia
Project: FC 201/TT2477; Camp Lejeune, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP17858-MB	R04966.D	1	09/14/06	NJ	09/14/06	OP17858	SR236

The QC reported here applies to the following samples:

Method: SW846 8270C

F43446-1, F43446-2, F43446-3, F43446-4, F43446-6, F43446-7, F43446-8

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic acid	ND	830	330	ug/kg	
95-57-8	2-Chlorophenol	ND	170	33	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	33	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	33	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	33	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	830	330	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	330	67	ug/kg	
95-48-7	2-Methylphenol	ND	170	33	ug/kg	
	3&4-Methylphenol	ND	170	33	ug/kg	
88-75-5	2-Nitrophenol	ND	170	33	ug/kg	
100-02-7	4-Nitrophenol	ND	830	330	ug/kg	
87-86-5	Pentachlorophenol	ND	830	330	ug/kg	
108-95-2	Phenol	ND	170	33	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	33	ug/kg	
83-32-9	Acenaphthene	ND	170	33	ug/kg	
208-96-8	Acenaphthylene	ND	170	33	ug/kg	
120-12-7	Anthracene	ND	170	33	ug/kg	
56-55-3	Benzo(a)anthracene	ND	170	33	ug/kg	
50-32-8	Benzo(a)pyrene	ND	170	33	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	170	33	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	170	67	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	170	33	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	170	33	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	330	83	ug/kg	
100-51-6	Benzyl Alcohol	ND	170	33	ug/kg	
91-58-7	2-Chloronaphthalene	ND	170	33	ug/kg	
106-47-8	4-Chloroaniline	ND	330	130	ug/kg	
218-01-9	Chrysene	ND	170	33	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	170	33	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	170	67	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	170	33	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	170	33	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	170	33	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	170	33	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	170	33	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	170	33	ug/kg	

Method Blank Summary

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Job Number: F43446
Account: OSAGEVAN Osage of Virginia
Project: FC 201/TT2477; Camp Lejeune, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP17858-MB	R04966.D	1	09/14/06	NJ	09/14/06	OP17858	SR236

The QC reported here applies to the following samples:

Method: SW846 8270C

F43446-1, F43446-2, F43446-3, F43446-4, F43446-6, F43446-7, F43446-8

CAS No.	Compound	Result	RL	MDL	Units	Q
121-14-2	2,4-Dinitrotoluene	ND	170	67	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	170	67	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	330	170	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	170	67	ug/kg	
132-64-9	Dibenzofuran	ND	170	33	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	330	83	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	330	170	ug/kg	
84-66-2	Diethyl phthalate	ND	330	83	ug/kg	
131-11-3	Dimethyl phthalate	ND	330	83	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	330	170	ug/kg	
206-44-0	Fluoranthene	ND	170	33	ug/kg	
86-73-7	Fluorene	ND	170	33	ug/kg	
118-74-1	Hexachlorobenzene	ND	170	33	ug/kg	
87-68-3	Hexachlorobutadiene	ND	170	67	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	170	67	ug/kg	
67-72-1	Hexachloroethane	ND	170	67	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	170	67	ug/kg	
78-59-1	Isophorone	ND	170	33	ug/kg	
91-57-6	2-Methylnaphthalene	ND	170	33	ug/kg	
91-20-3	Naphthalene	ND	170	33	ug/kg	
98-95-3	Nitrobenzene	ND	170	33	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	170	67	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	33	ug/kg	
85-01-8	Phenanthrene	ND	170	33	ug/kg	
129-00-0	Pyrene	ND	170	67	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	170	33	ug/kg	

CAS No.	Surrogate Recoveries	Limits
367-12-4	2-Fluorophenol	75% 45-114%
4165-62-2	Phenol-d5	69% 44-124%
118-79-6	2,4,6-Tribromophenol	94% 50-128%
4165-60-0	Nitrobenzene-d5	71% 41-123%
321-60-8	2-Fluorobiphenyl	72% 46-122%
1718-51-0	Terphenyl-d14	81% 45-135%

Method Blank Summary

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Job Number: F43446
Account: OSAGEVAN Osage of Virginia
Project: FC 201/TT2477; Camp Lejeune, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP17858-MB	R04966.D	1	09/14/06	NJ	09/14/06	OP17858	SR236

The QC reported here applies to the following samples:

Method:

F43446-1, F43446-2, F43446-3, F43446-4, F43446-6, F43446-7, F43446-8

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
77	Propane, 2,2-dimethoxy-	2.16	980	ug/kg	JN
763	3-Hexen-2-one	3.42	390	ug/kg	JN
4161	2-Pentanone, 4-hydroxy-	3.62	1700	ug/kg	JN
123	2-Pentanone, 4-hydroxy-4-methyl-	3.87	98000	ug/kg	JN
20626	S-(-)-2-Methylbutylamine	4.37	370	ug/kg	JN
	Total TIC, Semi-Volatile		101440	ug/kg	J

Method Blank Summary

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Job Number: F43446
Account: OSAGEVAN Osage of Virginia
Project: FC 201/TT2477; Camp Lejeune, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP17858-MB	L033836.D	1	09/15/06	NJ	09/14/06	OP17858	SL1739

The QC reported here applies to the following samples:

Method: SW846 8270C

F43446-1, F43446-2, F43446-3, F43446-4, F43446-6, F43446-7, F43446-8

CAS No.	Compound	Result	RL	MDL	Units	Q
65-85-0	Benzoic acid	ND	830	330	ug/kg	
95-57-8	2-Chlorophenol	ND	170	33	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	33	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	33	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	33	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	830	330	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	330	67	ug/kg	
95-48-7	2-Methylphenol	ND	170	33	ug/kg	
	3&4-Methylphenol	ND	170	33	ug/kg	
88-75-5	2-Nitrophenol	ND	170	33	ug/kg	
100-02-7	4-Nitrophenol	ND	830	330	ug/kg	
87-86-5	Pentachlorophenol	ND	830	330	ug/kg	
108-95-2	Phenol	ND	170	33	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	33	ug/kg	
83-32-9	Acenaphthene	ND	170	33	ug/kg	
208-96-8	Acenaphthylene	ND	170	33	ug/kg	
120-12-7	Anthracene	ND	170	33	ug/kg	
56-55-3	Benzo(a)anthracene	ND	170	33	ug/kg	
50-32-8	Benzo(a)pyrene	ND	170	33	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	170	33	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	170	67	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	170	33	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	170	33	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	330	83	ug/kg	
100-51-6	Benzyl Alcohol	ND	170	33	ug/kg	
91-58-7	2-Chloronaphthalene	ND	170	33	ug/kg	
106-47-8	4-Chloroaniline	ND	330	130	ug/kg	
218-01-9	Chrysene	ND	170	33	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	170	33	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	170	67	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	170	33	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	170	33	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	170	33	ug/kg	
122-66-7	1,2-Diphenylhydrazine	ND	170	33	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	170	33	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	170	33	ug/kg	

Method Blank Summary

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Job Number: F43446
Account: OSAGEVAN Osage of Virginia
Project: FC 201/TT2477; Camp Lejeune, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP17858-MB	L033836.D	1	09/15/06	NJ	09/14/06	OP17858	SL1739

The QC reported here applies to the following samples:

Method: SW846 8270C

F43446-1, F43446-2, F43446-3, F43446-4, F43446-6, F43446-7, F43446-8

CAS No.	Compound	Result	RL	MDL	Units	Q
121-14-2	2,4-Dinitrotoluene	ND	170	67	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	170	67	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	330	170	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	170	67	ug/kg	
132-64-9	Dibenzofuran	ND	170	33	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	330	83	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	330	170	ug/kg	
84-66-2	Diethyl phthalate	ND	330	83	ug/kg	
131-11-3	Dimethyl phthalate	ND	330	83	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	330	170	ug/kg	
206-44-0	Fluoranthene	ND	170	33	ug/kg	
86-73-7	Fluorene	ND	170	33	ug/kg	
118-74-1	Hexachlorobenzene	ND	170	33	ug/kg	
87-68-3	Hexachlorobutadiene	ND	170	67	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	170	67	ug/kg	
67-72-1	Hexachloroethane	ND	170	67	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	170	67	ug/kg	
78-59-1	Isophorone	ND	170	33	ug/kg	
91-57-6	2-Methylnaphthalene	ND	170	33	ug/kg	
91-20-3	Naphthalene	ND	170	33	ug/kg	
98-95-3	Nitrobenzene	ND	170	33	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	170	67	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	33	ug/kg	
85-01-8	Phenanthrene	ND	170	33	ug/kg	
129-00-0	Pyrene	ND	170	67	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	170	33	ug/kg	

CAS No.	Surrogate Recoveries	Limits
367-12-4	2-Fluorophenol	76% 45-114%
4165-62-2	Phenol-d5	79% 44-124%
118-79-6	2,4,6-Tribromophenol	81% 50-128%
4165-60-0	Nitrobenzene-d5	70% 41-123%
321-60-8	2-Fluorobiphenyl	73% 46-122%
1718-51-0	Terphenyl-d14	85% 45-135%

Method Blank Summary

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Job Number: F43446
Account: OSAGEVAN Osage of Virginia
Project: FC 201/TT2477; Camp Lejeune, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP17858-MB	L033836.D	1	09/15/06	NJ	09/14/06	OP17858	SL1739

The QC reported here applies to the following samples:

Method:

F43446-1, F43446-2, F43446-3, F43446-4, F43446-6, F43446-7, F43446-8

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
141-79-7	3-Penten-2-one, 4-methyl-	2.83	390	ug/kg	JN
4161-60-8	2-Pentanone, 4-hydroxy-	3.08	1300	ug/kg	JN
123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	3.33	51000	ug/kg	JN
108-84-9	4-Methyl-2-pentyl acetate	3.83	300	ug/kg	JN
6311-48-4	Dibenzylidene 4,4'-biphenylenediamine	18.06	200	ug/kg	JN
	Total TIC, Semi-Volatile		53190	ug/kg	J

Blank Spike Summary

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Job Number: F43446
Account: OSAGEVAN Osage of Virginia
Project: FC 201/TT2477; Camp Lejeune, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP17837-BS	L033797.D	1	09/13/06	NJ	09/12/06	OP17837	SL1737

The QC reported here applies to the following samples:

Method: SW846 8270C

F43446-5

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
65-85-0	Benzoic acid	3330	2260	68	48-121
95-57-8	2-Chlorophenol	1670	1050	63	61-101
59-50-7	4-Chloro-3-methyl phenol	1670	1100	66	63-107
120-83-2	2,4-Dichlorophenol	1670	1100	66	65-106
105-67-9	2,4-Dimethylphenol	1670	989	59	53-96
51-28-5	2,4-Dinitrophenol	3330	1560	47	42-122
534-52-1	4,6-Dinitro-o-cresol	3330	1940	58*	60-122
95-48-7	2-Methylphenol	1670	1000	60	58-98
	3&4-Methylphenol	3330	1990	60	58-99
88-75-5	2-Nitrophenol	1670	1040	62	59-103
100-02-7	4-Nitrophenol	3330	2060	62*	66-111
87-86-5	Pentachlorophenol	3330	2030	61	58-120
108-95-2	Phenol	1670	1060	64	59-104
88-06-2	2,4,6-Trichlorophenol	1670	1030	62*	66-106
83-32-9	Acenaphthene	1670	1030	62*	63-100
208-96-8	Acenaphthylene	1670	991	59*	62-100
120-12-7	Anthracene	1670	1070	64*	67-104
56-55-3	Benzo(a)anthracene	1670	1070	64*	66-107
50-32-8	Benzo(a)pyrene	1670	1010	61*	63-106
205-99-2	Benzo(b)fluoranthene	1670	1060	64*	65-110
191-24-2	Benzo(g,h,i)perylene	1670	958	57*	60-107
207-08-9	Benzo(k)fluoranthene	1670	1070	64*	66-111
101-55-3	4-Bromophenyl phenyl ether	1670	1090	65*	66-108
85-68-7	Butyl benzyl phthalate	1670	1090	65	62-112
100-51-6	Benzyl Alcohol	1670	1070	64	60-103
91-58-7	2-Chloronaphthalene	1670	1030	62	62-98
106-47-8	4-Chloroaniline	1670	706	42	20-87
218-01-9	Chrysene	1670	1030	62*	66-107
111-91-1	bis(2-Chloroethoxy)methane	1670	1000	60	54-98
111-44-4	bis(2-Chloroethyl)ether	1670	1050	63	57-103
108-60-1	bis(2-Chloroisopropyl)ether	1670	977	59	48-102
7005-72-3	4-Chlorophenyl phenyl ether	1670	1060	64*	65-106
95-50-1	1,2-Dichlorobenzene	1670	968	58	50-97
122-66-7	1,2-Diphenylhydrazine	1670	1050	63*	65-106
541-73-1	1,3-Dichlorobenzene	1670	933	56	46-94
106-46-7	1,4-Dichlorobenzene	1670	931	56	47-95

Blank Spike Summary

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Job Number: F43446

Account: OSAGEVAN Osage of Virginia

Project: FC 201/TT2477; Camp Lejeune, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP17837-BS	L033797.D	1	09/13/06	NJ	09/12/06	OP17837	SL1737

The QC reported here applies to the following samples:

Method: SW846 8270C

F43446-5

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
121-14-2	2,4-Dinitrotoluene	1670	1060	64	60-107
606-20-2	2,6-Dinitrotoluene	1670	1020	61	59-103
91-94-1	3,3'-Dichlorobenzidine	1670	687	41	32-91
53-70-3	Dibenzo(a,h)anthracene	1670	989	59	59-108
132-64-9	Dibenzofuran	1670	1040	62*	64-103
84-74-2	Di-n-butyl phthalate	1670	1070	64	64-109
117-84-0	Di-n-octyl phthalate	1670	1200	72	64-123
84-66-2	Diethyl phthalate	1670	1080	65	61-112
131-11-3	Dimethyl phthalate	1670	1070	64	63-107
117-81-7	bis(2-Ethylhexyl)phthalate	1670	1110	67	62-114
206-44-0	Fluoranthene	1670	1060	64	64-110
86-73-7	Fluorene	1670	1020	61*	63-102
118-74-1	Hexachlorobenzene	1670	1030	62*	64-104
87-68-3	Hexachlorobutadiene	1670	1020	61	56-99
77-47-4	Hexachlorocyclopentadiene	1670	970	58	32-93
67-72-1	Hexachloroethane	1670	956	57	47-96
193-39-5	Indeno(1,2,3-cd)pyrene	1670	988	59*	60-110
78-59-1	Isophorone	1670	1090	65	60-100
91-57-6	2-Methylnaphthalene	1670	1080	65	60-104
91-20-3	Naphthalene	1670	1040	62	58-96
98-95-3	Nitrobenzene	1670	1020	61	58-98
621-64-7	N-Nitroso-di-n-propylamine	1670	995	60	54-95
86-30-6	N-Nitrosodiphenylamine	1670	1020	61*	66-106
85-01-8	Phenanthrene	1670	1050	63*	66-105
129-00-0	Pyrene	1670	1080	65*	66-109
120-82-1	1,2,4-Trichlorobenzene	1670	1020	61	58-97

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	62%	45-114%
4165-62-2	Phenol-d5	64%	44-124%
118-79-6	2,4,6-Tribromophenol	62%	50-128%
4165-60-0	Nitrobenzene-d5	60%	41-123%
321-60-8	2-Fluorobiphenyl	62%	46-122%
1718-51-0	Terphenyl-d14	63%	45-135%

Blank Spike Summary

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Job Number: F43446
Account: OSAGEVAN Osage of Virginia
Project: FC 201/TT2477; Camp Lejeune, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP17837-BS	L033922.D	1	09/22/06	NJ	09/12/06	OP17837	SL1743

The QC reported here applies to the following samples:

Method: SW846 8270C

F43446-5

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
65-85-0	Benzoic acid	3330	2580	77	48-121
95-57-8	2-Chlorophenol	1670	1060	64	61-101
59-50-7	4-Chloro-3-methyl phenol	1670	1120	67	63-107
120-83-2	2,4-Dichlorophenol	1670	1140	68	65-106
105-67-9	2,4-Dimethylphenol	1670	991	59	53-96
51-28-5	2,4-Dinitrophenol	3330	1850	56	42-122
534-52-1	4,6-Dinitro-o-cresol	3330	1980	59*	60-122
95-48-7	2-Methylphenol	1670	1030	62	58-98
	3&4-Methylphenol	3330	2010	60	58-99
88-75-5	2-Nitrophenol	1670	1050	63	59-103
100-02-7	4-Nitrophenol	3330	2150	65*	66-111
87-86-5	Pentachlorophenol	3330	2200	66	58-120
108-95-2	Phenol	1670	1080	65	59-104
88-06-2	2,4,6-Trichlorophenol	1670	1060	64*	66-106
83-32-9	Acenaphthene	1670	998	60*	63-100
208-96-8	Acenaphthylene	1670	962	58*	62-100
120-12-7	Anthracene	1670	1020	61*	67-104
56-55-3	Benzo(a)anthracene	1670	1020	61*	66-107
50-32-8	Benzo(a)pyrene	1670	936	56*	63-106
205-99-2	Benzo(b)fluoranthene	1670	985	59*	65-110
191-24-2	Benzo(g,h,i)perylene	1670	844	51*	60-107
207-08-9	Benzo(k)fluoranthene	1670	994	60*	66-111
101-55-3	4-Bromophenyl phenyl ether	1670	1040	62*	66-108
85-68-7	Butyl benzyl phthalate	1670	1100	66	62-112
100-51-6	Benzyl Alcohol	1670	1030	62	60-103
91-58-7	2-Chloronaphthalene	1670	981	59*	62-98
106-47-8	4-Chloroaniline	1670	678	41	20-87
218-01-9	Chrysene	1670	979	59*	66-107
111-91-1	bis(2-Chloroethoxy)methane	1670	1010	61	54-98
111-44-4	bis(2-Chloroethyl)ether	1670	1010	61	57-103
108-60-1	bis(2-Chloroisopropyl)ether	1670	947	57	48-102
7005-72-3	4-Chlorophenyl phenyl ether	1670	1020	61*	65-106
95-50-1	1,2-Dichlorobenzene	1670	971	58	50-97
122-66-7	1,2-Diphenylhydrazine	1670	1000	60*	65-106
541-73-1	1,3-Dichlorobenzene	1670	913	55	46-94
106-46-7	1,4-Dichlorobenzene	1670	944	57	47-95

Blank Spike Summary

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Job Number: F43446
Account: OSAGEVAN Osage of Virginia
Project: FC 201/TT2477; Camp Lejeune, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP17837-BS	L033922.D	1	09/22/06	NJ	09/12/06	OP17837	SL1743

The QC reported here applies to the following samples:

Method: SW846 8270C

F43446-5

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
121-14-2	2,4-Dinitrotoluene	1670	1050	63	60-107
606-20-2	2,6-Dinitrotoluene	1670	991	59	59-103
91-94-1	3,3'-Dichlorobenzidine	1670	744	45	32-91
53-70-3	Dibenzo(a,h)anthracene	1670	884	53*	59-108
132-64-9	Dibenzofuran	1670	1030	62*	64-103
84-74-2	Di-n-butyl phthalate	1670	1120	67	64-109
117-84-0	Di-n-octyl phthalate	1670	1290	77	64-123
84-66-2	Diethyl phthalate	1670	1150	69	61-112
131-11-3	Dimethyl phthalate	1670	1050	63	63-107
117-81-7	bis(2-Ethylhexyl)phthalate	1670	1170	70	62-114
206-44-0	Fluoranthene	1670	1050	63*	64-110
86-73-7	Fluorene	1670	1040	62*	63-102
118-74-1	Hexachlorobenzene	1670	992	60*	64-104
87-68-3	Hexachlorobutadiene	1670	994	60	56-99
77-47-4	Hexachlorocyclopentadiene	1670	914	55	32-93
67-72-1	Hexachloroethane	1670	934	56	47-96
193-39-5	Indeno(1,2,3-cd)pyrene	1670	912	55*	60-110
78-59-1	Isophorone	1670	1120	67	60-100
91-57-6	2-Methylnaphthalene	1670	1080	65	60-104
91-20-3	Naphthalene	1670	1030	62	58-96
98-95-3	Nitrobenzene	1670	1040	62	58-98
621-64-7	N-Nitroso-di-n-propylamine	1670	1030	62	54-95
86-30-6	N-Nitrosodiphenylamine	1670	991	59*	66-106
85-01-8	Phenanthrene	1670	1020	61*	66-105
129-00-0	Pyrene	1670	1010	61*	66-109
120-82-1	1,2,4-Trichlorobenzene	1670	995	60	58-97

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	63%	45-114%
4165-62-2	Phenol-d5	66%	44-124%
118-79-6	2,4,6-Tribromophenol	61%	50-128%
4165-60-0	Nitrobenzene-d5	61%	41-123%
321-60-8	2-Fluorobiphenyl	60%	46-122%
1718-51-0	Terphenyl-d14	60%	45-135%

Blank Spike Summary

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Job Number: F43446
Account: OSAGEVAN Osage of Virginia
Project: FC 201/TT2477; Camp Lejeune, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP17858-BS	R04965.D	1	09/14/06	NJ	09/14/06	OP17858	SR236

The QC reported here applies to the following samples:

Method: SW846 8270C

F43446-1, F43446-2, F43446-3, F43446-4, F43446-6, F43446-7, F43446-8

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
65-85-0	Benzoic acid	3330	3770	113	48-121
95-57-8	2-Chlorophenol	1670	1230	74	61-101
59-50-7	4-Chloro-3-methyl phenol	1670	1360	82	63-107
120-83-2	2,4-Dichlorophenol	1670	1340	80	65-106
105-67-9	2,4-Dimethylphenol	1670	1190	71	53-96
51-28-5	2,4-Dinitrophenol	3330	2500	75	42-122
534-52-1	4,6-Dinitro-o-cresol	3330	3030	91	60-122
95-48-7	2-Methylphenol	1670	1200	72	58-98
	3&4-Methylphenol	3330	2490	75	58-99
88-75-5	2-Nitrophenol	1670	1410	85	59-103
100-02-7	4-Nitrophenol	3330	2790	84	66-111
87-86-5	Pentachlorophenol	3330	3410	102	58-120
108-95-2	Phenol	1670	1270	76	59-104
88-06-2	2,4,6-Trichlorophenol	1670	1430	86	66-106
83-32-9	Acenaphthene	1670	1280	77	63-100
208-96-8	Acenaphthylene	1670	1220	73	62-100
120-12-7	Anthracene	1670	1390	83	67-104
56-55-3	Benzo(a)anthracene	1670	1450	87	66-107
50-32-8	Benzo(a)pyrene	1670	1390	83	63-106
205-99-2	Benzo(b)fluoranthene	1670	1410	85	65-110
191-24-2	Benzo(g,h,i)perylene	1670	1390	83	60-107
207-08-9	Benzo(k)fluoranthene	1670	1420	85	66-111
101-55-3	4-Bromophenyl phenyl ether	1670	1400	84	66-108
85-68-7	Butyl benzyl phthalate	1670	1420	85	62-112
100-51-6	Benzyl Alcohol	1670	1260	76	60-103
91-58-7	2-Chloronaphthalene	1670	1260	76	62-98
106-47-8	4-Chloroaniline	1670	1000	60	20-87
218-01-9	Chrysene	1670	1440	86	66-107
111-91-1	bis(2-Chloroethoxy)methane	1670	1140	68	54-98
111-44-4	bis(2-Chloroethyl)ether	1670	1180	71	57-103
108-60-1	bis(2-Chloroisopropyl)ether	1670	1040	62	48-102
7005-72-3	4-Chlorophenyl phenyl ether	1670	1340	80	65-106
95-50-1	1,2-Dichlorobenzene	1670	1100	66	50-97
122-66-7	1,2-Diphenylhydrazine	1670	1340	80	65-106
541-73-1	1,3-Dichlorobenzene	1670	1070	64	46-94
106-46-7	1,4-Dichlorobenzene	1670	1070	64	47-95

Blank Spike Summary

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Job Number: F43446
Account: OSAGEVAN Osage of Virginia
Project: FC 201/TT2477; Camp Lejeune, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP17858-BS	R04965.D	1	09/14/06	NJ	09/14/06	OP17858	SR236

The QC reported here applies to the following samples:

Method: SW846 8270C

F43446-1, F43446-2, F43446-3, F43446-4, F43446-6, F43446-7, F43446-8

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
121-14-2	2,4-Dinitrotoluene	1670	1450	87	60-107
606-20-2	2,6-Dinitrotoluene	1670	1370	82	59-103
91-94-1	3,3'-Dichlorobenzidine	1670	1550	93*	32-91
53-70-3	Dibenzo(a,h)anthracene	1670	1450	87	59-108
132-64-9	Dibenzofuran	1670	1330	80	64-103
84-74-2	Di-n-butyl phthalate	1670	1340	80	64-109
117-84-0	Di-n-octyl phthalate	1670	1510	91	64-123
84-66-2	Diethyl phthalate	1670	1350	81	61-112
131-11-3	Dimethyl phthalate	1670	1310	79	63-107
117-81-7	bis(2-Ethylhexyl)phthalate	1670	1410	85	62-114
206-44-0	Fluoranthene	1670	1400	84	64-110
86-73-7	Fluorene	1670	1300	78	63-102
118-74-1	Hexachlorobenzene	1670	1360	82	64-104
87-68-3	Hexachlorobutadiene	1670	1170	70	56-99
77-47-4	Hexachlorocyclopentadiene	1670	1130	68	32-93
67-72-1	Hexachloroethane	1670	1060	64	47-96
193-39-5	Indeno(1,2,3-cd)pyrene	1670	1470	88	60-110
78-59-1	Isophorone	1670	1250	75	60-100
91-57-6	2-Methylnaphthalene	1670	1280	77	60-104
91-20-3	Naphthalene	1670	1170	70	58-96
98-95-3	Nitrobenzene	1670	1190	71	58-98
621-64-7	N-Nitroso-di-n-propylamine	1670	1080	65	54-95
86-30-6	N-Nitrosodiphenylamine	1670	1350	81	66-106
85-01-8	Phenanthrene	1670	1350	81	66-105
129-00-0	Pyrene	1670	1400	84	66-109
120-82-1	1,2,4-Trichlorobenzene	1670	1170	70	58-97

CAS No.	Surrogate Recoveries	BSP	Limits
367-12-4	2-Fluorophenol	78%	45-114%
4165-62-2	Phenol-d5	79%	44-124%
118-79-6	2,4,6-Tribromophenol	93%	50-128%
4165-60-0	Nitrobenzene-d5	73%	41-123%
321-60-8	2-Fluorobiphenyl	78%	46-122%
1718-51-0	Terphenyl-d14	82%	45-135%

Matrix Spike/Matrix Spike Duplicate Summary

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Job Number: F43446
Account: OSAGEVAN Osage of Virginia
Project: FC 201/TT2477; Camp Lejeune, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP17837-MS	L033926.D	1	09/22/06	NJ	09/12/06	OP17837	SL1743
OP17837-MSD	L033927.D	1	09/22/06	NJ	09/12/06	OP17837	SL1743
F43466-4 ^a	L033925.D	1	09/22/06	NJ	09/12/06	OP17837	SL1743

The QC reported here applies to the following samples:

Method: SW846 8270C

F43446-5

CAS No.	Compound	F43466-4 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic acid	392	I	3550	3920	100	3050	76	25	10-124/35
95-57-8	2-Chlorophenol	180 U		1770	1380	78	1200	69	14	46-99/28
59-50-7	4-Chloro-3-methyl phenol	180 U		1770	1510	85	1350	77	11	51-106/24
120-83-2	2,4-Dichlorophenol	180 U		1770	1430	81	1220	70	16	51-105/24
105-67-9	2,4-Dimethylphenol	180 U		1770	1370	77	1190	68	14	47-95/27
51-28-5	2,4-Dinitrophenol	890 U		3550	1500	42	1130	32	28	10-114/50
534-52-1	4,6-Dinitro-o-cresol	360 U		3550	1740	49	1500	43	15	11-120/39
95-48-7	2-Methylphenol	180 U		1770	1340	76	1170	67	14	48-96/26
	3&4-Methylphenol	180 U		3550	2700	76	2370	68	13	50-95/26
88-75-5	2-Nitrophenol	180 U		1770	1380	78	1170	67	16	36-109/29
100-02-7	4-Nitrophenol	890 U		3550	3060	86	2680	77	13	50-107/25
87-86-5	Pentachlorophenol	890 U		3550	2970	84	2630	75	12	45-118/30
108-95-2	Phenol	180 U		1770	1420	80	1240	71	14	44-105/27
88-06-2	2,4,6-Trichlorophenol	180 U		1770	1450	82	1270	73	13	56-103/23
83-32-9	Acenaphthene	180 U		1770	1350	76	1180	67	13	47-106/28
208-96-8	Acenaphthylene	180 U		1770	1270	72	1130	65	12	48-102/24
120-12-7	Anthracene	180 U		1770	1380	78	1250	71	10	52-108/26
56-55-3	Benzo(a)anthracene	180 U		1770	1420	80	1250	71	13	54-106/26
50-32-8	Benzo(a)pyrene	180 U		1770	1330	75	1200	69	10	53-104/25
205-99-2	Benzo(b)fluoranthene	180 U		1770	1390	78	1220	70	13	53-109/27
191-24-2	Benzo(g,h,i)perylene	180 U		1770	1310	74	1190	68	10	53-104/28
207-08-9	Benzo(k)fluoranthene	180 U		1770	1400	79	1220	70	14	55-107/29
101-55-3	4-Bromophenyl phenyl ether	180 U		1770	1410	80	1240	71	13	59-102/23
85-68-7	Butyl benzyl phthalate	360 U		1770	1540	87	1330	76	15	58-105/23
100-51-6	Benzyl Alcohol	180 U		1770	1480	83	1300	74	13	52-97/30
91-58-7	2-Chloronaphthalene	180 U		1770	1290	73	1130	65	13	54-92/24
106-47-8	4-Chloroaniline	360 U		1770	759	43	647	37	16	21-92/35
218-01-9	Chrysene	180 U		1770	1380	78	1210	69	13	54-108/26
111-91-1	bis(2-Chloroethoxy)methane	180 U		1770	1270	72	1110	63	13	44-94/27
111-44-4	bis(2-Chloroethyl)ether	180 U		1770	1380	78	1150	66	18	40-104/30
108-60-1	bis(2-Chloroisopropyl)ether	180 U		1770	1210	68	1060	61	13	40-91/29
7005-72-3	4-Chlorophenyl phenyl ether	180 U		1770	1410	80	1230	70	14	57-101/22
95-50-1	1,2-Dichlorobenzene	180 U		1770	1210	68	1030	59	16	36-88/34
122-66-7	1,2-Diphenylhydrazine	180 U		1770	1340	76	1210	69	10	52-107/23
541-73-1	1,3-Dichlorobenzene	180 U		1770	1110	63	952	54	15	30-85/33
106-46-7	1,4-Dichlorobenzene	180 U		1770	1120	63	968	55	15	30-87/33

Matrix Spike/Matrix Spike Duplicate Summary

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Job Number: F43446
Account: OSAGEVAN Osage of Virginia
Project: FC 201/TT2477; Camp Lejeune, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP17837-MS	L033926.D	1	09/22/06	NJ	09/12/06	OP17837	SL1743
OP17837-MSD	L033927.D	1	09/22/06	NJ	09/12/06	OP17837	SL1743
F43466-4 ^a	L033925.D	1	09/22/06	NJ	09/12/06	OP17837	SL1743

The QC reported here applies to the following samples:

Method: SW846 8270C

F43446-5

CAS No.	Compound	F43466-4 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
121-14-2	2,4-Dinitrotoluene	180 U		1770	1420	80	1240	71	14	46-105/28
606-20-2	2,6-Dinitrotoluene	180 U		1770	1330	75	1180	67	12	46-102/26
91-94-1	3,3'-Dichlorobenzidine	360 U		1770	1010	57	995	57	1	22-104/35
53-70-3	Dibenzo(a,h)anthracene	180 U		1770	1360	77	1250	71	8	53-103/26
132-64-9	Dibenzofuran	180 U		1770	1390	78	1210	69	14	53-103/27
84-74-2	Di-n-butyl phthalate	360 U		1770	1470	83	1330	76	10	55-104/22
117-84-0	Di-n-octyl phthalate	360 U		1770	1800	102	1540	88	16	61-115/24
84-66-2	Diethyl phthalate	360 U		1770	1500	85	1320	75	13	54-104/22
131-11-3	Dimethyl phthalate	360 U		1770	1380	78	1220	70	12	55-100/22
117-81-7	bis(2-Ethylhexyl)phthalate	360 U		1770	1630	92	1430	82	13	56-110/25
206-44-0	Fluoranthene	180 U		1770	1390	78	1270	73	9	52-109/28
86-73-7	Fluorene	180 U		1770	1390	78	1190	68	16	55-99/26
118-74-1	Hexachlorobenzene	180 U		1770	1310	74	1200	69	9	57-99/23
87-68-3	Hexachlorobutadiene	180 U		1770	1230	69	1070	61	14	36-97/35
77-47-4	Hexachlorocyclopentadiene	180 U		1770	880	50	788	45	11	10-88/50
67-72-1	Hexachloroethane	180 U		1770	1120	63	972	56	14	22-90/41
193-39-5	Indeno(1,2,3-cd)pyrene	180 U		1770	1400	79	1260	72	11	53-108/29
78-59-1	Isophorone	180 U		1770	1440	81	1240	71	15	46-99/26
91-57-6	2-Methylnaphthalene	180 U		1770	1410	80	1230	70	14	45-104/28
91-20-3	Naphthalene	180 U		1770	1310	74	1140	65	14	44-94/31
98-95-3	Nitrobenzene	180 U		1770	1340	76	1150	66	15	43-97/29
621-64-7	N-Nitroso-di-n-propylamine	180 U		1770	1340	76	1160	66	14	40-98/27
86-30-6	N-Nitrosodiphenylamine	180 U		1770	1300	73	1180	67	10	55-104/22
85-01-8	Phenanthrene	180 U		1770	1370	77	1230	70	11	53-106/26
129-00-0	Pyrene	180 U		1770	1410	80	1250	71	12	55-111/30
120-82-1	1,2,4-Trichlorobenzene	180 U		1770	1270	72	1100	63	14	41-95/32

CAS No.	Surrogate Recoveries	MS	MSD	F43466-4	Limits
367-12-4	2-Fluorophenol	79%	69%	80%	45-114%
4165-62-2	Phenol-d5	81%	71%	81%	44-124%
118-79-6	2,4,6-Tribromophenol	78%	71%	80%	50-128%
4165-60-0	Nitrobenzene-d5	77%	66%	78%	41-123%
321-60-8	2-Fluorobiphenyl	74%	66%	72%	46-122%
1718-51-0	Terphenyl-d14	80%	71%	78%	45-135%

Matrix Spike/Matrix Spike Duplicate Summary

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Job Number: F43446

Account: OSAGEVAN Osage of Virginia

Project: FC 201/TT2477; Camp Lejeune, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP17837-MS	L033926.D	1	09/22/06	NJ	09/12/06	OP17837	SL1743
OP17837-MSD	L033927.D	1	09/22/06	NJ	09/12/06	OP17837	SL1743
F43466-4 ^a	L033925.D	1	09/22/06	NJ	09/12/06	OP17837	SL1743

The QC reported here applies to the following samples:

Method: SW846 8270C

F43446-5

(a) Confirmation run.

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 2

Job Number: F43446
Account: OSAGEVAN Osage of Virginia
Project: FC 201/TT2477; Camp Lejeune, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP17858-MS	L033838.D	1	09/15/06	NJ	09/14/06	OP17858	SL1739
OP17858-MSD	L033839.D	1	09/15/06	NJ	09/14/06	OP17858	SL1739
F43446-7	L033837.D	1	09/15/06	NJ	09/14/06	OP17858	SL1739

The QC reported here applies to the following samples:

Method: SW846 8270C

F43446-1, F43446-2, F43446-3, F43446-4, F43446-6, F43446-7, F43446-8

CAS No.	Compound	F43446-7 ug/kg	Spike Q	ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
65-85-0	Benzoic acid	ND		4250	3530	83	3360	79	5	10-124/35
95-57-8	2-Chlorophenol	ND		2120	1590	75	889	42*	57*	46-99/28
59-50-7	4-Chloro-3-methyl phenol	ND		2120	1510	71	1490	70	1	51-106/24
120-83-2	2,4-Dichlorophenol	ND		2120	1540	72	1140	53	30*	51-105/24
105-67-9	2,4-Dimethylphenol	ND		2120	1330	63	1040	49	24	47-95/27
51-28-5	2,4-Dinitrophenol	ND		4250	2530	60	3000	70	17	10-114/50
534-52-1	4,6-Dinitro-o-cresol	ND		4250	2630	62	3170	74	19	11-120/39
95-48-7	2-Methylphenol	ND		2120	1560	73	961	45*	48*	48-96/26
	3&4-Methylphenol	ND		4250	3120	73	2100	49*	39*	50-95/26
88-75-5	2-Nitrophenol	ND		2120	1340	63	836	39	46*	36-109/29
100-02-7	4-Nitrophenol	ND		4250	2880	68	3300	77	14	50-107/25
87-86-5	Pentachlorophenol	ND		4250	2810	66	3640	85	26	45-118/30
108-95-2	Phenol	ND		2120	1740	82	990	46	55*	44-105/27
88-06-2	2,4,6-Trichlorophenol	ND		2120	1370	64	1390	65	1	56-103/23
83-32-9	Acenaphthene	ND		2120	1330	63	1270	60	5	47-106/28
208-96-8	Acenaphthylene	ND		2120	1290	61	1220	57	6	48-102/24
120-12-7	Anthracene	ND		2120	1350	64	1540	72	13	52-108/26
56-55-3	Benzo(a)anthracene	ND		2120	1360	64	1580	74	15	54-106/26
50-32-8	Benzo(a)pyrene	ND		2120	1280	60	1510	71	16	53-104/25
205-99-2	Benzo(b)fluoranthene	ND		2120	1320	62	1490	70	12	53-109/27
191-24-2	Benzo(g,h,i)perylene	ND		2120	1250	59	1500	70	18	53-104/28
207-08-9	Benzo(k)fluoranthene	ND		2120	1370	64	1580	74	14	55-107/29
101-55-3	4-Bromophenyl phenyl ether	ND		2120	1300	61	1490	70	14	59-102/23
85-68-7	Butyl benzyl phthalate	ND		2120	1330	63	1490	70	11	58-105/23
100-51-6	Benzyl Alcohol	ND		2120	1690	80	1190	56	35*	52-97/30
91-58-7	2-Chloronaphthalene	ND		2120	1300	61	1090	51*	18	54-92/24
106-47-8	4-Chloroaniline	ND		2120	1210	57	1170	55	3	21-92/35
218-01-9	Chrysene	ND		2120	1350	64	1540	72	13	54-108/26
111-91-1	bis(2-Chloroethoxy)methane	ND		2120	1280	60	837	39*	42*	44-94/27
111-44-4	bis(2-Chloroethyl)ether	ND		2120	1450	68	819	38*	56*	40-104/30
108-60-1	bis(2-Chloroisopropyl)ether	ND		2120	1360	64	733	34*	60*	40-91/29
7005-72-3	4-Chlorophenyl phenyl ether	ND		2120	1360	64	1400	66	3	57-101/22
95-50-1	1,2-Dichlorobenzene	ND		2120	1320	62	705	33*	61*	36-88/34
122-66-7	1,2-Diphenylhydrazine	ND		2120	1270	60	1390	65	9	52-107/23
541-73-1	1,3-Dichlorobenzene	ND		2120	1200	56	631	30	62*	30-85/33
106-46-7	1,4-Dichlorobenzene	ND		2120	1240	58	640	30	64*	30-87/33

Matrix Spike/Matrix Spike Duplicate Summary

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Job Number: F43446
Account: OSAGEVAN Osage of Virginia
Project: FC 201/TT2477; Camp Lejeune, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP17858-MS	L033838.D	1	09/15/06	NJ	09/14/06	OP17858	SL1739
OP17858-MSD	L033839.D	1	09/15/06	NJ	09/14/06	OP17858	SL1739
F43446-7	L033837.D	1	09/15/06	NJ	09/14/06	OP17858	SL1739

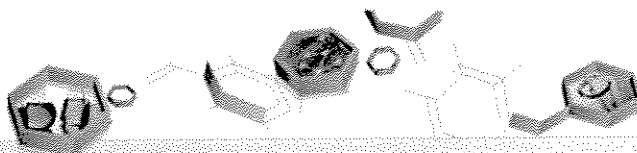
The QC reported here applies to the following samples:

Method: SW846 8270C

F43446-1, F43446-2, F43446-3, F43446-4, F43446-6, F43446-7, F43446-8

CAS No.	Compound	F43446-7 ug/kg	Spike Q	ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
121-14-2	2,4-Dinitrotoluene	ND		2120	1380	65	1550	73	12	46-105/28
606-20-2	2,6-Dinitrotoluene	ND		2120	1310	62	1380	65	5	46-102/26
91-94-1	3,3'-Dichlorobenzidine	ND		2120	1220	57	1440	68	17	22-104/35
53-70-3	Dibenzo(a,h)anthracene	ND		2120	1280	60	1530	72	18	53-103/26
132-64-9	Dibenzofuran	ND		2120	1360	64	1460	68	7	53-103/27
84-74-2	Di-n-butyl phthalate	ND		2120	1300	61	1510	71	15	55-104/22
117-84-0	Di-n-octyl phthalate	ND		2120	1480	70	1610	76	8	61-115/24
84-66-2	Diethyl phthalate	105	J	2120	1510	66	1620	71	7	54-104/22
131-11-3	Dimethyl phthalate	ND		2120	1340	63	1470	69	9	55-100/22
117-81-7	bis(2-Ethylhexyl)phthalate	ND		2120	1420	67	1550	73	9	56-110/25
206-44-0	Fluoranthene	ND		2120	1370	64	1640	77	18	52-109/28
86-73-7	Fluorene	ND		2120	1380	65	1410	66	2	55-99/26
118-74-1	Hexachlorobenzene	ND		2120	1280	60	1440	68	12	57-99/23
87-68-3	Hexachlorobutadiene	ND		2120	1200	56	708	33*	52*	36-97/35
77-47-4	Hexachlorocyclopentadiene	ND		2120	700	33	487	23	36	10-88/50
67-72-1	Hexachloroethane	ND		2120	1200	56	639	30	61*	22-90/41
193-39-5	Indeno(1,2,3-cd)pyrene	ND		2120	1270	60	1540	72	19	53-108/29
78-59-1	Isophorone	ND		2120	1410	66	1060	50	28*	46-99/26
91-57-6	2-Methylnaphthalene	ND		2120	1440	68	1130	53	24	45-104/28
91-20-3	Naphthalene	ND		2120	1330	63	816	38*	48*	44-94/31
98-95-3	Nitrobenzene	ND		2120	1290	61	792	37*	48*	43-97/29
621-64-7	N-Nitroso-di-n-propylamine	ND		2120	1480	70	907	43	48*	40-98/27
86-30-6	N-Nitrosodiphenylamine	ND		2120	1250	59	1430	67	13	55-104/22
85-01-8	Phenanthrene	ND		2120	1330	63	1530	72	14	53-106/26
129-00-0	Pyrene	ND		2120	1360	64	1550	73	13	55-111/30
120-82-1	1,2,4-Trichlorobenzene	ND		2120	1270	60	765	36*	50*	41-95/32

CAS No.	Surrogate Recoveries	MS	MSD	F43446-7	Limits
367-12-4	2-Fluorophenol	77%	50%	81%	45-114%
4165-62-2	Phenol-d5	81%	54%	85%	44-124%
118-79-6	2,4,6-Tribromophenol	63%	74%	79%	50-128%
4165-60-0	Nitrobenzene-d5	61%	43%	70%	41-123%
321-60-8	2-Fluorobiphenyl	59%	55%	72%	46-122%
1718-51-0	Terphenyl-d14	62%	70%	76%	45-135%



GC Volatiles



QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Page 1 of 1

Job Number: F43446

Account: OSAGEVAN Osage of Virginia

Project: FC 201/TT2477; Camp Lejeune, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GUV1377-MB	UV023865.D1		09/15/06	MM	n/a	n/a	GUV1377

The QC reported here applies to the following samples:

Method: MADEP VPH

F43446-1, F43446-2, F43446-3, F43446-4, F43446-5, F43446-6, F43446-7, F43446-8, F43446-9

CAS No.	Compound	Result	RL	MDL	Units	Q
	C5- C8 Aliphatics (Unadj.)	ND	3800	2000	ug/kg	
	C9- C12 Aliphatics (Unadj.)	ND	2800	1500	ug/kg	
	C9- C10 Aromatics (Unadj.)	ND	1000	510	ug/kg	

CAS No.	Surrogate Recoveries	Limits
460-00-4	BFB	99% 70-130%
460-00-4	BFB	95% 70-130%

Blank Spike Summary

Page 1 of 1

Job Number: F43446
Account: OSAGEVAN Osage of Virginia
Project: FC 201/TT2477; Camp Lejeune, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GUV1377-BS	UV023864.D1		09/15/06	MM	n/a	n/a	GUV1377

The QC reported here applies to the following samples:

Method: MADEP VPH

F43446-1, F43446-2, F43446-3, F43446-4, F43446-5, F43446-6, F43446-7, F43446-8, F43446-9

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
	C5- C8 Aliphatics (Unadj.)	25000	27700	111	70-130
	C9- C12 Aliphatics (Unadj.)	25000	26800	107	70-130
	C9- C10 Aromatics (Unadj.)	4160	4590	110	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	BFB	112%	70-130%
460-00-4	BFB	108%	70-130%

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: F43446
Account: OSAGEVAN Osage of Virginia
Project: FC 201/TT2477; Camp Lejeune, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F43446-2MS	UV023878.D 1		09/15/06	MM	n/a	n/a	GUV1377
F43446-2MSD	UV023879.D 1		09/15/06	MM	n/a	n/a	GUV1377
F43446-2	UV023867.D 1		09/15/06	MM	n/a	n/a	GUV1377

The QC reported here applies to the following samples:

Method: MADEP VPH

F43446-1, F43446-2, F43446-3, F43446-4, F43446-5, F43446-6, F43446-7, F43446-8, F43446-9

CAS No.	Compound	F43446-2 ug/kg	Spike Q	ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
	C5- C8 Aliphatics (Unadj.)	ND		28000	24100	86	24600	88	2	70-130/50
	C9- C12 Aliphatics (Unadj.)	ND		28000	24700	88	25800	92	4	70-130/50
	C9- C10 Aromatics (Unadj.)	ND		4670	4330	93	4560	98	5	70-130/50

CAS No.	Surrogate Recoveries	MS	MSD	F43446-2	Limits
460-00-4	BFB	83%	87%	86%	70-130%
460-00-4	BFB	81%	85%	84%	70-130%

Duplicate Summary

Page 1 of 1

Job Number: F43446

Account: OSAGEVAN Osage of Virginia

Project: FC 201/TT2477; Camp Lejeune, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F43446-8DUP	UV023876.D1		09/15/06	MM	n/a	n/a	GUV1377
F43446-8	UV023873.D1		09/15/06	MM	n/a	n/a	GUV1377

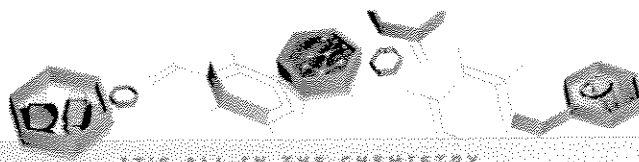
The QC reported here applies to the following samples:

Method: MADEP VPH

F43446-1, F43446-2, F43446-3, F43446-4, F43446-5, F43446-6, F43446-7, F43446-8, F43446-9

CAS No.	Compound	F43446-8	DUP	RPD	Limits
		ug/kg	Q ug/kg		
	C5- C8 Aliphatics (Unadj.)	ND	ND	nc	
	C9- C12 Aliphatics (Unadj.)	ND	ND	nc	
	C9- C10 Aromatics (Unadj.)	ND	ND	nc	

CAS No.	Surrogate Recoveries	DUP	F43446-8	Limits
460-00-4	BFB	87%	86%	70-130%
460-00-4	BFB	86%	84%	70-130%



GC Semi-volatiles

QC Data Summaries

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Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Page 1 of 1

Job Number: F43446

Account: OSAGEVAN Osage of Virginia

Project: FC 201/TT2477; Camp Lejeune, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP17843-MB	ZF21417.D	1	09/19/06	ME	09/13/06	OP17843	GZF1007

The QC reported here applies to the following samples:

Method: MADEP-EPH-98-1

F43446-1, F43446-2, F43446-3, F43446-4, F43446-5, F43446-6, F43446-7, F43446-8

CAS No.	Compound	Result	RL	MDL	Units	Q
	C11-C22 Aromatics (Unadj.)	ND	6700	6700	ug/kg	
	C9-C18 Aliphatics	ND	6700	6700	ug/kg	
	C19-C36 Aliphatics	ND	6700	6700	ug/kg	

CAS No.	Surrogate Recoveries	Limits
3386-33-2	1-Chlorooctadecane	74% 40-140%
580-13-2	2-Bromonaphthalene	55% 40-140%
84-15-1	o-Terphenyl	74% 40-140%
321-60-8	2-Fluorobiphenyl	83% 40-140%

Method Blank Summary

Page 1 of 1

Job Number: F43446
Account: OSAGEVAN Osage of Virginia
Project: FC 201/TT2477; Camp Lejeune, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP17843-MB	ZF21439.D	1	09/20/06	ME	09/13/06	OP17843	GZF1008

The QC reported here applies to the following samples:

Method: MADEP-EPH-98-1

F43446-1, F43446-2, F43446-3, F43446-4, F43446-5, F43446-6, F43446-7, F43446-8

CAS No.	Compound	Result	RL	MDL	Units	Q
	C11-C22 Aromatics (Unadj.)	ND	6700	6700	ug/kg	
	C9-C18 Aliphatics	ND	6700	6700	ug/kg	
	C19-C36 Aliphatics	ND	6700	6700	ug/kg	

CAS No.	Surrogate Recoveries	Limits
3386-33-2	1-Chlorooctadecane	79% 40-140%
580-13-2	2-Bromonaphthalene	55% 40-140%
84-15-1	o-Terphenyl	75% 40-140%
321-60-8	2-Fluorobiphenyl	84% 40-140%

Method Blank Summary

Page 1 of 1

Job Number: F43446

Account: OSAGEVAN Osage of Virginia

Project: FC 201/TT2477; Camp Lejeune, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP17843-MB	ZF21450.D	1	09/21/06	ME	09/13/06	OP17843	GZF1009

The QC reported here applies to the following samples:

Method: MADEP-EPH-98-1

F43446-1, F43446-2, F43446-3, F43446-4, F43446-5, F43446-6, F43446-7, F43446-8

CAS No.	Compound	Result	RL	MDL	Units	Q
	C11-C22 Aromatics (Unadj.)	ND	6700	6700	ug/kg	
	C9-C18 Aliphatics	ND	6700	6700	ug/kg	
	C19-C36 Aliphatics	ND	6700	6700	ug/kg	

CAS No.	Surrogate Recoveries	Limits
3386-33-2	1-Chlorooctadecane	80% 40-140%
580-13-2	2-Bromonaphthalene	57% 40-140%
84-15-1	o-Terphenyl	76% 40-140%
321-60-8	2-Fluorobiphenyl	86% 40-140%

Blank Spike Summary

Page 1 of 1

Job Number: F43446

Account: OSAGEVAN Osage of Virginia

Project: FC 201/TT2477; Camp Lejeune, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP17843-BS	ZF21416.D	1	09/19/06	ME	09/13/06	OP17843	GZF1007

The QC reported here applies to the following samples:

Method: MADEP-EPH-98-1

F43446-1, F43446-2, F43446-3, F43446-4, F43446-5, F43446-6, F43446-7, F43446-8

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
	C11-C22 Aromatics (Unadj.)	28300	27300	96	40-140
	C9-C18 Aliphatics	10000	13300	133	40-140
	C19-C36 Aliphatics	13300	17300	130	40-140

CAS No.	Surrogate Recoveries	BSP	Limits
3386-33-2	1-Chlorooctadecane	78%	40-140%
580-13-2	2-Bromonaphthalene	56%	40-140%
84-15-1	o-Terphenyl	77%	40-140%
321-60-8	2-Fluorobiphenyl	88%	40-140%

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: F43446

Account: OSAGEVAN Osage of Virginia

Project: FC 201/TT2477; Camp Lejeune, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP17843-MS	ZF21429.D	1	09/19/06	ME	09/13/06	OP17843	GZF1007
OP17843-MSD	ZF21430.D	1	09/19/06	ME	09/13/06	OP17843	GZF1007
F43446-8	ZF21428.D	1	09/19/06	ME	09/13/06	OP17843	GZF1007

The QC reported here applies to the following samples:

Method: MADEP-EPH-98-1

F43446-1, F43446-2, F43446-3, F43446-4, F43446-5, F43446-6, F43446-7, F43446-8

CAS No.	Compound	F43446-8 ug/kg	Spike Q	ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
	C11-C22 Aromatics (Unadj.)	ND		31900	32300	101	31900	97	1	40-140/50
	C9-C18 Aliphatics	ND		11300	14800	131	15900	137	7	40-140/50
	C19-C36 Aliphatics	ND		15000	19300	128	21600	140	11	40-140/50

CAS No.	Surrogate Recoveries	MS	MSD	F43446-8	Limits
3386-33-2	1-Chlorooctadecane	76%	83%	71%	40-140%
580-13-2	2-Bromonaphthalene	69%	58%	69%	40-140%
84-15-1	o-Terphenyl	81%	76%	80%	40-140%
321-60-8	2-Fluorobiphenyl	91%	85%	88%	40-140%

Duplicate Summary

Page 1 of 1

Job Number: F43446

Account: OSAGEVAN Osage of Virginia

Project: FC 201/TT2477; Camp Lejeune, NC

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP17843-DUP	ZF21452.D	1	09/21/06	ME	09/13/06	OP17843	GZF1009
F43446-7	ZF21451.D	1	09/21/06	ME	09/13/06	OP17843	GZF1009

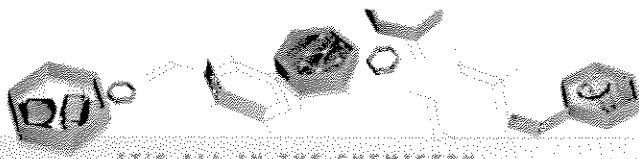
The QC reported here applies to the following samples:

Method: MADEP-EPH-98-1

F43446-1, F43446-2, F43446-3, F43446-4, F43446-5, F43446-6, F43446-7, F43446-8

CAS No.	Compound	F43446-7 ug/kg	DUP Q	DUP ug/kg	Q	RPD	Limits
	C11-C22 Aromatics (Unadj.)	18000		31600		55*	
	C9-C18 Aliphatics	ND		ND		nc	
	C19-C36 Aliphatics	31200		45400		37*	

CAS No.	Surrogate Recoveries	DUP	F43446-7	Limits
3386-33-2	1-Chlorooctadecane	70%	82%	40-140%
580-13-2	2-Bromonaphthalene	67%	72%	40-140%
84-15-1	o-Terphenyl	74%	91%	40-140%
321-60-8	2-Fluorobiphenyl	86%	97%	40-140%



IT'S ALL IN THE CHEMISTRY

Metals Analysis

QC Data Summaries



Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F43446
Account: OSAGEVAN - Osage of Virginia
Project: FC 201/TT2477; Camp Lejeune, NC

QC Batch ID: MP10283
Matrix Type: SOLID

Methods: SW846 7471A
Units: mg/kg

Prep Date: 09/09/06

Metal	RL	IDL	MB	
			raw	final
Mercury	0.083	.0067	-0.012	<0.083

Associated samples MP10283: F43446-1, F43446-2, F43446-3, F43446-4, F43446-5

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

8.1.1
8

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F43446
 Account: OSAGEVAN - Osage of Virginia
 Project: EC 201/TT2477; Camp Lejeune, NC

QC Batch ID: MP10283
 Matrix Type: SOLID

Methods: SW846 7471A
 Units: mg/kg

Prep Date: 09/09/06 09/09/06

Metal	F43480-2		RPD	QC Limits	F43480-2		Spikelet HGFLWS1	% Rec	QC Limits
	Original	DUP			Original	MS			
Mercury	0.034	0.025	30.5 (a)	0-20	0.034	0.37	0.29	114.7	80-120

Associated samples MP10283: F43446-1, F43446-2, F43446-3, F43446-4, F43446-5

Results < IDL are shown as zero for calculation purposes

- (*) Outside of QC limits
- (N) Matrix Spike Rec. outside of QC limits
- (anr) Analyte not requested
- (a) RPD acceptable due to low duplicate and sample concentrations.

8.12
8

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F43446
 Account: OSAGEVAN - Osage of Virginia
 Project: FC 201/TT2477; Camp Lejeune, NC

QC Batch ID: MP10283
 Matrix Type: SOLID

Methods: SW846 7471A
 Units: mg/kg

Prep Date: 09/09/06

Metal	F43460-2 Original MSD	Spikelot HGFLWSi	% Rec	MSD RPD	QC Limit
Mercury	0.034 0.34	0.29	104.5	8.5	20

Associated samples MP10283: F43446-1, F43446-2, F43446-3, F43446-4, F43446-5

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

8.12

8

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: F43446
Account: OSAGEVAN - Osage of Virginia
Project: FC 201/TT2477; Camp Lejeune, NC

QC Batch ID: MP10283
Matrix Type: SOLID

Methods: SW846 7471A
Units: mg/kg

Prep Date: 09/09/06

Metal	BSP Result	Spikelot HGFLWS1	% Rec	QC Limits
Mercury	0.25	0.25	100.0	90-120

Associated samples MP10283: F43446-1, F43446-2, F43446-3, F43446-4, F43446-5

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

8.13

8

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F43446
Account: OSAGEVAN - Osage of Virginia
Project: EC 201/TT2477; Camp Lejeune, NC

QC Batch ID: MP10328
Matrix Type: SOLID

Methods: SW846 601GB
Units: mg/kg

Prep Date: 09/18/06

Metal	RL	IDL	MB raw	final
Aluminum	20	1.8	2.8	<20
Antimony	6.0	.34	0.20	<6.0
Arsenic	0.80	.28	-0.20	<0.80
Barium	20	.04	0.021	<20
Beryllium	0.50	.04	-0.097	<0.50
Cadmium	0.40	.02	0.025	<0.40
Calcium	500	4.2	9.9	<500
Chromium	1.0	.06	-0.017	<1.0
Cobalt	5.0	.06	-0.052	<5.0
Copper	2.5	.09	-0.057	<2.5
Iron	10	1.2	1.1	<10
Lead	10	.17	0.16	<10
Magnesium	500	.43	0.84	<500
Manganese	1.5	.06	0.13	<1.5
Molybdenum	5.0	.13		
Nickel	4.0	.08	0.029	<4.0
Potassium	2000	2	5.2	<2000
Selenium	10	.2	0.020	<10
Silver	1.0	.09	-0.053	<1.0
Sodium	2000	50	-8.6	<2000
Thallium	4.0	.23	-1.1	<4.0 (a)
Tin	5.0	.31		
Vanadium	5.0	.06	0.026	<5.0
Zinc	2.0	.13	0.95	<2.0

Associated samples MP10328: F43446-1, F43446-2, F43446-3, F43446-4, F43446-5

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

(a) Elevated RL/MDL due to negative bias of Method Blank.

8.2.1
8

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F43446
 Account: OSAGEVAN - Osage of Virginia
 Project: EC 201/TT2477; Camp Lejeune, NC

QC Batch ID: MP10328
 Matrix Type: SOLID

Methods: SW846 6010B
 Units: mg/kg

Prep Date: 09/18/06 09/18/06

Metal	F43446-2 Original	DUP	RPD	QC Limits	F43446-2 Original MS	SpikeLot MPFLICP1	% Rec	QC Limits
Aluminum	11600	12400	6.7	0-20	11600	15300	2950	125.6N(c) 80-120
Antimony	0.0	0.0	NC	0-20	0.0	14.1	54.6	25.8W(c) 80-120
Arsenic	4.8	5.5	13.6	0-20	4.8	169	218	75.2N(c) 80-120
Barium	249	210	17.0	0-20	249	387	218	63.2N(c) 80-120
Beryllium	1.5	1.6	6.5	0-20	1.5	6.7	5.5	95.3 80-120
Cadmium	0.0	0.0	NC	0-20	0.0	4.5	5.5	82.5 80-120
Calcium	1750	1670	4.7	0-20	1750	4400	2730	97.1 80-120
Chromium	13.4	14.4	7.2	0-20	13.4	33.0	21.8	89.8 80-120
Cobalt	7.6	7.8	2.6	0-20	7.6	55.6	54.6	88.0 80-120
Copper	16.0	16.5	3.1	0-20	16.0	40.2	27.3	88.7 80-120
Iron	15900	17400	9.0	0-20	15900	18000	2840	74.0 (d) 80-120
Lead	363	231	44.4*(a)	0-20	363	255	54.6	-197.9(d) 80-120
Magnesium	481	517	7.2	0-20	481	2860	2730	87.2 80-120
Manganese	986	1020	3.4	0-20	986	1250	54.6	483.8(d) 80-120
Molybdenum								
Nickel	9.3	10.1	8.2	0-20	9.3	56.7	54.6	86.9 80-120
Potassium	306	340	10.5	0-20	306	2500	2730	80.4 80-120
Selenium	1.0	1.3	26.1 (b)	0-20	1.0	149	218	67.8N(c) 80-120
Silver	0.10	0.0	200.0(b)	0-20	0.10	4.8	5.5	86.1 80-120
Sodium	318	331	4.0	0-20	318	2450	2730	78.1N(c) 80-120
Thallium	0.0	0.0	NC	0-20	0.0	177	218	81.1 80-120
Tin								
Vanadium	28.0	29.8	6.2	0-20	28.0	74.2	54.6	84.7 80-120
Zinc	252	233	7.8	0-20	252	265	54.6	23.8 (d) 80-120

Associated samples MP10328: F43446-1, F43446-2, F43446-3, F43446-4, F43446-5

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

(a) High RPD due to possible sample nonhomogeneity.

(b) RPD acceptable due to low duplicate and sample concentrations.

(c) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.

(d) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F43446
 Account: OSAGEVAN - Osage of Virginia
 Project: EC 201/TT2477; Camp Lejeune, NC

QC Batch ID: MP10328
 Matrix Type: SOLID

Methods: SW846 6010B
 Units: mg/kg

Prep Date: 09/18/06

Metal	F43446-2 Original MSD	Spikelot MPFLICPl	% Rec	MSD RPD	QC Limit
Aluminum	11600	16000	3060	143.6N(a) 4.5	20
Antimony	0.0	14.3	56.8	25.2N(a) 1.4	20
Arsenic	4.8	181	227	77.6N(a) 6.9	20
Barium	249	451	227	89.0 15.3	20
Beryllium	1.5	6.9	5.7	95.1 2.9	20
Cadmium	0.0	4.9	5.7	86.3 8.5	20
Calcium	1750	4310	2840	90.2 2.1	20
Chromium	13.4	34.7	22.7	93.8 5.0	20
Cobalt	7.6	58.3	56.8	89.3 4.7	20
Copper	16.0	42.7	28.4	94.1 6.0	20
Iron	15900	18600	2950	91.5 3.3	20
Lead	363	269	56.8	-165.6(b) 5.3	20
Magnesium	481	3010	2840	89.1 5.1	20
Manganese	986	1140	56.8	271.3(b) 9.2	20
Molybdenum					
Nickel	9.3	60.5	56.8	90.2 6.5	20
Potassium	306	2590	2840	80.5 3.5	20
Selenium	1.0	160	227	70.0N(a) 7.1	20
Silver	0.10	5.0	5.7	86.3 4.1	20
Sodium	318	2600	2840	80.4 5.9	20
Thallium	0.0	189	227	83.3 6.6	20
Tin					
Vanadium	28.0	78.3	56.8	88.6 5.4	20
Zinc	252	287	56.8	61.7 (b) 8.0	20

Associated samples MP10328: F43446-1, F43446-2, F43446-3, F43446-4, F43446-5

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

(a) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.

(b) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: F43446
Account: OSAGEVAN - Osage of Virginia
Project: EC 201/TT2477; Camp Lejeune, NC

QC Batch ID: MP10328
Matrix Type: SOLID

Methods: SW846 6010B
Units: mg/kg

Prep Date: 09/18/06

Metal	BSF Result	Spikelot MPFLICP1	% Rec	QC Limits
Aluminum	2740	2700	101.5	80-120
Antimony	50.9	50	101.8	80-120
Arsenic	203	200	101.5	80-120
Barium	204	200	102.0	80-120
Beryllium	5.7	5	114.0	80-120
Cadmium	5.3	5	106.0	80-120
Calcium	2690	2500	107.6	80-120
Chromium	21.4	20	107.0	80-120
Cobalt	53.4	50	106.8	80-120
Copper	25.6	25	102.4	80-120
Iron	2780	2600	106.9	80-120
Lead	51.5	50	103.0	80-120
Magnesium	2600	2500	104.0	80-120
Manganese	54.6	50	109.2	80-120
Molybdenum				
Nickel	53.2	50	106.4	80-120
Potassium	2100	2500	84.0	80-120
Selenium	190	200	95.0	80-120
Silver	5.0	5	100.0	80-120
Sodium	2160	2500	86.4	80-120
Thallium	206	200	103.0	80-120
Tin				
Vanadium	52.0	50	104.0	80-120
Zinc	54.2	50	108.4	80-120

Associated samples MP10328: F43446-1, F43446-2, F43446-3, F43446-4, F43446-5

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

8.2.3

8

SERIAL DILUTION RESULTS SUMMARY

Login Number: F43446
Account: OSAGEVAN - Osage of Virginia
Project: FC 201/TT2477; Camp Lejeune, NC

QC Batch ID: MP10328
Matrix Type: SOLID

Methods: SW846 6010B
Units: ug/l

Prep Date: 09/18/06

F43486-2				
Metal	Original	SDL 1:5	RPD	QC Limits
Aluminum	106000	127000	19.6* (a)	0-10
Antimony	0.00	0.00	NC	0-10
Arsenic	44.1	51.8	17.3 (b)	0-10
Barium	2280	2850	24.9* (a)	0-10
Beryllium	14.0	15.9	13.3 (b)	0-10
Cadmium	0.00	0.00	NC	0-10
Calcium	16000	20000	24.9* (a)	0-10
Chromium	123	154	25.4* (a)	0-10
Cobalt	69.4	87.4	26.0* (a)	0-10
Copper	147	171	16.8* (a)	0-10
Iron	146000	183000	25.5* (a)	0-10
Lead	3330	4200	26.1* (a)	0-10
Magnesium	4410	5490	24.7* (a)	0-10
Manganese	9030	11700	30.0* (a)	0-10
Molybdenum				
Nickel	85.2	108	26.8* (a)	0-10
Potassium	2800	3020	8.0	0-10
Selenium	9.57	15.8	65.2 (b)	0-10
Silver	0.940	0.00	100.0 (b)	0-10
Sodium	2920	4060	39.3 (b)	0-10
Thallium	0.00	0.00	NC	0-10
Tin				
Vanadium	257	320	24.5* (a)	0-10
Zinc	2310	3040	31.9* (a)	0-10

Associated samples MP10328: F43446-1, F43446-2, F43446-3, F43446-4, F43446-5

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

(a) Serial dilution indicates possible matrix interference.

(b) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

8.2.4
8