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MONITORING REPORT

OPERABLE UNIT NO. 5 - SITE 2 MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA

REPORTING PERIOD APRIL 1999 – SEPTEMBER 1999

CONTRACT TASK ORDER 0367

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TABLE OF CONTENTS

	<u>Page</u>
MONITORING REPORT	1
Groundwater Elevation and Flow Direction	1
Field Observations	2
ANALYTICAL RESULTS AND FINDINGS.....	2
RECOMMENDATIONS	3
Implemented Recommendations	4
Modify Sampling Scheme.....	4
Well Security and Aesthetics	4
Proposed Recommendations	4
REFERENCES	4

LIST OF TABLES

- 1 Summary of Well Construction Details
- 2 Summary of Groundwater Field Parameters
- 3 Sampling Summary
- 4 Summary of Water Level Measurements
- 5 Trip Blank Analytical Results
- 6 Summary of Groundwater Analytical Results
- 7 Positive Detections in Groundwater

LIST OF FIGURES

- 1 Sampling Location Map
- 2 Shallow Groundwater Elevation Contour Map
- 3 Volatile Organic Compounds in Groundwater
- 4 Total Xylene Results from Monitoring Well 02-GW03
- 5 Ethylbenzene Results from Monitoring Well 02-GW03

LIST OF ATTACHMENTS

- A Chain-of-Custody Documentation
- B Monitoring Program Analytical Results
- C Analytical Laboratory Data Sheets

MONITORING REPORT

The monitoring report that follows presents a summary of groundwater sampling activities, field observations, analytical results, and significant findings that pertain to the monitoring program at Operable Unit (OU) No. 5 (Site 2), Marine Corps Base (MCB), Camp Lejeune, North Carolina. The report describes activities completed during the second quarter of calendar year 1999. Conclusions and recommendations regarding the monitoring program at Site 2 are also presented within this report.

Monitoring activities at OU No. 5 began in October 1995. The most recent sampling initiative was conducted on April 17, 1999. Groundwater samples from Site 2 were obtained from six shallow monitoring wells and one intermediate monitoring well. Figure 1 depicts the locations of all existing monitoring wells and the former locations of four abandoned monitoring wells at Site 2. [Note that all tables and figures are provided after the text portion of this report.]

Sampling activities were conducted and subsequent laboratory analyses were performed according to procedures and methods specified in the Long Term Monitoring Work Plans for OU No. 5 (Baker, 1996). The project work plans identify a select number of monitoring wells at Site 2 for which continued periodic sampling is required. Figure 1 depicts the locations of wells included in the monitoring program; Table 1 provides construction details for each of the monitoring wells. As stipulated in the project work plans, measurements of pH, specific conductance, dissolved oxygen, temperature, and turbidity were recorded prior to sampling. These measurements were taken to ensure that groundwater conditions had stabilized and that representative samples had been obtained from the surficial aquifer. Summaries of all groundwater field parameters are provided in Table 2.

The monitoring program at Site 2 was implemented to assess whether contamination, detected during previous investigations, remains present, has migrated, or has degraded through natural processes. Based upon previous analytical results and decision documents, Target Compound List (TCL) Volatile Organic Compounds (VOCs) were identified as contaminants of concern at Site 2. Table 3 provides a summary of requested laboratory analyses and sample identifications.

Sample information, including well number, sample identification, time and date of sample collection, 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.

Groundwater Elevation and Flow Direction

The following provides information concerning groundwater elevation and flow direction at Site 2. Groundwater level measurements were obtained on April 17, 1999. Table 4 provides a summary of all groundwater level measurements obtained during the monitoring program. Figure 2 depicts the static elevations and approximate flow direction of groundwater at Site 2, based upon the most recent groundwater level measurements.

Static water level measurements were measured from a top-of-casing reference point at each monitoring well location. As Figure 2 suggests, a "low zone" exists at the center of the site, centered around 02-GW05 and 02-GW12. Monitoring well 02-GW12 has repeatedly shown groundwater elevations that are not consistent with the other groundwater levels at the site. This could be the result of a localized geologic condition that is altering normal groundwater flow near 02-GW12.

This "low zone" has been consistent on past contour maps but the overall groundwater flow direction has been erratic over past measurements. The flow direction has been to the west, the northeast and as seen on Figure 2, to the northwest. These erratic flow patterns can possibly be the result of seasonal fluctuation and/or local climatic events. Drainage ditches lie on both sides of the MCB, Camp Lejeune Railroad at Site 2. Surface water in the drainage ditches is stagnant with minimal flow. The ditches appear to act as both a discharge and recharge, depending upon intensity and duration of precipitation events and the seasonal variations of the water table.

Field Observations

As discussed in previous monitoring reports, the measured groundwater elevation at monitoring well 02-GW12 remains inconsistent with the other measurements collected at Site 2. This is believed to be the result of a perched water table zone near 02-GW12.

The open area of Site 2 near 02-GW03, 02-GW07, and 02-GW12 is being used as a staging area for heavy construction equipment and vehicles. Access to the monitoring wells is still open but potential damage to these wells from the movement of this equipment is a concern.

Landscaping with mulch, small shrubs, and flowers has been performed presumably by local site personnel in attempts to mask the stick up monitoring wells from public view. Access to these wells has not been affected.

ANALYTICAL RESULTS AND FINDINGS

The section that follows presents analytical results and findings from sampling performed at Site 2 during the second calendar 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 was prepared prior to sampling on the day of sampling (April 17, 1999). The trip blank (IR02-TB01-99B) accompanied groundwater samples from Site 2 during field collection, shipment, and laboratory analysis. As provided in Table 5, acetone was detected in the trip blank at a concentration of 2 micrograms per liter ($\mu\text{g/L}$). Because acetone is a common laboratory contaminant, detections of acetone in groundwater samples less than ten times the concentration detected in the trip blank ($<20 \mu\text{g/L}$) are considered not-detects. Acetone was detected in groundwater samples obtained from wells 02-GW05, 02-GW07, and 02-GW12 at levels less than $20 \mu\text{g/L}$.

Groundwater conditions within the upper and lower portions of the surficial aquifer were evaluated through collection and analysis of samples obtained from six shallow monitoring wells and one intermediate monitoring well at Site 2 (refer to Table 1 for well construction details). Analytical results from the monitoring program are provided in the paragraphs that follow and are summarized in Table 6. A summary of positive detections is provided in Table 7. The discussion that follows presents the most recent analytical results and the results of previous monitoring events.

A total of six VOCs were detected among samples obtained from four of the six shallow monitoring wells. There were no positive detections in the sample obtained from the single intermediate monitoring well at Site 2. As depicted in Figure 3, the majority of VOC detections were limited to

the southern portion of the study area. Ethylbenzene and xylenes (total) were detected at maximum concentrations of 130 and 840 µg/L, respectively, in the sample obtained from monitoring well 02-GW03. Both ethylbenzene and xylenes (total) in the sample obtained from 02-GW03 exceeded the North Carolina Water Quality Standard (NCWQS) concentration of 29 µg/L and 530 µg/L, respectively. Neither ethylbenzene nor xylene concentrations exceeded Federal Maximum Contaminant Levels (MCL) of 700 µg/L and 10,000 µg/L, respectively. Chlorobenzene in the sample obtained from 02-GW03 did not exceed the Federal MCL concentration of 100 µg/L, or the applicable NCWQS of 50 µg/L. Toluene and styrene in the sample obtained from 02-GW03 did not exceed the Federal MCL concentrations of 1,000 µg/L and 100 µg/L, respectively, or the NCWQS concentrations of 1,000 µg/L and 100 µg/L, respectively. As depicted in Figure 3, ethylbenzene and xylenes (total) were also detected in samples obtained from 02-GW12; xylenes (total) were detected in samples obtained from 02-GW07. Analytical results from the sampling event and a comparison of those results versus applicable groundwater standards are provided in Table 6.

The VOCs ethylbenzene and xylenes (total) have consistently been detected in samples obtained from monitoring well 02-GW03 at concentrations exceeding the applicable state standards. Figures 4 and 5 depict ethylbenzene and xylene (total) concentrations in samples obtained from 02-GW03 since inception of monitoring program activities at Site 2. The same VOCs were identified in the Record of Decision (ROD) as contaminants of concern at Site 2 (Baker, 1994). Figure 4 shows that xylene (total) concentrations collected at 02-GW03 generally increased between July 1996 through October 1997, and then started a general decrease in concentration through April 1999. As depicted in Figure 5, ethylbenzene concentrations in samples obtained from 02-GW03 have generally increased since July 1996. These figures also show a global increase in contaminant concentrations between July of 1996 and October of 1996. The most probable explanation for the observed increase is the change in sampling protocol instituted during 1996. Since July of 1996, groundwater samples have been acquired using a low-flow purge and sampling method. The low-flow method tends to result in samples that more accurately reflect true groundwater conditions.

Previous investigative and monitoring efforts at Site 2 indicate that contamination is concentrated in the area surrounding monitoring well 02-GW03. Xylenes (total) and ethylbenzene contamination from this area extends to wells 02-GW02 and 02-GW07 (xylenes (total) only), but has not migrated to well 02-GW05. 1,1,2,2-Tetrachloroethene, formerly detected at wells 02-GW03; 02-GW03IW; 02-GW07; and 02-GW12, has not been detected in either of the two most recent sampling events.

Intermediate well 02-GW03IW was installed during February 1997 to determine if detected contaminants (1,1,2,2-tetrachloroethane and total xylenes) in samples obtained from 02-GW03 in previous sampling events had migrated vertically. The intermediate groundwater sample was obtained from a depth interval of 50 to 60 feet below ground surface. Shallow groundwater samples are typically obtained from less than 25 feet below ground surface. 1,1,2,2-tetrachloroethane and xylenes (total) were not detected in October 1998. There were no VOCs detected in the sample collected from 02-GW03IW in April 1999. Additional sampling will be needed to confirm the downward movement of contamination.

RECOMMENDATIONS

The Record of Decision for Site 2 stipulates that possible off-site migration of contaminants be monitored through groundwater sample collection and analysis (Baker, 1994). Groundwater monitoring was implemented to ensure that potential human and ecological receptors would not be

exposed to known site contaminants. Detailed information pertaining to past implemented recommendations has been presented within previous monitoring reports. The following is a brief discussion of both recommendations that have been implemented this period and recommendations that are proposed for future consideration.

Implemented Recommendations

Modify Sampling Scheme

During the past four sampling events spanning a period from April 1997 to October 1998, 02-MW11 has shown no detections of those VOC contaminants of concern specified in the Record of Decision (Baker, 1994). Although elimination of 02-MW11 from the sampling scheme was not proposed in the previous monitoring report, verbal approval was obtained and sampling from 02-MW11 was discontinued.

Well Security and Aesthetics

During each sampling event monitoring wells are inspected for accessibility, integrity, aesthetics, and security. Maintenance may include, clearing of vegetation, replacing broken water tight caps, painting of bullards, and replacing padlocks. Improvements are made to the monitoring wells on an "as needed" basis.

Proposed Recommendations

Recently, 02-MW10 has been reporting a number of no detections for VOC concentrations in groundwater. Occasionally, a detection of a known laboratory contaminant was present in both the groundwater sample, as well as in the associated trip blank. Also, it is known that 02-MW11, situated between the 02-MW10 and the remaining sampling locations, also has had no detections and was eliminated from the sampling scheme at Site 2. Based on these facts, it is recommended that sampling of 02-MW10 also be discontinued.

REFERENCES

Baker Environmental, Incorporated (Baker). 1994. Record of Decision for Operable Unit No. 5 (Site 2), Marine Corps Base Camp Lejeune, North Carolina. Final. Prepared for the Department of the Navy Atlantic Division Naval Facilities Engineering Command, Norfolk, Virginia.

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

TABLES

TABLE 1

SUMMARY OF WELL CONSTRUCTION DETAILS
OPERABLE UNIT NO. 5 - SITE 2
MONITORING AND O&M SUPPORT, CTO-0367
MCB, CAMP LEJEUNE, NORTH CAROLINA

Monitoring Well Number	Date Installed	Top of Casing Elevation (feet, msl)	Ground Surface Elevation (feet, msl)	Boring Depth (feet, bgs)	Well Depth (feet, bgs)	Screen Interval Depth (feet, bgs)	Depth to Sand Pack (feet, bgs)	Depth to Bentonite (feet, bgs)	Stick-Up (feet, ags)
02-GW03	1984	35.40	33.00	NA	25	10.0 to 25.0	NA	NA	NA
02-GW03IW	1997	35.34	32.21	70	60	50.0 to 60.0	45	34	3.1
02-GW05	1984	33.72	31.80	NA	25	10.0 to 25.0	NA	NA	NA
02-GW07	1993	34.03	31.60	16	13	3.0 to 13.0	2	1	2.4
02-GW08	1993	34.92	31.90	12.5	12.5	2.5 to 12.5	1.5	0.5	3.0
02-GW10	1994	32.28	32.47	15	13.5	3.5 to 13.5	2.5	1.5	3.5
02-GW12	1997	34.37	31.52	31	23	3.0 to 23.0	2	1	2.8

Notes:

msl = Mean sea level

bgs = Below ground surface

NA = Information not available

ags = Above ground surface

TABLE 2
SUMMARY OF GROUNDWATER FIELD
PARAMETERS FOR APRIL 1999
OPERABLE UNIT NO. 5 - SITE 2
MONITORING AND O&M SUPPORT, CTO-0367
MCB, CAMP LEJEUNE, NORTH CAROLINA

Well Number (Sample Date)	Measuring Time	Well Volumes	Field Parameters				
			Temperature (°C)	pH (S.U.)	Specific Conductance (umhos/cm)	Dissolved Oxygen (mg/L)	Turbidity (N.T.U.)
02-GW03 (4/17/99)	0840	1	14.4	5.09	188	1.89	15
	0900	2	14.2	5.17	181	2.06	4
	0920	3	14.3	5.17	176	1.74	2
	0940	4	14.2	5.11	181	1.33	0
02-GW03IW (4/17/99)	0845	1	17.2	4.72	942	0.87	3
	0909	2	17.1	4.81	935	1.64	4
	0924	3	17.1	4.84	949	1.24	4
02-GW05 (4/17/99)	1023	1	15.1	4.98	228	1.63	9
	1038	2	15.2	5.00	233	1.01	0
	1054	3	15.2	4.98	222	1.00	0
02-GW07 (4/17/99)	1045	1	15.6	5.11	211	0.48	1
	1103	2	15.6	5.37	231	1.53	1
	1121	3	15.4	5.27	201	1.82	1
02-GW08 (4/17/99)	0839	1	14.7	4.12	656	3.97	11
	0906	2	14.7	4.00	622	4.53	7
	0935	3	14.7	4.05	609	5.20	1
02-GW10 (4/17/99)	1138	1	16.5	6.29	327	2.13	0
	1143	2	16.3	6.38	349	2.14	1
	1150	3	16.7	6.40	354	1.60	12
02-GW12 (4/17/99)	1037	1	14.8	5.01	172	2.02	4
	1047	2	14.9	5.03	168	1.68	1
	1058	3	14.8	5.08	169	2.03	1

Notes:

°C = Degrees Centigrade

S.U. = Standard Units

umhos/cm = micro ohms per centimeter

mg/L = milligrams per liter

N.T.U. = Nephelometric Turbidity Units

NR = Not Recorded

TABLE 3

GROUNDWATER SAMPLING SUMMARY
OPERABLE UNIT NO. 5 - SITE 2
MONITORING AND O&M SUPPORT, CTO-0367
MCB, CAMP LEJEUNE, NORTH CAROLINA

Sample Location	Media	TCL Volatiles ⁽¹⁾	Sample Identification
02-GW03	GW	X	IR02-GW03-99B
02-GW03IW	GW	X	IR02-GW03IW-99B
02-GW05	GW	X	IR02-GW05-99B
02-GW07	GW	X	IR02-GW07-99B
02-GW08	GW	X	IR02-GW08-99B
02-GW10	GW	X	IR02-GW10-99B
02-GW12	GW	X	IR02-GW12-99B

Notes:

⁽¹⁾ Target Compound List Volatiles by U.S. Environmental Protection Agency (EPA) Method 8260A.

X = Requested Analysis

TABLE 4
SUMMARY OF WATER LEVEL MEASUREMENTS
OPERABLE UNIT NO. 5 - SITE 2
MONITORING AND O&M SUPPORT, CTO-0367
MCB, CAMP LEJEUNE, NORTH CAROLINA

Well Identification	Reference Elevation (1)	SWE (08/08/96)	SWE (11/06/96)	SWE (04/26/97)	SWE (10/26/97)	SWE (04/20/98)	SWE (10/25/98)	SWL (04/17/99)	SWE (04/17/99)
02-GW03	35.40	20.23	28.67	27.91	24.37	29.56	26.69	6.18	29.22
02-GW03IW	35.34	NA	NA	7.39	3.29	6.69	5.37	27.97	7.37
02-GW05	33.72	18.24	24.35	25.54	24.15	26.15	25.57	6.65	27.07
02-GW06	34.40	31.61	30.55	20.44	26.68	30.92	NA	4.26	30.14
02-GW07	34.03	30.06	29.25	27.41	26.10	28.59	26.38	5.41	28.62
02-GW08	34.92	31.74	31.04	29.60	27.11	31.65	27.95	4.39	30.53
02-GW09	35.02	31.42	30.07	28.82	25.15	30.37	NA	7.00	28.02
02-GW10	32.28	27.29	NR	26.32	25.95	27.02	25.82	5.61	26.67
02-GW11	35.20	28.97	28.36	27.58	27.26	28.73	27.15	6.80	28.40
02-GW12	34.37	NA	NA	9.73	15.90	16.86	16.62	11.23	23.14

Notes:

NA = Not Applicable

NR = Not Recorded

SWL = Static water level taken from top of well casing

SWE = Static water elevation in feet above msl

TABLE 5

TRIP BLANK ANALYTICAL RESULTS
OPERABLE UNIT NO. 5 - SITE 2
MONITORING AND O&M SUPPORT, CTO-0367
MCB, CAMP LEJEUNE, NORTH CAROLINA

SAMPLE ID	IR02-TB01-99B
SAMPLE DATE	4/20/99
VOLATILES (ug/L)	
Chloromethane	5 U
Bromomethane	5 U
Vinyl Chloride	5 U
Chloroethane	5 U
Methylene Chloride	5 U
Acetone	2 J
Carbon Disulfide	5 U
1,1-Dichloroethene	5 U
1,1-Dichloroethane	5 U
cis-1,2-Dichloroethene	5 U
Trans-1,2-Dichloroethene	5 U
Chloroform	5 U
1,2-Dichloroethane	5 U
2-Butanone	10 U
1,1,1-Trichloroethane	5 U
Carbon Tetrachloride	5 U
Bromodichloromethane	5 U
1,2-Dichloropropane	5 U
cis-1,3-Dichloropropene	5 U
Trichloroethene	5 U
Dibromochloromethane	5 U
1,1,2-Trichloroethane	5 U
Benzene	5 U
Trans-1,3-Dichloropropene	5 U
Bromoform	5 U
4-Methyl-2-Pentanone	10 U
2-Hexanone	10 U
Tetrachloroethene	5 U
1,1,2,2-Tetrachloroethane	5 U
Toluene	5 U
Chlorobenzene	5 U
Ethylbenzene	5 U
Styrene	5 U
Total Xylenes	15 U

U = Not Detected

ug/l = Micrograms per liter

TABLE 6
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
OPERABLE UNIT NO. 5 - SITE 2
MONITORING AND O&M SUPPORT, CTO-0367
MCB, CAMP LEJEUNE, NORTH CAROLINA

Fraction	Detected Contaminants or Analytes	Comparison Criteria		Concentration Range		Location of Maximum Detection	Detection Frequency	Detections Above	
		NCWQS	MCL	Min.	Max.			NCWQS	MCL
Volatile Organics	Chlorobenzene	50	100	2 J	2 J	IR02-GW03	1/7	0	0
	Ethylbenzene	29	700	8	130	IR02-GW03	2/7	1	0
	Toluene	1,000	1,000	7	7	IR02-GW03	1/7	0	0
	Styrene	100	100	11	11	IR02-GW03	1/7	0	0
	Xylenes (total)	530	10,000	18	840 D	IR02-GW03	3/7	1	0

Notes:

Volatile and semivolatile organic concentrations presented in micrograms per liter ($\mu\text{g/L}$) or parts per billion.

J = Estimated Value

D = Dilution

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

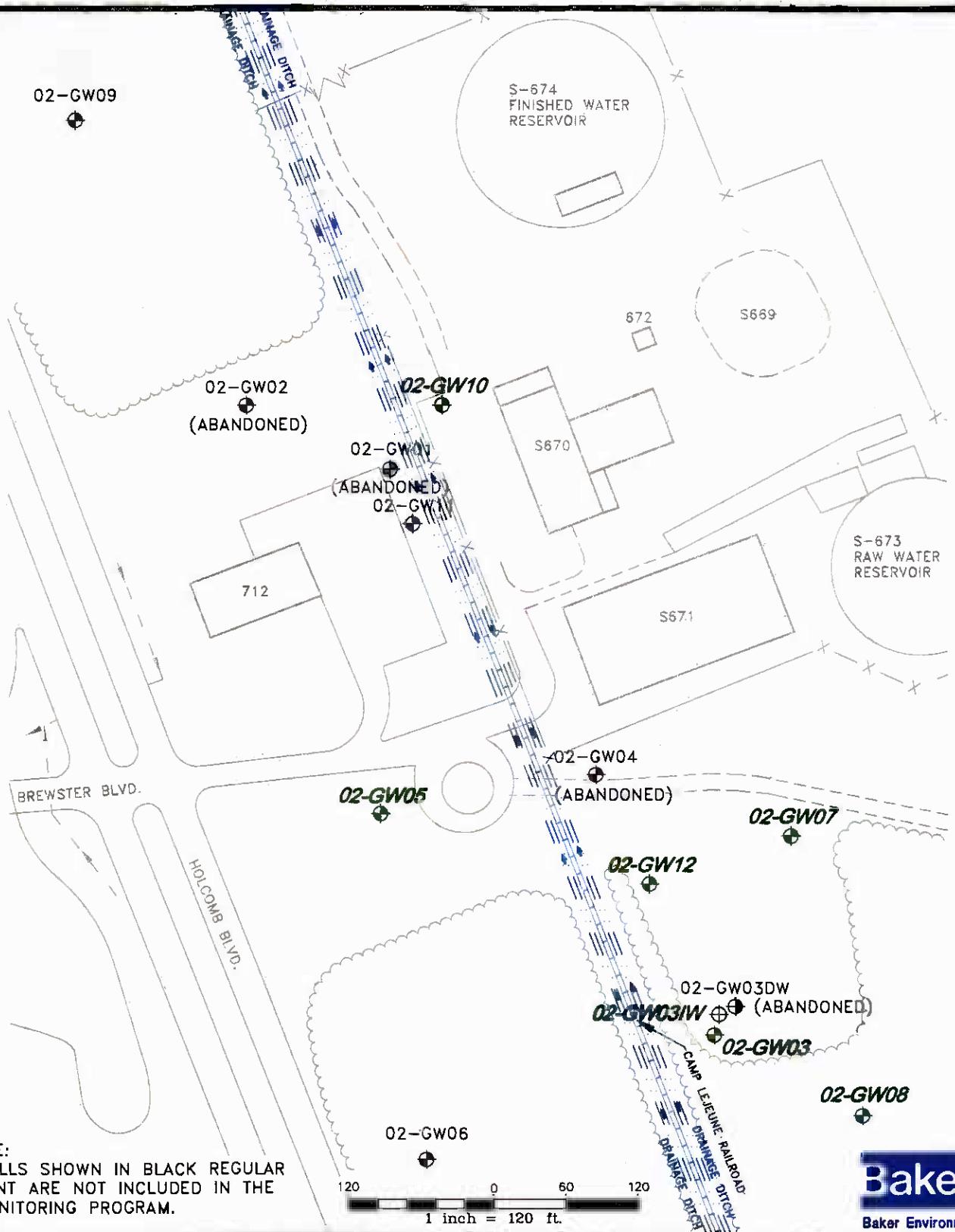
NCWQS = North Carolina Water Quality Standards (North Carolina Administrative Code, Title 15A, Subchapter 2L).

TABLE 7

**POSITIVE DETECTIONS IN GROUNDWATER
OPERABLE UNIT NO. 5 - SITE 2
MONITORING AND O&M SUPPORT, CTO-0367
MCB, CAMP LEJEUNE, NORTH CAROLINA**

SAMPLE ID	IR02-GW03-99B	IR02-GW03IW-99B	IR02-GW05-99B	IR02-GW07-99B	IR02-GW08-99B	IR02-GW10-99B	IR02-GW12-99B
SAMPLE DATE	4/17/99	4/17/99	4/17/99	4/17/99	4/17/99	4/17/99	4/17/99
VOLATILES (ug/L)							
Acetone	10 U	10 U	1 J	3 J	10 U	10 U	2 J
Toluene	7	5 U	5 U	5 U	5 U	5 U	5 U
Chlorobenzene	2 J	5 U	5 U	5 U	5 U	5 U	5 U
Ethylbenzene	130	5 U	5 U	5 U	5 U	5 U	8
Styrene	11	5 U	5 U	5 U	5 U	5 U	5 U
Total Xylenes	840 D	15 U	15 U	18	15 U	15 U	97

FIGURES

**NOTE:**

-WELLS SHOWN IN BLACK REGULAR FONT ARE NOT INCLUDED IN THE MONITORING PROGRAM.

120 0 60 120
1 inch = 120 ft.

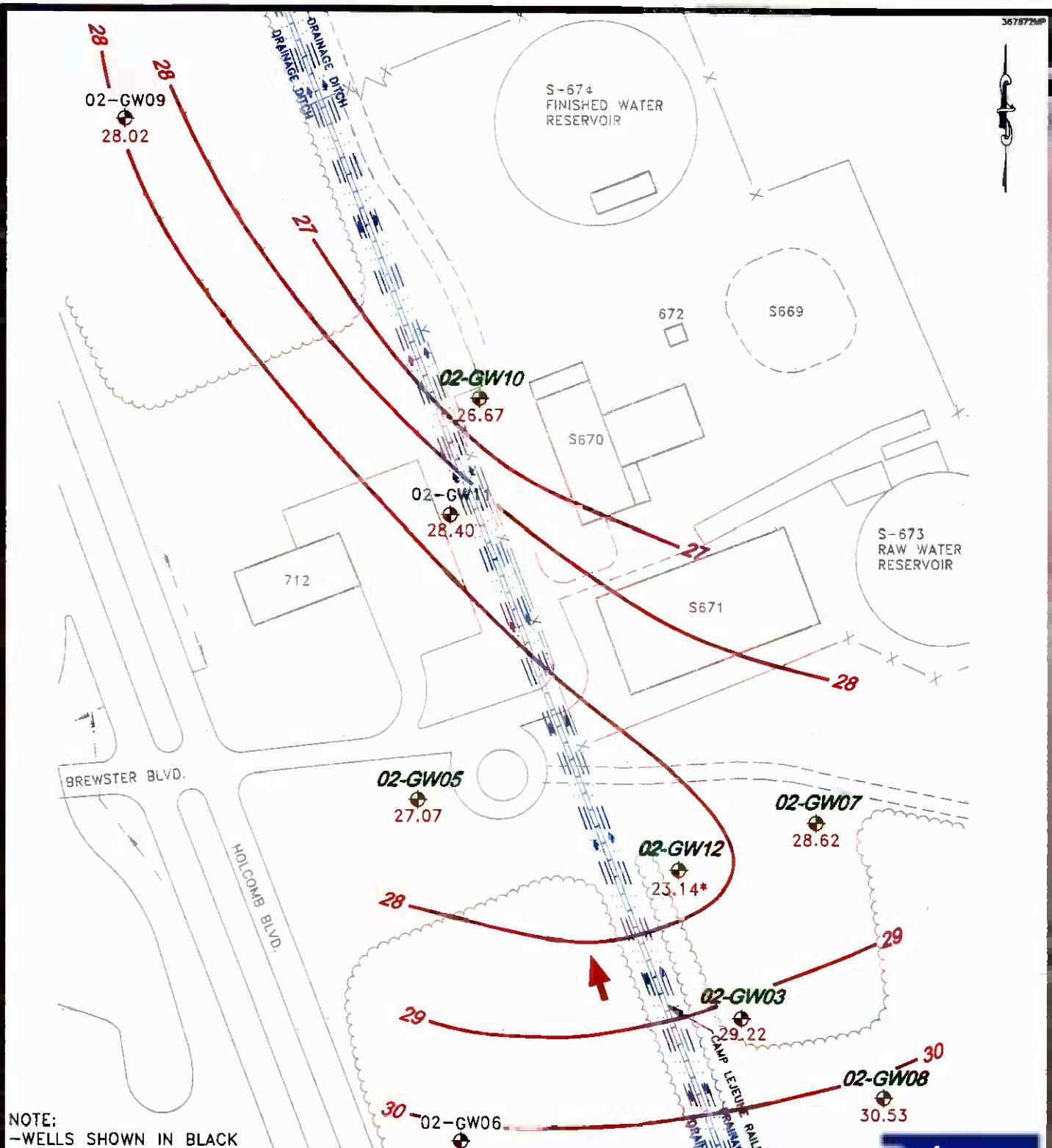
- LEGEND**
- 02-GW02 SHALLOW MONITORING WELL
 - 02-GW03IW INTERMEDIATE MONITORING WELL
 - 02-GW03DW DEEP MONITORING WELL
 - DIRECTION OF SURFACE WATER FLOW

SOURCE: LANTDIV, FEB. 1992

FIGURE 1
SAMPLING LOCATION MAP
OPERABLE UNIT NO. 5 – SITE 2
MONITORING AND O&M SUPPORT
CTO-0367
MARINE CORPS BASE, CAMP LEJEUNE
NORTH CAROLINA

Baker
Baker Environmental, Inc.

02328IIB1Y



LEGEND

- 02-GW02 SHALLOW MONITORING WELL
- 27.07 STATIC GROUNDWATER ELEVATION
- 28-** GROUNDWATER CONTOUR INTERVAL
- * MEASUREMENT NOT USED IN CALCULATION ON APRIL 17, 1999.
- DIRECTION OF GROUNDWATER FLOW

SOURCE: LANTDIV, FEB. 1992

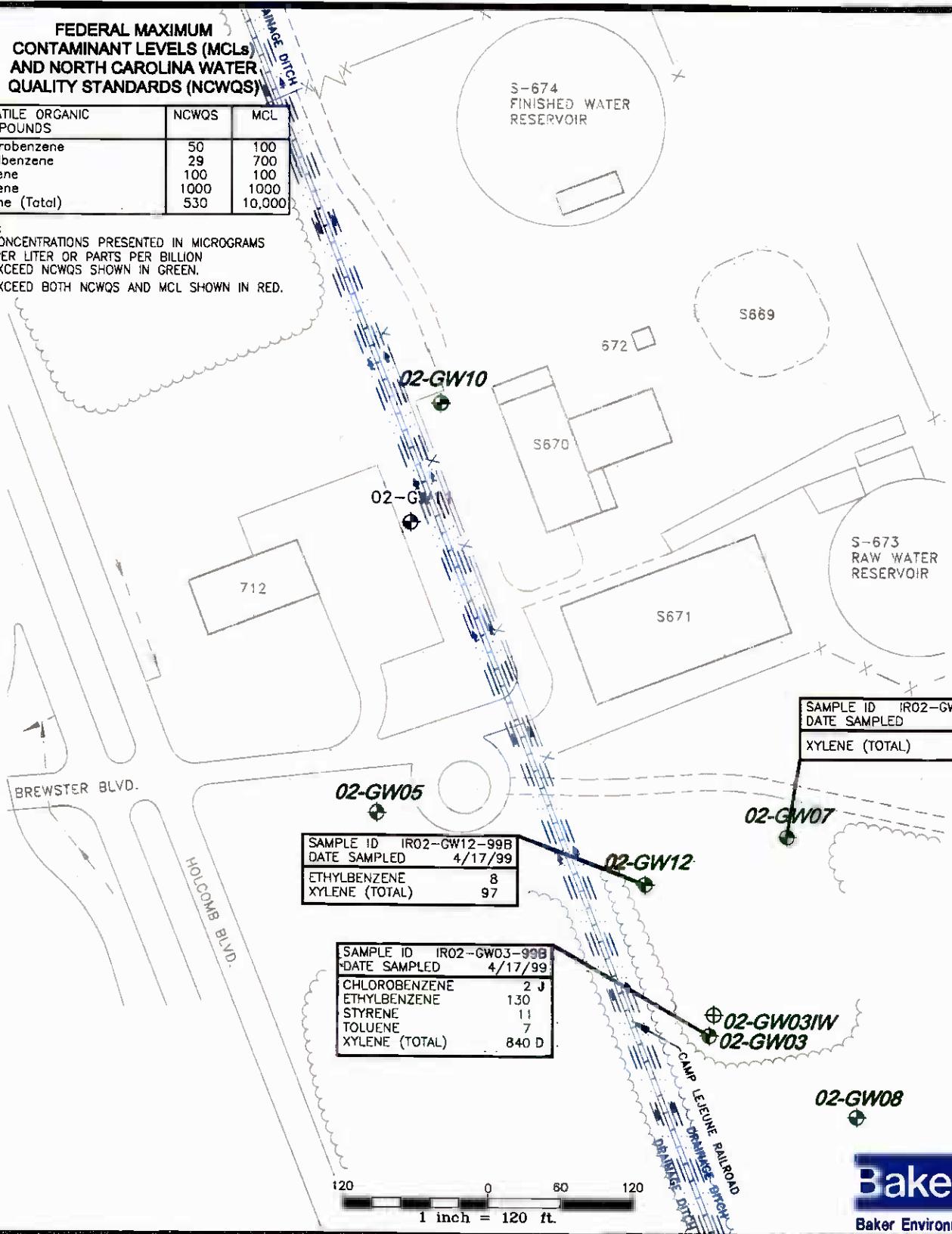
FIGURE 2
SHALLOW GROUNDWATER CONTOUR MAP
OPERABLE UNIT NO. 5 – SITE 2
MONITORING AND O&M SUPPORT
CTO-0367
MARINE CORPS BASE, CAMP LEJEUNE,
NORTH CAROLINA

FEDERAL MAXIMUM
CONTAMINANT LEVELS (MCLs)
AND NORTH CAROLINA WATER
QUALITY STANDARDS (NCWQS)

VOLATILE ORGANIC COMPOUNDS	NCWQS	MCL
Chlorobenzene	50	100
Ethylbenzene	29	700
Styrene	100	100
Toluene	1000	1000
Xylene (Total)	530	10,000

NOTE:

- 1.) CONCENTRATIONS PRESENTED IN MICROGRAMS PER LITER OR PARTS PER BILLION
- 2.) EXCEED NCWQS SHOWN IN GREEN.
- 3.) EXCEED BOTH NCWQS AND MCL SHOWN IN RED.



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Baker Environmental, Inc.

LEGEND

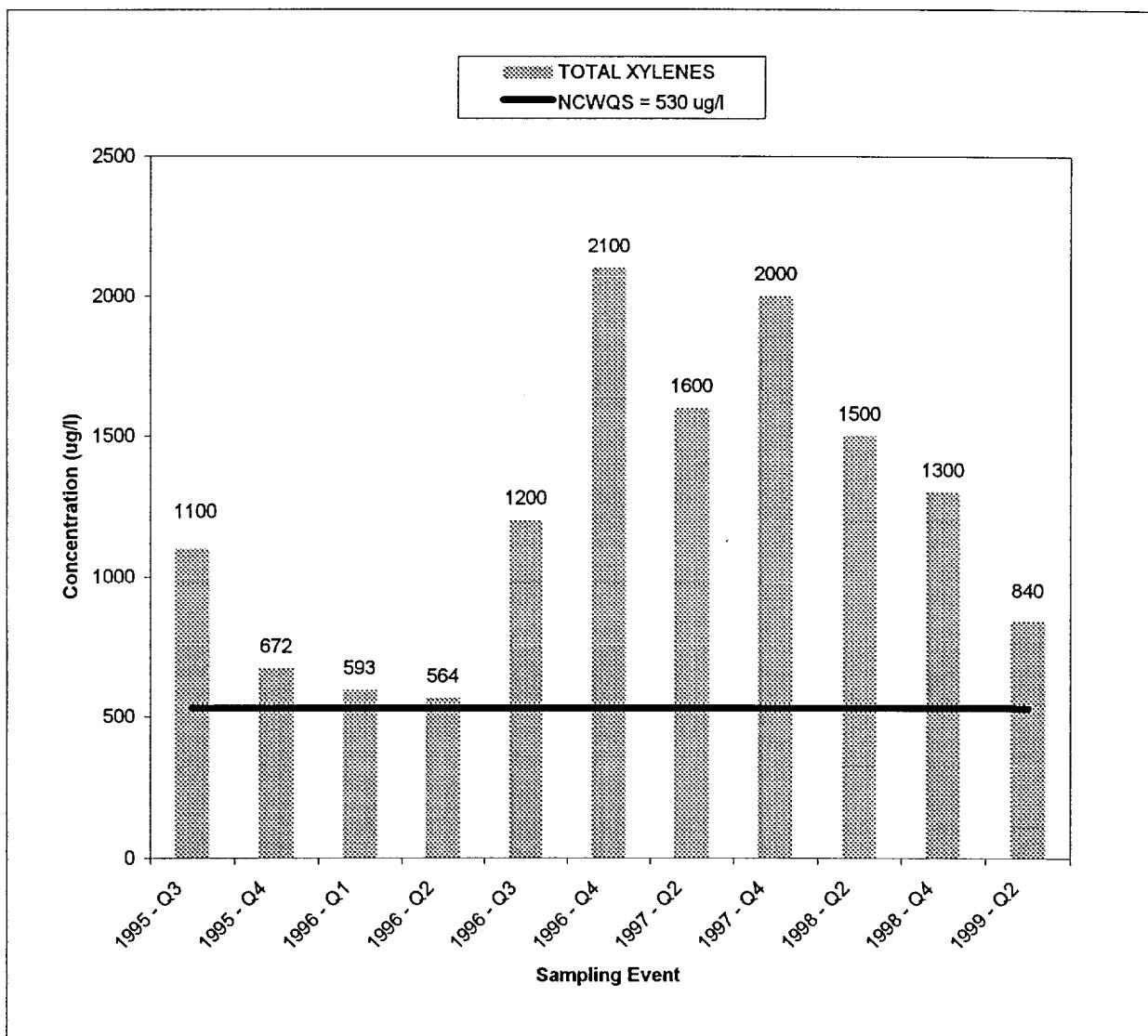
- 02-GW02 SHALLOW MONITORING WELL
- 02-GW03IW INTERMEDIATE MONITORING WELL
- DIRECTION OF SURFACE WATER FLOW

SOURCE: LANTDIV, FEB. 1992

FIGURE 3
VOLATILE ORGANIC COMPOUNDS
IN GROUNDWATER
OPERABLE UNIT NO. 5 – SITE 2
MONITORING AND O&M, CTO-0367
MARINE CORPS BASE, CAMP LEJEUNE
NORTH CAROLINA

FIGURE 4

TOTAL XYLENE RESULTS FROM 02-GW03
OPERABLE UNIT NO. 5 - SITE 2
MONITORING AND O&M SUPPORT, CTO-0367
MCB, CAMP LEJEUNE, NORTH CAROLINA



Q1 - Quarter 1 (January - March)
Q2 - Quarter 2 (April - June)

Q3 - Quarter 3 (July - September)
Q4 - Quarter 4 (October - December)

Notes:

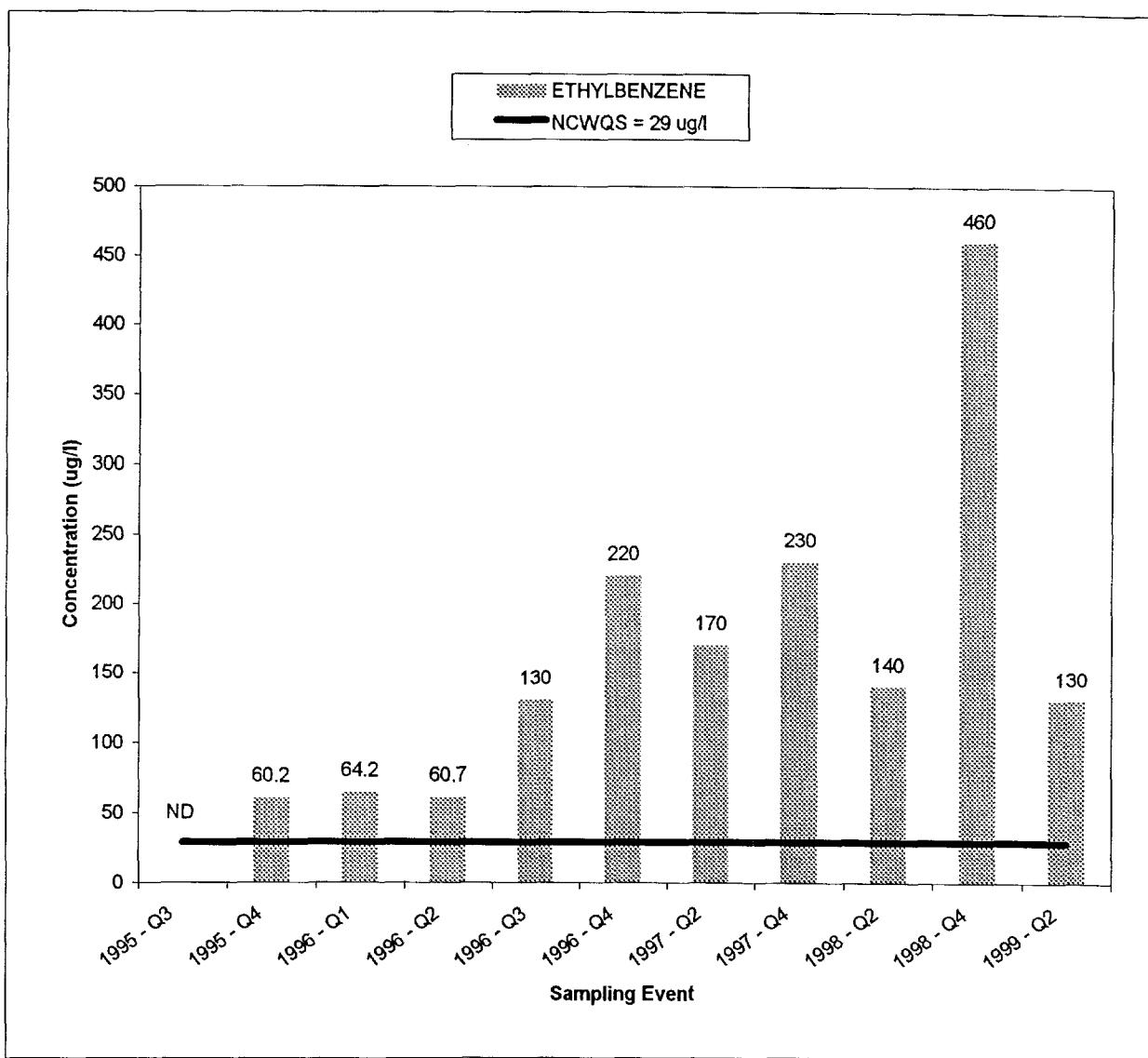
Federal Maximum Contaminant Level (MCL) = 10,000 micrograms per liter (ug/l)

North Carolina Water Quality Standard (NCWQS) = 530 micrograms per liter (ug/l)

Contaminant	Mean Detection	Median Detection	Detection Frequency	Detections Above Standards
TOTAL XYLEMES	1224	1250	11/11	11/11

FIGURE 5

ETHYLBENZENE RESULTS FROM 02-GW03
OPERABLE UNIT NO. 5 - SITE 2
MONITORING AND O&M SUPPORT, CTO-0367
MCB, CAMP LEJEUNE, NORTH CAROLINA



Q1 - Quarter 1 (January - March)

Q3 - Quarter 3 (July - September)

Q2 - Quarter 2 (April - June)

Q4 - Quarter 4 (October - December)

Notes:

Federal Maximum Contaminant Level (MCL) = 700 micrograms per liter (ug/l)

North Carolina Water Quality Standard (NCWQS) = 29 micrograms per liter (ug/l)

Contaminant	Mean Detection	Median Detection	Detection Frequency	Detections Above Standards
ETHYLBENZENE	151	135	10/11	10/11

ATTACHMENT A
CHAIN-OF-CUSTODY DOCUMENTATION

62470 - 367-06B-99B

Chain of Custody

Original Chain of Custody goes to Laboratory

0871

Page 2 of 12

Project #			Project Name Camp Lejeune LTM		Cooler Temp.		Analyses												Remarks			
Lab ID	1999 Date	Time	Comp. Grab	Sample Identification		Sample Matrix	No. of Containers	TCL Volts	pH	Dissolved Gas	pH	Nitrate	pH	Sulfate	pH	Nitrite	pH	IC-E 360.0		pH	TOC	pH
								8260				360		360								
4/20	1225	grab	IR69-GW12-99B			water	8	X		X		X		X		X		X		X		X
4/20	1304	grab	IR69-GW10-99B			water	8	X		X		X		X		X		X		X		X
4/20	1515	grab	IR69-GW14-99B			water	8	X		X		X		X		X		X		X		X
4/20	1530	grab	IR69-GW01-99B			water	8	X		X		X		X		X		X		X		X
4/17	1510	grab	IR69-GW01-99B			water	1															
4/17	1520	grab	IR28-GW03-99B			water	1															
4/17	1540	grab	IR28-GW02-99B			water	1															
4/17	1105	grab	IR02-GW12-99B			water	3	X														
4/17	1100	grab	IR02-GW05-99B			water	3	X														
4/17	0940	grab	IR02-GW08-99B			water	3	X														
Ceimic Project #			Relinquished by (signature) Ellen Bjorklie				Date/Time 4/20/99 1700			Received by (signature)						Date/Time						
Storage Location			Relinquished by (signature)				Date/Time			Received by (signature)						Date/Time						
			Relinquished by (signature)				Date/Time			Received by Ceimic (signature)						Date/Time						
Remarks: Archbill # 801314754550																						



= Lab Use Only

624170 - 367-06 D-99B

Chain of Custody

Original Chain of Custody goes to Laboratory

0873

Page 4 of _____

Project #			Project Name Camp Lejeune LTM		Cooler Temp.		Analyses										Remarks
					Cooler # 65240		pH	pH	pH	pH	pH	pH	pH	pH	pH		
Samplers (please print)					Sample Identification	Sample Matrix	No. of Containers										
Lab ID	1999 Date	Time	Comp. Grab														
	4/17 1125	grab		TRO2-GW07-99B	water	3	X										
	4/17 1155	grab		TRO2-GW10-99B	water	3	X										
	4/20 1630	grab		TRO2-TB01-99B	water	3	X										
	4/17 0935	grab		TRO2-GW03IW-99B	water	3	X										
	4/17 0945	grab		TRO2-GW03-99B	water	3	X										
Ceimic Project #			Relinquished by (signature) <i>Ellen Brashke</i>				Date/Time 4/20/99 1700		Received by (signature)						Date/Time		
Storage Location			Relinquished by (signature)				Date/Time		Received by (signature)						Date/Time		
			Relinquished by (signature)				Date/Time		Received by Ceimic (signature)						Date/Time		
Remarks:																	

 = Lab Use Only

4/20/99 1630 ROR^b-JB01-99B ?? call lab

ATTACHMENT B
MONITORING PROGRAM ANALYTICAL RESULTS

GROUNDWATER ANALYTICAL RESULTS
OPERABLE UNIT NO. 5 - SITE 2
MONITORING AND O&M SUPPORT, CTO-0367
MCB, CAMP LEJEUNE, NORTH CAROLINA
VOLATILE ORGANICS

SAMPLE ID	IR02-GW03-99B	IR02-GW03IW-99B	IR02-GW05-99B	IR02-GW07-99B	IR02-GW08-99B	IR02-GW10-99B	IR02-GW12-99B
SAMPLE DATE	4/17/99	4/17/99	4/17/99	4/17/99	4/17/99	4/17/99	4/17/99
VOLATILES (ug/L)							
Chloromethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromomethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Vinyl Chloride	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylene Chloride	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Acetone	10 U	10 U	1 J	3 J	10 U	10 U	2 J
Carbon Disulfide	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U
cis-1,2-Dichloroethene	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Trans-1,2-Dichloroethene	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroform	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Butanone	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,1,1-Trichloroethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon Tetrachloride	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromodichloromethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloropropane	5 U	5 U	5 U	5 U	5 U	5 U	5 U
cis-1,3-Dichloropropene	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Trichloroethene	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Dibromochloromethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Benzene	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Trans-1,3-Dichloropropene	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromoform	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-Pentanone	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene	5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Toluene	7	5 U	5 U	5 U	5 U	5 U	5 U
Chlorobenzene	2 J	5 U	5 U	5 U	5 U	5 U	5 U
Ethylbenzene	130	5 U	5 U	5 U	5 U	5 U	8
Styrene	11	5 U	5 U	5 U	5 U	5 U	5 U
Total Xylenes	840 D	15 U	15 U	18	15 U	15 U	97

ATTACHMENT C
ANALYTICAL LABORATORY DATA SHEETS

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

IR02GW0399B

Lab Name: CEIMIC CORP

Contract: BAKER

Lab Code: CEIMIC Case No.: 62470 SAS No.: _____ SDG No.: 02GW12

Matrix: (soil/water) WATER

Lab Sample ID: 990334-08

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: L1692

Level: (low/med) LOW

Date Received: 04/21/99

% Moisture: not dec. _____

Date Analyzed: 04/29/99

GC Column: DB624 ID: 0.180 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q
---------	----------	---	---

74-87-3-----	Chloromethane	5	U
74-83-9-----	Bromomethane	5	U
75-01-4-----	Vinyl Chloride	5	U
75-00-3-----	Chloroethane	5	U
75-09-2-----	Methylene Chloride	5	U
67-64-1-----	Acetone	10	U
75-15-0-----	Carbon Disulfide	5	U
75-35-4-----	1,1-Dichloroethene	5	U
75-34-3-----	1,1-Dichloroethane	5	U
156-59-2-----	cis-1,2-Dichloroethene	5	U
156-60-5-----	trans-1,2-Dichloroethene	5	U
67-66-3-----	Chloroform	5	U
107-06-2-----	1,2-Dichloroethane	5	U
78-93-3-----	2-Butanone	10	U
71-55-6-----	1,1,1-Trichloroethane	5	U
56-23-5-----	Carbon Tetrachloride	5	U
75-27-4-----	Bromodichloromethane	5	U
78-87-5-----	1,2-Dichloropropane	5	U
10061-01-5-----	cis-1,3-Dichloropropene	5	U
79-01-6-----	Trichloroethene	5	U
124-48-1-----	Dibromochloromethane	5	U
79-00-5-----	1,1,2-Trichloroethane	5	U
71-43-2-----	Benzene	5	U
10061-02-6-----	trans-1,3-Dichloropropene	5	U
75-25-2-----	Bromoform	5	U
108-10-1-----	4-Methyl-2-Pentanone	10	U
591-78-6-----	2-Hexanone	10	U
127-18-4-----	Tetrachloroethene	5	U
79-34-5-----	1,1,2,2-Tetrachloroethane	5	U
108-88-3-----	Toluene	7	
108-90-7-----	Chlorobenzene	2	
100-41-4-----	Ethylbenzene	130	
100-42-5-----	Styrene	11	J

15

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

IR02GW0399B

Lab Name: CEIMIC CORPContract: BAKERLab Code: CEIMIC Case No.: 62470 SAS No.: _____ SDG No.: 02GW12Matrix: (soil/water) WATERLab Sample ID: 990334-08Sample wt/vol: 5.0 (g/mL) MLLab File ID: L1692Level: (low/med) LOWDate Received: 04/21/99

% Moisture: not dec. _____

Date Analyzed: 04/29/99GC Column: DB624 ID: 0.180 (mm)Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Q

1330-20-7-----Xylene (total) _____

1100

E

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

IR02GW0399BDL

Lab Name: <u>CEIMIC CORP</u>	Contract: <u>BAKER</u>		
Lab Code: <u>CEIMIC</u>	Case No.: <u>62470</u>	SAS No.: _____	SDG No.: <u>02GW12</u>
Matrix: (soil/water) <u>WATER</u>	Lab Sample ID: <u>990334-08DL</u>		
Sample wt/vol: <u>5.0</u> (g/mL) <u>ML</u>	Lab File ID: <u>L1713</u>		
Level: (low/med) <u>LOW</u>	Date Received: <u>04/21/99</u>		
% Moisture: not dec. _____	Date Analyzed: <u>04/30/99</u>		
GC Column: <u>DB624</u>	ID: <u>0.180</u> (mm)	Dilution Factor: <u>10.0</u>	
Soil Extract Volume: _____ (uL)	Soil Aliquot Volume: _____ (uL)		

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q
---------	----------	---	---

74-87-3-----	Chloromethane	50	U
74-83-9-----	Bromomethane	50	U
75-01-4-----	Vinyl Chloride	50	U
75-00-3-----	Chloroethane	50	U
75-09-2-----	Methylene Chloride	23	DJ
67-64-1-----	Acetone	100	U
75-15-0-----	Carbon Disulfide	50	U
75-35-4-----	1,1-Dichloroethene	50	U
75-34-3-----	1,1-Dichloroethane	50	U
156-59-2-----	cis-1,2-Dichloroethene	50	U
156-60-5-----	trans-1,2-Dichloroethene	50	U
67-66-3-----	Chloroform	50	U
107-06-2-----	1,2-Dichloroethane	50	U
78-93-3-----	2-Butanone	100	U
71-55-6-----	1,1,1-Trichloroethane	50	U
56-23-5-----	Carbon Tetrachloride	50	U
75-27-4-----	Bromodichloromethane	50	U
78-87-5-----	1,2-Dichloropropane	50	U
10061-01-5-----	cis-1,3-Dichloropropene	50	U
79-01-6-----	Trichloroethene	50	U
124-48-1-----	Dibromochloromethane	50	U
79-00-5-----	1,1,2-Trichloroethane	50	U
71-43-2-----	Benzene	50	U
10061-02-6-----	trans-1,3-Dichloropropene	50	U
75-25-2-----	Bromoform	50	U
108-10-1-----	4-Methyl-2-Pentanone	100	U
591-78-6-----	2-Hexanone	100	U
127-18-4-----	Tetrachloroethene	50	U
79-34-5-----	1,1,2,2-Tetrachloroethane	50	U
108-88-3-----	Toluene	50	U
108-90-7-----	Chlorobenzene	50	U
100-41-4-----	Ethylbenzene	96	D
100-42-5-----	Styrene	50	U

17

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

IR02GW0399BDL

Lab Name: CEIMIC CORPContract: BAKERLab Code: CEIMIC Case No.: 62470SAS No.: _____ SDG No.: 02GW12Matrix: (soil/water) WATERLab Sample ID: 990334-08DLSample wt/vol: 5.0 (g/mL) MLLab File ID: L1713Level: (low/med) LOWDate Received: 04/21/99

% Moisture: not dec. _____

Date Analyzed: 04/30/99GC Column: DB624 ID: 0.180 (mm)Dilution Factor: 10.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Q

1330-20-7-----Xylene (total)

840

D

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

IR02GW03IW99B

Lab Name: CEIMIC CORP

Contract: BAKER

Lab Code: CEIMIC Case No.: 62470 SAS No.: _____ SDG No.: 02GW12

Matrix: (soil/water) WATER

Lab Sample ID: 990334-07

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: L1691

Level: (low/med) LOW

Date Received: 04/21/99

% Moisture: not dec. _____

Date Analyzed: 04/29/99

GC Column: DB624 ID: 0.180 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q
---------	----------	---	---

74-87-3-----	Chloromethane	5	U
74-83-9-----	Bromomethane	5	U
75-01-4-----	Vinyl Chloride	5	U
75-00-3-----	Chloroethane	5	U
75-09-2-----	Methylene Chloride	5	U
67-64-1-----	Acetone	10	U
75-15-0-----	Carbon Disulfide	5	U
75-35-4-----	1,1-Dichloroethene	5	U
75-34-3-----	1,1-Dichloroethane	5	U
156-59-2-----	cis-1,2-Dichloroethene	5	U
156-60-5-----	trans-1,2-Dichloroethene	5	U
67-66-3-----	Chloroform	5	U
107-06-2-----	1,2-Dichloroethane	5	U
78-93-3-----	2-Butanone	10	U
71-55-6-----	1,1,1-Trichloroethane	5	U
56-23-5-----	Carbon Tetrachloride	5	U
75-27-4-----	Bromodichloromethane	5	U
78-87-5-----	1,2-Dichloropropane	5	U
10061-01-5-----	cis-1,3-Dichloropropene	5	U
79-01-6-----	Trichloroethene	5	U
124-48-1-----	Dibromochloromethane	5	U
79-00-5-----	1,1,2-Trichloroethane	5	U
71-43-2-----	Benzene	5	U
10061-02-6-----	trans-1,3-Dichloropropene	5	U
75-25-2-----	Bromoform	5	U
108-10-1-----	4-Methyl-2-Pentanone	10	U
591-78-6-----	2-Hexanone	10	U
127-18-4-----	Tetrachloroethene	5	U
79-34-5-----	1,1,2,2-Tetrachloroethane	5	U
108-88-3-----	Toluene	5	U
108-90-7-----	Chlorobenzene	5	U
100-41-4-----	Ethylbenzene	5	U
100-42-5-----	Styrene	5	U

19

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: CEIMIC CORPContract: BAKER

IR02GW03IW99B

Lab Code: CEIMIC Case No.: 62470SAS No.: _____ SDG No.: 02GW12Matrix: (soil/water) WATERLab Sample ID: 990334-07Sample wt/vol: 5.0 (g/mL) MLLab File ID: L1691Level: (low/med) LOWDate Received: 04/21/99

% Moisture: not dec. _____

Date Analyzed: 04/29/99GC Column: DB624 ID: 0.180 (mm)Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Q

1330-20-7-----Xylene (total) _____

15 U

20

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

IR02GW0599

Lab Name: CEIMIC CORP Contract: BAKER

Lab Code: CEIMIC Case No.: 62470 SAS No.: _____ SDG No.: 02GW12

Matrix: (soil/water) WATER Lab Sample ID: 990334-02

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: L1664

Level: (low/med) LOW Date Received: 04/21/99

% Moisture: not dec. _____ Date Analyzed: 04/29/99

GC Column: DB624 ID: 0.180 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q
---------	----------	---	---

74-87-3-----	Chloromethane	5	U
74-83-9-----	Bromomethane	5	U
75-01-4-----	Vinyl Chloride	5	U
75-00-3-----	Chloroethane	5	U
75-09-2-----	Methylene Chloride	5	U
67-64-1-----	Acetone	1	J
75-15-0-----	Carbon Disulfide	5	U
75-35-4-----	1,1-Dichloroethene	5	U
75-34-3-----	1,1-Dichloroethane	5	U
156-59-2-----	cis-1,2-Dichloroethene	5	U
156-60-5-----	trans-1,2-Dichloroethene	5	U
67-66-3-----	Chloroform	5	U
107-06-2-----	1,2-Dichloroethane	5	U
78-93-3-----	2-Butanone	10	U
71-55-6-----	1,1,1-Trichloroethane	5	U
56-23-5-----	Carbon Tetrachloride	5	U
75-27-4-----	Bromodichloromethane	5	U
78-87-5-----	1,2-Dichloropropane	5	U
10061-01-5-----	cis-1,3-Dichloropropene	5	U
79-01-6-----	Trichloroethene	5	U
124-48-1-----	Dibromochloromethane	5	U
79-00-5-----	1,1,2-Trichloroethane	5	U
71-43-2-----	Benzene	5	U
10061-02-6-----	trans-1,3-Dichloropropene	5	U
75-25-2-----	Bromoform	5	U
108-10-1-----	4-Methyl-2-Pentanone	10	U
591-78-6-----	2-Hexanone	10	U
127-18-4-----	Tetrachloroethene	5	U
79-34-5-----	1,1,2,2-Tetrachloroethane	5	U
108-88-3-----	Toluene	5	U
108-90-7-----	Chlorobenzene	5	U
100-41-4-----	Ethylbenzene	5	U
100-42-5-----	Styrene	5	U

21

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

IR02GW0599

Lab Name: CEIMIC CORP

Contract: BAKER

Lab Code: CEIMIC Case No.: 62470 SAS No.: _____ SDG No.: 02GW12

Matrix: (soil/water) WATER

Lab Sample ID: 990334-02

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: L1664

Level: (low/med) LOW

Date Received: 04/21/99

% Moisture: not dec. _____

Date Analyzed: 04/29/99

GC Column: DB624 ID: 0.180 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Q

1330-20-7-----Xylene (total)

15

U

22

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: CEIMIC CORP Contract: BAKER

IR02GW0599MS

Lab Code: CEIMIC Case No.: 62470 SAS No.: _____ SDG No.: 02GW12

Matrix: (soil/water) WATER Lab Sample ID: 990334-02MS

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: L1731

Level: (low/med) LOW Date Received: 04/21/99

% Moisture: not dec. _____ Date Analyzed: 05/01/99

GC Column: DB624 ID: 0.180 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q
74-87-3-----	Chloromethane	53	
74-83-9-----	Bromomethane	57	
75-01-4-----	Vinyl Chloride	51	
75-00-3-----	Chloroethane	59	
75-09-2-----	Methylene Chloride	46	B
67-64-1-----	Acetone	210	E 5/21/99 d/c
75-15-0-----	Carbon Disulfide	44	
75-35-4-----	1,1-Dichloroethene	46	
75-34-3-----	1,1-Dichloroethane	49	
156-59-2-----	cis-1,2-Dichloroethene	47	
156-60-5-----	trans-1,2-Dichloroethene	45	
67-66-3-----	Chloroform	51	
107-06-2-----	1,2-Dichloroethane	55	
78-93-3-----	2-Butanone	260	E 5/21/99 a/c
71-55-6-----	1,1,1-Trichloroethane	48	
56-23-5-----	Carbon Tetrachloride	51	
75-27-4-----	Bromodichloromethane	54	
78-87-5-----	1,2-Dichloropropane	52	
10061-01-5-----	cis-1,3-Dichloropropene	50	
79-01-6-----	Trichloroethene	48	
124-48-1-----	Dibromochloromethane	52	
79-00-5-----	1,1,2-Trichloroethane	51	
71-43-2-----	Benzene	47	
10061-02-6-----	trans-1,3-Dichloropropene	50	
75-25-2-----	Bromoform	48	
108-10-1-----	4-Methyl-2-Pentanone	290	E 5/21/99 a/l
591-78-6-----	2-Hexanone	280	E
127-18-4-----	Tetrachloroethene	46	
79-34-5-----	1,1,2,2-Tetrachloroethane	50	
108-88-3-----	Toluene	50	
108-90-7-----	Chlorobenzene	50	
100-41-4-----	Ethylbenzene	51	
100-42-5-----	Styrene	51	

23

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

IR02GW0599MS

Lab Name: CEIMIC CORP

Contract: BAKER

Lab Code: CEIMIC Case No.: 62470

SAS No.: _____ SDG No.: 02GW12

Matrix: (soil/water) WATER

Lab Sample ID: 990334-02MS

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: L1731

Level: (low/med) LOW

Date Received: 04/21/99

% Moisture: not dec. _____

Date Analyzed: 05/01/99

GC Column: DB624 ID: 0.180 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Q

CAS NO.	COMPOUND		
1330-20-7-----	Xylene (total)	160	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

IR02GW0599MSD

Lab Name: CEIMIC CORP

Contract: BAKER

Lab Code: CEIMIC Case No.: 62470

SAS No.: _____

SDG No.: 02GW12

Matrix: (soil/water) WATER

Lab Sample ID: 990334-02MSD

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: L1732

Level: (low/med) LOW

Date Received: 04/21/99

% Moisture: not dec. _____

Date Analyzed: 05/01/99

GC Column: DB624 ID: 0.180 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Q

<u>74-87-3-----Chloromethane</u>	<u>53</u>	
<u>74-83-9-----Bromomethane</u>	<u>58</u>	
<u>75-01-4-----Vinyl Chloride</u>	<u>51</u>	
<u>75-00-3-----Chloroethane</u>	<u>60</u>	
<u>75-09-2-----Methylene Chloride</u>	<u>46</u>	
<u>67-64-1-----Acetone</u>	<u>220</u>	<u>B</u>
<u>75-15-0-----Carbon Disulfide</u>	<u>45</u>	<u>E 5/21/99 a/c</u>
<u>75-35-4-----1,1-Dichloroethene</u>	<u>45</u>	
<u>75-34-3-----1,1-Dichloroethane</u>	<u>51</u>	
<u>156-59-2-----cis-1,2-Dichloroethene</u>	<u>49</u>	
<u>156-60-5-----trans-1,2-Dichloroethene</u>	<u>46</u>	
<u>67-66-3-----Chloroform</u>	<u>53</u>	
<u>107-06-2-----1,2-Dichloroethane</u>	<u>56</u>	
<u>78-93-3-----2-Butanone</u>	<u>270</u>	<u>E 5/21/99 a/c</u>
<u>71-55-6-----1,1,1-Trichloroethane</u>	<u>49</u>	
<u>56-23-5-----Carbon Tetrachloride</u>	<u>52</u>	
<u>75-27-4-----Bromodichloromethane</u>	<u>55</u>	
<u>78-87-5-----1,2-Dichloropropane</u>	<u>52</u>	
<u>10061-01-5-----cis-1,3-Dichloropropene</u>	<u>50</u>	
<u>79-01-6-----Trichloroethene</u>	<u>49</u>	
<u>124-48-1-----Dibromochloromethane</u>	<u>53</u>	
<u>79-00-5-----1,1,2-Trichloroethane</u>	<u>52</u>	
<u>71-43-2-----Benzene</u>	<u>47</u>	
<u>10061-02-6-----trans-1,3-Dichloropropene</u>	<u>50</u>	
<u>75-25-2-----Bromoform</u>	<u>46</u>	
<u>108-10-1-----4-Methyl-2-Pentanone</u>	<u>300</u>	<u>E 5/21/99 a/c</u>
<u>591-78-6-----2-Hexanone</u>	<u>290</u>	<u>E</u>
<u>127-18-4-----Tetrachloroethene</u>	<u>47</u>	
<u>79-34-5-----1,1,2,2-Tetrachloroethane</u>	<u>52</u>	
<u>108-88-3-----Toluene</u>	<u>51</u>	
<u>108-90-7-----Chlorobenzene</u>	<u>51</u>	
<u>100-41-4-----Ethylbenzene</u>	<u>50</u>	
<u>100-42-5-----Styrene</u>	<u>50</u>	

25

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: CEIMIC CORP

Contract: BAKER

IR02GW0599MSD

Lab Code: CEIMIC Case No.: 62470

SAS No.: _____ SDG No.: 02GW12

Matrix: (soil/water) WATER

Lab Sample ID: 990334-02MSD

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: L1732

Level: (low/med) LOW

Date Received: 04/21/99

% Moisture: not dec. _____

Date Analyzed: 05/01/99

GC Column: DB624 ID: 0.180 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NO.

COMPOUND

Q

1330-20-7-----Xylene (total)

150

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

IR02GW0799B

Lab Name: CEIMIC CORP

Contract: BAKER

Lab Code: CEIMIC Case No.: 62470 SAS No.: _____ SDG No.: 02GW12

Matrix: (soil/water) WATER

Lab Sample ID: 990334-04

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: L1666

Level: (low/med) LOW

Date Received: 04/21/99

% Moisture: not dec. _____

Date Analyzed: 04/29/99

GC Column: DB624 ID: 0.180 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q
---------	----------	---	---

74-87-3-----	Chloromethane	5	U
74-83-9-----	Bromomethane	5	U
75-01-4-----	Vinyl Chloride	5	U
75-00-3-----	Chloroethane	5	U
75-09-2-----	Methylene Chloride	5	U
67-64-1-----	Acetone	3	J
75-15-0-----	Carbon Disulfide	5	U
75-35-4-----	1,1-Dichloroethene	5	U
75-34-3-----	1,1-Dichloroethane	5	U
156-59-2-----	cis-1,2-Dichloroethene	5	U
156-60-5-----	trans-1,2-Dichloroethene	5	U
67-66-3-----	Chloroform	5	U
107-06-2-----	1,2-Dichloroethane	5	U
78-93-3-----	2-Butanone	10	U
71-55-6-----	1,1,1-Trichloroethane	5	U
56-23-5-----	Carbon Tetrachloride	5	U
75-27-4-----	Bromodichloromethane	5	U
78-87-5-----	1,2-Dichloropropane	5	U
10061-01-5-----	cis-1,3-Dichloropropene	5	U
79-01-6-----	Trichloroethene	5	U
124-48-1-----	Dibromochloromethane	5	U
79-00-5-----	1,1,2-Trichloroethane	5	U
71-43-2-----	Benzene	5	U
10061-02-6-----	trans-1,3-Dichloropropene	5	U
75-25-2-----	Bromoform	5	U
108-10-1-----	4-Methyl-2-Pentanone	10	U
591-78-6-----	2-Hexanone	10	U
127-18-4-----	Tetrachloroethene	5	U
79-34-5-----	1,1,2,2-Tetrachloroethane	5	U
108-88-3-----	Toluene	5	U
108-90-7-----	Chlorobenzene	5	U
100-41-4-----	Ethylbenzene	5	U
100-42-5-----	Styrene	5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

IR02GW0799B

Lab Name: CEIMIC CORP

Contract: BAKER

Lab Code: CEIMIC Case No.: 62470 SAS No.: _____ SDG No.: 02GW12

Matrix: (soil/water) WATER

Lab Sample ID: 990334-04

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: L1666

Level: (low/med) LOW

Date Received: 04/21/99

% Moisture: not dec. _____

Date Analyzed: 04/29/99

GC Column: DB624 ID: 0.180 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Q

1330-20-7-----Xylene (total) _____

18

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

IR02GW0899B

Lab Name: CEIMIC CORP

Contract: BAKER

Lab Code: CEIMIC Case No.: 62470

SAS No.: _____

SDG No.: 02GW12

Matrix: (soil/water) WATER

Lab Sample ID: 990334-03

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: L1665

Level: (low/med) LOW

Date Received: 04/21/99

% Moisture: not dec. _____

Date Analyzed: 04/29/99

GC Column: DB624 ID: 0.180 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q
---------	----------	---	---

74-87-3-----	Chloromethane	5	U
74-83-9-----	Bromomethane	5	U
75-01-4-----	Vinyl Chloride	5	U
75-00-3-----	Chloroethane	5	U
75-09-2-----	Methylene Chloride	5	U
67-64-1-----	Acetone	10	U
75-15-0-----	Carbon Disulfide	5	U
75-35-4-----	1,1-Dichloroethene	5	U
75-34-3-----	1,1-Dichloroethane	5	U
156-59-2-----	cis-1,2-Dichloroethene	5	U
156-60-5-----	trans-1,2-Dichloroethene	5	U
67-66-3-----	Chloroform	5	U
107-06-2-----	1,2-Dichloroethane	5	U
78-93-3-----	2-Butanone	10	U
71-55-6-----	1,1,1-Trichloroethane	5	U
56-23-5-----	Carbon Tetrachloride	5	U
75-27-4-----	Bromodichloromethane	5	U
78-87-5-----	1,2-Dichloropropane	5	U
10061-01-5-----	cis-1,3-Dichloropropene	5	U
79-01-6-----	Trichloroethene	5	U
124-48-1-----	Dibromochloromethane	5	U
79-00-5-----	1,1,2-Trichloroethane	5	U
71-43-2-----	Benzene	5	U
10061-02-6-----	trans-1,3-Dichloropropene	5	U
75-25-2-----	Bromoform	5	U
108-10-1-----	4-Methyl-2-Pentanone	10	U
591-78-6-----	2-Hexanone	10	U
127-18-4-----	Tetrachloroethene	5	U
79-34-5-----	1,1,2,2-Tetrachloroethane	5	U
108-88-3-----	Toluene	5	U
108-90-7-----	Chlorobenzene	5	U
100-41-4-----	Ethylbenzene	5	U
100-42-5-----	Styrene	5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

IR02GW0899B

Lab Name: CEIMIC CORPContract: BAKERLab Code: CEIMIC Case No.: 62470SAS No.: _____ SDG No.: 02GW12Matrix: (soil/water) WATERLab Sample ID: 990334-03Sample wt/vol: 5.0 (g/mL) MLLab File ID: L1665Level: (low/med) LOWDate Received: 04/21/99

% Moisture: not dec. _____

Date Analyzed: 04/29/99GC Column: DB624 ID: 0.180 (mm)Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Q

1330-20-7-----Xylene (total) _____

15

U

30

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

IR02GW1099B

Lab Name: CEIMIC CORP

Contract: BAKER

Lab Code: CEIMIC Case No.: 62470 SAS No.: _____ SDG No.: 02GW12

Matrix: (soil/water) WATER

Lab Sample ID: 990334-05

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: L1722

Level: (low/med) LOW

Date Received: 04/21/99

% Moisture: not dec. _____

Date Analyzed: 04/30/99

GC Column: DB624 ID: 0.180 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q
---------	----------	---	---

74-87-3-----	Chloromethane	5	U
74-83-9-----	Bromomethane	5	U
75-01-4-----	Vinyl Chloride	5	U
75-00-3-----	Chloroethane	5	U
75-09-2-----	Methylene Chloride	5	U
67-64-1-----	Acetone	10	U
75-15-0-----	Carbon Disulfide	5	U
75-35-4-----	1,1-Dichloroethene	5	U
75-34-3-----	1,1-Dichloroethane	5	U
156-59-2-----	cis-1,2-Dichloroethene	5	U
156-60-5-----	trans-1,2-Dichloroethene	5	U
67-66-3-----	Chloroform	5	U
107-06-2-----	1,2-Dichloroethane	5	U
78-93-3-----	2-Butanone	10	U
71-55-6-----	1,1,1-Trichloroethane	5	U
56-23-5-----	Carbon Tetrachloride	5	U
75-27-4-----	Bromodichloromethane	5	U
78-87-5-----	1,2-Dichloroproppane	5	U
10061-01-5-----	cis-1,3-Dichloropropene	5	U
79-01-6-----	Trichloroethene	5	U
124-48-1-----	Dibromochloromethane	5	U
79-00-5-----	1,1,2-Trichloroethane	5	U
71-43-2-----	Benzene	5	U
10061-02-6-----	trans-1,3-Dichloropropene	5	U
75-25-2-----	Bromoform	5	U
108-10-1-----	4-Methyl-2-Pentanone	10	U
591-78-6-----	2-Hexanone	10	U
127-18-4-----	Tetrachloroethene	5	U
79-34-5-----	1,1,2,2-Tetrachloroethane	5	U
108-88-3-----	Toluene	5	U
108-90-7-----	Chlorobenzene	5	U
100-41-4-----	Ethylbenzene	5	U
100-42-5-----	Styrene	5	U

31

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

IR02GW1099B

Lab Name: CEIMIC CORP

Contract: BAKER

Lab Code: CEIMIC Case No.: 62470 SAS No.: _____ SDG No.: 02GW12

Matrix: (soil/water) WATER

Lab Sample ID: 990334-05

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: L1722

Level: (low/med) LOW

Date Received: 04/21/99

% Moisture: not dec. _____

Date Analyzed: 04/30/99

GC Column: DB624 ID: 0.180 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Q

1330-20-7-----Xylene (total) _____

15

U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

IR02GW1299B

Lab Name: CEIMIC CORP

Contract: BAKER

Lab Code: CEIMIC Case No.: 62470

SAS No.: _____ SDG No.: 02GW12

Matrix: (soil/water) WATER

Lab Sample ID: 990334-01

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: L1663

Level: (low/med) LOW

Date Received: 04/21/99

% Moisture: not dec. _____

Date Analyzed: 04/29/99

GC Column: DB624 ID: 0.180 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q
---------	----------	---	---

74-87-3-----	Chloromethane	5	U
74-83-9-----	Bromomethane	5	U
75-01-4-----	Vinyl Chloride	5	U
75-00-3-----	Chloroethane	5	U
75-09-2-----	Methylene Chloride	5	U
67-64-1-----	Acetone	2	J
75-15-0-----	Carbon Disulfide	5	U
75-35-4-----	1,1-Dichloroethene	5	U
75-34-3-----	1,1-Dichloroethane	5	U
156-59-2-----	cis-1,2-Dichloroethene	5	U
156-60-5-----	trans-1,2-Dichloroethene	5	U
67-66-3-----	Chloroform	5	U
107-06-2-----	1,2-Dichloroethane	5	U
78-93-3-----	2-Butanone	10	U
71-55-6-----	1,1,1-Trichloroethane	5	U
56-23-5-----	Carbon Tetrachloride	5	U
75-27-4-----	Bromodichloromethane	5	U
78-87-5-----	1,2-Dichloropropane	5	U
10061-01-5-----	cis-1,3-Dichloropropene	5	U
79-01-6-----	Trichloroethene	5	U
124-48-1-----	Dibromochloromethane	5	U
79-00-5-----	1,1,2-Trichloroethane	5	U
71-43-2-----	Benzene	5	U
10061-02-6-----	trans-1,3-Dichloropropene	5	U
75-25-2-----	Bromoform	5	U
108-10-1-----	4-Methyl-2-Pentanone	10	U
591-78-6-----	2-Hexanone	10	U
127-18-4-----	Tetrachloroethene	5	U
79-34-5-----	1,1,2,2-Tetrachloroethane	5	U
108-88-3-----	Toluene	5	U
108-90-7-----	Chlorobenzene	5	U
100-41-4-----	Ethylbenzene	8	
100-42-5-----	Styrene	5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

IR02GW1299B

Lab Name: CEIMIC CORPContract: BAKERLab Code: CEIMIC Case No.: 62470

SAS No.: _____

SDG No.: 02GW12Matrix: (soil/water) WATERLab Sample ID: 990334-01Sample wt/vol: 5.0 (g/mL) MLLab File ID: L1663Level: (low/med) LOWDate Received: 04/21/99

% Moisture: not dec. _____

Date Analyzed: 04/29/99GC Column: DB624 ID: 0.180 (mm)Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L

Q

1330-20-7-----Xylene (total) _____

97

34

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

IR02TB0199B

Lab Name: CEIMIC CORP

Contract: BAKER

Lab Code: CEIMIC Case No.: 62470 SAS No.: _____ SDG No.: 02GW12

Matrix: (soil/water) WATER

Lab Sample ID: 990334-06

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: L1718

Level: (low/med) LOW

Date Received: 04/21/99

% Moisture: not dec. _____

Date Analyzed: 04/30/99

GC Column: DB624 ID: 0.180 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u>	Q
---------	----------	---	---

74-87-3-----	Chloromethane	5	U
74-83-9-----	Bromomethane	5	U
75-01-4-----	Vinyl Chloride	5	U
75-00-3-----	Chloroethane	5	U
75-09-2-----	Methylene Chloride	5	U
67-64-1-----	Acetone	2	J
75-15-0-----	Carbon Disulfide	5	U
75-35-4-----	1,1-Dichloroethene	5	U
75-34-3-----	1,1-Dichloroethane	5	U
156-59-2-----	cis-1,2-Dichloroethene	5	U
156-60-5-----	trans-1,2-Dichloroethene	5	U
67-66-3-----	Chloroform	5	U
107-06-2-----	1,2-Dichloroethane	5	U
78-93-3-----	2-Butanone	10	U
71-55-6-----	1,1,1-Trichloroethane	5	U
56-23-5-----	Carbon Tetrachloride	5	U
75-27-4-----	Bromodichloromethane	5	U
78-87-5-----	1,2-Dichloropropane	5	U
10061-01-5-----	cis-1,3-Dichloropropene	5	U
79-01-6-----	Trichloroethene	5	U
124-48-1-----	Dibromochloromethane	5	U
79-00-5-----	1,1,2-Trichloroethane	5	U
71-43-2-----	Benzene	5	U
10061-02-6-----	trans-1,3-Dichloropropene	5	U
75-25-2-----	Bromoform	5	U
108-10-1-----	4-Methyl-2-Pentanone	10	U
591-78-6-----	2-Hexanone	10	U
127-18-4-----	Tetrachloroethene	5	U
79-34-5-----	1,1,2,2-Tetrachloroethane	5	U
108-88-3-----	Toluene	5	U
108-90-7-----	Chlorobenzene	5	U
100-41-4-----	Ethylbenzene	5	U
100-42-5-----	Styrene	5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

IR02TB0199B

Lab Name: CEIMIC CORP

Contract: BAKER

Lab Code: CEIMIC Case No.: 62470 SAS No.: _____ SDG No.: 02GW12

Matrix: (soil/water) WATER

Lab Sample ID: 990334-06

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: L1718

Level: (low/med) LOW

Date Received: 04/21/99

% Moisture: not dec. _____

Date Analyzed: 04/30/99

GC Column: DB624 ID: 0.180 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Q

1330-20-7-----Xylene (total) _____

15

U