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## MONITORING REPORTS

OPERABLE UNIT NO. 10 - SITE 35 MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA

# **REPORTING PERIOD JANUARY 1999 – MARCH 1999**

## **CONTRACT TASK ORDER - 0120**

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DEPARTMENT OF THE NAVY ATLANTIC DIVISION NAVAL FACILITIES ENGINEERING COMMAND Norfolk, Virginia

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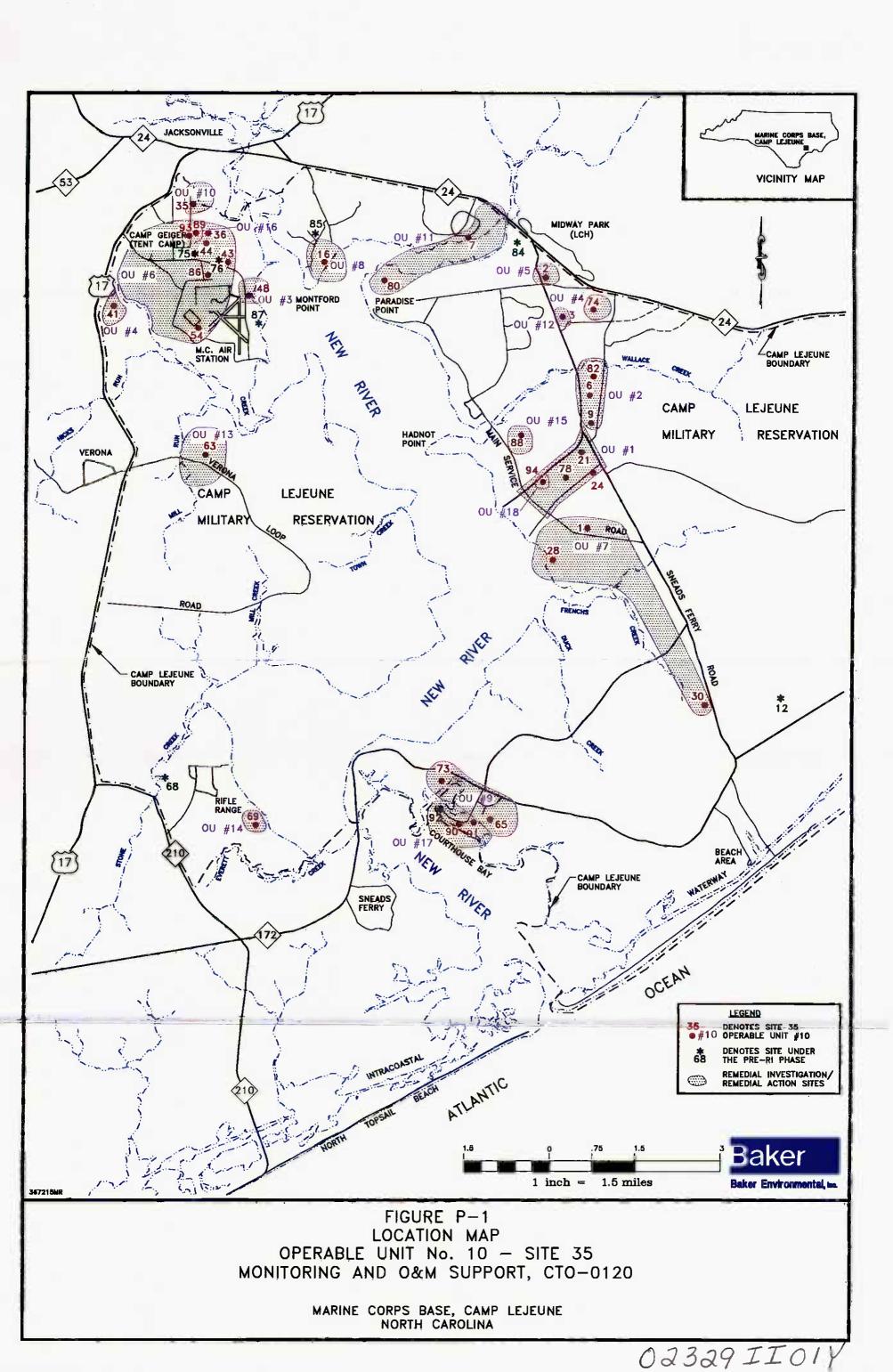
BAKER ENVIRONMENTAL, INC. Coraopolis, Pennsylvania

#### PREFACE

The monitoring reports that are presented herein describe the procedures, analytical findings, and subsequent recommendations of the monitoring program at Operable Unit (OU) No. 10 (Site 35), Marine Corps Base (MCB) Camp Lejeune, North Carolina. Figure P-1 depicts the location of OU 10. The monitoring reports have been prepared by Baker Environmental, Inc. (Baker) and submitted to the United States Environmental Protection Agency – Region IV; the North Carolina Department of Environment and Natural Resources; the Environment Management Department of MCB, Camp Lejeune; and the Naval Facilities Engineering Command, Atlantic Division (LANTDIV).

The previous field investigations that have been performed by Baker, have formed the basis for the forthcoming Record of Decision (ROD), which defines site-specific remedial goals. Based on the nature of contamination revealed by data from the past investigations, Site 35 was introduced as a candidate for remediation via monitored natural attenuation (NA) in January of 1999. NA is a process by which natural subsurface mechanisms reduce contaminant toxicity, mobility, or volume. These mechanisms include biodegradation, dispersion, dilution, sorption, volatilization, and chemical/biochemical stabilization. Baker has been tasked to implement monitoring at Site 35 to provide additional data necessary to support NA as a remedial alternative.

The principal objectives of the monitoring program at OU 10 are as follows: (1) monitor potential for human or ecological exposure due to off-site migration of contaminants, and (2) give a brief history on the installed groundwater treatment system located at Site 35. The quarterly monitoring reports document the findings and provide interested parties with information required to authorize future decisions regarding OU 10. The information presented in the reports will be used to either extend, modify, or discontinue the monitoring program as necessary.



#### **TABLE OF CONTENTS**

#### Page

MONITORING REPORT	1
Groundwater Elevation and Flow Direction	2
Field Observations	2
ANALYTICAL RESULTS AND FINDINGS	
Volatile Organic Compounds	3
Volatile Organic Compounds Monitored Natural Attenuation	4
TREATMENT SYSTEM EVALUATION	4
RECOMMENDATIONS	5
	J
	-
REFERENCES	

### LIST OF TABLES

1 Summary of Well Depths	
--------------------------	--

- 2 Summary of Groundwater Field Parameters
- 3 Groundwater Sampling Summary
- Summary of Water Level Measurements 4
- Trip Blank Analytical Results 5
- Summary of Groundwater Analytical Results 6
- Positive Detections in Groundwater Volatile Organics in Groundwater 7
- 8
- 9 Natural Attenuation Field Test Results
- Positive Detections in Groundwater 10
- Natural Attenuation Analytical Results for Groundwater 11

#### LIST OF FIGURES

- Monitoring Well Location Map 1
- 2 Shallow Groundwater Contour Map
- 3 Intermediate Groundwater Contour Map
- Volatile Organic Compounds Shallow Surficial Aquifer 4
- 5 Volatile Organic Compounds - Intermediate Surficial Aquifer
- Natural Attenuation Parameters Shallow Surficial Aquifer 6
- Natural Attenuation Parameters Intermediate Surficial Aquifer 7

## **ATTACHMENTS**

- Α Chain-of-Custody Documentation
- Monitoring Program Analytical Results В
- С Analytical Laboratory Data Sheets

#### **MONITORING REPORT**

This monitoring report presents a summary of sampling activities, field observations, and analytical results that pertain to the natural attenuation monitoring program at Operable Unit (OU) No. 10 (Site 35), Marine Corps Base (MCB), Camp Lejeune, North Carolina. Recommendations regarding the monitoring program at OU 10 are also presented within this report.

Site 35 is located within Camp Geiger. Natural attenuation monitoring activities at Site 35 began in January of 1999 and are scheduled to continue on a quarterly basis. Monitoring includes the collection of groundwater and surface water samples. Groundwater samples were obtained from five shallow monitoring wells and nine intermediate wells on January 20, 1999. Figure 1 depicts the locations of all monitoring wells at Site 35 and identified the wells and surface water sampling locations included in the monitoring program. Table 1 provides the total depths of monitoring wells included in the monitoring program at Site 35. [All tables and figures are provided after the text portion of this report.]

Groundwater monitoring at OU 10 includes sampling of natural attenuation (NA) parameters. NA is a process by which natural subsurface mechanisms reduce contaminant toxicity, mobility, or volume. These mechanisms include biodegradation, dispersion, dilution, sorption, volatilization, and chemical/biochemical stabilization. The following NA-specific lists the geochemical and biochemical parameters collected and evaluated at Site 35.

- Dissolved Oxygen (anaerobic pathway indicator)
- Nitrate (substrate for microbial respiration)
- Iron (II) (anaerobic degradation process indicator)
- Sulfate (substrate for microbial respiration)
- Methane/Ethane/Ethene (confirmation of biological transformation of chlorinated solvents)
- Chloride (sample confirmation of same aquifer system)
- Total Organic Carbon (used to classify plume)
- Alkalinity (measures buffering capacity of groundwater)
- pH (aerobic and anaerobic processes are pH sensitive)
- Temperature (well development)
- Conductivity (sample confirmation of same aquifer system)
- Oxidation Reduction (used to identify reductive environments)

Measurements of pH, specific conductance, dissolved oxygen, temperature, turbidity, and oxidationreduction potential (Eh) were field parameters recorded prior to sampling. At least three well volumes were purged from each well prior to groundwater collection. Groundwater field parameters were measured between each volume or, in the case of large volumes, between each half volume. A summary of groundwater field parameters from Sites 35 are provided in Table 2.

To accurately evaluate NA processes, immediate field analyses for ferrous iron, alkalinity, and chloride were also conducted. Natural attenuation parameters are discussed later in this report.

Table 3 summarizes requested laboratory analyses and sample identifications. Requested laboratory analyses were chosen based on the results of previous investigations at OU 10, and in order to monitor natural attenuation processes. Groundwater contamination detected in previous investigations at Site 35 consisted of VOC's that were constituent of chlorinated solvents and fuels used and dispensed at the site when it was active. Contaminants of concern at Sites 35 include Volatile Organic

Compounds (VOCs). Additional laboratory analyses were conducted to monitor natural attenuation and to determine background conditions on site. Monitoring well 35-MW65B was designated as a background well.

Sampling activities were conducted and subsequent laboratory analyses were performed according to Standard Operating Procedures (SOPs) and methods specified in the Long Term Monitoring Work Plans for Remedial Investigation Sites (Baker, 1996). Sample information, including well number, sample identification, time and date of sample collection, samplers, and analytical parameters, was recorded in a field logbook and on sample labels. Chain-of-Custody documentation, provided in Attachment A, accompanied the samples to the laboratory.

Prior to the start of the natural attenuation evaluation program, monitoring wells at OU 10 were developed in September 1998 to remove fine-grained material from the well screens and to establish interconnection with the surrounding geologic formation. However, these wells were not redeveloped prior to the introduction of Site 35 into the Long Term Monitoring (LTM) Program in January 1999. Site 35 will now be redeveloped once every two years along with the rest of the LTM sites.

#### **Groundwater Elevation and Flow Direction**

On January 20, 1999, a complete round of static groundwater level measurements were recorded from monitoring wells at Site 35. A summary of these measurements and corresponding groundwater elevations in the upper and lower portions of the surficial aquifer is provided in Table 4.

Groundwater flow in the upper portion of the surficial aquifer north of  $5^{th}$  Street is in a northeasterly direction toward Brinson Creek, as depicted by the groundwater contours in Figure 2. This pattern of groundwater flow is consistent with historical patterns. Hydrological conditions in the upper surficial aquifer are not monitored south of  $5^{th}$  Street because no permanent monitoring wells were installed in this interval during previous investigations.

Groundwater residing in the lower portion of the surficial aquifer also flows in a northeasterly direction towards Brinson Creek north of 7<sup>th</sup> Street. However, south of 7<sup>th</sup> Street groundwater in the lower portion of the surficial aquifer flows in a southeasterly direction towards Edwards Creek (not shown) located south of 8<sup>th</sup> Street. Groundwater contours in the lower portion of the surficial aquifer are depicted in Figure 3 and are generally consistent with historical patterns. However, static water levels at three monitoring wells were very inconsistent with previous data.

#### **Field Observations**

The following field observations were noted during the sampling events at Site 35. Recommendations concerning the field observations are presented later within this report.

Due to the construction of U.S. Highway 17 bypass at Site 35, gaining access to the wetland wells has become difficult if not dangerous due to heavy equipment in the area. The terrain, especially in the wetland area of Site 35, has become more open due to the construction activities.

A number of the wells at Sites 35 have begun to show signs of deterioration. The bollards and protective casings of many of the wells have developed rust. In addition, a number of padlocks used to secure the protective covers are either missing or no longer function properly. The usability and security of each monitoring well should be maintained if they are going to remain reliable groundwater sample collection points in the future.

## ANALYTICAL RESULTS AND FINDINGS

This section presents analytical results from the surface water and groundwater sampling performed at Site 35 during the first quarter of 1999. A summary of all analytical results compiled during the sampling event are presented in Attachment B and corresponding laboratory data sheets are provided in Attachment C.

One trip blank sample was prepared prior to the sampling event. The trip blank accompanied all groundwater samples from this site during field collection, shipment, and laboratory analysis. As provided in Table 5, there were no positive detections of any organic compounds in the trip blank sample.

#### **Volatile Organic Compounds**

Groundwater samples were collected from a total of 14 monitoring wells at Site 35 during this sampling event. To monitor conditions in the upper portion of the surficial aquifer were samples were collected from five monitoring wells (35-MW10S, 35-MW14S, 35-MW31A, 35-MW61A and 35-MW62A that are screened across the water table. To monitor conditions in the lower portion of the surficial aquifer samples were collected from nine monitoring wells (35-MW10D, 35-MW14D, 35-MW31B, 35-MW40B, 35-MW43B, 35-MW55B, 35-MW63B, 35-MW64B and 35-MW65B) with screened intervals located immediately above the semiconfining unit that is prevalent at Site 35.

A total of seven solvent-related VOC contaminants were detected at the site during this sampling event. However, no fuel-related contamination was detected. The most prevalent solvent-related VOC contaminants were primarily trichloroethene (TCE), cis-1,2 dichloroethene (cis-1,2 DCE), trans-1,2 dichloroethene (trans-1,2 DCE) and vinyl chloride (VC). However, 1,1,1 -trichloroethane, 1,1,2,2 tetrachloroethane, and 1,1 dichloroethene were also detected in a limited number of wells. Solvent-related VOC contamination was detected in three ( 35-MW14S, 35-MW61A and 35-MW62A) of the five monitoring wells screened in the upper portion of the surficial aquifer. Two of these wells ( 35-MW14S and 35-MW61A) exhibited levels of contamination that exceeded regulatory standards. Solvent-related VOC contamination was detected in six ( 35-MW10D, 35-MW14D, 35-MW31B, 35-MW40B, 35-MW55B and 35-MW64B) of the nine monitoring wells screened in the lower portion of the surficial aquifer. Contamination levels in all six of these samples exceeded regulatory standards. A summary of groundwater analytical results is provided in Table 6 and a positive detection summary of all analytical results in Table 7. A comparison of contaminant data is compared to regulatory standards in Table 8. Contaminant data is presented graphically on Figures 4 and 5.

The sample collected from monitoring well 35-MW55B (located in the wetland) exhibited the highest level of solvent-related VOC contamination (1,802 ug/L) detected in the lower surfical aquifer and at the site. The highest level of solvent-related VOC contamination was observed in monitoring well 35-MW14S (located upgradient of the in-situ air sparging trench {IAS} trench)( 630 ug/L).

Overall the levels of solvent-related VOC contamination observed in the wells sampled this quarter are consistent with the results of previous sample events. However, substantial fluctuations in contaminant levels were observed in the following wells:

- A substantial decrease in contamination was observed in monitoring well 35-MW10S. No detections of solvent or fuel-related VOC contamination were observed in this well during this sampling event. However, samples collected in September 1998 exhibited 91 ug/L and 4 ug/L of solvent-related and fuel-related VOC contamination, respectively. However, it should be noted that levels of contamination observed in monitoring well 35-MW10S during the current sampling event are consistent with levels observed during the first quarter of 1998.
- A substantial decrease in contamination was observed in monitoring well 35-MW55B. During this sampling event this well exhibited 1,802 ug/L of total solvent-related VOC contamination. However, samples collected in September 1998 exhibited 2,391 ug/L of total solvent-related VOCs.

Surface water samples were collected from Brison Creek at locations adjacent to monitoring wells 35-MW61A, 35-MW62A and 35-MW65B. No solvent or fuel-related contamination was detected in these samples.

#### **Monitored Natural Attenuation Results**

NA parameters were analyzed in the field and at a fix-base laboratory. Field parameters include ferrous iron, total alkalinity, and chloride. Field parameter results obtained at Site 35 for January 1999 are presented on Table 9. These analyses were performed on-site using a portable data logging spectrophotometer (Hach DR/2010).

Fixed-base laboratory parameters include nitrate, sulfate, nitrite, orthophosphate, ammonia, total organic carbon, total organic nitrogen, and dissolved gases (methane, ethane, ethene). All non-background wells were analyzed for dissolved gases, nitrate, and sulfate as presented on Figures 6 and 7. A positive detection summary of all analytical results is presented in Table 10, while Table 11 provides a summary of natural attenuation analytical results in groundwater.

In general, levels ferrous iron, total alkalinity (as calcium carbonate CaCO<sub>3</sub>), chloride, nitrate, sulfate, dissolved gases, nitrite, orthophosphate, ammonia, total organic carbon, total organic nitrogen were consistent with previous rounds. Dissolved oxygen levels in six monitoring wells are not consistent with previous data gathered at the site.

#### TREATMENT SYSTEM EVALUATION

An in-situ air sparging (IAS) trench was first considered at this site when it was evaluated as part of a field-scale pilot study conducted by Baker in the summer of 1996 (Baker, 1996). Baker recommended that IAS applied via horizontal injection wells set atop the semi-confining layer at the base of the surficial aquifer should be considered. Such a system was deemed feasible especially if the design included a permeable trench extending the entire depth of the surficial aquifer. The trench concept would allow for uninhibited air flow from the base of the surficial aquifer to the ground surface where it could be monitored. The need for the permeable trench resulted from Baker's observations during the field pilot study of the effects on air flow of lower permeability thin soil lenses. The soil lenses misdirected the air flow away from Baker's monitoring points resulting in poor off-gas management and collection. Baker also noted the poor site conditions (i.e., saturated ground, difficult site access, limited work space between the edge of the proposed U.S. 17 Jacksonville Bypass right-of-way) in the wetlands area near Brinson Creek and recommended that IAS technology, if used at Site 35, be applied upgradient. At Site 35 the nearest available upgradient location for an IAS field study was approximately 400 feet to the west along the western edge of the proposed right-of-way. With LANTDIV's authorization Baker designed an IAS system in accordance with the recommendations of the pilot study in August 1997. Construction and operations of a portion of the design, deemed Phase I, completed in early 1998. The system has been operating ever since. Construction of Phase II was subject to an evaluation of the Phase I system's effectiveness and its impact on natural attenuation processes at Site 35.

The treatment system data for the time period (January 1999 – March 1999) was unavailable to be documented in this report. However, future Site 35 monitoring reports will include this particular information as it becomes available from the contractor responsible for obtaining it (i.e. the IT Group).

#### RECOMMENDATIONS

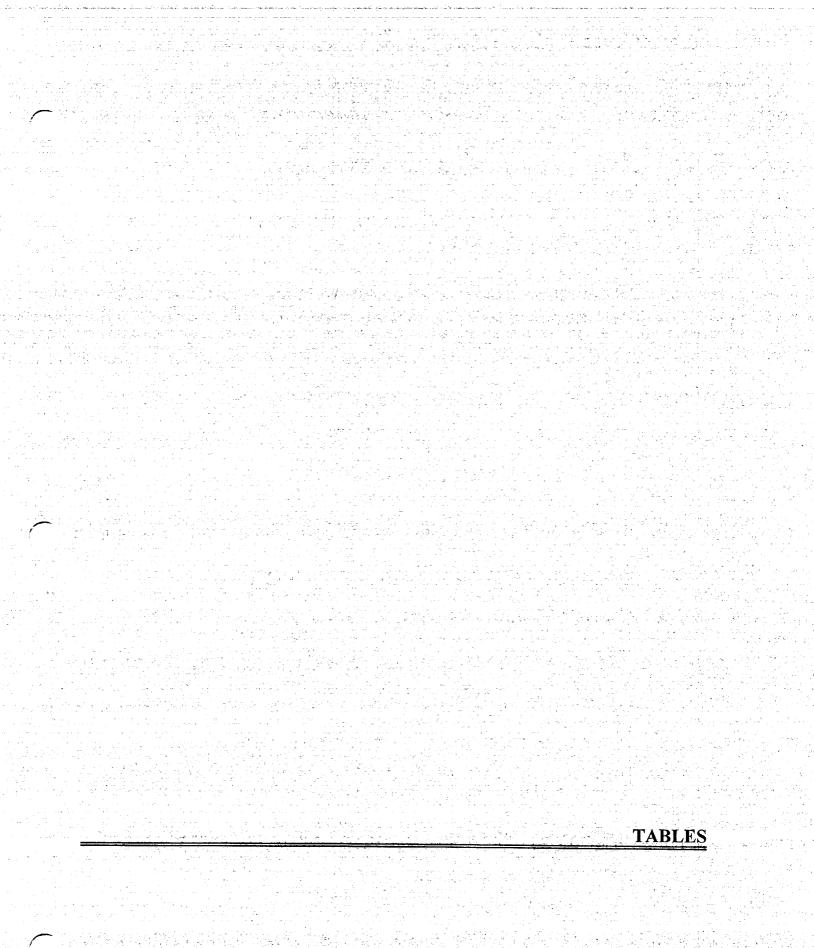
In order to maintain the existing well field and monitor subsurface processes the following are recommended:

- Bollards and well casings should be repaired and painted with weather-resistant paint.
- Deteriorated or missing padlocks should be replaced.
- The existing monitoring program should be continued to assess the impact of seasonal and tidal changes.
- In general, nitrate has been detected at very low frequencies and very low levels site-wide since January 1998. Such low levels are typical of a wetland, such as the one Camp Geiger is constructed on. The collection of additional nitrate data at Site 35 will provides no additional insight into natural attenuative processes that are occurring at Site 35. As such, it is recommended that nitrate analysis be discontinued on samples collected at Site 35.
- Chemetrics<sup>™</sup> ampules should be used to monitor dissolved oxygen.

#### REFERENCES

Baker Environmental, Inc. (Baker). December 1996. <u>Long-Term Monitoring Work Plans for</u> <u>Remedial Investigation Sites</u>. Prepared for the Navy Atlantic Division Naval Facilities Engineering Command, Norfolk, Virginia.

Baker, 1996. <u>Treatment Study Work Plan, Pilot-Scale Evaluation of In-Situ Air Sparging</u>. Marine Corps Base, Camp Lejeune, North Carolina.



## SUMMARY OF WELL DEPTHS OPERABLE UNIT NO. 10 - SITE 35 MONITORING AND O&M SUPPORT, CTO-0120 MCB, CAMP LEJEUNE, NORTH CAROLINA

	Well Depth
Well Identification	(ft bgs)
IR35-MW10S	17.14
IR35-MW10D	31.86
IR35-MW14S	16.16
IR35-MW14D	35.62
IR35-MW31A	14.93
IR35-MW31B	44.25
IR35-MW40B	43.91
IR35-MW43B	42.75
IR35-MW55B	27.36
IR35-MW61A	14.95
IR35-MW62A	16.50
IR35-MW63B	32.00
IR35-MW64B	32.80
IR35-MW65B	33.55

Notes:

bgs - Below ground surface ft - Feet

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## SUMMARY OF GROUNDWATER FIELD PARAMETERS OPERABLE UNIT NO. 10 - SITE 35 MONITORING AND O&M SUPPORT, CTO-0120 MCB, CAMP LEJEUNE, NORTH CAROLINA

				Field Parameters					
				Dissolved	Specific	<b>m</b> .			
1	Well Number	Measuring	Well	Oxygen	Conductance	Temperature	pН	Turbidity	Redox
(	(Sample Date)	Time	Volumes	(mg/L)	(umhos/cm)	( <sup>0</sup> C)	(S.U.)	(N.T.U.)	(mV)
	35-MW10S	1218	1.0	2.7	318	17.9	7.22	0	61.3
	(01/20/99)	1230	2.0	2.6	318	17.5	7.17	0	62.7
1		1243	3.0	2.4	327	17.4	7.16	0	49.9
	35-MW10D	1106	1.0	0.9	497	19.5	7.08	0	-136.6
	(01/20/99)	1127	2.0	0.3	496	19.9	7.04	0	-164.8
1		1151	3.0	0.4	496	20.2	7.04	0	-180.3
	35-MW14S	0945	1.0	3.6	615	18.2	6.99	10	23.4
	(01/20/99)	0950	2.0	2.4	605	18.3	6.89	0	26.5
1		0958	3.0	1.4	579	18.6	6.81	0	6.3
	35-MW14D	0831	1.0	0.7	466	18.6	7.17	0	-91.3
1	(01/20/99)	0851	2.0	0.4	466	19.3	7.17	0	-109.5
		0917	3.0	0.3	466	19.5	7.16	0	-140.3
-	35-MW31A	1019	1.0	2.5	888	17.6	5.96	0	144.9
	(01/20/99)	1025	2.0	2.3	898	17.6	5.97	0	149.9
		1029	3.0	2.0	903	17.5	5.97	0	153.8
		1032	4.0	2.2	908	17.5	5.98	0	152.1
F	35-MW31B	0840	1.0	0.30	474	19.2	7.16	0	-36.0
	(01/20/99)	0907	2.0	0.08	469	19.6	7.16	0	-44.9
		0940	3.0	0.02	467	20.1	7.16	0	-41.2
	35-MW40B	0847	1.0	8.5	498	20.9	6.57	8.1	-40.4
	(01/20/99)	0856	1.5	9.8	523	21.1	6.88	4.2	-69.6
		0904	2.0	9.2	524	21.1	6.92	2.5	-95.5
		0912	2.5	9.5	524	20.9	6.95	1.5	-103.6
		0923	3.0	6.3	508	21.2	6.96	1.3	-99.9
	35-MW43B	1031	1.0	9.0	455	19.1	7.05	3.0	-154.2
l	(01/20/99)	1050	1.5	9.1	449	19.2	7.05	2.7	-149.5
		1107	2.0	8.6	446	19.3	7.05	3.5	-149.3
		1127	2.5	5.4	444	19.3	7.05	3.2	-147.4
	-	1158	3.0	8.9	441	19.4	7.06	2.8	-145.6
$\vdash$	35-MW55B	1512	1.0	0.26	467	18.7	7.19	1	95.0
	(01/20/99)	1522	1.5	0.16	466	18.7	7.19	0	89.2
		1536	2.0	0.00	464	18.6	7.18	0	82.8
		1540	2.5	0.11	464	18.6	7.18	0	81.7
		1550	3.0	0.10	463	18.5	7.19	0	81.4
		1600	3.5	0.08	462	18.5	7.19	0	80.2
F	35-MW61A	1237	1.0	0.65	396	17.7	7.29	26	-82.3
	(01/20/99)	1244	1.5	0.70	406	17.7	7.27	18	-86.0
		1252	2.0	0.32	410	17.8	7.25	9	-89.4
		1302	2.5	0.34	412	17.9	7.24	6	-92.2
		1313	3.0	0.22	413	18.0	7.24	3	-92.6

## TABLE 2 (Continued)

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## SUMMARY OF GROUNDWATER FIELD PARAMETERS OPERABLE UNIT NO. 10 - SITE 35 MONITORING AND O&M SUPPORT, CTO-0120 MCB, CAMP LEJEUNE, NORTH CAROLINA

			Field Parameters						
			Dissolved	Specific					
Well Number	Measuring	Well	Oxygen	Conductance	Temperature	pН	Turbidity	Redox	
(Sample Date)	Time	Volumes	(mg/L)	(umhos/cm)	( <sup>0</sup> C)	(S.U.)	(N.T.U.)	(mV)	
35-MW62A	1112	1.0	0.49	465	17.8	7.24	15	-86.4	
(01/20/99)	1121	1.5	0.33	465	17.9	7.23	9	-87.6	
	1131	2.0	1.01	464	17.9	7.22	3	-88.7	
	1136	2.5	0.28	464	17.9	7.22	3	-90.9	
	1143	3.0	0.31	463	18.0	7.22	0	-92.5	
	1149	3.5	0.34	463	18.1	7.23	0	-92.9	
35-MW63B	0934	1.0	0.32	331	16.8	7.59	24	-66.0	
(01/20/99)	0948	1.5	0.22	331	17.1	7.59	8	-76.8	
	0958	2.0	0.21	330	17.2	7.58	2	-79.7	
	1011	2.5	0.10	330	17.3	7.58	0	-82.9	
	1023	3.0	0.16	331	17.4	7.58	0	-83.6	
35-MW64B	1458	1.0	0.30	334	18.1	7.52	0	-74.4	
(01/20/99)	1505	1.5	0.06	331	17.9	7.52	0	-81.6	
	1513	2.0	0.16	329	17.8	7.52	0	-83.0	
	1527	2.5	0.01	330	17.6	7.52	0	-86.4	
	1540	3.0	0.02	329	17.7	7.52	0	-87.9	
35-MW65B	1551	1.0	0.60	365	17.3	7.71	0	-48.0	
(01/20/99)	1605	1.5	0.54	336	17.8	7.68	0	-53.8	
	1612	2.0	0.34	326	17.7	7.67	0	-59.4	
	1618	2.5	0.27	365	17.7	7.68	0	-61.9	
	1623	3.0	0.22	365	17.6	7.68	0	-63.8	
	1630	3.5	0.19	365	17.6	7.68	0	-66.6	

Notes:

<sup>o</sup>C = Degrees Centigrade

S.U. = Standard Units

mg/L = milligrams per liter

umhos/cm = micro ohms per centimeter

N.T.U. = Nephlometric Turbidity Units

mV = millivolt

## GROUNDWATER SAMPLING SUMMARY OPERABLE UNIT NO. 10 - SITE 35 MONITORING AND O&M SUPPORT, CTO-0120 MCB, CAMP LEJEUNE, NORTH CAROLINA

		TCL	Dissolved								Laboratory Sample
Location	Media	Volatiles <sup>(1)</sup>	Gases <sup>(2)</sup>	Nitrate <sup>(3)</sup>	Sulafate <sup>(4)</sup>	TOC <sup>(5)</sup>	TON <sup>(6)</sup>	Nitrate/Nitrite <sup>(7)</sup>	Ammonia <sup>(8)</sup>	Orthophosphate <sup>(9)</sup>	Identification
35-MW10S	GW	X	X	X	X						IR35-GW10-99A
35-MW10D	GW	X	X	X	Х	1					IR35-GW10IW-99A
35-MW14S	GW	X	Х	X	Х						IR35-GW14-99A
35-MW14D	GW	x	Х	Х	Х						IR35-GW14IW-99A
35-MW31A	GW	X	Х	X	Х						IR35-GW31-99A
35-MW31B	GW	X	Х	Х	Х						IR35-GW31IW-99A
35-MW40B	GW	X	Х	X	Х						IR35-GW40IW-99A
35-MW43B	GW	X	Х	Х	Х						IR35-GW43IW-99A
35-MW55B	GW	X	Х	X	Х						IR35-GW55IW-99A
35-MW61A	GW	X	Х	X	Х						IR35-GW61-99A
35-MW62A	GW	X	X	Х	Х						IR35-GW62-99A
35-MW63B	GW	X	Х	Х	Х						IR35-GW63IW-99A
35-MW64B	GW	X	Х	Х	Х						IR35-GW64IW-99A
35-MW65B	GW	X	Х	X	Х	Х	Х	Х	Х	Х	IR35-GW65IW-99A
35-SW01	SW	Х									IR35-SW01-99A
35-SW02	SW	Х									IR35-SW02-99A
35-SW03	SW	X									IR35-SW03-99A

Notes:

<sup>(1)</sup> Target Compound List Volatile Organics by U.S. Environmental Protection Agency (EPA) Method 8260A. Speciate cis-, trans- 1,2-DCE.

<sup>(2)</sup> Method RSK 175.

<sup>(3)</sup> IC Method 300.0.

<sup>(4)</sup> IC Method 300.0.

<sup>(5)</sup> Total Organic Carbon Method 9060.

<sup>(6)</sup> Total Organic Nitrogen U.S. Environmental Protection Agency (EPA) Method 351.1/350.2.

<sup>(7)</sup> IC Method 300.0.

<sup>(8)</sup> U.S. Environmental Protection Agency (EPA) Method 350.2.

<sup>(9)</sup> IC Method E300.0.

GW = Groundwater

SW = Surface Water

X = Requested Analysis

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## SUMMARY OF WATER LEVEL MEASUREMENTS OPERABLE UNIT NO. 10 - SITE 35 MONITORING AND O&M SUPPORT, CTO-0120 MCB, CAMP LEJEUNE, NORTH CAROLINA

	Reference	SWL	SWE
Well ID	Elevation <sup>(1)</sup>	01/20/99	01/20/99
MP03D	16.26	9.48	6.78
MP03S	16.27	9.24	7.03
MP05D	16.10	9.00	7.10
MP05S	16.12	9.34	6.78
MP06D	15.72	8.38	7.34
MP06S	15.68	8.70	6.98
35-MW09A	18.92	NA	NA
35-MW09B	18.88	NA	NA
35-MW10D	19.01	5.56*	13.45*
35-MW10S	18.99	7.44	11.55
35-MW14D	17.73	10.85	6.88
35-MW14S	17.78	10.85	6.93
35-MW23A	8.74	5.60	3.14
35-MW23B	8.74	4.58	4.16
35-MW29A	20.62	7.73	12.89
35-MW29B	20.28	8.45*	11.83*
35-MW30A	18.38	5.54	12.84
35-MW30B	18.38	5.79	12.59
35-MW31A	18.32	10.32	8.00
35-MW31B	18.46	10.63	7.83
35-MW32A	18.23	7.98	10.25
35-MW32B	18.75	9.45	9.30
35-MW34A	16.77	5.56	11.21
35-MW34B	16.76	8.57	8.19
35-MW37A	20.30	4.95	15.35
35-MW37B	20.33	6.92	13.41
35-MW38A	19.74	6.62	13.12
35-MW38B	20.00	6.57	13.43
35-MW39B	18.83	5.46	13.37
35-MW40B	17.59	5.52	12.07
35-MW42B	15.12	NA	NA
35-MW43B	15.01	1.43	13.58
35-MW47A	NS	2.82	NA
35-MW47B	NS	2.21	NA
35-MW55A	NS	2.12	NA
35-MW55B	NS	3.08	NA
35-MW61A	4.49	2.57	1.92
35-MW62A	5.39	3.65	1.74

## TABLE 4 (Continued)

## SUMMARY OF WATER LEVEL MEASUREMENTS OPERABLE UNIT NO. 10 - SITE 35 MONITORING AND O&M SUPPORT, CTO-0120 MCB, CAMP LEJEUNE, NORTH CAROLINA

	Reference	SWL	SWE
Well ID	Elevation <sup>(1)</sup>	01/20/99	01/20/99
35-MW63B	4.73	2.10	2.63
35-MW64B	4.77	2.30	2.47
35-MW65B	5.08	2.95	2.13
35-MW66A	15.66	7.56	8.10
35-MW67A	15.28	NA	NA
35-MW68B	15.86	6.20*	9.66*
35-MW69B	19.83	10.2	9.63
35-MW70B	19.26	5.92	13.34
35-MW71B	12.70	1.43	11.27

Notes:

<sup>(1)</sup> Top of well casing expressed in feet above mean sea level.

SWL= Static water level taken from top of well casing.

SWE = Static water elevation expressed in feet above mean sea level.

NS = Not surveyed

NA = Not applicable or data not available.

\* This data is not consistent with previous findings aquired by Baker. Data will be collected and evaluated for these wells in future quarters.

## TRIP BLANK ANALYTICAL RESULTS **OPERABLE UNIT NO. 10 - SITE 35** MONITORING AND O&M SUPPORT, CTO-0120 MCB, CAMP LEJEUNE, NORTH CAROLINA

IR35-TB01-99A SAMPLE ID DATE SAMPLED

1/20/99

## VOLATILES (ug/L)

VOLATILES (ug/L)	
1,1,1-Trichloroethane	5 U
1,1,2,2-Tetrachloroethane	5 U
1,1,2-Trichloroethane	5 U
1,1-Dichloroethane	5 U
1,1-Dichloroethene	5 U
1,2-Dichloroethane	5 U
1,2-Dichloropropane	5 U
2-Butanone	10 U
2-Hexanone	10 U
4-Methyl-2-pentanone	10 U
Acetone	10 U
Benzene	5 U
Bromodichloromethane	5 U
Bromoform	5 U
Bromomethane	5 U
Carbon disulfide	5 U
Carbon tetrachloride	5 U
Chlorobenzene	5 U
Chloroethane	5 U
Chloroform	5 U
Chloromethane	5 U
cis-1,2-Dichloroethene	5 U
cis-1,3-Dichloropropene	5 U
Dibromochloromethane	5 U
Ethylbenzene	5 U
Methylene chloride	5 U
Styrene	5 U
Tetrachloroethene	5 U
Toluene	5 U
trans-1,2-Dichloroethene	5 U
trans-1,3-Dichloropropene	5 U
Trichloroethene	5 U
Vinyl chloride	5 U
Xylenes	5 U
DISSOLVED GASES	
Ethane (ug/ml)	0.01 U
Ethene (ug/ml)	0.01 U
Methane (ug/ml)	0.01 U

U = Not detectedug/L = Micrograms per liter ug/ml = Micrograms per milliliter

## SUMMARY OF GROUNDWATER ANALYTICAL RESULTS OPERABLE UNIT NO. 10 - SITE 35 MONITORING AND O&M SUPPORT, CTO-0120 MCB, CAMP LEJEUNE, NORTH CAROLINA

Fraction	Detected Contaminants or	Comparison Criteria		Concentration Range		Location of	Detection	Detected	Above
Traction	Analytes	NCWQS	MCL	Min.	Max.	Maximum Detection	Frequency	NCWQS	MCL
Volatile	1,1,1-Trichloroethane	200	200	7 J	7 J	35-GW31IW	1/14	0	0
Organics	1,1,2,2-Tetrachloroethane	NE	NE	10	10	35-GW55IW	1/14	NA	NA
	1,1-Dichloroethene	7	7	4 J	6	35-GW55IW	2/14	0	0
	cis-1,2-Dichloroethene	70	70	5 J	750	35-GW55IW	9/14	7	7
	trans-1,2-Dichloroethene	NE	100	8	180	35-GW55IW	7/14	NA	1
	Trichloroethene	NE	5	4 J	820	35-GW55IW	8/14	NA	7
I	Vinyl chloride	0.015	2	6	36	35-GW55IW	4/14	4	4

Notes:

Organic concentrations presented in micrograms per liter (ug/L) or parts per billion.

#### J = Estimated Value

MCL = Federal Maximum Contaminant Level. Maximum permissible level of a contaminant in water which is delivered to any user of a public water system. (U.S. Environmental Protection Agency - Drinking Water Regulations and Health Advisories.)

NA = Not Applicable

- NCWQS = North Carolina Water Quality Standards. Values Applicable to Groundwater (North Carolina Administrative Code, Title 15A, Subchapter 2L).
- NE = Not Established

## POSITIVE DETECTIONS IN GROUNDWATER OPERABLE UNIT NO. 10 - SITE 35 MONITORING AND O&M SUPPORT, CTO-0120 MCB, CAMP LEJEUNE, NORTH CAROLINA

SAMPLE ID	IR35-GW10-99A	IR35-GW10IW-99A	IR35-GW14-99A	IR35-GW14IW-99A	IR35-GW31-99A	IR35-GW31IW-99A
DATE SAMPLED	1/20/99	1/20/99	1/20/99	1/20/99	1/20/99	1/20/99
VOLATILES (ug/L)						
1,1,1-Trichloroethane	5 U	5 U	25 U	5 U	5 U	7 J
1,1,2,2-Tetrachloroethane	5 U	5 U	25 U	5 U	5 U	10 U
1,1-Dichloroethene	5 U	4 J	25 U	5 U	5 U	10 U
cis-1,2-Dichloroethene	5 U	350	290	140	5 U	180
trans-1,2-Dichloroethene	5 U	33	30	15	5 U	27
Trichloroethene	5 U	190	310	83	5 U	100
Vinyl chloride	5 U	11	25 U	5 U	5 U	10 U

J = Estimated Result U = Not detected ug/L = micrograms per liter

#### TABLE 7 (Continued)

## POSITIVE DETECTIONS IN GROUNDWATER OPERABLE UNIT NO. 10 - SITE 35 MONITORING AND O&M SUPPORT, CTO-0120 MCB, CAMP LEJEUNE, NORTH CAROLINA

SAMPLE ID	IR35-GW40IW-99A	IR35-GW43IW-99A	IR35-GW55IW-99A	IR35-GW61-99A	IR35-GW62-99A
DATE SAMPLED	1/20/99	1/20/99	1/20/99	1/20/99	1/20/99
VOLATILES (ug/L)					
1,1,1-Trichloroethane	5 U	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	5 U	5 U	10	5 U	5 U
1,1-Dichloroethene	5 U	5 U	6	5 U	5 U
cis-1,2-Dichloroethene	190	5 U	750	32	5 J
trans-1,2-Dichloroethene	8	5 U	180	5 U	5 U
Trichloroethene	8	5 U	820	4 J	5 U
Vinyl chloride	6	5 U	36	5 U	5 U

J = Estimated Result U = Not detected ug/L = micrograms per liter

## TABLE 7 (Continued)

## POSITIVE DETECTIONS IN GROUNDWATER OPERABLE UNIT NO. 10 - SITE 35 MONITORING AND O&M SUPPORT, CTO-0120 MCB, CAMP LEJEUNE, NORTH CAROLINA

SAMPLE ID	IR35-GW63IW-99A	IR35-GW64IW-99A	IR35-GW65IW-99A
DATE SAMPLED	1/20/99	1/20/99	1/20/99
VOLATILES (ug/L)			
1,1,1-Trichloroethane	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	e 5 U	5 U	5 U
1,1-Dichloroethene	5 U	5 U	5 U
cis-1,2-Dichloroethene	5 U	200	5 U
trans-1,2-Dichloroethene	5 U	22	5 U
Trichloroethene	5 U	110	5 U
Vinyl chloride	5 U	11	5 U

J = Estimated Result U = Not detected ug/L = micrograms per liter

## VOLATILE ORGANICS IN GROUNDWATER JANUARY 1999 - MARCH 1999 OPERABLE UNIT NO. 10 - SITE 35 MONITORING AND O&M SUPPORT, CTO-0120 MCB, CAMP LEJEUNE, NORTH CAROLINA

Monitoring Well/		NGWOO	January
Volatile Organic Compound	MCL	NCWQS	1999
35-GW10IW			
1,1-Dichloroethene	7.0	7.0	4 J
cis-1,2-Dichloroethene	70	70	350
trans-1,2-Dichloroethene	NE	100	33
Trichlorothene	5.0	2.8	190
Vinyl chloride	2.0	0.015	11
35-GW14			
cis-1,2-Dichloroethene	70	70	290
trans-1,2-Dichloroethene	NE	100	30
Trichlorothene	5.0	2.8	310
35-GW14IW			
cis-1,2-Dichloroethene	70	70	140
trans-1,2-Dichloroethene	NE	100	15
Trichlorothene	5.0	2.8	83
35-GW31IW			
1,1,1-Trichloroethane	200	200	7 J
cis-1,2-Dichloroethene	70	70	180
trans-1,2-Dichloroethene	NE	100	27
Trichlorothene	5.0	2.8	100
35-GW40IW			
cis-1,2-Dichloroethene	70	70	190
trans-1,2-Dichloroethene	NE	100	8
Trichlorothene	5.0	2.8	8
Vinyl chloride	2.0	0.015	6
35-GW55IW			
1,1,2,2-Tetrachloroethane	NE	NE	10
1,1-Dichloroethene	7.0	7.0	6
cis-1,2-Dichloroethene	70	70	750
trans-1,2-Dichloroethene	NE	100	180
Trichlorothene	5.0	2.8	820
Vinyl chloride	2.0	0.015	36
35-GW61			
cis-1,2-Dichloroethene	70	70	32
Trichlorothene	5.0	2.8	4 J
35-GW62			
cis-1,2-Dichloroethene	.70	70	5 J

#### **TABLE 8 (Continued)**

## VOLATILE ORGANICS IN GROUNDWATER JANUARY 1999 - MARCH 1999 OPERABLE UNIT NO. 10 - SITE 35 MONITORING AND O&M SUPPORT, CTO-0120 MCB, CAMP LEJEUNE, NORTH CAROLINA

Monitoring Well/ Volatile Organic Compound	MCL	NCWQS	January 1999
35-GW64IW			
cis-1,2-Dichloroethene	70	70	200
trans-1,2-Dichloroethene	NE	100	22
Trichlorothene	5.0	2.8	110
Vinyl chloride	2.0	0.015	11

Notes:

Concentrations expressed in micrograms per liter (ug/L) or parts per billion.

MCL = Federal Maximum Contaminant Level. Maximum permissible level of a contaminant in water which is delivered to any user of a public water system. (U.S. Environmental Protection Agency - Drinking Water Regulations and Health Advisories.)

NCWQS = North Carolina Water Quality Standards. Values Applicable to Groundwater (North Carolina Administrative Code, Title 15A, Subchapter 2L).

NE = Not Established

## NATURAL ATTENUATION FIELD TEST RESULTS OPERABLE UNIT NO. 10 - SITE 35 MONITORING AND O&M SUPPORT, CTO-0120 MCB, CAMP LEJEUNE, NORTH CAROLINA

	Ferrous Iron	CaCO <sub>3</sub>	Chloride
	(mg/L)	(mg/L)	(mg/L)
Sample ID	January	January	January
	1999	1999	1999
35-MW10S	0.23	216	5.4
35-MW10D	0.92	313	6.3
35-MW14S	3.03	310	12.7
35-MW14D	0.65	287	6.3
35-MW31A	0.12	45.6	9.9
35-MW31B	0.56	283	5.5
35-MW40B	0.27	221	13.5
35-MW43B	2.17	194	9.0
35-MW55B	0.00	261	5.9
35-MW61A	1.00	235	9.8
35-MW62A	1.28	267	6.8
35-MW63B	0.04	184	8.3
35-MW64B	0.16	205	9.5
35-MW65B	0.01	191	16.4

## POSITIVE DETECTIONS IN GROUNDWATER OPERABLE UNIT NO. 10 - SITE 35 MONITORING AND O&M SUPPORT, CTO-0120 MCB, CAMP LEJEUNE, NORTH CAROLINA

SAMPLE ID	IR35-GW10-99A	IR35-GW10IW-99A	IR35-GW14-99A	IR35-GW14IW-99A	IR35-GW31-99A
DATE SAMPLED	1/20/99	1/20/99	1/20/99	1/20/99	1/20/99
NATURAL ATTENUATION					
PARAMETERS					
Methane (ug/ml)	0.07099	2.4	0.48	0.65	0.095
Nitrogen, nitrate (mg/L)	0.1 U	0.1 U	0.1 U	0.1 U	1.8
Sulfate (mg/L)	23	4.9	17	10	36

U = Not detected mg/L = milligrams per liter ug/ml = micrograms per milliliter

## TABLE 10 (Continued)

## POSITIVE DETECTIONS IN GROUNDWATER OPERABLE UNIT NO. 10 - SITE 35 MONITORING AND O&M SUPPORT, CTO-0120 MCB, CAMP LEJEUNE, NORTH CAROLINA

SAMPLE ID	IR35-GW311W-99A	IR35-GW40IW-99A	IR35-GW43IW-99A	IR35-GW55IW-99A	IR35-GW61-99A
DATE SAMPLED	1/20/99	1/20/99	1/20/99	1/20/99	1/20/99
NATURAL ATTENUATION					
PARAMETERS					
Methane (ug/ml)	0.2	0.016	0.07	0.066	0.093
Nitrogen, nitrate (mg/L)	0.28	0.1 U	0.1 U	0.42	0.1 U
Sulfate (mg/L)	14	16	35	26	10

U = Not detected mg/L = milligrams per liter ug/ml = micrograms per milliliter

## TABLE 10 (Continued)

## POSITIVE DETECTIONS IN GROUNDWATER OPERABLE UNIT NO. 10 - SITE 35 MONITORING AND O&M SUPPORT, CTO-0120 MCB, CAMP LEJEUNE, NORTH CAROLINA

SAMPLE ID	IR35-GW62-99A	IR35-GW63IW-99A	IR35-GW64IW-99A	IR35-GW65IW-99A
DATE SAMPLED	1/20/99	1/20/99	1/20/99	1/20/99
NATURAL ATTENUATION				
PARAMETERS				
Methane (ug/ml)	0.36	0.01	0.02	0.01 U
Nitrogen, nitrate (mg/L)	0.1 U	0.1 U	0.1 U	0.1 U
Sulfate (mg/L)	14	2.3	7.7 U	2.6

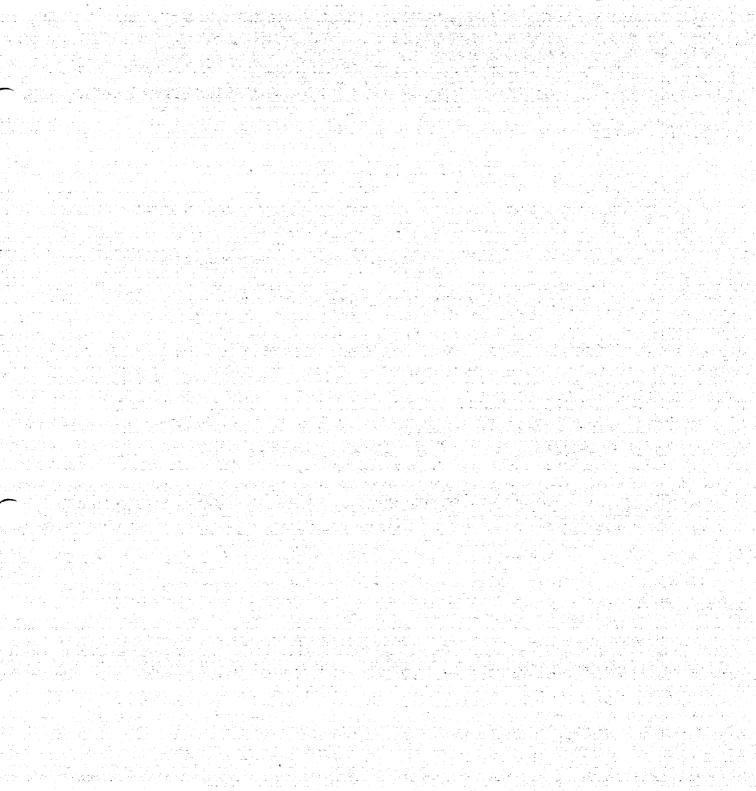
U = Not detected mg/L = milligrams per liter ug/ml = micrograms per milliliter

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## NATURAL ATTENUATION ANALYTICAL RESULTS FOR GROUNDWATER OPERABLE UNIT NO. 10 - SITE 35 MONITORING AND O&M SUPPORT, CTO-0120 MCB, CAMP LEJEUNE, NORTH CAROLINA

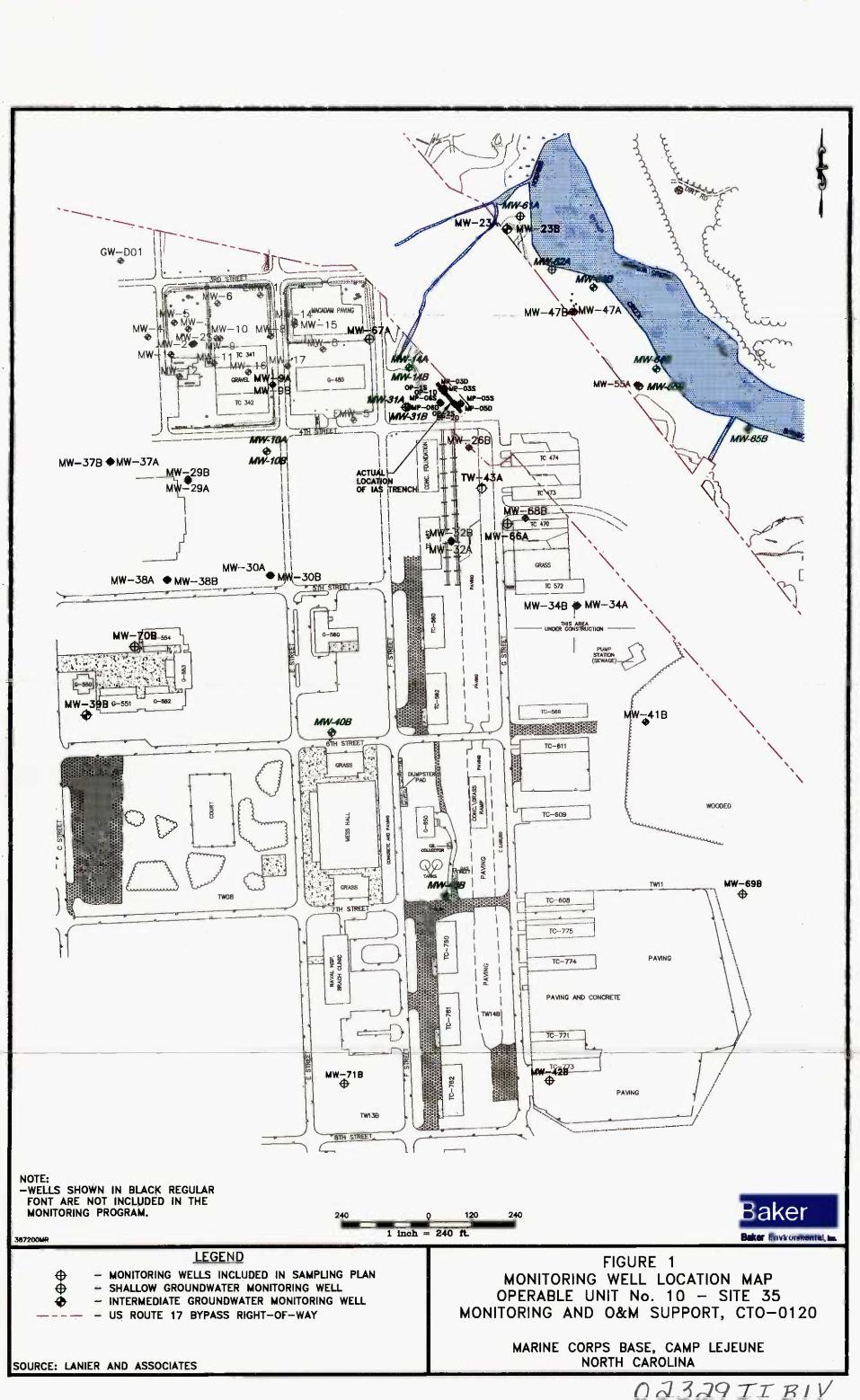
Monitoring Well/Analytical Results	January 1999
Natural Attenuation Parameters (mg/L)	
IR35-GW10	
Sulfate	23
Methane	0.00007
IR35-GW10IW	
Sulfate	4.9
Methane	0.0024
IR35-GW14	
Sulfate	17
Methane	0.00048
IR35-GW14IW	
Sulfate	10
Methane	0.00065
IR35-GW31	
Nitrogen, Nitrate	1.8
Sulfate	36
Methane	0.000095
IR35-GW31IW	
Nitrogen, Nitrate	0.28
Sulfate	14
Methane	0.0002
IR35-GW40IW	
Sulfate	16
Methane	0.000016
IR35-GW43IW	
Sulfate	35
Methane	0.00007
IR35-GW55IW	
Nitrogen, Nitrate	0.42
Sulfate	26
Methane	0.000066
IR35-GW61	
Sulfate	10
Methane	0.000093
IR35-GW62	
Sulfate	14
Methane	0.00036
IR35-GW63IW	
Sulfate	2.3
Methane	0.00001
IR35-GW64IW	
Methane	0.00002
IR35-GW65IW	
Sulfate	2.6
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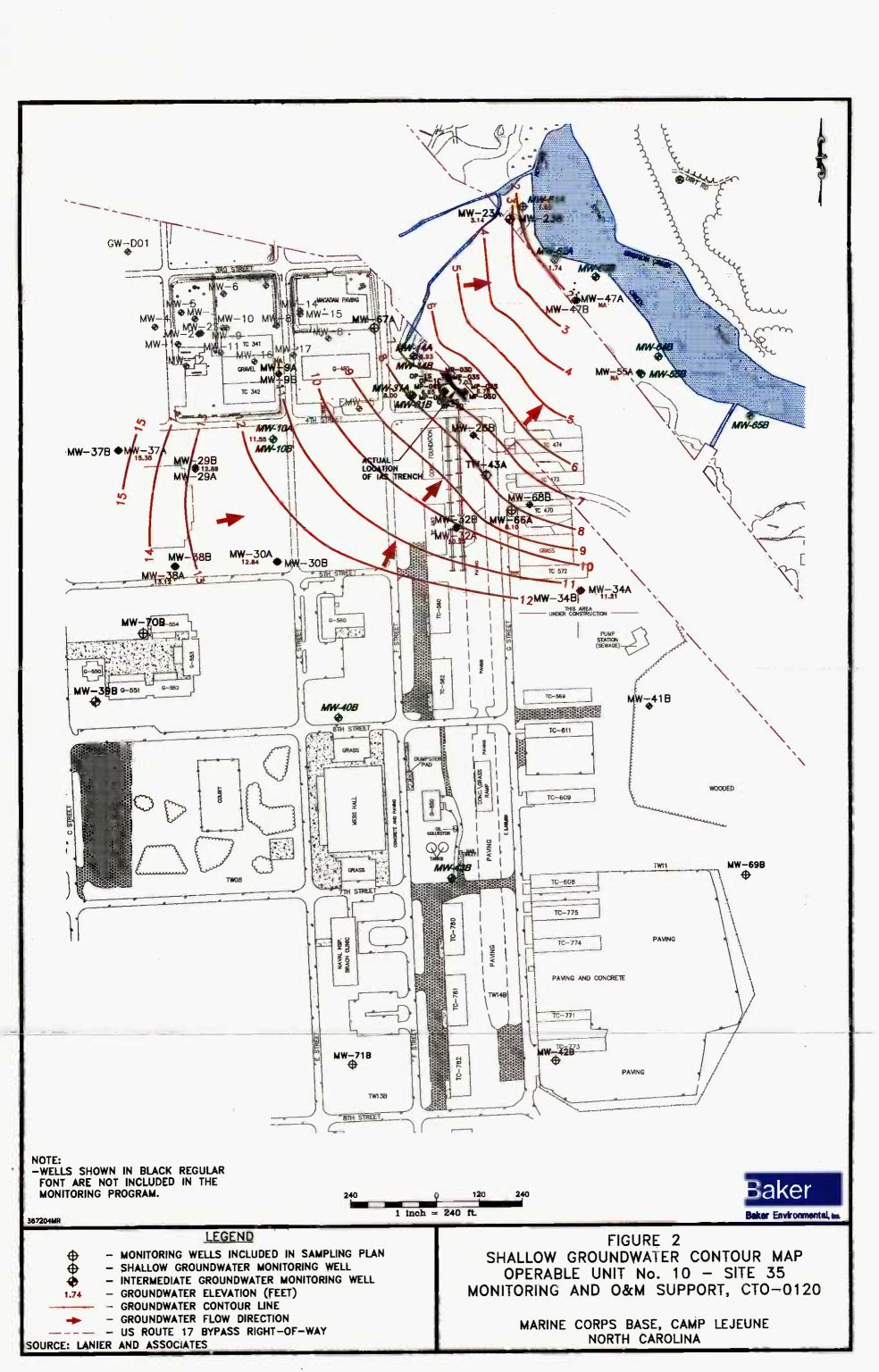


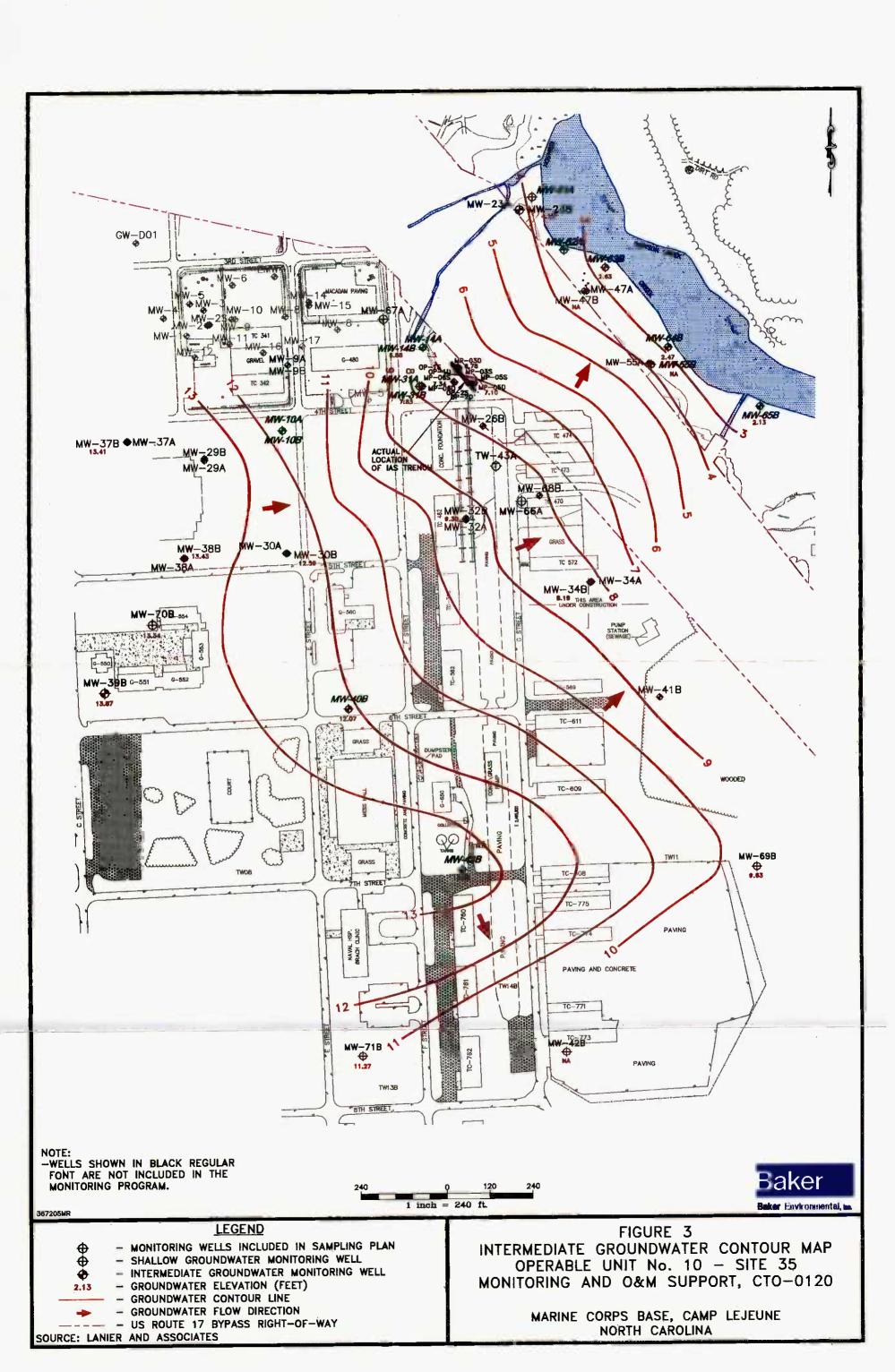
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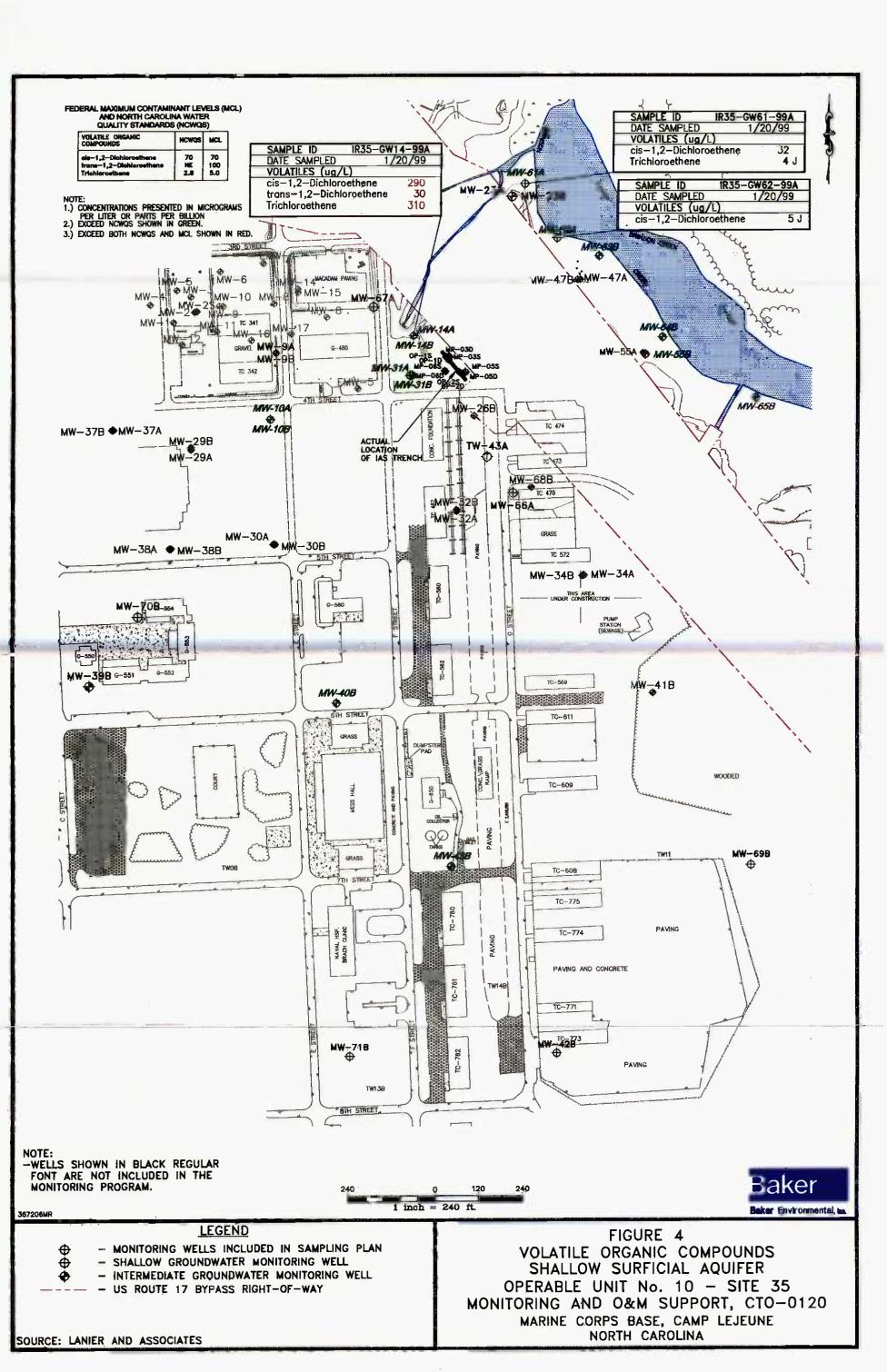
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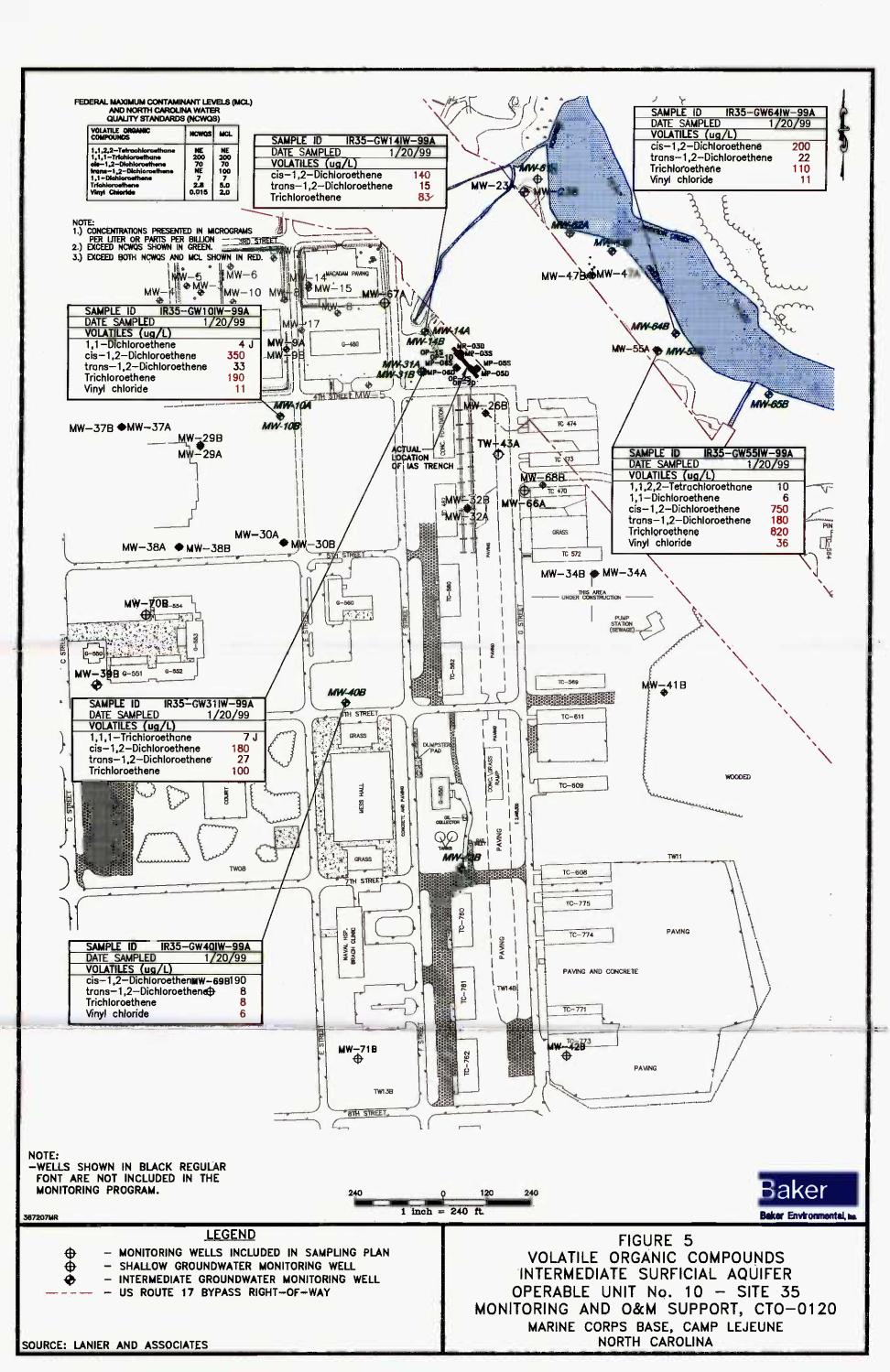
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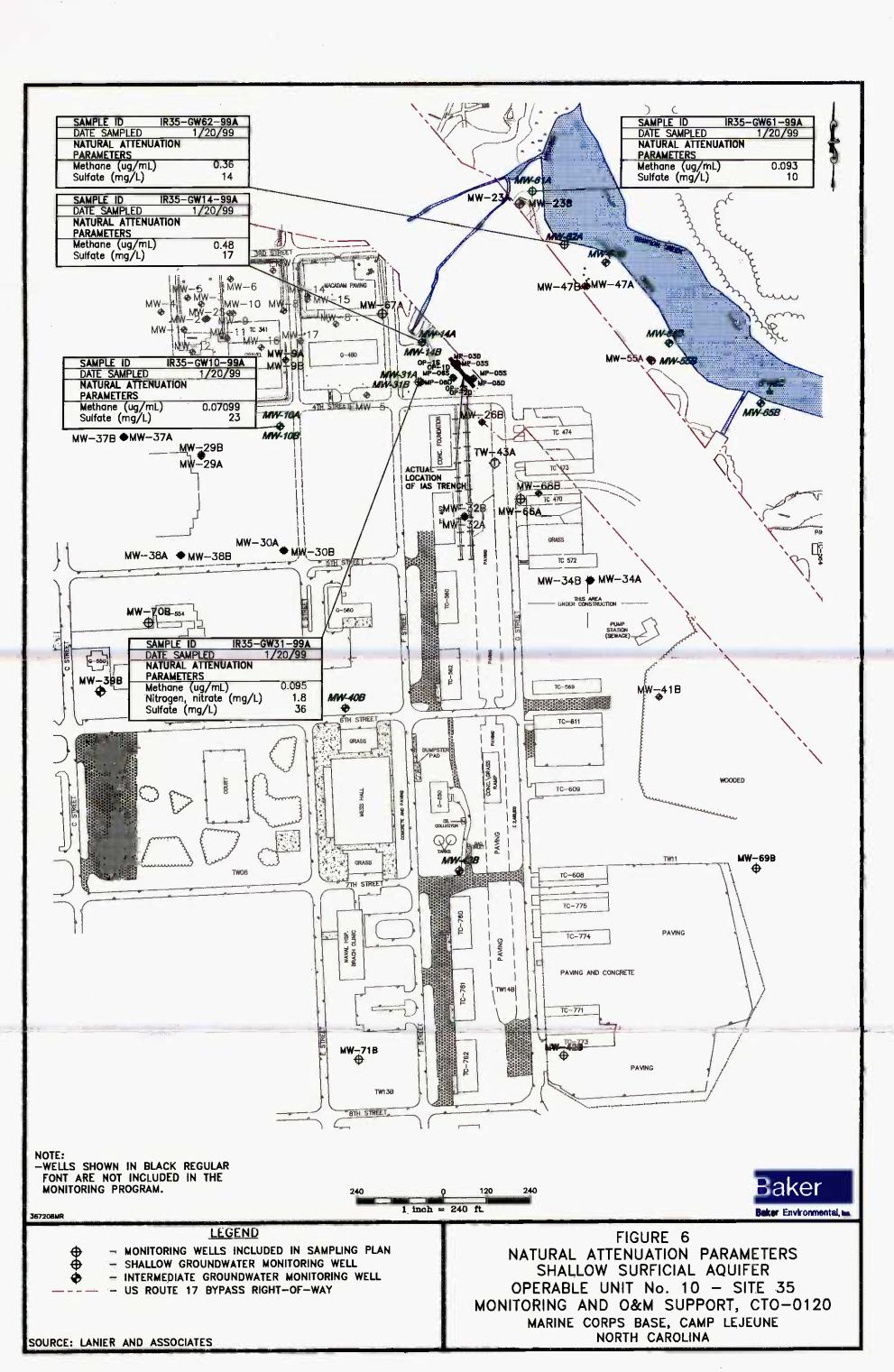


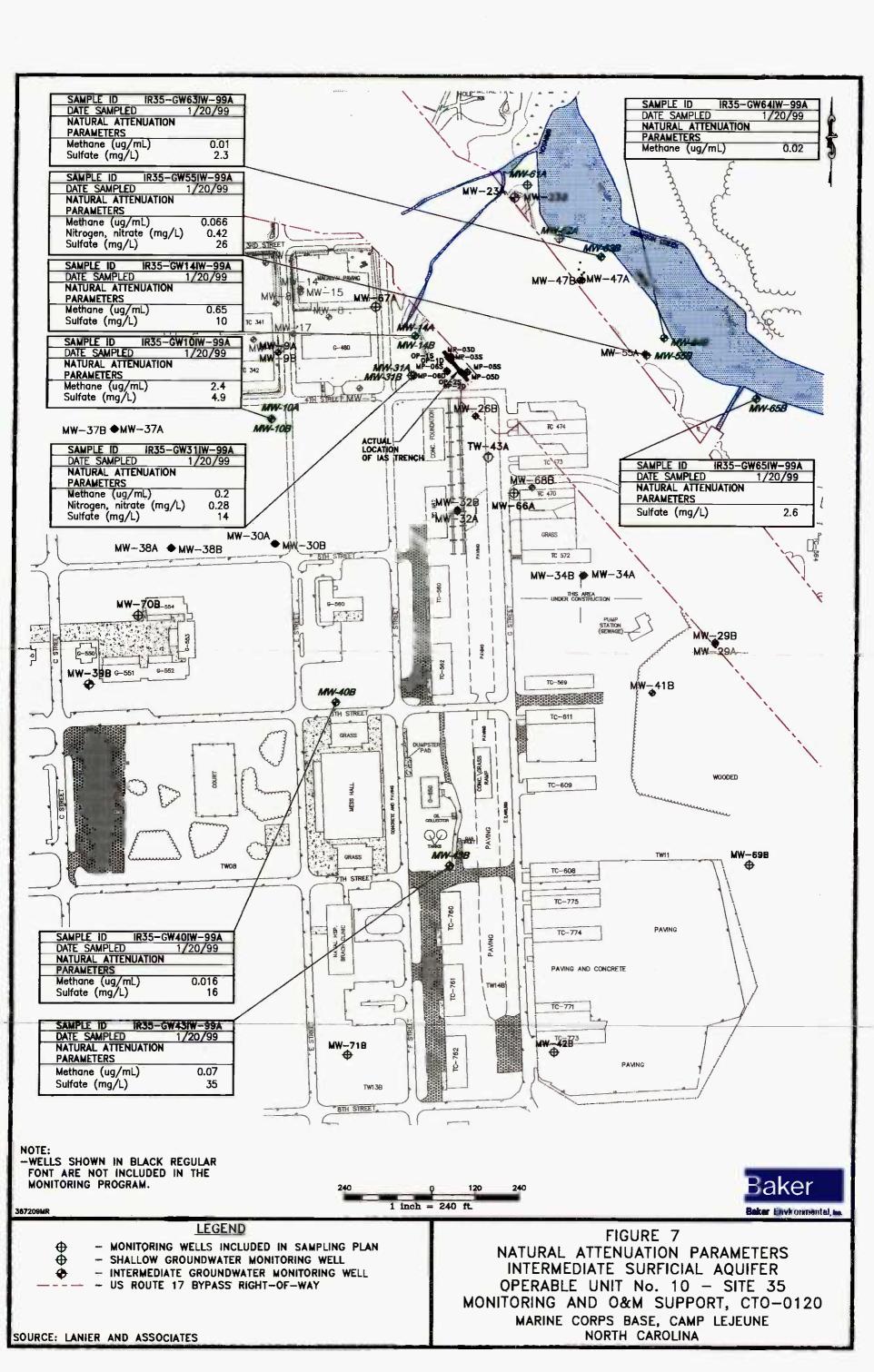






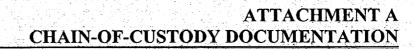






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# **ATTACHMENTS**



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### GROUNDWATER ANALYTICAL RESULTS OPERABLE UNIT NO. 10 - SITE 35 MONITORING AND O&M SUPPORT, CTO-0367 MCB, CAMP LEJEUNE, NORTH CAROLINA VOLATILE ORGANICS

SAMPLE ID	IR35-GW10-99A	IR35-GW10IW-99A	IR35-GW14-99A	IR35-GW14IW-99A	IR35-GW31-99A
DATE SAMPLED	1/20/99	1/20/99	1/20/99	1/20/99	1/20/99
VOLATILES (ug/L)					
1,1,1-Trichloroethane	5 U	5 U		-	
1,1,2,2-Tetrachloroethan	5 U	5 U		· -	-
1,1,2-Trichloroethane	5 U	5 U		-	-
1,1-Dichloroethane	5 U	5 U	25 U	-	5 U
1,1-Dichloroethene	5 U	4 J	25 U		-
1,2-Dichloroethane	5 U	5 U	25 U		5 U
1,2-Dichloropropane	5 U	5 U	25 U	5 U	5 U
2-Butanone	10 U	10 U	50 U	10 U	10 U
2-Hexanone	10 U	10 U	50 U	10 U	10 U
4-Methyl-2-pentanone	10 U	10 U	50 U	10 U	10 U
Acetone	10 U	10 U	50 U	10 U	10 U
Benzene	5 U	5 U	25 U	5 U	5 U
Bromodichloromethane	5 U	5 U	25 U	5 U	5 U
. Bromoform	5 U	5 U	25 U	5 U	5 U
nomethane	5 U	5 U	25 U	5 U	5 U
Carbon disulfide	5 U	5 U	25 U	5 U	5 U
Carbon tetrachloride	5 U	5 U	25 U	5 U	5 U
Chlorobenzene	5 U	5 U	25 U	5 U	5 U
Chloroethane	5 U	5 U	25 U	5 U	5 U
Chloroform	5 U	5 U	25 U	5 U	5 U
Chloromethane	5 U	5 U	25 U	5 U	5 U
cis-1,2-Dichloroethene	5 U	350	290	140	5 U
cis-1,3-Dichloropropene	5 U	5 U	25 U	5 U	5 U
Dibromochloromethane	5 U	5 U	25 U	5 U	5 U
Ethylbenzene	5 U	5 U	25 U	5 U	
Methylene chloride	5 U	5 U	<b>25</b> U	5 U	
Styrene	5 U	5 U	25 U		
Tetrachloroethene	5 U	5 U	25 U		-
Toluene	5 U	5 U	25 U		
trans-1,2-Dichloroethene	5 U	33	30	15	5 U
trans-1,3-Dichloropropen		5 U	<b>25</b> U		
Trichloroethene	5 U		310	83	5 U
Vinyl chloride	5 U		25 U		
Xylenes	5 U				
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### GROUNDWATER ANALYTICAL RESULTS OPERABLE UNIT NO. 10 - SITE 35 MONITORING AND O&M SUPPORT, CTO-0367 MCB, CAMP LEJEUNE, NORTH CAROLINA VOLATILE ORGANICS

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SAMPLE ID	IR35-GW31IW-99A	IR35-GW40IW-99A	IR35-GW43IW-99A	IR35-GW55IW-99A
DATE SAMPLED	1/20/99	1/20/99	1/20/99	1/20/99
VOLATILES (ug/L)	7 1	<b>5</b> 11		
1,1,1-Trichloroethane	7 J	5 U		-
1,1,2,2-Tetrachloroethan				
1,1,2-Trichloroethane	10 U			
1,1-Dichloroethane	10 U			
1,1-Dichloroethene	10 U			
1,2-Dichloroethane	10 U			-
1,2-Dichloropropane	10 U			_
2-Butanone	20 U			
2-Hexanone	20 U			-
4-Methyl-2-pentanone	20 U			_
Acetone	20 U			
Benzene	10 U			-
Bromodichloromethane	10 U	5 U	5 U	5 U
Bromoform	10 U	5 U	5 U	5 U
Bromomethane	10 U	5 U	5 U	5 U
Carbon disulfide	10 U	5 U	5 U	, 5 U
Carbon tetrachloride	10 U	5 U	5 U	5 U
Chlorobenzene	10 U	5 U	5 U	5 U
Chloroethane	10 U	5 U	5 U	5 U
Chloroform	10 U	5 U	5 U	5 U
Chloromethane	10 U	5 U	5 U	5 U
cis-1,2-Dichloroethene	180	190	5 U	750
cis-1,3-Dichloropropene	10 U	5 U	5 U	5 U
Dibromochloromethane	10 U	5 U	5 U	5 U
Ethylbenzene	10 U	5 U	5 U	5 U
Methylene chloride	10 U	J 5 U	5 U	5 U
Styrene	10 U	1 5 U	5 U	
Tetrachloroethene	10 U			
Toluene	10 U			
trans-1,2-Dichloroethene		8	5 U	
trans-1,3-Dichloroproper				
Trichloroethene	100	8	5 U	
Vinyl chloride	10 U		5 U	
Xylenes	10 U			
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### GROUNDWATER ANALYTICAL RESULTS OPERABLE UNIT NO. 10 - SITE 35 MONITORING AND O&M SUPPORT, CTO-0367 MCB, CAMP LEJEUNE, NORTH CAROLINA VOLATILE ORGANICS

SAMPLE ID	IR35-GW61-99A	IR35-GW62-99A	IR35-GW63IW-99A	IR35-GW64IW-99A	IR35-GW65IW-99A
DATE SAMPLED	1/20/99	1/20/99	1/20/99	1/20/99	1/20/99
VOLATILES (ug/L)					
1,1,1-Trichloroethane	5 U		5 U		-
1,1,2,2-Tetrachloroethan			5 U		-
1,1,2-Trichloroethane	5 U		5 U		_
1,1-Dichloroethane	5 U		5 U		5 U
1,1-Dichloroethene	5 U		5 U		
1,2-Dichloroethane	5 U		5 U	5 U	5 U
1,2-Dichloropropane	5 U	5 U	5 U	5 U	5 U
2-Butanone	10 U	10 U	10 U	10 U	10 U
2-Hexanone	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone	10 U	10 U	10 U	10 U	10 U
Acetone	10 U	10 U	10 U	10 U	10 U
Benzene	5 U	5 U	5 U	5 U	5 U
Bromodichloromethane	5 U	5 U	5 U	5 U	5 U
Bromoform	5 U	5 U	5 U	5 U	5 U
<b>F</b> methane	5 U	5 U	5 U	5 U	5 U
Caroon disulfide	5 U	5 U	5 U	5 U	5 U
Carbon tetrachloride	5 U	5 U	5 U	5 U	5 U
Chlorobenzene	5 U	5 U	5 U	5 U	5 U
Chloroethane	5 U	5 U	5 U	5 U	5 U
Chloroform	5 U	5 U	5 U	5 U	5 U
Chloromethane	5 U	5 U	5 U	5 U	5 U
cis-1,2-Dichloroethene	32	5 J	5 U	200	5 U
cis-1,3-Dichloropropene	5 U	5 U	5 U	5 U	5 U
Dibromochloromethane	5 U	5 U	5 U	5 U	5 U
Ethylbenzene	5 U	J 5 U	5 U	5 U	5 U
Methylene chloride	5 U	5 U	5 U	5 U	5 U
Styrene	5 U	J 5 U	5 U	5 U	5 U
Tetrachloroethene	5 U	រ 5 U	5 U	5 U	5 U
Toluene	5 U	J 5 U	5 U	5 U	5 U
trans-1,2-Dichloroethene	e 5 U	J 5 U	5 U	22	5 U
trans-1,3-Dichloroprope	n 5 U	J 5 U	5 U	5 U	5 U
Trichloroethene	4 J	5 U	5 U	110	5 U
Vinyl chloride	5 U	J 5 U	5 U	11	5 U
Xylenes	5 L	5 U	5 U	5 U	5 U

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### GROUNDWATER ANALYTICAL RESULTS OPERABLE UNIT NO. 10 - SITE 35 MONITORING AND O&M SUPPORT, CTO-0367 MCB, CAMP LEJEUNE, NORTH CAROLINA NATURAL ATTENUATION PARAMETERS

SAMPLE ID	IR35-GW10-99A	IR35-GW10IW-99A	IR35-GW14-99A	IR35-GW14IW-99A	IR35-GW31-99A
DATE SAMPLED	1/20/99	1/20/99	1/20/99	1/20/99	1/20/99
NATURAL ATTENUATIO	N				
PARAMETERS					
Ethane (ug/ml)	0.01 U	0.01 U	J 0.01 U	J 0.01 U	0.01 U
Ethene (ug/ml)	0.01 U	0.01 U	J 0.01 L	J 0.01 U	0.01 U
Methane (ug/ml)	0.07099	2.4	0.48	0.65	0.095
Nitrogen, nitrate (ug/l)	0.1 U	0.1 U	J 0.1 U	J 0.1 U	1.8
Sulfate (ug/l)	23	4.9	17	10	36
Nitrogen, nitrite (ug/l)	NA	NA	NA	NA	NA
Nitrogen, ammonia (mg/l)	NA	NA	NA	NA	NA
NO3(CALC) (mg/l)	NA	NA	NA	NA	NA
Nitrogen, total Kjeldahl (mg/l	) NA	NA	NA	NA	NA
Carbon, total organic (mg/l)	NA	NA	NA	NA	NA

### GROUNDWATER ANALYTICAL RESULTS OPERABLE UNIT NO. 10 - SITE 35 MONITORING AND O&M SUPPORT, CTO-0367 MCB, CAMP LEJEUNE, NORTH CAROLINA NATURAL ATTENUATION PARAMETERS

SAMPLE ID DATE SAMPLED	IR35-GW31IW-99A 1/20/99	IR35-GW40IW-99A 1/20/99	IR35-GW43IW-99A 1/20/99	IR35-GW55IW-99A 1/20/99	IR35-GW61-99A 1/20/99
NATURAL ATTENUATION	N				
PARAMETERS					
Ethane (ug/ml)	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Ethene (ug/ml)	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Methane (ug/ml)	0.2	0.016	0.07	0.066	0.093
Nitrogen, nitrate (ug/l)	0.28	0.1 U	0.1 U	0.42	0.1 U
Sulfate (ug/l)	14	16	35	26	10
Nitrogen, nitrite (ug/l)	NA	NA	NA	NA	NA
Nitrogen, ammonia (mg/l)	NA	NA	NA	NA	NA
NO3(CALC) (mg/l)	NA	NA	NA	NA	NA
Nitrogen, total Kjeldahl (mg/l	) NA	NA	NA	NA	NA
Carbon, total organic (mg/l)	NA	NA	NA	NA	NA

### GROUNDWATER ANALYTICAL RESULTS OPERABLE UNIT NO. 10 - SITE 35 MONITORING AND O&M SUPPORT, CTO-0367 MCB, CAMP LEJEUNE, NORTH CAROLINA NATURAL ATTENUATION PARAMETERS

SAMPLE ID	IR35-GW62-99A	IR35-GW63IW-99A	IR35-GW64IW-99A	IR35-GW65IW-99A
DATE SAMPLED	1/20/99	1/20/99	1/20/99	1/20/99
NATURAL ATTENUATION	J			
PARAMETERS	•			
Ethane (ug/ml)	0.01 U	0.01 U	0.01 U	0.01 U
Ethene (ug/ml)	0.01 U	0.01 U	0.01 U	0.01 U
Methane (ug/ml)	0.36	0.01	0.02	0.01 U
Nitrogen, nitrate (ug/l)	0.1 U	0.1 U	0.1 U	0.1 U
Sulfate (ug/l)	14	2.3	7.7 U	2.6
Nitrogen, nitrite (ug/l)	NA	NA	NA	0.1 U
Nitrogen, ammonia (mg/l)	NA	NA	NA	0.1 U
NO3(CALC) (mg/l)	NA	NA	NA	0.01 U
Nitrogen, total Kjeldahl (mg/l)	) NA	NA	NA	0.25 U
Carbon, total organic (mg/l)	NA	NA	NA	1 U

### SURFACE WATER ANALYTICAL RESULTS OPERABLE UNIT NO. 10 - SITE 35 MONITORING AND O&M SUPPORT, CTO-0367 MCB, CAMP LEJEUNE, NORTH CAROLINA VOLATILE ORGANICS

SAMPLE ID	IR35-SW01-99A	IR35-SW02-99A	IR35-SW03-99A
DATE SAMPLED	1/20/99	1/20/99	1/20/99
VOLATILES (ug/L)			
1,1,1-Trichloroethane	5 U	5 U	5 U
1,1,2,2-Tetrachloroetha	5 U	5 U	5 U
1,1,2-Trichloroethane	5 U	5 U	5 U
1,1-Dichloroethane	5 U	5 U	5 U
1,1-Dichloroethene	5 U	5 U	. 5 U
1,2-Dichloroethane	5 U	5 U	5 U
1,2-Dichloropropane	5 U	5 U	5 U
2-Butanone	10 U	10 U	10 U
2-Hexanone	10 U	10 U	10 U
4-Methyl-2-pentanone	10 U	10 U	10 U
Acetone	10 U	10 U	10 U
Benzene	5 U	5 U	5 U
Bromodichloromethane	5 U	5 U	5 U
Bromoform	5 U	5 U	5 U
Bromomethane	5 U	5 U	5 U
Carbon disulfide	5 U	5 U	5 U
Carbon tetrachloride	5 U	5 U	5 U
Chlorobenzene	5 U	5 U	5 U
Chloroethane	5 U	5 U	5 U
Chloroform	5 U	5 U	5 U
Chloromethane	5 U	5 U	5 U
cis-1,2-Dichloroethene	5 U	5 U	5 U
cis-1,3-Dichloropropen	5 U	5 U	5 U
Dibromochloromethane	5 U	5 U	5 U
Ethylbenzene	5 U	5 U	5 U
Methylene chloride	5 U	5 U	5 U
Styrene	5 U	5 U	5 U
Tetrachloroethene	5 U	5 U	5 U
Toluene	5 U	5 U	5 U
trans-1,2-Dichloroethe	5 U	5 U	5 U
trans-1,3-Dichloroprop	5 U	5 U	5 U
Trichloroethene	5 U	5 U	5 U
Vinyl chloride	5 U	5 U	5 U
Xylenes	5 U	5 U	5 U

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ATTACHMENT C ANALYTICAL LABORATORY DATA SHEETS

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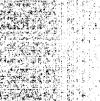
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VOLATILE ORGANICS ANALYSIS DATA SHEET       Lab Name:     EA LABORATORIES     Contract:     99048       Lab Code:     EA ENG     Case No.:     SAS No.:     SDG No.:       Matrix: (soil/water)     WATER     Lab Sample ID:     9900390       Sample wt/vol:     5.0     (g/ml) ML     Lab Sample ID:     990390       Sample wt/vol:     5.0     (g/ml) ML     Lab File ID:     VC3A1217.D       Level:     (low/med)     LOW     Date Analyzed:     2/3/99       GC Column:     DB-624     ID:     0.25     (mn)     Dilution Factor:     2.0       Soil Extract Volume:     (uL)     Soil Aliquot Volume:     (uL)     Q       74-87-3     Chloromethane     10     U     76-01-4     Viny Chloride     10     U       75-0-3     Chloromethane     10     U     75-36-4     1,1-Dichloroethene     20     U       75-84     1,1-Dichloroethene     20     U     75-36-4     10     U       75-35-4     1,1-Dichloroethene     27     D     66-3					1A				EPA SA	MPLE	NO.
Lab Code:     EA ENG     Case No:     SAS No:     SDG No.:       Matrix:     (soil/water)     WATER     Lab Sample ID:     9900390       Sample w/vol:     5.0     (g/ml)     ML     Lab Sample ID:     9900390       Sample w/vol:     5.0     (g/ml)     ML     Lab File ID:     VC3A1217.D       Level:     (low/med)     LOW     Date Received:     1/21/99       % Moisture:     not dec.     Date Analyzet:     2/3/99       GC Column:     DB-624     ID:     0.25     (mm)     Dilution Factor:     2.0       Soil Extract Volume:     (ul.)     Soil Aliquot Volume:     (ul.)     CONCENTRATION UNITS:       CAS NO.     COMPOUND     (ug/L or ug/Kg)     UG/L     Q       74-87-3     Chloronethane     10     U       75-00-3     Chloronethane     10     U       75-35-4     1,1-Dichloroethane     10     U       75-35-4     1,1-Dichloroethane     10     U       75-36-5     trans-12-Dichloroethane     10     U		Lab Manaa	-						IR35	-GW31	IW-99A
Matrix: (soil/water)     WATER     Lab Sample ID:     9900390       Sample wt/vol:     5.0     (g/ml)     ML     Lab File ID:     VC3A1217.D       Level: (low/med)     LOW     Date Received:     1/21/99       % Moisture: not dec.     Date Analyzed:     2/3/99       GC Column:     DB-624     ID:     0.25     (mm)     Dilution Factor:     2.0       Soil Extract Volume:     (uL)     Soil Aliquot Volume:     (uL)     CONCENTRATION UNITS:       CAS NO.     COMPOUND     (ug/L or ug/Kg)     UG/L     Q       74-87-3     Chloromethane     10     U       75-01-4     Vinyl Chloride     10     U       75-01-4     Vinyl Chloride     10     U       75-03     Chloromethane     10     U       75-04     1,1-Dichloroethane     10     U       75-34     1,1-Dichloroethane     10     U       75-45-3     1,1-Dichloroethane     10     U       75-46-3     Chlororofm     10     U       71-55-6     11,1.1									_ L	. <u> </u>	
Sample wt/vol:   5.0   (g/ml) ML   Lab File ID:   VC3A1217.D     Level: (low/med)   LOW   Date Received:   1/21/99     % Moisture: not dec.   Date Analyzed:   2/3/99     GC Column:   DB-624   ID:   0.25     Soil Extract Volume:	•	Lab Code:	EA ENG	Case No.:		_ SAS No	D.:	s	DG No.:		
Level:     (low/med)     LOW     Date Received:     1/21/99       % Moisture:     not dec.     Date Analyzed:     2/3/99       GC Column:     DB:624     ID:     0.25     (mm)     Dilution Factor:     2.0       Soil Extract Volume:		Matrix: (soil/	water)	WATER		La	b Sample	e ID:	9900390		
% Moisture: not dec.   Date Analyzed: $2/3/99$ GC Column:   DB:624   ID: 0.25   (mn)   Dilution Factor: 2.0     Soil Extract Volume:   (uL)   Soil Aliquot Volume:   (uL)     Soil Extract Volume:   (uL)   Soil Aliquot Volume:   (uL)     CONCENTRATION UNITS:   CAS NO.   COMPOUND   (ug/L or ug/Kg)   UG/L   Q     74-87-3   Chloromethane   10   U   Total Alignet Volume:   Q     74-87-3   Chloromethane   10   U   Total Alignet Volume:   Q     74-87-3   Chloromethane   10   U   Total Alignet Volume:   Q     75-01-4   Viny Chloride   10   U   Total Alignet Volume:   Q     75-02-3   Chloroethane   10   U   Total Alignet Volume:   Q     75-35-4   1,1-Dichloroethane   10   U   Total Alignet Volume:   Q     76-60-5   trans-1,2-Dichloroethane   20   U   Total Alignet Volume:   Q     76-66-3   Chloroform   10   U   Total Alignet Volume:   Q   U     71-43-2   Benzene </td <td></td> <td>Sample wt/ve</td> <td>ol:</td> <td>5.0 (g/ml)</td> <td>ML</td> <td>La</td> <td>b File ID</td> <td>:</td> <td>VC3A121</td> <td>7.D</td> <td></td>		Sample wt/ve	ol:	5.0 (g/ml)	ML	La	b File ID	:	VC3A121	7.D	
% Moisture: not dec.   Date Analyzed: $2/3/99$ GC Column:   DB-624   ID: $0.25$ (mm)   Dilution Factor: $2.0$ Soil Extract Volume:   (uL)   Soil Aliquot Volume:   (uL)     CONCENTRATION UNITS:     CAS NO.   COMPOUND   (ug/L or ug/Kg)   UG/L   Q     74-87-3   Chloromethane   10   U     75-01-4   Vinyl Chloride   10   U     75-35-4   1.1-Dichloroethene   10   U     75-35-4   1.1-Dichloroethene   10   U     75-35-4   1.1-Dichloroethene   20   U     76-63-3   Chloroform   10   U     75-34-3   1.1-Dichloroethene   27   D     67-66-3   Chloroform   10   U   T/1-9-2     165-69-2   cis-1.2-Dichloroethene   100   U     107-06-2		Level: (low/r	med)	LOW		Da	ate Recei	ved:	1/21/99	·	
GC Column:     DB-624     ID:     0.25     (mm)     Dilution Factor:     2.0       Soil Extract Volume:		-				Da	ate Analy	zed.	2/3/99		
Soil Extract Volume:   (uL)   Soil Aliquot Volume:   (uL)     CONCENTRATION UNITS:     CAS NO.   COMPOUND   (ug/L or ug/Kg)   UG/L   Q     74-87-3   Chloromethane   10   U     74-87-3   Chloroethane   10   U     75-00-3   Chloroethane   10   U     75-32-2   Methylene Chloride   10   U     75-33   2-Butanone   20   U     76-60-5   trans-1,2-Dichloroethane   10   U     156-60-5   trans-1,2-Dichloroethene   10   U     107-06-2   1,2-					(m)		•				
CAS NO.     COMPOUND     (ug/L or ug/Kg)     UG/L     Q       74-87-3     Chloromethane     10     U       74-87-3     Chloromethane     10     U       74-87-3     Chloromethane     10     U       74-87-3     Chloromethane     10     U       74-83-9     Bromomethane     10     U       75-00-3     Chloroethane     10     U       67-64-1     Acetone     20     U       75-35-4     1,1-Dichloroethane     10     U       75-35-4     1,1-Dichloroethane     10     U       75-50-2     Methylene Chloride     10     U       75-15-0     Carbon Disulfide     10     U       75-34-3     1,1-Dichloroethane     20     U       76-66-5     trans-1,2-Dichloroethane     27     D       67-66-3     Chloroform     10     U       71-55-6     1,1,1-Tirchloroethane     7     JD       166-69-2     cis-1,2-Dichloroethane     10     U       174-32											
CAS NO.     COMPOUND     (ug/L or ug/Kg)     UG/L     Q       74-87-3     Chloromethane     10     U       75-01-4     Vinyl Chloride     10     U       74-83-9     Bromomethane     10     U       75-01-3     Chloroethane     10     U       67-64-1     Acetone     20     U       75-35-4     1.1-Dichloroethene     10     U       75-35-4     1.1-Dichloroethene     10     U       75-35-4     1.1-Dichloroethane     10     U       75-35-3     Chloroethane     10     U       75-35-4     1.1-Dichloroethane     10     U       75-35-3     2-Butanone     20     U       156-60-5     trans-1.2-Dichloroethane     7     D       56-23-5     Carbon Tetrachloride     10     U       17-55-6     1.1.1-Trichloroethane     10     U       17-43-2     Benzene     10     U       17-43-2     Benzene     10     U       75-27-4     Bromod		Soil Extract V	Volume:	(uL)		Sc	il Aliquot	Volu	me:		(uL)
CAS NO.     COMPOUND     (ug/L or ug/Kg)     UG/L     Q       74-87-3     Chloromethane     10     U       75-01-4     Vinyl Chloride     10     U       74-83-9     Bromomethane     10     U       75-01-3     Chloroethane     10     U       67-64-1     Acetone     20     U       75-35-4     1.1-Dichloroethene     10     U       75-35-4     1.1-Dichloroethene     10     U       75-35-4     1.1-Dichloroethane     10     U       75-35-3     Chloroethane     10     U       75-35-4     1.1-Dichloroethane     10     U       75-35-3     2-Butanone     20     U       156-60-5     trans-1.2-Dichloroethane     7     D       56-23-5     Carbon Tetrachloride     10     U       17-55-6     1.1.1-Trichloroethane     10     U       17-43-2     Benzene     10     U       17-43-2     Benzene     10     U       75-27-4     Bromod											
74-87-3   Chloromethane   10   U     75-01-4   Vinyl Chloride   10   U     74-83-9   Bromomethane   10   U     75-00-3   Chloroethane   10   U     75-01-4   Acctone   20   U     75-30-3   Chloroethane   10   U     0   U   75-34-3   1,1-Dichloroethene   10   U     75-15-0   Carbon Disulfide   10   U   U   75-34-3     75-15-0   Carbon Disulfide   10   U   U   75-34-3   1,1-Dichloroethane   20   U     75-61-5   trans-1,2-Dichloroethane   20   U   U   156-60-5   trans-1,2-Dichloroethane   7   D     67-66-3   Chloroform   10   U   U   156-59-2   cis-1,2-Dichloroethane   10   U     156-59-2   cis-1,2-Dichloroethane   10   U   U   156-59-2   1,1-Trichloroethane   10   U     174-83-2   Benzene   10   U   U   168-12-12   168-12   169-14   16   U											
75-01-4   Vinyl Chloride   10   U     74-83-9   Bromomethane   10   U     75-00-3   Chloroethane   10   U     67-64-1   Acetone   20   U     75-35-4   1,1-Dichloroethene   10   U     75-35-4   1,1-Dichloroethene   10   U     75-35-4   1,1-Dichloroethane   10   U     75-35-3   2-Butanone   20   U     78-93-3   2-Butanone   20   U     78-93-3   2-Butanone   20   U     78-93-3   2-Butanone   20   U     71-55-6   1,1,1-Trichloroethane   7   JD     66-63-3   Chloroform   10   U     71-55-6   1,2-Dichloroethane   10   U     1056-59-2   cis-1,2-Dichloroethane   10   U     1056-59-2   cis-1,2-Dichloroethane   10   U     74-43-2   Benzene   10   U     79-01-6   Trichloroethane   10   U     78-87-5   1,2-Dichloropropane   10   U		CAS NO	Э.	COMPOUND	(ug/l	L or ug/Kg)	) <u>UG</u>	i/L	·····	Q	
75-01-4   Vinyl Chloride   10   U     74-83-9   Bromomethane   10   U     75-00-3   Chloroethane   10   U     67-64-1   Acetone   20   U     75-35-4   1,1-Dichloroethene   10   U     75-35-4   1,1-Dichloroethene   10   U     75-35-4   1,1-Dichloroethane   10   U     75-35-3   2-Butanone   20   U     78-93-3   2-Butanone   20   U     78-93-3   2-Butanone   20   U     78-93-3   2-Butanone   20   U     71-55-6   1,1,1-Trichloroethane   7   JD     66-63-3   Chloroform   10   U     71-55-6   1,2-Dichloroethane   10   U     1056-59-2   cis-1,2-Dichloroethane   10   U     1056-59-2   cis-1,2-Dichloroethane   10   U     74-43-2   Benzene   10   U     79-01-6   Trichloroethane   10   U     78-87-5   1,2-Dichloropropane   10   U		74-87	_3	Chloromethar	10				10	11	
74-83-9   Bromomethane   10   U     75-00-3   Chloroethane   10   U     67-64-1   Acetone   20   U     75-35-4   1,1-Dichloroethene   10   U     75-09-2   Methylene Chloride   10   U     75-09-2   Methylene Chloride   10   U     75-15-0   Carbon Disulfide   10   U     75-34-3   1,1-Dichloroethane   10   U     78-33-3   2-Butanone   20   U     156-60-5   trans-1,2-Dichloroethene   27   D     67-66-3   Chloroform   10   U     71-55-6   1,1,1-Trichloroethane   7   JD     56-53-5   Carbon Tetrachloride   10   U     105-659-2   cis-1,2-Dichloroethane   10   U     71-43-2   Benzene   10   U     75-27-4   Bromodichloromethane   10   U     75-27-4   Bromodichloromethane   10   U     108-10-1   4-Methyl-2-Pentanone   20   U     10061-02-6   trans-1,3-Dichlor						· · ·					_
75-00-3   Chloroethane   10   U $67-64-1$ Acetone   20   U $75-35-4$ 1,1-Dichloroethene   10   U $75-35-4$ 1,1-Dichloroethene   10   U $75-35-4$ 1,1-Dichloroethane   10   U $75-35-4$ 1,1-Dichloroethane   10   U $75-34-3$ 1,1-Dichloroethane   10   U $75-35-4$ 1,1-Dichloroethane   20   U $156-60-5$ trans-1,2-Dichloroethene   27   D $67-66-3$ Chloroform   10   U $71-55-6$ 1,1,1-Trichloroethane   7   JD $56-23-5$ Carbon Tetrachloride   10   U $156-59-2$ cis-1,2-Dichloroethane   10   U $107-06-2$ 1,2-Dichloroethane   10   U $71-43-2$ Benzene   10   U $75-27-4$ Bromodichloromethane   10   U $75-27-4$ Bromodorpopane   10   U $108-80-1$ 4-Methyl-2-Pentanone   20   U <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>											
67-64-1     Acetone     20     U $75-35-4$ 1,1-Dichloroethene     10     U $75-09-2$ Methylene Chloride     10     U $75-15-0$ Carbon Disulfide     10     U $75-34-3$ 1,1-Dichloroethane     10     U $75-34-3$ 1,1-Dichloroethane     10     U $75-39-3$ 2-Butanone     20     U $156-60-5$ trans-1,2-Dichloroethene     27     D $67-66-3$ Chloroform     10     U $71-55-6$ 1,1,1-Trichloroethane     7     JD $56-23-5$ Carbon Tetrachloride     10     U $156-59-2$ cis-1,2-Dichloroethene     180     D $107-06-2$ 1,2-Dichloropthane     10     U $74-32$ Benzene     10     U $75-27-4$ Bromodichloromethane     10     U $108-10-1$ 4-Methyl-2-Pentanone     20     U $10061-01-5$ cis-1,3-Dichloropropene     10     U </td <td></td> <td>_</td>											_
$75\cdot35\cdot4$ 1,1-Dichloroethene   10   U $75\cdot92$ Methylene Chloride   10   U $75\cdot15\cdot0$ Carbon Disulfide   10   U $75\cdot34\cdot3$ 1,1-Dichloroethane   10   U $75\cdot34\cdot3$ 1,1-Dichloroethane   10   U $75\cdot34\cdot3$ 2-Butanone   20   U $156\cdot60-5$ trans-1,2-Dichloroethene   27   D $67\cdot66\cdot3$ Chloroform   10   U $71\cdot55\cdot6$ 1,1,1-Trichloroethane   7   JD $56\cdot23\cdot5$ Carbon Tetrachloride   10   U $156\cdot59\cdot2$ cis-1,2-Dichloroethane   10   U $17\cdot43\cdot2$ Benzene   10   U $79\cdot01-6$ Trichloroéthene   100   D $78\cdot87.5$ 1,2-Dichloropropane   10   U $75\cdot27.4$ Bromodichloromethane   10   U $108\cdot88\cdot3$ Toluene   10   U $108\cdot88\cdot3$ Toluene   10   U $10061-02-6$ trans-1,3-Dichloropropene   10   U $10$				· · · · · · · · · · · · · · · · · · ·							
75-09-2     Methylene Chloride     10     U       75-15-0     Carbon Disulfide     10     U       75-34-3     1,1-Dichloroethane     10     U       78-93-3     2-Butanone     20     U       156-60-5     trans-1,2-Dichloroethene     27     D       67-66-3     Chloroform     10     U       71-55-6     1,1,1-Trichloroethane     7     JD       56-23-5     Carbon Tetrachloride     10     U       107-06-2     1,2-Dichloroethane     10     U       71-43-2     Benzene     10     U       78-87-5     1,2-Dichloroethane     10     U       78-87-5     1,2-Dichloropropane     10     U       78-87-5     1,2-Dichloropropane     10     U       108-10-1     4-Methyl-2-Pentanone     20     U       10061-01-5     cis-1,3-Dichloropropene     10     U       108-88-3     Toluene     10     U       10061-02-6     trans-1,3-Dichloropropene     10     U       10					thene						
75-15-0   Carbon Disulfide   10   U     75-34-3   1,1-Dichloroethane   10   U     78-93-3   2-Butanone   20   U     156-60-5   trans-1,2-Dichloroethene   27   D     67-66-3   Chloroform   10   U     71-55-6   1,1,1-Trichloroethane   7   JD     56-23-5   Carbon Tetrachloride   10   U     156-59-2   cis-1,2-Dichloroethane   10   U     174-43-2   Benzene   10   U     79-01-6   Trichloroethene   100   D     78-87-5   1,2-Dichloropropane   10   U     75-27-4   Bromodichloromethane   10   U     75-27-4   Bromodichloropropane   10   U     108-10-1   4-Methyl-2-Pentanone   20   U     10061-01-5   cis-1,3-Dichloropropene   10   U     108-88-3   Toluene   10   U     109-78-6   2,-Hexanone   20   U     127-18-4   Tetrachloroethane   10   U     130-20-7   Chlor										U	_
75-34-31,1-Dichloroethane10U78-93-32-Butanone20U156-60-5trans-1,2-Dichloroethene27D67-66-3Chloroform10U71-55-61,1,1-Trichloroethane7JD56-23-5Carbon Tetrachloride10U156-59-2cis-1,2-Dichloroethene180D107-06-21,2-Dichloroethane10U71-43-2Benzene10U75-27-4Bromodichloropane10U75-27-4Bromodichloropropene10U108-10-14-Methyl-2-Pentanone20U10061-01-5cis-1,3-Dichloropropene10U108-88-3Toluene10U109-05-51,1,2-Trichloroethane10U121-18-4Tetrachloropene10U122-18-4Chlorobenzene10U1030-20-7Xylenes (total)10U100-42-5Styrene10U130-20-7Xylenes (total)10U100-42-5Bromoform10U			the second s						10	U	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		75-34	-3	1,1-Dichloroe	thane				10	U	
67-66-3     Chloroform     10     U       71-55-6     1,1,1-Trichloroethane     7     JD       56-23-5     Carbon Tetrachloride     10     U       156-59-2     cis-1,2-Dichloroethene     180     D       107-06-2     1,2-Dichloroethane     10     U       71-43-2     Benzene     10     U       79-01-6     Trichloroethene     100     D       78-87-5     1,2-Dichloropropane     10     U       75-27-4     Bromodichloromethane     10     U       108-10-1     4-Methyl-2-Pentanone     20     U       10061-01-5     cis-1,3-Dichloropropene     10     U       108-88-3     Toluene     10     U       108-88-3     Toluene     10     U       109-0-5     1,1,2-Trichloroethane     10     U       109-178-6     2-Hexanone     20     U       127-18-4     Tetrachloroethene     10     U       108-90-7     Chlorobenzene     10     U       100-41-4		78-93	-3	2-Butanone					20	U	
71-55-6   1,1,1-Trichloroethane   7   JD     56-23-5   Carbon Tetrachloride   10   U     156-59-2   cis-1,2-Dichloroethene   180   D     107-06-2   1,2-Dichloroethane   10   U     71-43-2   Benzene   10   U     79-01-6   Trichloroethene   100   D     78-87-5   1,2-Dichloropropane   10   U     75-27-4   Bromodichloromethane   10   U     108-10-1   4-Methyl-2-Pentanone   20   U     10061-01-5   cis-1,3-Dichloropropene   10   U     108-88-3   Toluene   10   U     10061-02-6   trans-1,3-Dichloropropene   10   U     100-05   1,1,2-Trichloroethane   10   U     109-00-5   1,1,2-Trichloroethane   10   U     100-12-6   trans-1,3-Dichloropropene   10   U     100-10-2-6   trans-1,3-Dichloroethane   10   U     100-10-2-6   trans-1,3-Dichloroethane   10   U     127-18-4   Tetrachloroethene   10   U		156-6	0-5	trans-1,2-Dict	loroethen	e			27		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	•	67-66	-3						10		
156-59-2     cis-1,2-Dichloroethene     180     D       107-06-2     1,2-Dichloroethane     10     U       71-43-2     Benzene     10     U       79-01-6     Trichloroethene     100     D       78-87-5     1,2-Dichloropropane     10     U       75-27-4     Bromodichloromethane     10     U       108-10-1     4-Methyl-2-Pentanone     20     U       10061-01-5     cis-1,3-Dichloropropene     10     U       108-88-3     Toluene     10     U       10061-02-6     trans-1,3-Dichloropropene     10     U       10061-02-6     trans-1,3-Dichloropropene     10     U       10061-02-6     trans-1,3-Dichloropropene     10     U       10061-02-6     trans-1,3-Dichloropropene     10     U       127-18-4     Tetrachloroethane     10     U       127-18-4     Tetrachloroethene     10     U       108-90-7     Chlorobenzene     10     U       100-41-4     Ethylbenzene     10     U											
107-06-2     1,2-Dichloroethane     10     U       71-43-2     Benzene     10     U       79-01-6     Trichloroéthene     100     D       78-87-5     1,2-Dichloropropane     10     U       75-27-4     Bromodichloromethane     10     U       108-10-1     4-Methyl-2-Pentanone     20     U       10061-01-5     cis-1,3-Dichloropropene     10     U       108-88-3     Toluene     10     U       10061-02-6     trans-1,3-Dichloropropene     10     U       1100-12-6     trans-1,3-Dichloropropene     10     U       127-18-4     Tetrachloroethane     10     U       124-48-1     Chlorodibromomethane     10     U       100-41-4     Ethylbenzene     10											
71-43-2   Benzene   10   U     79-01-6   Trichloroéthene   100   D     78-87-5   1,2-Dichloropropane   10   U     75-27-4   Bromodichloromethane   10   U     108-10-1   4-Methyl-2-Pentanone   20   U     10061-01-5   cis-1,3-Dichloropropene   10   U     108-88-3   Toluene   10   U     10061-02-6   trans-1,3-Dichloropropene   10   U     127-18-4   Tetrachloroethane   10   U     127-18-4   Tetrachloroethene   10   U     108-90-7   Chlorobenzene   10   U     100-41-4   Ethylbenzene   10   U     1330-20-7   Xylenes (total)   10   U <											
79-01-6     Trichloroethene     100     D       78-87-5     1,2-Dichloropropane     10     U       75-27-4     Bromodichloromethane     10     U       108-10-1     4-Methyl-2-Pentanone     20     U       10061-01-5     cis-1,3-Dichloropropene     10     U       108-88-3     Toluene     10     U       10061-02-6     trans-1,3-Dichloropropene     10     U       10061-02-6     trans-1,3-Dichloropropene     10     U       79-00-5     1,1,2-Trichloroethane     10     U       591-78-6     2-Hexanone     20     U       127-18-4     Tetrachloroethene     10     U       124-48-1     Chlorodibromomethane     10     U       108-90-7     Chlorobenzene     10     U       100-41-4     Ethylbenzene     10     U       1330-20-7     Xylenes (total)     10     U       100-42-5     Styrene     10     U					thane						
78-87-5   1,2-Dichloropropane   10   U     75-27-4   Bromodichloromethane   10   U     108-10-1   4-Methyl-2-Pentanone   20   U     10061-01-5   cis-1,3-Dichloropropene   10   U     108-88-3   Toluene   10   U     10061-02-6   trans-1,3-Dichloropropene   10   U     10061-02-6   trans-1,3-Dichloropropene   10   U     79-00-5   1,1,2-Trichloroethane   10   U     591-78-6   2-Hexanone   20   U     127-18-4   Tetrachloroethene   10   U     108-90-7   Chlorodibromomethane   10   U     108-90-7   Chlorobenzene   10   U     1330-20-7   Xylenes (total)   10   U     100-41-4   Ethylbenzene   10   U     100-42-5   Styrene   10   U     100-42-5   Styrene   10   U											
75-27-4   Bromodichloromethane   10   U     108-10-1   4-Methyl-2-Pentanone   20   U     10061-01-5   cis-1,3-Dichloropropene   10   U     108-88-3   Toluene   10   U     10061-02-6   trans-1,3-Dichloropropene   10   U     79-00-5   1,1,2-Trichloroethane   10   U     591-78-6   2-Hexanone   20   U     127-18-4   Tetrachloroethene   10   U     108-90-7   Chlorodibromomethane   10   U     108-90-7   Chlorobenzene   10   U     100-41-4   Ethylbenzene   10   U     1330-20-7   Xylenes (total)   10   U     100-42-5   Styrene   10   U											_
108-10-1   4-Methyl-2-Pentanone   20   U     10061-01-5   cis-1,3-Dichloropropene   10   U     108-88-3   Toluene   10   U     10061-02-6   trans-1,3-Dichloropropene   10   U     79-00-5   1,1,2-Trichloroethane   10   U     591-78-6   2-Hexanone   20   U     127-18-4   Tetrachloroethene   10   U     124-48-1   Chlorodibromomethane   10   U     108-90-7   Chlorobenzene   10   U     100-41-4   Ethylbenzene   10   U     130-20-7   Xylenes (total)   10   U     100-42-5   Styrene   10   U     75-25-2   Bromoform   10   U											_
10061-01-5   cis-1,3-Dichloropropene   10   U     108-88-3   Toluene   10   U     10061-02-6   trans-1,3-Dichloropropene   10   U     79-00-5   1,1,2-Trichloroethane   10   U     591-78-6   2-Hexanone   20   U     127-18-4   Tetrachloroethene   10   U     108-90-7   Chlorodibromomethane   10   U     108-90-7   Chlorobenzene   10   U     100-41-4   Ethylbenzene   10   U     100-42-5   Styrene   10   U     100-42-5   Styrene   10   U											
108-88-3   Toluene   10   U     10061-02-6   trans-1,3-Dichloropropene   10   U     79-00-5   1,1,2-Trichloroethane   10   U     591-78-6   2-Hexanone   20   U     127-18-4   Tetrachloroethene   10   U     124-48-1   Chlorodibromomethane   10   U     108-90-7   Chlorobenzene   10   U     100-41-4   Ethylbenzene   10   U     1330-20-7   Xylenes (total)   10   U     100-42-5   Styrene   10   U     75-25-2   Bromoform   10   U											_
10061-02-6   trans-1,3-Dichloropropene   10   U     79-00-5   1,1,2-Trichloroethane   10   U     591-78-6   2-Hexanone   20   U     127-18-4   Tetrachloroethene   10   U     124-48-1   Chlorodibromomethane   10   U     108-90-7   Chlorobenzene   10   U     100-41-4   Ethylbenzene   10   U     1330-20-7   Xylenes (total)   10   U     100-42-5   Styrene   10   U     75-25-2   Bromoform   10   U					opropene			,			
79-00-5   1,1,2-Trichloroethane   10   U     591-78-6   2-Hexanone   20   U     127-18-4   Tetrachloroethene   10   U     124-48-1   Chlorodibromomethane   10   U     108-90-7   Chlorobenzene   10   U     100-41-4   Ethylbenzene   10   U     1330-20-7   Xylenes (total)   10   U     100-42-5   Styrene   10   U     75-25-2   Bromoform   10   U					loronrone						
591-78-6   2-Hexanone   20   U     127-18-4   Tetrachloroethene   10   U     124-48-1   Chlorodibromomethane   10   U     108-90-7   Chlorobenzene   10   U     100-41-4   Ethylbenzene   10   U     1330-20-7   Xylenes (total)   10   U     100-42-5   Styrene   10   U     75-25-2   Bromoform   10   U											
127-18-4     Tetrachloroethene     10     U       124-48-1     Chlorodibromomethane     10     U       108-90-7     Chlorobenzene     10     U       100-41-4     Ethylbenzene     10     U       1330-20-7     Xylenes (total)     10     U       100-42-5     Styrene     10     U       75-25-2     Bromoform     10     U					00010110					1	
124-48-1     Chlorodibromomethane     10     U       108-90-7     Chlorobenzene     10     U       100-41-4     Ethylbenzene     10     U       1330-20-7     Xylenes (total)     10     U       100-42-5     Styrene     10     U       75-25-2     Bromoform     10     U					hene						
108-90-7     Chlorobenzene     10     U       100-41-4     Ethylbenzene     10     U       1330-20-7     Xylenes (total)     10     U       100-42-5     Styrene     10     U       75-25-2     Bromoform     10     U											
100-41-4     Ethylbenzene     10     U       1330-20-7     Xylenes (total)     10     U       100-42-5     Styrene     10     U       75-25-2     Bromoform     10     U											
1330-20-7     Xylenes (total)     10     U       100-42-5     Styrene     10     U       75-25-2     Bromoform     10     U											
100-42-5     Styrene     10     U       75-25-2     Bromoform     10     U											
75-25-2 Bromoform 10 U											
79-34-5 1,1,2,2-Tetrachloroethane 10 U				Bromoform							
		79-34	-5	1,1,2,2-Tetra	chloroetha	ne			10	U	]

	1A					
	OLATILE ORGANICS ANALY		IR35-	GW14IW-99A		
	ORATORIES		_ L			
Lab Code: EA ENC	G Case No.:	SAS No.: S	DG No.:			
Matrix: (soil/water)		Lab Sample ID:				
Sample wt/vol:	5.0 (g/ml) ML	Lab File ID:	VC3A1218	3.D		
		Date Received:				
Level: (low/med)	<u> </u>					
% Moisture: not dec.		Date Analyzed:	2/3/99			
GC Column: DB-62	24 ID: <u>0.25</u> (mm)	Dilution Factor:	1.0			
Soil Extract Volume:	(uL)	Soil Aliquot Volu	ıme:	(uL)		
	(,	•		、 ,		
	CO	NCENTRATION UNITS:				
CAS NO.	COMPOUND (ug/	/L or ug/Kg) UG/L		Q		
0.0000		<u></u>				
74-87-3	Chloromethane		5	U		
75-01-4	Vinyl Chloride		5	<u> </u>		
74-83-9	Bromomethane		5	<u> </u>		
75-00-3	Chloroethane		5	<u> </u>		
67-64-1	Acetone		10	<u> </u>		
75-35-4	1,1-Dichloroethene		5	<u> </u>		
75-09-2	Methylene Chloride		5	<u> </u>		
75-15-0	Carbon Disulfide		5	<u> </u>		
75-34-3	1,1-Dichloroethane		5	U		
78-93-3	2-Butanone		10	<u> </u>		
156-60-5	trans-1,2-Dichloroether	ne	15			
67-66-3	Chloroform		5	<u> </u>		
71-55-6	1,1,1-Trichloroethane		5	<u> </u>		
56-23-5	Carbon Tetrachloride		5	<u> </u>		
156-59-2	cis-1,2-Dichloroethene		140			
107-06-2	1,2-Dichloroethane		5	<u> </u>		
71-43-2	Benzene		5	<u> </u>		
79-01-6	Trichloroéthene		83			
78-87-5	1,2-Dichloropropane		5	<u>    U     </u>		
75-27-4	Bromodichloromethane	3	5	U		
108-10-1	4-Methyl-2-Pentanone		10	U		
10061-01-5	cis-1,3-Dichloropropen	e	5	U		
108-88-3	Toluene		5	U		
10061-02-6	trans-1,3-Dichloroprope	ene	5	U		
79-00-5	1,1,2-Trichloroethane		5	U		
591-78-6	2-Hexanone		10	U		
127-18-4	Tetrachloroethene		5	<u>U</u>		
124-48-1	Chlorodibromomethane	9	5	<u>U</u>		
108-90-7	Chlorobenzene		5	<u> </u>		
100-41-4	Ethylbenzene		5	<u> </u>		
1330-20-7	Xylenes (total)		5	<u> </u>		
100-42-5	Styrene		5	<u> </u>		
75-25-2	Bromoform		5	<u>    U                                </u>		
79-34-5	1,1,2,2-Tetrachloroetha	ane	5	U		

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	VOLATILE ORGANICS ANA	VOLATILE ORGANICS ANALYSIS DATA SHEET				
Lab Name: EA L	ABORATORIES	Contract: 990048	11/30	-GW14IW-99A		
Lab Code: EA E	NG Case No.:	SAS No.:	SDG No.:			
Matrix: (soil/water)						
	5.0 (g/ml) ML		VC3A121			
	<u></u>			9.D		
Level: (low/med)	LOW	Date Receiv	ed: 1/21/99			
% Moisture: not de	с.	Date Analyz	ed: 2/3/99			
GC Column: DB	-624 ID: 0.25 (mm)	Dilution Fact	or: 5.0	<del></del>		
				(		
Soll Extract Volum	e: (uL)	Soli Aliquot	/olume:	(uL)		
	C	ONCENTRATION UNI	Te			
		COMPOUND (ug/L or ug/Kg) UG/L				
CAS NO.	COMPOUND (U	g/L  or  ug/Rg) = UG/Rg/L G/Rg/Rg/L G/Rg/Rg/Rg/Rg/Rg/Rg/Rg/Rg/Rg/Rg/Rg/Rg/Rg/		Q		
74-87-3	Chloromethane		25	U		
75-01-4	Vinyl Chloride		25	U		
74-83-9	Bromomethane		25	U		
75-00-3	Chloroethane		25	U		
67-64-1	Acetone		50	U		
75-35-4	1,1-Dichloroethene		25	U		
75-09-2	Methylene Chloride		25	U		
75-15-0	Carbon Disulfide		25	U		
75-34-3	1,1-Dichloroethane		25	U		
78-93-3	2-Butanone		50	<u>    U     </u>		
156-60-5	trans-1,2-Dichloroethe	ene	30	D		
67-66-3	Chloroform		25	U		
71-55-6	1,1,1-Trichloroethane		25	U		
56-23-5	Carbon Tetrachloride		25	<u> </u>		
156-59-2	cis-1,2-Dichloroethene	<u>e</u>	290	D		
<u>107-06-2</u> 71-43-2	1,2-Dichloroethane	· · · · · · · · · · · · · · · · · · ·	<u>25</u> 25			
79-01-6	Benzene Trichloroethene		310	D		
78-87-5	1,2-Dichloropropane		25	U		
75-27-4	Bromodichloromethan	ne internet	25	U		
108-10-1	4-Methyl-2-Pentanone		50	U		
10061-01-5	cis-1,3-Dichloroproper		25	U		
108-88-3	Toluene		25	U		
10061-02-6	trans-1,3-Dichloroprop	pene	25	U		
79-00-5	1,1,2-Trichloroethane		25	U		
591-78-6	2-Hexanone		50	U		
127-18-4	Tetrachloroethene		25	U		
124-48-1	Chlorodibromomethar	ne	25	U		
108-90-7	Chlorobenzene		25	U		
100-41-4	Ethylbenzene		25	U		
1330-20-7	Xylenes (total)		25	U		
100-42-5	Styrene		25	<u> </u>		
75-25-2	Bromoform		25	<u> </u>		
79-34-5	1,1,2,2-Tetrachloroeth	nane	25	U		

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		1A		EPA SA	MPLE NO.
		VOLATILE ORGANICS ANALY	YSIS DATA SHEET	IR3	5-GW31-99A
	Lab Name: EA LAE	BORATORIES	Contract: <u>990048</u>	_ L	
•.	Lab Code: EA EN	G Case No.:	SAS No.: S	SDG No.:	
	Matrix: (soil/water)	WATER	Lab Sample ID:	9900393	
	Sample wt/vol:	5.0 (g/ml) ML	Lab File ID:	VC3A122	0.D
	Level: (low/med)		- Date Received:	·····	
	. ,	······			-16.
	% Moisture: not dec.		Date Analyzed:	2/3/99	
	GC Column: DB-62	24 ID: <u>0.25</u> (mm)	Dilution Factor:	1.0	
	Soil Extract Volume:	(uL)	Soil Aliquot Volu	ume:	(uL)
		、 、 、	•		()
		100	NCENTRATION UNITS:		
	CAS NO.	COMPOUND (ug/	L or ug/Kg) UG/L		Q
		· -			
	74-87-3	Chloromethane		5	U
	75-01-4	Vinyl Chloride		5	U
	74-83-9	Bromomethane		5	<u>    U                                </u>
	75-00-3	Chloroethane		5	U
	67-64-1	Acetone		10	U
	75-35-4	1,1-Dichloroethene		5	<u>    U      </u>
	75-09-2	Methylene Chloride		5	<u> </u>
	75-15-0	Carbon Disulfide		5	<u> </u>
	75-34-3	1,1-Dichloroethane		5	<u> </u>
	78-93-3	2-Butanone trans-1,2-Dichloroethen		10 F	<u>U</u>
	156-60-5	Chloroform	<u>e</u>	5	U U
	<u>67-66-3</u> 71-55-6	1,1,1-Trichloroethane		5 5	U
	56-23-5	Carbon Tetrachloride		5	U
	156-59-2	cis-1,2-Dichloroethene		5	U
	107-06-2	1,2-Dichloroethane		5	U
	71-43-2	Benzene		5	U
	79-01-6	Trichloroéthene		5	U
	78-87-5	1,2-Dichloropropane		5	U
	75-27-4	Bromodichloromethane		5	U
	108-10-1	4-Methyl-2-Pentanone		10	Ŭ
	10061-01-5	cis-1,3-Dichloropropene	•	5	U
	108-88-3	Toluene		5	U
	10061-02-6	trans-1,3-Dichloroprope	ne	5	U
	79-00-5	1,1,2-Trichloroethane		5	U
	591-78-6	2-Hexanone		10	U
	127-18-4	Tetrachloroethene		5	U
	124-48-1	Chlorodibromomethane		5	U
	108-90-7	Chlorobenzene		5	U
	100-41-4	Ethylbenzene		5	U ·
	1330-20-7	Xylenes (total)	·	5	U
	100-42-5	Styrene		5	U
	75-25-2	Bromoform		5	U
	79-34-5	1,1,2,2-Tetrachloroetha	ne	5	U

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	1A		EPA SA	MPLE NO.
Y	VOLATILE ORGANICS ANAL	YSIS DATA SHEET	IR	35-TB01-99A
Lab Name: EA LAE	ORATORIES	Contract: 990048	_ L	
Lab Code: EA ENG	G Case No.:	SAS No.: S	SDG No.:	
Matrix: (soil/water)	WATER	Lab Sample ID:	9900394	
Sample wt/vol:	5.0 (g/ml) ML	Lab File ID:	VC34122	
-				
Level: (low/med)	LOW	Date Received:	1/21/99	
% Moisture: not dec.		Date Analyzed:	2/3/99	
GC Column: DB-62	24 ID: 0.25 (mm)	Dilution Factor:	1.0	
Soil Extract Volume:		Soil Aliquot Vol		 (ul.)
	(uc <i>)</i>		ume	(uL)
	CO	NCENTRATION UNITS:		
CAS NO.		/L or ug/Kg) UG/L		0
				Q
74-87-3	Chloromethane		5	U
75-01-4	Vinyl Chloride		5	U
74-83-9	Bromomethane		5	U
75-00-3	Chloroethane		5	U
67-64-1	Acetone		10	U
75-35-4	1,1-Dichloroethene		5	U
75-09-2	Methylene Chloride		5	U
75-15-0	Carbon Disulfide		5	U
75-34-3	1,1-Dichloroethane		5	U
78-93-3	2-Butanone		10	<u>    U     </u>
156-60-5	trans-1,2-Dichloroethen	10	5	<u>    U                                </u>
67-66-3	Chloroform		5	<u>    U      </u>
<u>71-55-6</u> 56-23-5	1,1,1-Trichloroethane Carbon Tetrachloride		5 5	<u>U</u> U
156-59-2	cis-1,2-Dichloroethene		5	<u> </u>
107-06-2	1,2-Dichloroethane		<u> </u>	<u> </u>
71-43-2	Benzene	• • • • • • • • • • • • • • • • • • • •	5	U
79-01-6	Trichloroéthene		5	U
78-87-5	1,2-Dichloropropane		5	U
75-27-4	Bromodichloromethane	)	5	U
108-10-1	4-Methyl-2-Pentanone		10	U
10061-01-5	cis-1,3-Dichloropropene	e	5	U
108-88-3	Toluene		5	U
10061-02-6	trans-1,3-Dichloroprope	ene	5	U
79-00-5	1,1,2-Trichloroethane		5	U
591-78-6	2-Hexanone		10	U
127-18-4	Tetrachloroethene		5	<u>    U     </u>
124-48-1	Chlorodibromomethane	)	5	U
108-90-7	Chlorobenzene		5	U
100-41-4	Ethylbenzene		5	<u>    U                                </u>
1330-20-7	Xylenes (total)		5	U
100-42-5	Styrene		5	
75-25-2	Bromoform		5	U
79-34-5	1,1,2,2-Tetrachloroetha		5	U

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		1,				EPA SA	MPLE	10.
	-	OLATILE ORGANICS				IR3	5-GW6	2-99A
		ORATORIES				_ [		·
Lab Code:	EA ENG	G Case No.:	SAS I	No.:	S	DG No.:		
Matrix: (soil/	water)	WATER	l	.ab Sam	ple ID:	9900395		
	-	5.0 (g/ml) M	n , I	ah Filo			2 D	
•							2.0	
Level: (low/r	ned)	LOW	[	Date Re	ceived:	1/21/99		
% Moisture:	not dec.		ſ	Date Ana	alyzed:	2/3/99		
GC Column:	DB-62	24 ID: 0.25 (mm)	) [	Dilution I	Factor:	1.0		
		(uL)			int Volu	Ime:	<del></del>	(uL)
	volume.	(uc)					<u></u>	(uL)
			CONCENTR		UNITS:			
CAS NO	r	COMPOUND	(ug/L or ug/K		UG/L		Q	
CASIN	J.	COMPOUND		9) <u>'</u>			Q	
74-87	-3	Chloromethane				5	U	
75-01		Vinyl Chloride				5	Ŭ	
74-83		Bromomethane				5	U	
75-00	-3	Chloroethane				5	U	
67-64	-1	Acetone				10	U	
75-35	-4	1,1-Dichloroethe	ne			5	<u> </u>	
75-09		Methylene Chlor				5	U	
75-15		Carbon Disulfide				5	<u> </u>	
75-34		1,1-Dichloroetha	Ine			5	U	
78-93		2-Butanone				10	<u>U</u>	
156-6		trans-1,2-Dichlor	roethene			5	<u> </u>	_
67-66		Chloroform				5	<u>U</u>	
71-55		1,1,1-Trichloroel Carbon Tetrachl				<u>5</u>	<u> </u>	_
<u>56-23</u> 156-5		cis-1,2-Dichloroe				5	J	
107-0		1,2-Dichloroetha				5	U	
71-43		Benzene				5	<u> </u>	-
79-01		Trichloroéthene				5	<u> </u>	
78-87		1,2-Dichloroprop	bane			5	Ū	
75-27		Bromodichlorom				5	U	
108-1		4-Methyl-2-Pent				10	U	
	-01-5	cis-1,3-Dichloro				5	U	
108-8		Toluene				5	U	
	-02-6	trans-1,3-Dichlo				5	U	
79-00		1,1,2-Trichloroe	lhane			5	<u> </u>	
591-7		2-Hexanone				10	<u> </u>	
127-1		Tetrachloroethe				5	U	
124-4		Chlorodibromor	nethane			5	U	_
108-9		Chlorobenzene			· · · · · ·	5	<u>U</u>	
100-4		Ethylbenzene				5	<u> </u>	
1330-		Xylenes (total)				5	<u>U</u>	
100-4		Styrene Bromoform	- ru			5	U	
75-25 79-34		1,1,2,2-Tetrachl	oroothara			<u>5</u>	UU	

FORM I VOA

020038

	1A			EPA SA	MPLE NO.	
	VOLATILE ORGANICS AN			IR35	-GW40IW-	99A
	BORATORIES		0048	L	<u> </u>	
Lab Code: EA EN	G Case No.:	SAS No.:	SD	G No.: _		
Matrix: (soil/water)	WATER	Lab Sa	mple ID: 9	900396		
Sample wt/vol:	5.0 (g/mi) ML	Lab File	e ID: V	'C3A122	3.D	
Level: (low/med)			eceived: 1	121/00		
% Moisture: not dec.	<u> </u>		nalyzed: 2			
GC Column: DB-62	24 ID: <u>0.25</u> (mm)	Dilution	Factor: 1	.0		
Soil Extract Volume:	(uL)	Soil Alic	quot Volum	e:	(ul	_)
	(	CONCENTRATION	UNITS:		•	
CAS NO.	COMPOUND (	(ug/L or ug/Kg)	UG/L		Q	
74-87-3	Chloromethane			5		
75-01-4	Vinyl Chloride	·····		6		
74-83-9	Bromomethane			5	U	
75-00-3	Chloroethane			5	U	
67-64-1 75-35-4	Acetone 1,1-Dichloroethene			10 5	U U	
75-09-2	Methylene Chloride			5	U	
75-15-0	Carbon Disulfide		-	5	U	
75-34-3	1,1-Dichloroethane			5	U	
78-93-3	2-Butanone			10	Ŭ	
156-60-5	trans-1,2-Dichloroet	hene		8		
67-66-3	Chloroform			5	U	
71-55-6	1,1,1-Trichloroethan	e		5	U	•
56-23-5	Carbon Tetrachloride			5	U	
156-59-2	cis-1,2-Dichloroethe	ne		190		
107-06-2	1,2-Dichloroethane			5	U	
71-43-2	Benzene			5	U	
79-01-6	Trichloroethene	<u>.</u>		8		
78-87-5	1,2-Dichloropropane			5	U	
75-27-4	Bromodichlorometha			5	U	
108-10-1	4-Methyl-2-Pentanor			10	U	
10061-01-5	cis-1,3-Dichloroprop	ene		5	U	
108-88-3	Toluene			5	U	
10061-02-6	trans-1,3-Dichloropro			5	U	
79-00-5	1,1,2-Trichloroethan	e	-	5	U	
591-78-6	2-Hexanone			10	U	
127-18-4	Tetrachloroethene			5	U	
124-48-1	Chlorodibromometha	ane		5	U	
108-90-7	Chlorobenzene			5 5	U	•
100-41-4	Ethylbenzene	· · · · · · •		5 5	U	
<u>1330-20-7</u> 100-42-5	Xylenes (total)	······		5	UU	
75-25-2	Styrene Bromoform			5 5	U	
79-34-5	1,1,2,2-Tetrachloroe	thana		5 5	U	
15-34-3	1,1,2,2-1 eu acmoroe			<u> </u>		

		1A		EPA SA	MPLE NO.
		VOLATILE ORGANICS ANA		IR35	-GW43IW-99A
		BORATORIES		_ i	
•	Lab Code: EA EN	G Case No.:	SAS No.: S	DG No.:	
	Matrix: (soil/water)	WATER	Lab Sample ID:	9900397	
		5.0 (g/ml) ML			
	Level: (low/med)		Date Received:		
	% Moisture: not dec.	·	Date Analyzed:	2/3/99	
	GC Column: DB-62	24 ID: <u>0.25</u> (mm)	Dilution Factor:	1.0	
	Soil Extract Volume:	(uL)	Soil Aliquot Volu	ume:	 (uL)
		()			
		С	ONCENTRATION UNITS:		
	CAS NO.	COMPOUND (I	ug/L or ug/Kg) UG/L		Q
		· · · · · · · · · · · · · · · · · ·	<u> </u>		-
	74-87-3	Chloromethane		5	U
	75-01-4	Vinyl Chloride		5	U
	74-83-9	Bromomethane		5	U
	75-00-3	Chloroethane		• 5	U
	67-64-1	Acetone		10	U
	75-35-4	1,1-Dichloroethene		5	U
	75-09-2	Methylene Chloride		5	<u>U</u>
	75-15-0	Carbon Disulfide		5	U
	75-34-3	1,1-Dichloroethane		5	
	78-93-3 156-60-5	2-Butanone trans-1,2-Dichloroeth	000	<u> </u>	UUU
5	67-66-3	Chloroform		_	U
	71-55-6	1,1,1-Trichloroethane	<u> </u>	5	U
-	56-23-5	Carbon Tetrachloride		5	U
	156-59-2	cis-1,2-Dichloroethen		5	U
	107-06-2	1,2-Dichloroethane		5	U
	71-43-2	Benzene		5	U
	79-01-6	Trichloroéthene		5	Ū
	78-87-5	1,2-Dichloropropane		5	U
	75-27-4	Bromodichlorometha	ne	5	U
	108-10-1	4-Methyl-2-Pentanon		10	U
	10061-01-5	cis-1,3-Dichloroprope		5	U
	108-88-3	Toluene		5	U
	10061-02-6	trans-1,3-Dichloropro		5	U
	79-00-5	1,1,2-Trichloroethane	e	5	U
	591-78-6	2-Hexanone		10	U
	127-18-4	Tetrachloroethene		5	U
	124-48-1	Chlorodibromometha	ine	5	U
	108-90-7	Chlorobenzene		5	U
	100-41-4	Ethylbenzene		5	U
	1330-20-7	Xylenes (total)		5	U
	100-42-5	Styrene		5	U
	75-25-2	Bromoform		5	U
	79-34-5	1,1,2,2-Tetrachloroet	inane I	5	U

FORM I VOA

	1A		EPA SA	EPA SAMPLE N			
	OLATILE ORGANICS ANALY		IR35	-GW631	W-99A		
Lab Name: EA LAB	ORATORIES	Contract: <u>990048</u>	L				
Lab Code: EA ENG	G Case No.:	SAS No.:	SDG No.:				
Matrix: (soil/water)	WATER	Lab Sample I	D: 9900398				
•	5.0 (g/ml) ML	Lab File ID:	VC3A122	25 D			
Sample wt/vol:							
Level: (low/med)	LOW	Date Receive	ed: <u>1/21/99</u>				
% Moisture: not dec.		Date Analyze	d: 2/3/99	2/3/99			
GC Column: DB-62	4 ID: 0.25 (mm)	Dilution Facto	or: 1.0				
				<u></u>	6.1.5		
Soil Extract Volume:	(uL)	Soil Aliquot V			(uL)		
			0				
		NCENTRATION UNIT		•			
CAS NO.	COMPOUND (ug/	L or ug/Kg) UG/L		Q			
74-87-3	Chloromethane		5	U	-1		
75-01-4	Vinyl Chloride		5	U			
74-83-9	Bromomethane		5	U			
75-00-3	Chloroethane		5	U			
67-64-1	Acetone		10	U	-		
75-35-4	1,1-Dichloroethene		5	U			
75-09-2	Methylene Chloride		5	U			
75-15-0	Carbon Disulfide		5	U			
75-34-3	1,1-Dichloroethane		5	<u> </u>			
78-93-3	2-Butanone		10	U			
156-60-5	trans-1,2-Dichloroethen	e	5	U			
67-66-3	Chloroform		5	<u>U</u>	4		
71-55-6	1,1,1-Trichloroethane		5	U			
56-23-5	Carbon Tetrachloride		5	<u>U</u>			
156-59-2	cis-1,2-Dichloroethene		5	U	_		
107-06-2	1,2-Dichloroethane		<u> </u>	<u>U</u>			
<u>71-43-2</u> 79-01-6	Benzene Trichloroethene		<u> </u>	U U			
78-87-5	1,2-Dichloropropane		5	<u> </u>			
75-27-4	Bromodichloromethane		5	Ŭ			
108-10-1	4-Methyl-2-Pentanone		10	Ŭ			
10061-01-5	cis-1,3-Dichloropropene	<b>;</b>	5	Ŭ			
108-88-3	Toluene		5	U			
10061-02-6	trans-1,3-Dichloroprope	ne	5	U			
79-00-5	1,1,2-Trichloroethane		5	U			
591-78-6	2-Hexanone		10	U			
127-18-4	Tetrachloroethene		5	U			
124-48-1	Chlorodibromomethane		5	U			
108-90-7	Chlorobenzene	·····	5	<u> </u>			
100-41-4	Ethylbenzene		5	U			
1330-20-7	Xylenes (total)		5	<u>U</u>			
100-42-5	Styrene		5	U			
75-25-2	Bromoform		5	<u>U</u>			
79-34-5	1,1,2,2-Tetrachloroetha	ne	5	U			

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				1A				EPA S	AMPLE	NO.
			OLATILE ORGA					IR	35-GW1	0-99A
	Lab Name:	EA LAB	ORATORIES		_ Contract:	: 990	048	_		
	Lab Code:	EA ENC	G Case No	<b>D.:</b>	SAS N	lo.:	S	DG No.:		
	Matrix: (soil/	water)	<u></u>			ab Sar	mple ID:	9900399		
	•	•	5.0 (g/i	mi) MI			-	VC3A12		
									20.0	
	Level: (low/	med)	LOW		D	ate Re	eceived:	1/21/99		
	% Moisture:	not dec.			D	ate Ar	alyzed:	2/3/99		
	GC Column:	DB-62	24 ID: 0.25	- (mm)	D	ilution	Factor:	1.0		
										(
	Soil Extract	Volume:	(ui	_)	5		luot volu	me:		(uL)
				<u> </u>	NCENTRA		LINITO			
		~							•	
	CAS NO	J.	COMPOUN	נט) כ	/L or ug/Kg	3)	00/L	<u> </u>	Q	
	74-87	-3	Chloromet	hane	·· · · · ·		1	5	U	
	75-01		Vinyl Chlo				1	5	U	-
	74-83	•		hane				5	U	
	75-00	-3	Chloroetha	ine				5	U	
	67-64	-1	Acetone					10	U	
	75-35	-4	1,1-Dichlo	oethene				5	U	
	75-09	-2	Methylene	Chloride				5	U	1
	75-15	-0	Carbon Di	sulfide				5	U	
	75-34	-3	1,1-Dichlo	oethane				5	U	
	78-93	-3	2-Butanon					10	U	
	156-6	0-5	trans-1,2-0	Dichloroether	ne			5	U	]
,	67-66	-3	Chloroforn					5	U	
	71-55	-6		loroethane				5	U	
	The second se	-5		trachloride				5	<u> </u>	
	156-5			hloroethene	· · · · · · · · · · · · · · · · · · ·			5	<u> </u>	
	107-0		1,2-Dichlo	oethane				5	<u> </u>	
	71-43		Benzene					5	<u> </u>	_
	79-01		Trichloroé					5	<u> </u>	
	78-87		1,2-Dichlor				_	5	<u> </u>	
	75-27			loromethane	<u>}</u>			5	<u>U</u>	
	108-1			-Pentanone				10	<u> </u>	
		-01-5		hloropropen	e			5	<u> </u>	
	108-8		Toluene	N-1-1				5	<u>U</u>	
		-02-6		Dichloroprope	ene			5		
	79-00			loroethane				5	<u>U</u>	
	591-7		2-Hexanor					10		
	127-1		Tetrachlor	omomethane	<u></u>			5	<u>U</u>	
	<u>124-4</u> 108-9		Chloroben		5			<u>5</u>	U U	
	108-9		Ethylbenzo					<u> </u>		
	1330-		Xylenes (to					<u> </u>		
	100-4		Styrene					5		
	75-25		Bromoform	<u></u>				5	U U	
	79-34			trachloroetha			+	<u> </u>	U	
	<u>[13-34</u>	-0	1,1,2,2-10		AL 10			<u> </u>	<u> </u>	

14.40 is 3.0 is

FORM I VOA

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			1A				EPA S	AMPLE	NO.
	V	OLATILE O	RGANICS ANAL	YSIS DA	TA SH	EET			
Lab Name:	EA LAB	ORATORIES	3	Contrac	ct: <u>99</u>	0048	IR3	5-GW10	IW-99A
Lab Code:	EA ENG	G Cas	e No.:	SAS	No.:	S	DG No.:		
Matrix: (soil/							9900400		
	•						VC3A12		
			(g/ml) ML					27.0	
Level: (low/r	ned)	LOW			Date R	leceived:	1/21/99		
% Moisture:	not dec.				Date A	nalyzed:	2/3/99		
GC Column:	DB-62	4 ID: 0.2	5 (mm)				1.0		
Soil Extract \							me:		(uL)
	volume.		_ (uc)						(uL)
			CO	NCENTE	ATION	UNITS:			
CAS NO	ר	COMPC		L or ug/l				Q	
					ופי			ý.	
74-87-	-3	Chloro	methane				5	U	
75-01-	-4	Vinyl C	hloride				11		
74-83-	-9	Bromo	methane				5	U	
75-00-	-3	Chloro	ethane				5	U	
67-64-	-1	Acetor					10	U	
75-35-	-4	1,1-Dic	chloroethene				4	J	
75-09-	-2	Methyl	ene Chloride				5	U	
75-15-	-0	Carbo	n Disulfide				5	U	
75-34-	-3	1,1-Dic	chloroethane				5	U U	
78-93-	-3	2-Buta	- tota tonare commence				10	U	
156-60	0-5	trans-1	,2-Dichloroethen	e			33		
67-66-	-3	Chloro					5	U	
71-55-			richloroethane				5	U	
56-23-	-5		n Tetrachloride				5	U	-
156-59	9-2		-Dichloroethene				370	E	
107-06			chloroethane				5	<u> </u>	
71-43-		Benze					5_	<u> </u>	
79-01-			roéthene				280	E	
			hloropropane				5	<u> </u>	
75-27-			dichloromethane				5	<u> </u>	
108-10			yl-2-Pentanone			<u>.                                    </u>	10	<u> </u>	
10061			-Dichloropropene	<u>}</u>			5	<u> </u>	
108-88		Toluen					5_	U	
10061			,3-Dichloroprope	ene			5	<u> </u>	
79-00-			richloroethane				5	<u> </u>	_
591-78		2-Hexa					10	U	
127-18			hloroethene				5	U	
124-48			dibromomethane				5	U	
108-90			benzene			_	5	U	
100-4			enzene				5	U	
1330-2			es (total)				5	U	
100-42		Styren					5	U	
75-25-	*******	Bromo					5	U	
79-34-	-5		-Tetrachloroetha	ne			5	<u> </u>	

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				1A				EPA SA	AMPLE I	ΝΟ.
			OLATILE OR					IR35-	GW10IV	V-99ADL
			ORATORIES					_		
La	b Code:	EA ENC	G Case	No.:	SAS	i No.:	S	DG No.:		
Ma	atrix: (soil/	water)	WATER			Lab Sa	mple ID:	9900400	DL	
	-	-	5.0 (9	n/ml) ML				VC3A124		
				<u> </u>					12.0	
	vel: (low/r	•						1/21/99		
%	Moisture:	not dec.				Date Ar	nalyzed:	2/3/99		
GC	Column:	DB-62	4 ID: 0.25	(mm)				5.0		
So	il Extract \	/olume:		- Tul A				ime:		
00		volume.								(uL)
					CONCENT	RATION	UNITS:			
	CAS NO	<b>`</b>	COMPOU	ND	(ug/L or ug/				Q	
			00141 00		(ugit of ugi	197	<u></u>		ý.	
	74-87	-3	Chlorom	ethane				25	U	
	75-01-	-4	Vinyl Chl	oride				25	U	
	74-83-							25	j U	
	75-00-		Chloroet	hane			_	25	U	
	67-64		Acetone					50	U	
	75-35-							25	U	
	75-09-			e Chloride	)			25	U	
	75-15-		Carbon [					25	U	_
	75-34-							25	U	
	78-93-		2-Butanc					50	U	
	156-60				thene	<del></del>	ļ	23	JD	
	67-66-		Chlorofo					25	U	
	71-55-			chloroetha				25	U	_
	56-23-			etrachlori				25	<u>U</u>	
	107-06			oroethane	ene			350	D	
	71-43-		Benzene		<del></del>			<u>25</u> 25	U	
	79-01-		Trichloro					<u> </u>	U D	
	78-87-			oropropan	e			25	U	
	75-27-			chlorometh				25	U U	
	108-10			-2-Pentanc				50		
	10061			ichloropro				25	U U	
	108-88		Toluene				-	25	<u> </u>	-
	10061	····		-Dichlorop	ropene		-	25	U	
	79-00-			chloroetha				25	U	-
	591-78		2-Hexan					50	Ŭ	
	127-18			roethene				25	U	-
	124-48	3-1	Chlorodit	promometh	nane			25	U	_
	108-90	)-7	Chlorobe	nzene				25	U	
	100-41		Ethylben	zene				25	U	
	1330-2		Xylenes	(total)				25	U	
	100-42		Styrene					25	U	
	75-25-		Bromofor				<u> </u>	25	U	
	79-34-	5	<u>  1,1,2,2-T</u>	etrachloro	ethane			25	U	

				1A				EPA SA		10.
			VOLATILE ORG					IR3	85-GW6	1-99A
			ORATORIES					_ L		
`.	Lab Code:	EA ENC	G Case I	No.:	SAS	No.: _	S	DG No.:		
	Matrix: (soil/	water)	WATER			Lab Sa	ample ID:	9900401		
	Sample wt/v	ol:	5.0 (g	j/ml) ML		Lab Fi	le ID:	VC3A122	28.D	
	Level: (low/					Date F	Received:	1/21/99	· · · · · · · · · · · · · · · · · · ·	
	% Moisture:						Analyzed:			
	GC Column:	DB-62	24 ID: <u>0.25</u>	_ (mm)		Dilutio	n Factor:	1.0		
	Soil Extract	Volume:	(	uL)		Soil Al	liquot Volu	ıme:		(uL)
				CC	ONCENT	RATIO	N UNITS:			
	CAS NO	Э.	COMPOU	ND (u	g/L or ug/ł	<b>≺</b> g)	UG/L		Q	
	r		- 1			<u>.</u>			1	
	74-87		Chlorom					5	U	
	75-01		Vinyl Chl					5	U	
	74-83		Bromom					5	U	
•	75-00		Chloroet	nane				5	U	
	67-64		Acetone					10	<u> </u>	
	75-35			oroethene				5	U	_{
	75-09			e Chloride				5	U	
	75-15		Carbon [	oroethane				<u>5</u>	U U	_
	75-34 78-93		2-Butanc					10	U U	
	156-6			-Dichloroethe				5	U U	
	67-66		Chlorofo					5	U U	-1
	71-55			chloroethane				5	U U	
	56-23			Tetrachloride				5	U U	
	156-5			ichloroethene				32	<b>v</b>	
	107-0			oroethane				5	U	
	71-43		Benzene					5	Ū	-1
	79-01		Trichloro					4	J	
	78-87			oropropane				5	U	
	75-27			chloromethan	e			5	Ū	
	108-1	0-1		-2-Pentanone				10	U	
	10061	1-01-5	cis-1,3-D	ichloroproper	ne			5	U	
	108-8		Toluene					5	U	
		1-02-6		-Dichloroprop	pene			5	U	
	79-00			chloroethane	<u></u> ,			5	<u> </u>	
	591-7		2-Hexan					10	<u> </u>	
	127-1			proethene				5	U	
	124-4			bromomethan	10			5	<u>U</u>	
	108-9		Chlorobe					5	U	
	100-4		Ethylben					5	<u>U</u>	
	1330-	·	Xylenes	(total)				5	U	
	100-4		Styrene					5	<u>U</u>	
	75-25		Bromofo					5	<u>U</u>	
	79-34	-5	1,1,2,2-1	etrachloroeth	lane			5	U	

FORM I VOA

030067

					1A				EPA \$	SAMPL	E NO.	
			OLATILE O						I	R35-SV	V01-99	
			ORATORIE	S		Contrac		······	L			
L	ab Code:	EA ENC	G Cas	se No.: _		SAS	No.: _	S	SDG No.:			
М	latrix: (soil/	water)	WATER			i	Lab Sa	ample ID:	990040	2		
	•							•				
S	ample wt/v	01:	5.0	(g/ml)	ML	I	Lap Fi	le ID:	VC3A1	229.D	_	
L	evel: (low/r	med)	LOW	-		l	Date F	Received:	1/21/99			
%	6 Moisture:	not dec.				1	Date A	nalyzed:	2/3/99		_	
G	C Column:	DB-62	4 ID: 0.2	25 (mr	n)		Dilutio	n Factor:	1.0			
s	oil Extract V	Volume:		(uL)		į	Soil Al	iquot Volu	ıme:		 (uL	)
Ŭ		· o.u.i.or		_ ()							(aa	,
					CON	CENTR		N UNITS:				
	CAS NO	C	COMPO	סאווכ	(ua/)	or ug/H	(a)	UG/L		C	)	
	0/10/11	0.	oom (	50112	(09.5	or ugr	·9/	<u></u>			<b>L</b>	
	74-87	-3	Chlore	methane	<del>)</del>				5		J	
	75-01	-4	Vinyl	Chloride					5	ι	J	
	74-83	-9		omethane	3				5	l	J	
	75-00	-3	Chlore	bethane					5	l	J	
	67-64	-1	Aceto	ne					10	l	J	
	75-35	-4	1,1-Di	chloroeth	nene				5	ι	J	
	75-09	-2	Methy	lene Chl	oride			_	5	<u> </u>	J	
	75-15	-0	Carbo	n Disulfic	le				5	<u> </u>	J	
	75-34	-3	1,1-Di	chloroeth	nane				5	l	J	
	78-93	-3	2-Buta	anone					10	l	J	
	156-6	0-5	trans-	1,2-Dichl	oroethene				5	l	J	
·	67-66	-3	Chlore	oform					5		J	
	71-55	-6	1,1,1-	Trichloro	ethane				5	ι	J	
	56-23	-5	Carbo	n Tetrac	hloride				5	ι	J	
	156-5	9-2	cis-1,2	2-Dichlor	oethene				5	(	L	
	107-0	6-2	1,2-Di	chloroeth	nane				5	ι	J	
	71-43		Benze	ene					5	<u> </u>		
	79-01	-6	Trichle	oroethen	e				5	<u> </u>	J	
	78-87	-5	1,2-Di	chloropro	opane				5	L	J	
	75-27				methane				5	<u> </u>		
	108-1			hyl-2-Per					10		J	
		-01-5			opropene				5		J	
	108-8		Tolue						5		J	
		-02-6			oropropen	e			5		1 I	
	79-00			Trichloro	ethane				5		J	
	591-7			anone					10		J	
	127-1			chloroeth					5		J	
	124-4				methane				5		J	
	108-9			obenzene	)				5		J	
	100-4			enzene		· · · · · · · · · · · · · · · · · · ·			5		J	
	1330-			es (total)					5		J	
	100-4		Styrer						5		J	
	75-25		Brome						5	·····	J	
	79-34	-5	1,1,2,	2-Tetrack	nloroethan	e			5	(	J	

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	1A		EPA SA	MPLE NO.
N	OLATILE ORGANICS ANA	LYSIS DATA SHEET	IR3	5-SW02-99A
Lab Name: EA LAE	ORATORIES	Contract: 990048		
Lab Code: EA ENG	G Case No.:	SAS No.:	SDG No.:	
Matrix: (soil/water)	WATER	Lab Sample ID	9900403	
		-		· · · · · · · · · · · · · · · · · · ·
	5.0 (g/ml) <u>ML</u>	Lab File ID:	VC3A123	0.D
Level: (low/med)	LOW	Date Received	: <u>1/21/99</u>	
% Moisture: not dec.		Date Analyzed	: 2/3/99	
	24 ID: 0.25 (mm)	Dilution Factor		
Soil Extract Volume:		Soil Aliquot Vo		
Sui Exilaci volume.	(uc)		iume.	(uL)
	CC	NCENTRATION UNITS	•	
CAS NO.		g/L or ug/Kg) UG/L	•	0
CAS NO.				Q
74-87-3	Chloromethane		5	U
75-01-4	Vinyl Chloride		5	U
74-83-9	Bromomethane		5	U
75-00-3	Chloroethane		5	U
67-64-1	Acetone		10	U
75-35-4	1,1-Dichloroethene	- "H-mbi	5	U
75-09-2	Methylene Chloride		5	U
75-15-0	Carbon Disulfide		5	Ŭ
75-34-3	1,1-Dichloroethane		5	U
78-93-3	2-Butanone		10	U
156-60-5	trans-1,2-Dichloroethe	ne	5	U
67-66-3	Chloroform		5	U
71-55-6	1,1,1-Trichloroethane		5	U
56-23-5	Carbon Tetrachloride		5	U
156-59-2	cis-1,2-Dichloroethene		5	U
107-06-2	1,2-Dichloroethane		5	U
71-43-2	Benzene		5	U
79-01-6	Trichloroéthene		5	U
78-87-5	1,2-Dichloropropane		5	U
75-27-4	Bromodichloromethan	9	5	U
108-10-1	4-Methyl-2-Pentanone		10	U
10061-01-5	cis-1,3-Dichloropropen	e	5	U
108-88-3	Toluene		5	U
10061-02-6	trans-1,3-Dichloroprop	ene	5	U
79-00-5	1,1,2-Trichloroethane		5	U
591-78-6	2-Hexanone		10	U
127-18-4	Tetrachloroethene		5	U
124-48-1	Chlorodibromomethan	e	5	U
108-90-7	Chlorobenzene		5	U
100-41-4	Ethylbenzene		5	U
1330-20-7	Xylenes (total)		5	U
100-42-5	Styrene		5	U
75-25-2	Bromoform		5	U
79-34-5	1,1,2,2-Tetrachloroeth	ane	5	<u> </u>

	1A			MPLE NO.	
		ANALYSIS DATA SHEET	IR35	-GW64IW-99	<b>Э</b> А
	LABORATORIES				
Lab Code: EA	ENG Case No.:	SAS No.:	SDG No.:		
Matrix: (soil/wate	r) WATER	Lab Sample	D: 9900404		
Sample wt/vol:	5.0 (g/ml) ML	Lab File ID:	VC3A123	1.D	
	) LOW		ved: 1/21/99		
			zed: 2/3/99		
	<u>08-624</u> ID: <u>0.25</u> (mm)		tor: <u>1.0</u>		
Soil Extract Volu	me: (uL)	Soil Aliquot	Volume:	(uL)	
		CONCENTRATION UN			
CAS NO.	COMPOUND	(ug/L or ug/Kg) UG	/L	Q	
74-87-3	Chloromothana	·····	5	U	
75-01-4	Vinyl Chloride		<u> </u>	0	
74-83-9			5	U	
75-00-3	Chloroethane		5	U	
67-64-1	Acetone		10	U	
75-35-4		e	5	U	
75-09-2	Methylene Chloric	le	5	Ŭ	
75-15-0	Carbon Disulfide		5	Ŭ	
75-34-3		e	5	U	
78-93-3	2-Butanone		10	U	
156-60-5	trans-1,2-Dichloro	ethene	22		
67-66-3	Chloroform	\$	5	U	
71-55-6	1,1,1-Trichloroeth	ane	5	U	
56-23-5	Carbon Tetrachlor	ride	5	U	
156-59-2		hene	200		
107-06-2		e	5	U	
71-43-2	Benzene		5	<u>     U</u>	
79-01-6	Trichloroethene		110		
78-87-5	1,2-Dichloropropa		5	U	
75-27-4	Bromodichlorome		5	<u>     U                               </u>	
108-10-1	4-Methyl-2-Pentar		<u> </u>	<u>    U                                </u>	
10061-01-		opene	5	U	
<u>108-88-3</u> 10061-02-	6 Toluene 6 trans-1,3-Dichloro		<u> </u>	U U	
79-00-5	1,1,2-Trichloroeth		5	U U	
591-78-6	2-Hexanone		<u> </u>	U	
127-18-4	Tetrachloroethene		5	U U	
124-48-1	Chlorodibromome		5	U	
108-90-7	Chlorobenzene		5	U	
100-41-4	Ethylbenzene		5	U	
1330-20-7	·····		5	Ū	
100-42-5	Styrene		5	Ŭ	
75-25-2	Bromoform		5	U	
79-34-5	1,1,2,2-Tetrachlor	oethane	5	U	

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		1A			EPA SA		NO.
		VOLATILE ORGANICS ANAL			IR	35-SW0	3-99A
		BORATORIES			_ L		
•	Lab Code: EA EN	G Case No.:	SAS No.:	S	DG No.:		
	Matrix: (soil/water)	WATER	Lab S	Sample ID:	9900405		
				•			
		5.0 (g/ml) <u>ML</u>		File ID:		52.U	
	Level: (low/med)	LOW	Date	Received:	1/21/99		
	% Moisture: not dec.		Date	Analyzed:	2/3/99		
	GC Column: DB-62	24 ID: 0.25 (mm)	Diluti	on Factor:	1.0		
	Soil Extract Volume:		Soil /	Aliquet Velu			/ul \
	oon Exader volume.	(uc)	30ii 7	Aliquot Volu			(uL)
		00	NCENTRATIC				
	CAS NO.					0	
	UND NU.	COMPOUND (ug	/L or ug/Kg)	UG/L		Q	
	74-87-3	Chloromethane			5	U	
	75-01-4	Vinyl Chloride			5	U	
	74-83-9	Bromomethane			5	U	
	75-00-3	Chloroethane			5	U	
	67-64-1	Acetone			10	U	-1
	75-35-4	1,1-Dichloroethene			5	Ŭ	
	75-09-2	Methylene Chloride			5	U	-
	75-15-0	Carbon Disulfide			5	Ŭ	-1
	75-34-3	1,1-Dichloroethane			5	U	
	78-93-3	2-Butanone			10	U	
	156-60-5	trans-1,2-Dichloroethen	ne		5	U	-1
۹.	67-66-3	Chloroform			5	U	
	71-55-6	1,1,1-Trichloroethane			5	U	_
	56-23-5	Carbon Tetrachloride			5	U	7
	156-59-2	cis-1,2-Dichloroethene			5	U	
	107-06-2	1,2-Dichloroethane			5	U	
	71-43-2	Benzene			5	U	
	79-01-6	Trichloroéthene			5	<u> </u>	_
	78-87-5	1,2-Dichloropropane			5	U	
	75-27-4	Bromodichloromethane	•		5	U	_
	108-10-1	4-Methyl-2-Pentanone			10	<u> </u>	
	10061-01-5	cis-1,3-Dichloropropene	9		5	U	
	108-88-3	Toluene			5	U	_
	10061-02-6	trans-1,3-Dichloroprope			5	<u> </u>	4
	79-00-5	1,1,2-Trichloroethane			5	<u> </u>	_
	591-78-6	2-Hexanone			10	<u>U</u>	
	<u>127-18-4</u> 124-48-1	Tetrachloroethene Chlorodibromomethane	· · · · · · · · · · · · · · · · · · ·		5	<u> </u>	-
	108-90-7	Chlorobenzene		····	5	U	
	100-41-4	Ethylbenzene			<u>5</u> 5	<u> </u>	
	1330-20-7	Xylenes (total)			5 5	U U	
	100-42-5	Styrene	<u> </u>		5 5	<u>ປ</u> ປ	
	75-25-2	Bromoform	·····		5	<u> </u>	
	79-34-5	1,1,2,2-Tetrachioroetha			ວ 5	 ປ	
			<u></u>	1	<u>່</u> ບ	U	

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	1A		EPA SAMPLE NO.				
		VOLATILE ORGANICS ANAL			IR35	-GW65IV	V-99A
		BORATORIES			_ L		
•	Lab Code: EA EN	G Case No.:	SAS No.:	S	DG No.:		
	Matrix: (soil/water)			Sample ID:			
		5.0 (g/ml) ML		File ID:			
	Level: (low/med)	LOW		Received:			
	% Moisture: not dec.		Date	Analyzed:	2/3/99		
	GC Column: DB-62	24 ID: 0.25 (mm)	Diluti	ion Factor:	1.0		
	Soil Extract Volume:			Aliquot Volu			(uL)
	Soll Extract volume.	(uz)	00,	aiquot i oic			(44)
		CC	NCENTRATIO	ON UNITS:			
	CAS NO.		g/L or ug/Kg)			Q	
					;		
	74-87-3	Chloromethane			5	U	]
	75-01-4				5	U	_
	74-83-9	Bromomethane			5	U	_
	75-00-3	Chloroethane			5	U	1
	67-64-1	Acetone			10	<u>U</u>	
	75-35-4	1,1-Dichloroethene			5	<u>    U</u>	_
	75-09-2	Methylene Chloride			5	<u> </u>	-
	75-15-0				5	U	_
	75-34-3	1,1-Dichloroethane			5	U	_
	78-93-3	2-Butanone	··			<u> </u>	4
	156-60-5	trans-1,2-Dichloroethe	ne		5	<u>U</u>	
<b>N</b> .	67-66-3	Chloroform			5	<u> </u>	-{
	71-55-6	1,1,1-Trichloroethane			5	<u> </u>	-
	56-23-5	Carbon Tetrachloride			5	<u>U</u>	-
	156-59-2	cis-1,2-Dichloroethene	<u>}</u>		5	<u> </u>	-
	107-06-2	1,2-Dichloroethane	··· <u></u>		<u>5</u> 5	<u></u> U	-
	71-43-2				<u> </u>	U	-
	79-01-6	Trichloroéthene			<del>5</del>	<u> </u>	-
	78-87-5	1,2-Dichloropropane Bromodichloromethan	A		5	<u>U</u>	-
	<u>75-27-4</u> 108-10-1	4-Methyl-2-Pentanone			10	<u>U</u>	-
	10061-01-5	cis-1,3-Dichloroproper			5	<u> </u>	1
	108-88-3	Toluene	<u></u>		5	U U	-
	10061-02-6	trans-1,3-Dichloroprop	Dene		5	Ū	-1
	79-00-5	1,1,2-Trichloroethane			5	U	-1
	591-78-6	2-Hexanone			10	U	-1
	127-18-4	Tetrachloroethene			5	U	1
	124-48-1	Chlorodibromomethan	ne		5	U	1
	108-90-7	Chlorobenzene			5	U	1
	100-41-4	Ethylbenzene			5	U	
	1330-20-7	Xylenes (total)			5	U	
	100-42-5	Styrene			5	U	
	75-25-2	Bromoform			5	U	
	79-34-5	1,1,2,2-Tetrachloroeth	iane		5	U	
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	1A VOLATILE ORGANICS ANA	LYSIS DATA SH	IEET	EPA SA	MPLE	NO.
	BORATORIES			IR35	-GW55	5IW-99A
	G Case No.:			DG No.:		
			ample ID:			
Matrix: (soil/water)			•			
Sample wt/vol:	5.0 (g/ml) <u>ML</u>	Lab F	ile ID:	VC3A123	14.D	
Level: (low/med)	LOW	Date	Received:	1/21/99		
% Moisture: not dec.		Date	Analyzed:	2/3/99		
GC Column: DB-6	24 ID: 0.25 (mm)	Dilutic	on Factor:	1.0		
Soil Extract Volume:			liquot Volu			(uL)
		ONCENTRATIO				
CAS NO.	COMPOUND (u	ıg/L or ug/Kg)	UG/L		Q	
74-87-3	Chloromethane			5	U	
75-01-4	Vinyl Chloride			36	- <u> </u>	
74-83-9	Bromomethane			5	U	
75-00-3	Chloroethane			5	Ŭ	
67-64-1	Acetone			10	U	
75-35-4	1,1-Dichloroethene			6		
75-09-2	Methylene Chloride			5	U	
75-15-0	Carbon Disulfide			5	U	
75-34-3	1,1-Dichloroethane			5	U	
78-93-3	2-Butanone			10	U	
156-60-5	trans-1,2-Dichloroeth	ene		180		
67-66-3	Chloroform			5	U	
71-55-6	1,1,1-Trichloroethane	;		5	U	_]
56-23-5	Carbon Tetrachloride			5	U	
156-59-2	cis-1,2-Dichloroether	10		750	E	
107-06-2	1,2-Dichloroethane			5	U	
71-43-2	Benzene			5	U	
79-01-6	Trichloroéthene			820	E	
78-87-5	1,2-Dichloropropane			5	<u> </u>	
75-27-4	Bromodichlorometha			5	<u>U</u>	
108-10-1	4-Methyl-2-Pentanon		_	10	<u>U</u>	
10061-01-5	cis-1,3-Dichloroprope	ene		5	<u>U</u>	
108-88-3	Toluene			5	<u> </u>	
10061-02-6	trans-1,3-Dichloropro			5		
79-00-5	1,1,2-Trichloroethane	;		5		
591-78-6	2-Hexanone			<u> </u>		
127-18-4	Tetrachloroethene			55	<u>บ</u> บ	
124-48-1	Chlorodibromometha Chlorobenzene			<u>5</u>	υ υ	
<u>108-90-7</u> 100-41-4	Ethylbenzene			<u> </u>	U U	
1330-20-7	Xylenes (total)			<u> </u>	U U	
100-42-5	Styrene			<u> </u>	U U	
75-25-2	Bromoform			<u> </u>	U	
79-34-5	1,1,2,2-Tetrachloroet			10	+ <b>-</b>	

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	1A		EPA SAMPLE NO.			
		VOLATILE ORGANICS ANA		IR35-GW	55IW-99ADL	
	Lab Name: EA LAE	BORATORIES	Contract: <u>990048</u>	_ [		
4	Lab Code: EA EN	G Case No.:	SAS No.: S	DG No.:		
	Matrix: (soil/water)		Lab Sample ID:			
		···· · · · · · · · · · · · · · · · · ·				
		5.0 (g/ml) <u>ML</u>			• ••	
	Level: (low/med)	LOW	Date Received:	1/21/99		
	% Moisture: not dec.		Date Analyzed:	2/3/99		
		24 ID: 0.25 (mm)	Dilution Factor:	10.0		
	Soil Extract Volume:	(UL)	Soil Aliquot Volu	ime:	(uL)	
	CONCENTRATION UNITS:					
	040.10				•	
	CAS NO.	COMPOUND (u	g/L or ug/Kg) UG/L		Q	
	74-87-3	Chloromethane		50	U	
	75-01-4	Vinyl Chloride		50	U	
	74-83-9	Bromomethane		50	Ŭ	
	75-00-3	Chloroethane		50	U	
	67-64-1	Acetone		100	U	
	75-35-4	1,1-Dichloroethene		50	U	
	75-09-2	Methylene Chloride		50	U	
	75-15-0	Carbon Disulfide		50	U	
	75-34-3	1,1-Dichloroethane		50	υ	
	78-93-3	2-Butanone		100	U	
	156-60-5	trans-1,2-Dichloroethe	ene	150	D	
	67-66-3	Chloroform		50	U	
	71-55-6	1,1,1-Trichloroethane		50	U	
	56-23-5	Carbon Tetrachloride		50	U	
	156-59-2	cis-1,2-Dichloroethene	э	960	D	
	107-06-2	1,2-Dichloroethane		50	U	
	71-43-2	Benzene		50	<u>U</u>	
	79-01-6	Trichloroethene		920	D	
	78-87-5	1,2-Dichloropropane		50	U	
	75-27-4	Bromodichloromethan		50	U	
	108-10-1	4-Methyl-2-Pentanone		100	U	
	10061-01-5	cis-1,3-Dichloroproper		50	U	
	108-88-3	Toluene		50	U	
	<u>10061-02-6</u> 79-00-5	trans-1,3-Dichloroprop	5115	<u> </u>	UU	
		1,1,2-Trichloroethane 2-Hexanone		100	U	
	<u>591-78-6</u> 127-18-4	Tetrachloroethene		50	U	
	124-48-1	Chlorodibromomethan		50	U	
	108-90-7	Chlorobenzene	<u> </u>	50	U	
	100-41-4	Ethylbenzene		50	U	
	1330-20-7	Xylenes (total)		50	U	
	100-42-5	Styrene		50	U	
	75-25-2	Bromoform		50	U	
	79-34-5	1,1,2,2-Tetrachloroeth	ane	50	U	
			· · · · · · · · · · · · · · · · · · ·	<u>~ ~ _</u>	_ <del>_</del>	

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SAMPLE NO.

Lab Name: EA Labor	atories	IR35-GW31IW-99A
-oject No.:		
Matrix: (soii/water)	WATER	Lab Sample ID: 9900390
Sample wt/vol:	0.10 (g/mL) mL	Lab File ID: LC3F771.D
Level: (low/med)	LOW	Date Sampled: 1/20/99
% Moisture: 0		Date Extracted: NA
Extract Volume:	<u>    0.10    (</u> mL)	Date Analyzed: 01/22/99
Injection Volume:	<u>100(uL)</u>	Dilution Factor:1

### **Concentration Units:**

Compound	(mg/L or mg/Kg)	_mg/L	Q
NITRATE-N	0.1	10	U
SULFATE	1	15	E
			A 62161

Results based on single column analysis.

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### FORM I ANIONS METHOD 300.0

Lab Name: EA Labor	ratories	IR35-GW31IW-99ADL
ject No.:		
Matrix: (soil/water)	WATER	Lab Sample ID: <u>9900390X2</u>
Sample wt/vol:	0.10 (g/mL) mL	Lab File ID: LC3G018.D
Level: (low/med)	LOW	Date Sampled: 1/20/99
% Moisture: 0		Date Extracted:NA
Extract Volume:	<u>    0.10    (mL)</u>	Date Analyzed: 02/12/99
Injection Volume:	100(uL)	Dilution Factor: 2

Concentration Units:			
Compound	(mg/L or mg/Kg)	_mg/L	Q
NITRATE-N	0.2	8	
SULFATE	1	4	

Results based on single column analysis.

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## FORM I ANIONS METHOD 300.0

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SAMPLE NO.

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	METHOD 300.0 ANION ANAL	YSIS DATA SHEET
Lab Name: EA Labor	ratories	IR35-GW31IW-99ADI
nject No.:		
Matrix: (soil/water)	WATER	Lab Sample ID: <u>9900390X2</u>
Sample wt/vol:	0.10(g/mL)	Lab File ID: LC3G018.D
Level: (low/med)	LOW	Date Sampled: 1/20/99
% Moisture: 0		Date Extracted: NA
Extract Volume:	<u>    0.10    (mL)</u>	Date Analyzed: 02/12/99
Injection Volume:	100 (uL)	Dilution Factor: 2

Concentration Units:				
Compound	(mg/L or mg/Kg)	mg/L	Q	
NITRATE-N	0.	28		
SULFATE				

Results based on single column analysis.

FORM I ANIONS METHOD 300.0

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SAMPLE NO.

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				IR35-GW14IW-99A
Lab Name: EA Labora				L
oject No.:	<u> </u>			
Matrix: (soil/water)	WATER		Lab Sample ID	0: 9900391
Sample wt/vol:	<u>0.10 (g/mL)</u>	mL	Lab File I	): <u>LC3F772.D</u>
Level: (low/med)	LOW		Date Sampled	i: <u>1/20/99</u>
% Moisture: 0	_		Date Extracted	1: <u>NA</u>
Extract Volume:	0.10 (mL)		Date Analyzed	1: 01/22/99
Injection Volume:	100(uL)		Dilution Factor	:

**Concentration Units:** 

Compound	(mg/L or mg/Kg)	mg/L	Q
NITRATE-N	0.10		U
SULFATE	10		

Results based on single column analysis.

FORM I ANIONS METHOD 300.0

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SAMPLE NO.

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		- 200 0 ANI	1 ON ANALYSIS DATA SHEET	SAMPLE NO.
	METHO	J 300.0 ANI	UN ANALISIS DATA SHEET	IR35-GW14 - 14 4 IR35-GW14IW-99A-
Lab Name: EA Labor	atories			
•oject No.:				
Matrix: (soil/water)	WATER		Lab Sample I	D: 9900392
Sample wt/vol:	(g/mL)	mL.	Lab File I	D: LC3F773.D
Level: (low/med)	LOW		Date Sample	d: <u>1/20/99</u>
% Moisture: 0			Date Extracte	d: <u>NA</u>
Extract Volume:	(mL)		Date Analyze	d: 01/22/99
Injection Volume:	100 (uL)		Dilution Facto	or: 1

### **Concentration Units:**

Compound	(mg/L or mg/Kg)	_mg/L	Q
NITRATE-N	0.	10	U
SULFATE		20	E

Results based on single column analysis.

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### FORM I ANIONS METHOD 300.0

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Lab Name: EA Labor		R35-GW14IW-99ADL 유민이지 ANALTSIS DATA SHEET 대응하다 이번 14IW-99ADL
Matrix: (soil/water)	WATER	Lab Sample ID: 9900392X3
Sample wt/vol:	0.10 (g/mL) mL	Lab File ID: LC3G019.D
Level: (low/med)	LOW	Date Sampled: 1/20/99
% Moisture: 0	_	Date Extracted: NA
Extract Volume:	<u>    0.10    (mL)</u>	Date Analyzed: 02/12/99
Injection Volume:	100(uL)	Dilution Factor: 3

	Concentration Units:	
Compound	(mg/L or mg/Kg) mg/L	Q
NITRATE-N	0.30	U
SULFATE	17	<u> </u>
		ASY CLIL SY

Results based on single column analysis.

FORM I ANIONS METHOD 300.0

Lab Name: <u>EA Labor</u>	ratories	IR35-GW31-99A
oject No.:		
Matrix: (soil/water)	WATER	Lab Sample ID: <u>9900393</u>
Sample wt/vol:	0.10 (g/mL) mL	Lab File ID: LC3F774.D
Level: (low/med)	LOW	Date Sampled: 1/20/99
% Moisture: 0		Date Extracted: NA
Extract Volume:	0.10(mL)	Date Analyzed: 01/22/99
Injection Volume:	100 (uL)	Dilution Factor: 1

#### **Concentration Units:**

Compound	(mg/L or mg/Kg)	_mg/L	Q
NITRATE-N		1.8	
SULFATE		34	E

Results based on single column analysis.

FORM I ANIONS METHOD 300.0

SAMPLE NO.

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SAMPLE NO.

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	METHOD	300.0 ANION A	NALISIS DATA SHEET	IR35-GW31-99ADL
Lab Name: EA Labora	atories			
Dject No.:				
Matrix: (soil/water)	WATER		Lab Sample ID	: 9900393X5
Sample wt/vol:	0.10 (g/mL)	mL	Lab File ID	: <u>LC3G020.D</u>
Level: (low/med)	LOW		Date Sampled	: 1/20/99
% Moisture: 0			Date Extracted	: <u>NA</u>
Extract Volume:	0.10 (mL)		Date Analyzed	: 02/12/99
Injection Volume:	100 (uL)		Dilution Factor	5

	Concentration U	Inits:		
Compound	(mg/L or mg/Kg)	_mg/L	Q	
NITRATE-N		1.9	$\mathbf{b}$	
SULFATE		36	$\square$	
			AH 021	11.99

Results based on single column analysis.

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Lab Name: <u>EA Labo</u>	ratories	IR35-GW62-99A
oject No.:		
Matrix: (soil/water)	WATER	Lab Sample ID: 9900395
Sample wt/vol:	0.10(g/mL)L	Lab File ID: LC3F775.D
Level: (low/med)	LOW	Date Sampled: 1/20/99
% Moisture: 0		Date Extracted: NA
Extract Volume:	(mL)	Date Analyzed: 01/22/99
Injection Volume:	100(uL)	Dilution Factor: 1

	Concentration Units:	
Compound	(mg/L or mg/Kg)	_mg/LC
NITRATE-N	0.10	
SULFATE	14	

Results based on single column analysis.

FORM I ANIONS METHOD 300.0

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SAMPLE NO.

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	METHOD 300.0 ANIO	IR35-GW62-99ADL
Lab Name: EA Labor	atories	
oject No.:	_	
Matrix: (soil/water)	WATER	Lab Sample ID: <u>9900395X2</u>
Sample wt/vol:	0.10 (g/mL) mL	Lab File ID: LC3G021.D
Level: (low/med)	LOW	Date Sampled: 1/20/99
% Moisture: 0		Date Extracted: NA
Extract Volume:	<u>    0.10    (</u> mL)	Date Analyzed: 02/12/99
Injection Volume:	100(uL)	Dilution Factor: 2

O a sum a sum d		
Compound	(mg/L or mg/Kg)mg/L	Q
NITRATE-N	0.20	U
SULFATE	14	<u> </u>

Results based on single column analysis.

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FORM I ANIONS METHOD 300.0

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SAMPLE NO.

Lab Name: EA Labora		IR35-GW40IW-99A
ject No.:	_	
Matrix: (soil/water)	WATER	Lab Sample ID: <u>9900396</u>
Sample wt/vol:	0.10 (g/mL) <u>mL</u>	Lab File ID: LC3F776.D
Level: (low/med)	LOW	Date Sampled: 1/20/99
% Moisture: 0	_	Date Extracted: NA
Extract Volume:	<u> </u>	Date Analyzed: 01/22/99
Injection Volume:	100(uL)	Dilution Factor: 1

	Concentration Units:			
Compound	(mg/L or mg/Kg)	_mg/L	Q	
NITRATE-N	0.10		U	
SULFATE	17		Ē	
			All 1216 43	

Results based on single column analysis.

### FORM I ANIONS METHOD 300.0

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Lab Name: EA Labo	ratories	IR35-GW40IW-99ADL
Matrix: (soil/water)	WATER	Lab Sample ID: <u>9900396X2</u>
Sample wt/vol:	0.10 (g/mL) mL	Lab File ID: LC3G022.D
Level: (low/med)	LOW	Date Sampled: 1/20/99
% Moisture: 0		Date Extracted: NA
Extract Volume:	<u>0.10 (</u> mL)	Date Analyzed: 02/12/99
Injection Volume:	<u>    100    (uL)</u>	Dilution Factor: 2

	Concentration Unit	s:		
Compound	(mg/L or mg/Kg)	_mg/L	Q	
NITRATE-N	0.2	20	U	7
SULFATE	1	6	D	1
·			All 62	1499

Results based on single column analysis.

#### FORM I ANIONS METHOD 300.0

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SAMPLE NO.

		IR35-GW43IW-99A
Lab Name: EA Labor	atories	
	_	
Matrix: (soil/water)	WATER	Lab Sample ID: <u>9900397</u>
Sample wt/vol:	0.10 (g/mL) mL	Lab File ID: LC3F777.D
Level: (low/med)	LOW	Date Sampled: 1/20/99
% Moisture: 0		Date Extracted: NA
Extract Volume:	<u>    0.10    (</u> mL)	Date Analyzed: 01/22/99
Injection Volume:	(uL)	Dilution Factor: 1

**Concentration Units:** 

Compound	(mg/L or mg/Kg)	mg/L	Q
NITRATE-N	0.1	0	U
SULFATE	3	7	E

Results based on single column analysis.

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# FORM I ANIONS METHOD 300.0

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SAMPLE NO.

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# Concentration Units:

Compound	(mg/L or mg/Kg)	mg/L	Q	
NITRATE-N	0.5	0	U	
SULFATE	3	5		
· · ·			_\$4 i2	21499

Results based on single column analysis.

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SAMPLE NO.

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Lab Name: EA Labo	ratories	IR35-GW63IW-99A
oject No.:		
Matrix: (soil/water)	WATER	Lab Sample ID: 9900398
Sample wt/vol:	0.10 (g/mL) mL	Lab File ID: LC3F778.D
Level: (low/med)	LOW	Date Sampled: 1/20/99
% Moisture: 0		Date Extracted: NA
Extract Volume:	(mL)	Date Analyzed: 01/22/99
Injection Volume:	100 (uL)	Dilution Factor: 1

**Concentration Units:** 

Compound	(r	ng/L or mg/Kg)		Q
NITRATE-N	·	O.	.10	U
SULFATE			2.3	

Results based on single column analysis.

Lab Name: EA Labo	ratories	IR35-GW10-99A
oject No.:		
Matrix: (soil/water)	WATER	Lab Sample ID: <u>9900399</u>
Sample wt/vol:	0.10 (g/mL) <u>mL</u>	Lab File ID: LC3F779.D
Level: (low/med)	LOW	Date Sampled: 1/20/99
% Moisture: 0		Date Extracted: NA
Extract Volume:	<u>    0.10    (mL)</u>	Date Analyzed: 01/22/99
Injection Volume:	100 (uL)	Dilution Factor:1

### **Concentration Units:**

Compound	(mg/L or mg/Kg)	mg/L	Q
NITRATE-N	0	.10	U
SULFATE		27	Е

Results based on single column analysis.

### FORM I ANIONS METHOD 300.0

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SAMPLE NO.

1 METHOD 300.0 ANION ANALYSIS DATA SHEET

Lab Name: EA Labor	ratories	IR35-GW10-99ADL
roject No.:		
Matrix: (soil/water)	WATER	Lab Sample ID: 9900399X3
Sample wt/vol:	0.10 (g/mL) <u>mL</u>	Lab File ID: LC3G024.D
Level: (low/med)	LOW	Date Sampled: 1/20/99
% Moisture: 0		Date Extracted: NA
Extract Volume:	<u>    0.10    (mL)</u>	Date Analyzed: 02/12/99
Injection Volume:	100(uL)	Dilution Factor: 3

Concentration Units:				
Compound	(mg/L or mg/Kg)	_mg/L	Q	
NITRATE-N	- 0.	30	U	
SULFATE		23	<i>b</i>	
			14/ 02	1699

Results based on single column analysis.

SAMPLE NO.

IR35-GW10IW-99A

Lab Name: EA Labor	atories	
oject No.:		
Matrix: (soil/water)	WATER	Lab Sample ID: 9900400
Sample wt/vol:	<u>    0.10    (g/mL)     mL                             </u>	Lab File ID: LC3F780.D
Level: (low/med)	LOW	Date Sampled: 1/20/99
% Moisture: 0		Date Extracted: NA
Extract Volume:	<u> </u>	Date Analyzed: 01/22/99
Injection Volume:	100 (uL)	Dilution Factor:1

**Concentration Units:** 

Compound	(mg/L or mg/Kg)	_mg/L	Q	
NITRATE-N	0.1	10	U	]
SULFATE	4	.9		]

Results based on single column analysis.

SAMPLE NO.

IR35-GW61-99A

Lab Name: EA Labora	atories	
oject No.:	_	
Matrix: (soil/water)	WATER	Lab Sample ID: 9900401
Sample wt/vol:	0.10 (g/mL) <u>mL</u>	Lab File ID: LC3F783.D
Level: (low/med)	LOW	Date Sampled: 1/20/99
% Moisture: 0		Date Extracted: NA
Extract Volume:	0.10 (mL)	Date Analyzed: 01/22/99
Injection Volume:	100 (uL)	Dilution Factor: 1

**Concentration Units:** 

Compound	(mg/L or mg/Kg)	mg/L	Q
NITRATE-N	·	0.10	U
SULFATE		10	

Results based on single column analysis.

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Lab Name: EA Labo	ratories	IR35-GW64IW-99A
Matrix: (soil/water)	WATER	Lab Sample ID: 9900404
Sample wt/vol:	0.10 (g/mL) mL	Lab File ID: LC3F784.D
Level: (iow/med)	LOW	Date Sampled: 1/20/99
% Moisture: 0		Date Extracted: NA
Extract Volume:	0.10(mL)	Date Analyzed: 01/22/99
Injection Volume:	100 (uL)	Dilution Factor: 1

### **Concentration Units:**

Compound	(mg/L or mg/Kg)	_mg/L	Q
NITRATE-N	0.1	10	U
SULFATE	7	.7	

Results based on single column analysis.

# FORM I ANIONS METHOD 300.0

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IR35-GW65IW-99A Lab Name: EA Laboratories . pject No.: Lab Sample ID: 9900406 Matrix: (soil/water) WATER Lab File ID: LC3F785.D Sample wt/vol: (g/mL) 0.10 mL Date Sampled: 1/20/99 (low/med) LOW Level: 0 Date Extracted: NA % Moisture: Date Analyzed: 01/22/99 Extract Volume: 0.10 (mL) Dilution Factor: 1 100 (uL) **Injection Volume:** 

#### Concentration Units:

Compound	(mg/L or mg/Kg) mg/L	Q
NITRITE-N	0.10	U
NITRATE-N	0.10	U
SULFATE	2.6	

Results based on single column analysis.

#### FORM I ANIONS METHOD 300.0

		IR35-GW55IW-99A
Lab Name: EA Labora	tories	
oject No.:	_	
Matrix: (soil/water)	WATER	Lab Sample ID: 9900407
Sample wt/vol:	(g/mL)	Lab File ID: LC3F789.D
Level: (low/med)	LOW	Date Sampled: 1/20/99
% Moisture:0	_	Date Extracted: NA
Extract Volume:	0.10 (mL)	Date Analyzed: 01/22/99
Injection Volume:	100(uL)	Dilution Factor: 1

	Concentration Units:			
	Compound	(mg/L or mg/Kg)	_mg/L	Q
<b></b>	NITRATE-N	0.	42	
	SULFATE		29	E

Results based on single column analysis.

### FORM I ANIONS METHOD 300.0

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Lab Name: EA Labor	atories	IR35-GW55IW-99AD
Dject No.:	-	
Matrix: (soil/water)	WATER	Lab Sample ID: 9900407X5
Sample wt/vol:	0.10 (g/mL) <u>mL</u>	Lab File ID: LC3G025.D
Level: (low/med)	LOW	Date Sampled: 1/20/99
% Moisture: 0	-	Date Extracted: NA
Extract Volume:	<u> </u>	Date Analyzed: 02/12/99
Injection Volume:	100 (uL)	Dilution Factor: 5

#### **Concentration Units:**

Compound	(mg/L or mg/Kg)	g/LQ
NITRATE-N	0.50	U
SULFATE	26	<u>b</u>

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Results based on single column analysis.

#### FORM I SAMPLE ANALYSIS RESULTS

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Lab Name: EA Laboratories SAS Case No.: 990048 E Sample No.: IR35GW65IW99 Sample matrix: WATER Total Solids: % Contract: BAKER CAMP SDG No.: 9900406 Lab Sample ID No.: 9900406 Date Received: 01/21/99

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Lab	Parameter	Sample	Concentration	Analyzed
ID		Conc.	Units	Date
9900406	AMMONIA	<0.100	mg/L	02/02/99
	ORGANIC NITROGEN	<0.010	mg/L	02/11/99
	TKN	<0.250	mg/L	02/10/99
	TOC	<1.0	mg/L	01/26/99

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La<sup>r</sup> ne: EA Laboratories SA e No.: 990048 EPA Sample No.: IR35GW65IW99 Sample matrix: WATER Total Solids: % Contract: BAKER CAMP SDG No.: 9900406 Lab Sample ID No.: 9900406 Date Received: 01/21/99

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Lab ID	Parameter	Sample Conc.	Concentration Units	Analyzed Date
<b>9</b> 900406	5 AMMONIA	<0.100	mg/L	02/02/99
	ORGANIC NITROGEN	<0.010	mg/L	02/11/99
	ORTHO PHOS	0.193	mg/L	01/22/99
	TKN	<0.250	mg/L	02/10/99
	TOC	<1.0	mg/L	01/26/99

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SAMPLE NAME : 9900390

IRES-GNBILW-99A ID#: 9901261-01A

#### Modified Method RSK-175 GC/FID

File Name:1012714Date of Collection: 1/20/99Dil. Factor:1.0Date of Analysis: 1/27/99
Dimitation - Duccor Analysis, Inzites - Duccor Analysis, Inzites

Compound	Det. Limit (uG/mL)	Amount (uG/mL)
Methane	0.010	0.20
Ethane	0.010	Not Detected
Ethene	0.010	Not Detected

Container Type: VOA Vial

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SAMPLE NAME : 9900390 Duplicate

ID#: 9901261-01AA 1835 - GW 311W - 99A

## Modified Method RSK-175 GC/FID

File Name: 1	
	012715 Date of Collection: 1/20/99
	012715 Date of Collection: 1/20/99
Dil. Factor:	1.0 Date of Analysis: 1/27/99

Compound	Det. Limit (uG/mL)	Amount (uG/mL)
Methane	0.010	0.22
Ethane	0.010	Not Detected
Ethene	0.010	Not Detected

AIR TOXICS LTD. SAMPLE NAME: 9900391 IR 35-GW14IW-99A

ID#: 9901261-02A

# Modified Method RSK-175 GC/FID

File Name: 1012716 Date of Collection: 1/20/99
File Name: 1012716 Date of Collection: 1/20/99
File Name: 1012716 Date of Collection: 1/20/99
Dil Eactor: 1.0 Date of Analysis: 1/27/99
Dil, Factor: 1.0 Date of Analysis: 1/2//99

Compound	Det. Limit (uG/mL)	Amount (uG/mL)
Methane	0.010	0.65
Ethane	0.010	Not Detected
Ethene	0.010	Not Detected

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SAMPLE NAME : 9900392

ID#: 9901261-03A IR35-GW14-99A

#### Modified Method RSK-175 GC/FID

Compound	Det. Limit (uG/mL)	Amount (uG/mL)
Methane	0.010	0.48
Ethane	0.010	Not Detected
Ethene	0.010	Not Detected

SAMPLE NAME : 9900393

ID#: 9901261-04A 1835-GW31-99A

# Modified Method RSK-175 GC/FID

File Name: 1012718 Date of Collection: 1/20/99
Dil. Factor: 1.0 Date of Analysis: 1/27/99
Dil. Factor: 1.0 Date of Analysis: 1/27/99
Diff. ( Botor)

Compound	Det. Limit (uG/mL)	Amount (uG/mL)
Methane	0.010	0.095
Ethane	0.010	Not Detected
Ethene	0.010	Not Detected

SAMPLE NAME : 9900394

ID#: 9901261-05A JR35 TBOL-19A

#### Modified Method RSK-175 GC/FID

File Name: Date of Collection: 1/20/99
Dil. Factor: 1.0 Date of Analysis: 1/27/99

Compound	Det. Limit (uG/mL)	Amount (uG/mL)
Methane	0.010	Not Detected
Ethane	0.010	Not Detected
Ethene	0.010	Not Detected

SAMPLE NAME : 9900395

الالقا المتعادية 
ID#: 9901261-06A IR35-6W62 97A

### Modified Method RSK-175 GC/FID

File Name: 1012720 Date of Collection: 1/20/99
File Name: 1012720 Date of Collection: 1/20/99
Dil Factor: 1.0 Date of Analysis: 1/27/99
Dil. Factor: 1.0 Date of Analysis: 1/27/99

Compound	Det. Limit (uG/mL)	Amount (uG/mL)
Methane	0.010	0.36
Ethane	0.010	Not Detected
Ethene	0.010	Not Detected

# SAMPLE NAME: 9900396 JR35-6W4DIW-MA

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#### ID#: 9901261-07A

#### Modified Method RSK-175 GC/FID

File Name: 1012723 Date of Collection: 1/20/99	
Dil. Factor: 1.0 Date of Analysis: 1/27/99	
Dil. Factor: 1.0 Date of Analysis: 1/27/99	

Compound	Det. Limit (uG/mL)	Amount (uG/mL)
Methane	0.010	0.016
Ethane	0.010	Not Detected
Ethene	0.010	Not Detected

SAMPLE NAME : 9900397

ID#: 9901261-08A IR35-6WH3IN-91A

### Modified Method RSK-175 GC/FID

File Name:   1012724   Date of Collection: 1/20/99     Dil. Factor:   1.0   Date of Analysis: 1/27/99	
	2 2 - 2 C

Compound	Det. Limit (uG/mL)	Amount (uG/mL)
Methane	0.010	0.070
Ethane	0.010	Not Detected
Ethene	0.010	Not Detected

SAMPLE NAME : 9900398

ID#: 9901261-09A IR35-GW631W-99A

### Modified Method RSK-175 GC/FID

	a la constante de la constante
File Name: 1012725 Date	of Collection: 1/20/99
ino riduito.	7 Ochcollon. 1720/33
Dil. Factor: 1.0	of Analysis: 1/27/99

Compound	Det. Limit (uG/mL)	Amount (uG/mL)
Methane	0.010	0.010
Ethane	0.010	Not Detected
Ethene	0.010	Not Detected

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SAMPLE NAME : 9900399

10#:9901261-10A IR35-GWID-99A

#### Modified Method RSK-175 GC/FID

Compound	Det. Limit (uG/mL)	Amount (uG/mL)
Methane	0.010	0.071
Ethane	0.010	Not Detected
Ethene	0.010	Not Detected

SAMPLE NAME : 9900400

ID#: 9901261-11A 2835-GWIOIW-99A

### Modified Method RSK-175 GC/FID

File Name: 1012727 Date of Collection: 1/	
File Name: 1012727 Date of Collection: 1/	
File Name: 1012727 Date of Collection: 1/	
Dil. Factor: 1.0 Date of Analysis: 1/27	
Dil. Factor: 1.0 Date of Analysis: 1/27	

Compound	Det. Limit (uG/mL)	Amount (uG/mL)
Methane	0.010	2.4
Ethane	0.010	Not Detected
Ethene	0.010	Not Detected

**Container Type: VOA Vial** 

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SAMPLE NAME : 9900401

ID#: 9901261-12A IR35-GNG1-99A

#### Modified Method RSK-175 GC/FID

	No. of the second se	
File Name:	1012728	Date of Collection: 1/20/99
The reamon	AND A DECEMBER OF A DECEMBER O	
		<b>D 1 1 1 1 1 1 1 1 1 1</b>
Dil. Factor:	1.0	Date of Analysis: 1/27/99
Dirtiadiat		

Compound	Det. Limit (uG/mL)	Amount (uG/mL)
Methane	0.010	0.093
Ethane	0.010	Not Detected
Ethene	0.010	Not Detected

SAMPLE NAME : 9900404

ID#: 9901261-13A 1835 - GW645W-99A

### Modified Method RSK-175 GC/FID

File Name: 1012729	Date of Collection: 1/20/99
Dil. Factor: 1.0	Date of Analysis: 1/27/99

Compound	Det. Limit (uG/mL)	Amount (uG/mL)
Methane	0.010	0.020
Ethane	0.010	Not Detected
Ethene	0.010	Not Detected

SAMPLE NAME : 9900406

ID#: 9901261-14A JR35-GW65IW-99A

### Modified Method RSK-175 GC/FID

	Date of Collection: 1/20/99
File Name: 1012730	
File Name: 1012730	
Dil. Factor: 1.0	Date of Analysis: 1/27/99

Compound	Det. Limit (uG/mL)	Amount (uG/mL)
Methane	0.010	Not Detected
Ethane	0.010	Not Detected
Ethene	0.010	Not Detected

SAMPLE NAME : 9900407

ID#: 9901261-15A IRB5-6W551W-77K

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### Modified Method RSK-175 GC/FID

		Collection: 1/20/99
	1012731	
File Name:		
Dil. Factor:		Analysis: 1/27/99

Compound	Det. Limit (uG/mL)	Amount (uG/mL)
Methane	0.010	0.066
Ethane	0.010	Not Detected
Ethene	0.010	Not Detected