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SEMIANNUAL MONITORING REPORT

OPERABLE UNIT NO. 4 - SITES 41 AND 74
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA

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SEMIANNUAL MONITORING REPORT

The semiannual monitoring report which follows presents a summary of sampling activities, field observations, analytical results, and significant findings which pertain to the monitoring program at Operable Unit (OU) No. 4 (Sites 41 and 74), Marine Corps Base (MCB) Camp Lejeune, North Carolina. Conclusions and recommendations regarding the monitoring program are also presented within this report.

Monitoring activities at OU No. 4 began in 1997 and have continued on a semiannual basis. The most recent sampling initiative commenced January 22, 1998 and concluded February 11, 1998. Groundwater samples at Site 41 were obtained from four shallow monitoring wells and one deep monitoring well. In addition to groundwater samples, surface water and sediment samples were obtained from eight sampling stations located throughout Site 41. Groundwater samples at Site 74 were obtained from four shallow monitoring wells. Figure 1 depicts groundwater, surface water, and sediment sampling locations at Site 41. Figure 2 depicts groundwater sampling locations at Site 74. [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. 4 (Baker, 1996). The project work plans identify a select number of monitoring wells at Sites 41 and 74 for which continued periodic sampling is required. Tables 1 and 2 provide construction details of monitoring wells included in the monitoring program. As stipulated in the project work plans, measurements of pH, specific conductance, dissolved oxygen, temperature, and turbidity were recorded prior to sampling. Summaries of groundwater field parameters from Sites 41 and 74 are provided in Tables 3 and 4, respectively.

The monitoring programs at Sites 41 and 74 were 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) and Target Analyte List (TAL) metals were identified as contaminants of concern at Site 41; metals were identified as a concern at Site 74. Tables 5 and 6 provide a summary of requested laboratory analyses and sample identifications.

Sample information, including well number, sample identification, time and date of sample collection, samplers, analytical parameters, and required laboratory turnaround time 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 flow patterns at Sites 41 and 74. Groundwater elevations and flow directions for each site are presented separately.

Site 41

Water level measurements were obtained at Site 41 on February 11, 1998. Table 7 provides a summary of water level measurements. Figure 3 depicts the static elevations and approximate flow direction of groundwater at Site 41. In general, shallow groundwater flows radially from the central, topographically higher, portion of the study area toward adjacent surface water bodies. Groundwater

flow direction mimics surface topography and is influenced locally by natural surface features including intermittent streams and marsh areas.

Site 74

Water level measurements at Site 74 were obtained on January 27, 1998. Table 8 provides a summary of water level measurements. Figure 4 depicts the static elevations and approximate flow direction of groundwater at Site 74. Groundwater flow within the surficial aquifer at Site 74 is influenced by nearby drainages and, to a lesser extent, Wallace Creek which lies further to the south. As depicted in Figure 4, groundwater at Site 74 flows primarily in an east-southeasterly direction.

Field Observations

The following field observations were noted during the most recent semiannual sampling event at Sites 41 and 74. Recommendations regarding the field observations which follow are presented in a latter portion of this report.

Monitoring wells installed at Sites 41 and 74 during the 1984 Confirmation Study have begun to exhibit signs of deterioration. Turbidity readings, obtained during sampling activities, suggest that soil material from the surrounding formation has begun to infiltrate the well screens and sand packs of older monitoring wells. Less than ideal sampling conditions may result when consistent readings of greater than 50 nephlometric turbidity units (NTUs) in groundwater are obtained. In general, it is preferable that groundwater samples be collected after turbidity readings stabilize at less than ten NTUs. Elevated turbidity readings are particularly of concern among groundwater samples submitted for metal analyses; the naturally-occurring metals cause high biased metal results.

ANALYTICAL RESULTS AND FINDINGS

The section which follows presents analytical results and findings from sampling performed at Sites 41 and 74 during the first calendar quarter of 1998. A summary of all analytical results compiled during the sampling event is presented in Attachment B and corresponding laboratory data sheets are provided in Attachment C.

Site 41

The analytical results and findings which follow are presented according to environmental media. Groundwater samples were obtained from five monitoring wells located throughout Site 41. In addition to groundwater samples, eight surface water and eight sediment samples were also collected at Site 41 (refer to Figure 1 for sampling locations).

Two trip blanks were prepared prior to the sampling event and kept with the volatile samples from Site 41 during field collection, shipment, and laboratory analysis. As provided in Table 9, methylene chloride was detected in both trip blank samples at estimated concentrations of 1.8 and 2.4 micrograms per liter (µg/L). Methylene chloride, a common laboratory contaminant, was also detected among method blank samples. Methylene chloride was therefore considered a laboratory artifact and not a site contaminant.

Groundwater Analytical Results

Four VOCs were detected among two of the five groundwater samples obtained at Site 41. Benzene was detected in the samples obtained from monitoring wells 41-GW11 and 41-GW11DW at estimated concentrations of 2.6 and 1.1 µg/L, respectively. The benzene detections each exceeded the applicable North Carolina Water Quality Standard (NCWQS) of 1.0 µg/L, but did not exceed the federal maximum contaminant level (MCL) for drinking water of 5.0 µg/L. A summary of groundwater analytical results is provided in Table 10. A positive detection summary of groundwater results is provided in Table 11.

In addition to benzene, the VOCs acetone and chlorobenzene were also detected in the groundwater sample obtained from 41-GW11. Acetone and chlorobenzene were detected at estimated concentrations of 13 and 1.1 µg/L in the sample obtained from 41-GW11. The NCWQSs for acetone and chlorobenzene are 700 and 50 µg/L, respectively. Acetone is a common laboratory contaminant and may have been introduced during sample preparation or analysis. The only other VOC detection was that of 1,2-dichloroethene (total) in the sample obtained from 41-GW11DW at an estimated concentration of 0.98 µg/L. However, only the two positive detections of benzene exceeded an applicable screening standard among groundwater samples obtained from Site 41.

As depicted in Figure 5, monitoring well 41-GW11 is located in the central portion of the study area, within 50 feet of deep monitoring well 41-GW11DW. The positive VOC detections in the sample obtained from deep monitoring well 41-GW11DW suggests that volatile contaminants have migrated from the surficial aquifer to the deeper aquifer. The lack of positive VOC detections in other samples obtained from the shallow aquifer at Site 41 suggests that the observed contaminants may be limited to the area surrounding monitoring wells 41-GW11 and 41-GW11DW.

Positive VOC detections among groundwater samples obtained at Site 41 have been documented in the past. Previous sampling results from shallow monitoring well 41-GW11 and deep monitoring well 41-GW11DW have exhibited benzene and chlorobenzene concentrations similar to those presented here (i.e., less than 5 µg/L). Table 12 provides a summary of VOC and metal results from groundwater samples obtained during the past two years. Future sampling will be employed to determine the nature and persistence of observed VOCs and metals at Site 41.

As presented in Table 10, aluminum, iron, manganese, and thallium were the only metals detected at concentrations which exceeded either NCWQS or MCL among the five groundwater samples submitted for analyses from Site 41. Aluminum was detected in two of the five groundwater samples at concentrations of 32 µg/L and 1,270 µg/L; only the higher of the two detections exceeded the 200 µg/L secondary MCL. Iron and manganese were detected in each of the five groundwater samples obtained from Site 41. Iron concentrations ranged from 728 µg/L to 39,500 µg/L; all five positive detections of iron exceeded the 300 µg/L NCWQS. Four of the five manganese detections exceeded the NCWQS of 50 µg/L. Manganese concentrations among the groundwater samples obtained from Site 41 ranged from 7.2 µg/L to 428 µg/L.

Iron and manganese have been detected consistently above applicable standards among groundwater samples obtained from Site 41. Soils found within the coastal plain of North Carolina are naturally rich in metals, particularly iron and manganese. The observed concentrations of iron and manganese, and to a lesser extent aluminum and lead, in groundwater may be due more to geologic conditions (i.e., naturally occurring metals bound to unconsolidated soil particles) and sample acquisition methods than to mobile metal concentrations in the aquifer. The presence of metals in groundwater

is often the result of solids or colloids in aqueous samples. The metals detected among groundwater samples obtained from Site 41 may also be indicative of naturally occurring metals in the presence of acidic soils.

Thallium was the only other total metal identified among groundwater samples from Site 41 that exceeded an applicable water quality standard. Samples obtained from three of the monitoring wells at Site 41 had positive detections of thallium above the 2.0 µg/L MCL. The associated laboratory method blank, which was analyzed with all the samples obtained from Site 41, had a thallium concentration of 5.8 µg/L. The presence of thallium in the method blank, the frequency at which thallium was detected, and the lack of thallium detections among previous sampling results, suggests that thallium is a laboratory artifact. For this reason, thallium was not considered an actual site contaminant.

Both total suspended solid (TSS) and total dissolved solid (TDS) analyses were performed for each of the shallow groundwater samples obtained at Site 41. Suspended solids were detected at concentrations ranging from 6.0 to 80 milligrams per liter (mg/L) in 3 of the 5 samples. Dissolved solids were detected in each of the shallow groundwater samples at concentrations ranging from 58 to 1,200 mg/L. Three of the positive TDS concentrations exceeded the NCWQS of 500 mg/L.

Surface Water Analytical Results

Three surface water samples were collected from both Tank Creek and an unnamed tributary to Tank Creek at Site 41 (refer to Figure 1). Two additional surface water samples were also obtained from separate drainage ditches that flow into the unnamed tributary to Tank Creek. Each of the eight surface water samples were submitted for volatile organic and total metal analyses. Only one VOC was detected among surface water samples obtained from Site 41. Chlorobenzene was detected at an estimated concentration of 0.98 µg/L in sample 41-DD-SW02, obtained from one of the two drainage ditches. The North Carolina surface water standard for chlorobenzene is 195 µg/L. No other VOCs were detected among the eight surface water samples. Table 13 provides a summary of surface water analytical results. A positive detection summary of surface water results is presented in Table 14.

Metals were detected in each of the eight surface water samples. Laboratory analyses of the surface water samples indicate that 16 of 23 total metals were positively detected at Site 41. As presented in Table 13, copper, iron and mercury were the only metals identified at a concentrations in excess of either state or federal surface water criterion. The surface water samples obtained at stations 41-DD-SW02, 41-TC-SW10, 41-UT-SW02, and 41-UT-SW03 had copper detections exceeding the Region IV screening value of 6.54 µg/L. As provided in Table 13, the maximum copper concentration was 10 µg/L in the sample obtained at 41-UT-SW02. Iron was detected in three of the samples at concentrations of 1,030, 1,070, and 1,330 µg/L which exceeded the North Carolina fresh surface water standard of 1,000 µg/L. Mercury was the only other total metal identified among surface water samples from Site 41 that exceeded an applicable water quality standard. Three of the eight samples had positive detections of mercury; each above the 0.012 µg/L North Carolina standard.

Analytical results from previous investigations and results obtained during the monitoring program are relatively consistent. Samples obtained from the two drainage ditches which empty into the unnamed tributary have had positive chlorobenzene detections of 4.0 µg/L and 1.0 µg/L. Concentrations of total metals among surface water samples have remained consistent, with some variation. Historical data show that the metals arsenic, copper, iron, lead, and manganese have been present at concentrations which have exceeded state surface water quality standards. Due to the

composition of regional soils, these metals are commonly detected among surface waters at concentrations which exceed the applicable criteria, however.

Sediment Analytical Results

Eight sediment samples were collected in conjunction with the surface water samples. Each of the eight sediment samples were submitted for volatile organic and metal analyses. As presented in Table 15, three organic compounds were detected among the eight sediment samples. Acetone and 2-butanone were detected in sample 41-DD-SD02 at concentrations of 41 and 16 micrograms per kilogram (µg/kg). Only one detection of 2-butanone was recorded among the eight sediment samples. Methylene chloride was the only other VOC detected among the sediment samples obtained from Site 41. Similar VOCs have been detected at relatively low concentrations in sediments obtained from Site 41 during previous investigations. However, the only organic compounds detected during the monitoring program have been common laboratory contaminants. As such, the presence of acetone, methylene chloride, and 2-butanone at the observed concentrations may be the result of sample acquisition, preparation, or handling.

Laboratory analyses of the sediment samples obtained from Tank Creek, an unnamed tributary to Tank Creek, and two separate drainage ditches indicate that 18 of 23 metals were positively detected. As indicated in Table 15, chromium, copper, and nickel were the only metals detected at concentrations that exceeded Region IV sediment screening values. Sample 41-DD-SD02, obtained from one of the two drainage ditches, had the three metal detections that exceeded the applicable standards. Chromium was detected at a concentration of 84.4 milligrams per kilogram (mg/kg); the screening value for chromium is 52.3 mg/kg. The copper concentration in sample 41-DD-SD02 exceeded the 19 mg/kg screening value by nearly 21 mg/kg and nickel exceeded the 15.9 mg/kg screening value with a concentration of 41.7 mg/kg in the sample obtained from 41-DD-SD02.

Aluminum, barium, chromium, copper, iron, lead, manganese, vanadium, and zinc were detected in each of the eight samples. A positive detection summary of metals in sediment samples is presented in Table 16. The majority of both historical data and data generated during the monitoring program include metals (i.e., common analytes detected at similar concentrations). Concentrations of metals among sediment samples obtained at Site 41 are consistent with other samples collected at various sites throughout MCB, Camp Lejeune.

<u>Site 74</u>

Metals were detected in each of the four groundwater samples obtained at Site 74. Table 17 provides a summary of the groundwater analytical results. A positive detection summary of metals detected among groundwater samples obtained at Site 74 is presented in Table 18. Figure 6 depicts the locations and groundwater analytical results of total metals that were detected at concentrations in excess of either NCWQS or MCL.

Aluminum, iron, and thallium were the only metals detected among the four groundwater samples at concentrations in excess of either the NCWQS or MCL. Aluminum exceeded the secondary MCL of 200 µg/L in each of the four samples obtained from Site 74 (refer to Figure 6). Aluminum concentrations ranged from 345 µg/L in sample 74-GW07 to 3,710 µg/L in sample 74-GW03A. Iron exceeded the NCWQS and secondary MCL of 300 µg/L in samples obtained from each of the four monitoring wells. Iron was detected at concentrations that ranged from 423 µg/L to 1,840 µg/L.

Concentrations of aluminum, iron, and manganese in groundwater samples obtained at MCB, Camp Lejeune often exceed established water quality standards. Soils found within the coastal plain of North Carolina are naturally rich in metals, particularly iron and manganese. The observed concentrations of iron and manganese, and to a lesser extent aluminum and lead, in groundwater are due more to geologic conditions (i.e., naturally occurring metals bound to unconsolidated soil particles) and sample acquisition methods than to mobile metal concentrations in the aquifer. Aluminum and iron were detected in each of the four groundwater samples at concentrations that exceeded applicable water quality standards. However, several hundred milligrams per liter of aluminum and iron are not unusual for natural groundwater samples obtained from near-coastal environs (USGS, 1992).

Thallium was the only other total metal identified among groundwater samples from Site 74 that exceeded an applicable water quality standard. Thallium was detected only once among the four groundwater samples obtained at Site 41. Thallium was detected at an estimated concentration of 3.4 µg/L in the sample obtained from 74-GW03A. The secondary MCL for thallium is 2.0 µg/L. The associated laboratory method blank, which was analyzed with all the samples obtained from Site 74, had a thallium concentration of 8.9 µg/L. The presence of thallium in the method blank and the lack of thallium detections among previous sampling results, suggests that thallium is a laboratory artifact. For this reason, thallium was not considered an actual site contaminant.

Previous sampling events at Site 74, completed prior to initiation of the monitoring program, have documented similar findings. With the noted exception of thallium, the same metals have been detected consistently among groundwater samples obtained at Site 74. Specifically, a review of the historical data indicates that aluminum, iron, lead, manganese, and selenium have been detected at concentrations which have exceeded applicable standards among groundwater samples. The previous results and findings also indicated that natural site conditions have contributed to the majority of the detected metal concentrations.

RECOMMENDATIONS

The Record of Decision (ROD) for OU No. 4 stipulates that environmental samples from Sites 41 and 74 be collected periodically to monitor the possible migration of potential site contaminants (Baker, 1995). The sections which follow describe recommendations in support of the selected remedy, periodic monitoring, which have been implemented or are being proposed for future consideration. Details pertaining to the implemented recommendations have been presented within previous monitoring reports. The intent of this report is to provide a brief listing of implemented actions and a thorough description of any proposed recommendations.

Implemented Recommendations

Bollards and protective casings of monitoring wells installed during the 1984 Confirmation Study were repainted with weather resistant paint in February 1997. Rust and peeling paint were removed prior to application of the new paint. In addition, new padlocks that operate with a universal key were installed on each monitoring well at Sites 41 and 74.

Proposed Recommendations

Based upon the observations and findings presented in this semiannual report, the following recommendations for the monitoring program at OU No. 4 are provided. If non-significant changes are made to a component of the selected remedy described in the ROD (Baker, 1995), the changes must be recorded in a post-decision document file. If significant changes are made to a component of the selected remedy, the changes will need to be presented in an Explanation of Significant Differences document.

Modify Site 41 Sample Analyses

Groundwater samples collected at Site 41 are currently submitted for both dissolved and suspended solid analyses. Wet chemistry analyses are included in the monitoring program to correlate with total metal results. Although the amount of suspended material corresponds with the concentration of metals detected in groundwater samples, the additional information is superfluous. The relative amount of suspended material in each sample can be surmised from turbidity readings recorded during sample collection. Other water quality parameters, including pH and conductivity, may also be employed to supplement information regarding total metal concentrations. Finally, North Carolina has no provisions that account for TDS and TSS when evaluating total metals. Therefore, it is recommended that groundwater samples no longer be submitted for wet chemistry analyses.

Discontinue Site 74 Monitoring Activities

The ROD for OU No. 4 identifies metals in groundwater as the primary concern at Site 74. As a result, groundwater samples obtained during the monitoring program from Site 74 have been submitted for total metal analyses. During the past three sampling events, however, only aluminum and iron have exceeded an applicable water quality criterion (refer to Table 19). Aluminum has been detected at concentrations ranging from 228 to 3,710 µg/L among the samples obtained from Site 74. The secondary MCL for aluminum is 200 µg/L and there is no NCWQS. Iron has been detected among the same groundwater samples at concentrations ranging from 49 to 1,900 µg/L. The NCWQS for iron is 300 µg/L. Ten of the 16 most recent groundwater results have had positive iron detections in excess of the NCWQS.

The coastal plain environment of North Carolina is naturally rich in metals. As a result, aluminum, iron lead, and manganese have consistently been detected at concentrations in excess of either state or federal screening criteria among many of the groundwater samples obtained during the monitoring program. Iron and manganese have routinely been detected above applicable standards among groundwater samples obtained throughout MCB, Camp Lejeune. The recorded concentrations of iron and manganese, and to a lesser extent aluminum and lead, in groundwater are due to geologic conditions (i.e., naturally occurring metals bound to unconsolidated soil particles) and sample acquisition methods and not mobile metal concentrations in the aquifer. The metals detected among groundwater samples obtained from Site 74 are indicative of naturally occurring metals in the presence of acidic soils. Based upon this information, it is recommended that monitoring activities be discontinued at Site 74.

REFERENCES

Baker Environmental, Inc. (Baker). May 1995. Record of Decision for Operable Unit No. 4 (Sites 41 and 74). Final. Prepared for 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.

U.S. Geological Survey (USGS). 1992. Study and Interpretation of the Chemical Characteristics of Natural Water. Third Edition. Prepared by John D. Hem for the U.S. Department of the Interior.

TABLES

TABLE 1

SUMMARY OF WELL CONSTRUCTION DETAILS
OPERABLE UNIT NO. 4 - SITE 41
MONITORING AND O&M SUPPORT, CTO-0367
MCB, CAMP LEJEUNE, NORTH CAROLINA

Site 41 Well No.	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)	Sand Pack Interval Depth (feet, bgs)	Bentonite Interval Depth (feet, bgs)	Stick-Up (feet, ags)
41-GW02	NA	NA	NA	NA	NA	NA	NA	NA	NA
41-GW10	1994	13.93	12.1	14.0	13.0	3.0 - 13.0	1.5 - 14.0	0.5 - 1.5	1.8
41-GW11	1994	24.69	21.5	16.0	15.0	5.0 - 15.0	3.0 - 16.0	0.5 - 3.0	3.2
41-GW11DW	1994	23.63	21.5	52.0	50.0	40.0 - 50.0	37.0 52.0	35.0 - 37.0	2.1
41-GW12	1994	8.41	6.4	17.0	16.0	6.0 - 16.0	4.0 - 17.0	2.0 - 4.0	2.0

Notes:

ags = above ground surface
bgs = below ground surface
msl = mean sea level
NA = Information not available

TABLE 2

SUMMARY OF WELL CONSTRUCTION DETAILS
OPERABLE UNIT NO. 4 - SITE 74
MONITORING AND O&M SUPPORT, CTO-0367
MCB, CAMP LEJEUNE, NORTH CAROLINA

Site 74 Well No.	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)	Sand Pack Interval Depth (feet, bgs)	Bentonite Interval Depth (feet, bgs)	Stick-Up (feet, ags)
74-GW01	1984	NA	NA	NA	24.5	8.5 - 23.5	NA	NA	NA
74-GW02	1984	NA	NA	NA	26.5	12.5 - 27.5	NA	NA	NA
74-GW03A	1986	NA	NA	NA	26.5	11.5 - 26.5	NA	NA	NA
74-GW07	1994	34.52	32.4	17.0	16.5	6.5 - 16.5	3.5 - 17.0	1.5 - 3.5	2.1

Notes:

ags = above ground surface
bgs = below ground surface
msl = mean sea level
NA = Information not available

TABLE 3

SUMMARY OF GROUNDWATER FIELD PARAMETERS
OPERABLE UNIT NO. 4 - SITE 41
MONITORING AND O&M SUPPORT, CTO-0367
MCB, CAMP LEJEUNE, NORTH CAROLINA

Well Number (Sample Date)	Measuring Time	Well Volumes	Field Parameters				
			Dissolved Oxygen (mg/L)	Specific Conductance (µmhos/cm)	Temperature (°C)	pH (S.U.)	Turbidity (N.T.U.)
41-GW02 (02/11/98)	0720	1.0	2.6	1,012	12.8	5.58	32
	0728	2.0	1.7	1,013	12.7	6.29	13
	0739	3.0	1.4	1,013	12.9	6.25	11
	0751	4.0	1.4	1,016	12.9	6.28	5.4
41-GW10 (02/10/98)	1622	1.0	5.8	271	12.8	6.09	48
	1657	2.0	5.9	274	12.7	5.97	23
	1707	3.0	6.1	279	12.7	5.92	12
41-GW11 (02/11/98)	0735	1.0	1.7	1,251	14.2	6.69	1.7
	0745	2.0	1.6	1,257	14.0	6.63	1.6
	0755	3.0	1.7	1,248	14.1	6.62	1.7
41-GW11DW (02/11/98)	0746	1.0	1.7	1,939	16.9	6.28	1.2
	0804	1.5	1.7	1,914	16.4	6.30	1.3
	0818	2.0	1.8	1,923	16.6	6.31	1.0
	0832	2.5	1.8	1,909	16.7	6.32	0.9
	0850	3.0	1.7	1,875	16.7	6.34	1.0
41-GW12 (02/11/98)	1011	1.0	2.0	273	14.6	6.01	10
	1029	2.0	1.8	280	14.7	6.03	9.5
	1047	3.0	2.0	277	14.6	6.04	6.3

Notes:

N.T.U. = Nephelometric Turbidity Units
S.U. = Standard Units
µmhos/cm = micro ohms per centimeter
°C = Degrees Centigrade
mg/L = milligrams per liter

TABLE 4

SUMMARY OF GROUNDWATER FIELD PARAMETERS
OPERABLE UNIT NO. 4 - SITE 74
MONITORING AND O&M SUPPORT, CTO-0367
MCB, CAMP LEJEUNE, NORTH CAROLINA

Well Number (Sample Date)	Measuring Time	Well Volumes	Field Parameters				
			Dissolved Oxygen (mg/L)	Specific Conductance (µmhos/cm)	Temperature (°C)	pH (S.U.)	Turbidity (N.T.U.)
74-GW01 (01/22/98)	1244	1.0	2.0	77	16.5	3.28	4.1
	1250	2.0	2.5	76	16.3	3.35	1.0
	1256	3.0	2.9	75	16.2	3.32	1.4
	1304	4.0	2.6	76	16.2	3.44	1.8
74-GW02 (01/22/98)	1030	1.0	3.8	144	15.8	4.28	2.4
	1040	2.0	3.9	146	15.9	4.14	0.9
	1050	3.0	4.2	142	15.7	4.08	0.9
	1100	4.0	4.2	142	16.2	3.97	0.9
74-GW03A (01/22/98)	1118	1.0	1.9	112	16.7	3.75	18
	1133	2.0	1.7	115	16.8	3.77	19
	1153	3.0	1.4	113	17.1	3.75	9.9
	1215	4.0	2.2	115	16.4	3.74	9.6
74-GW07 (01/22/98)	0928	2.0	2.0	99	13.6	4.09	2.3
	0939	3.0	2.3	94	14.3	4.41	1.5
	0952	4.0	1.8	94	14.2	4.49	1.1
	1001	5.0	2.5	92	14.3	4.42	1.0

Notes:

N.T.U. = Nephelometric Turbidity Units
S.U. = Standard Units
µmhos/cm = micro ohms per centimeter
°C = Degrees Centigrade
mg/L = milligrams per liter

TABLE 5

SAMPLING SUMMARY
OPERABLE UNIT NO. 4 - SITE 41
MONITORING AND O&M SUPPORT, CTO-0367
MCB, CAMP LEJEUNE, NORTH CAROLINA

Location	Media	CLP Volatiles[1]	TAL Metals[2]	Total Dissolved Solids[3]	Total Suspended Solids[3]	Laboratory Sample Identification
41-GW02	Groundwater	X	X	X	X	IR41-GW02-98A
41-GW10	Groundwater	X	X	X	X	IR41-GW10-98A
41-GW11	Groundwater	X	X	X	X	IR41-GW11-98A
41-GW11DW	Groundwater	X	X	X	X	IR41-GW11DW-98A
41-GW12	Groundwater	X	X	X	X	IR41-GW12-98A
41-UT-SW01	Surface Water	X	X			IR41-UT-SW01-98A
41-UT-SW02	Surface Water	X	X			IR41-UT-SW02-98A
41-UT-SW03	Surface Water	X	X			IR41-UT-SW03-98A
41-TC-SW10	Surface Water	X	X			IR41-TC-SW10-98A
41-TC-SW11	Surface Water	X	X			IR41-TC-SW11-98A
41-TC-SW12	Surface Water	X	X			IR41-TC-SW12-98A
41-UT-SD01	Sediment	X	X			IR41-UT-SD01-98A
41-UT-SD02	Sediment	X	X			IR41-UT-SD02-98A
41-UT-SD03	Sediment	X	X			IR41-UT-SD03-98A
41-TC-SD10	Sediment	X	X			IR41-TC-SD10-98A
41-TC-SD11	Sediment	X	X			IR41-TC-SD11-98A
41-TC-SD12	Sediment	X	X			IR41-TC-SD12-98A
41-DD-SD01	Sediment	X	X			IR41-DD-SD01-98A
41-DD-SD02	Sediment	X	X			IR41-DD-SD02-98A

Notes:

(1) Target Compound List Volatiles by U.S. Environmental Protection Agency, Method 8260A.
(2) Target Analyte List Metals by U.S. Environmental Protectoin Agency, Contract Laboratory Protocol, Statement of Work, Document Number ILM03.0.
(3) Total Suspended and Dissolved Solids by Solid Waste Method 160.1 and 160.2.

X = Requested analysis

TABLE 6

SAMPLING SUMMARY
OPERABLE UNIT NO. 4 - SITE 74
MONITORING AND O&M SUPPORT, CTO-0367
MCB, CAMP LEJEUNE, NORTH CAROLINA

Location	Media	TAL Metals[1]	Total Dissolved Solids[2]	Total Suspended Solids[2]	Laboratory Sample Identification
74-GW01	Groundwater	X	X	X	IR74-GW01-98A
74-GW02	Groundwater	X	X	X	IR74-GW02-98A
74-GW03A	Groundwater	X	X	X	IR74-GW03A-98A
74-GW07	Groundwater	X	X	X	IR74-GW07-98A

Notes:

(1) Target Analyte List Metals by U.S. Environmental Protectoin Agency, Contract Laboratory Protocol, Statement of Work, Document Number ILM03.0.
(2) Total Suspended and Dissolved Solids by Solid Waste Method 160.1 and 160.2.

X = Requested analysis

TABLE 7

SUMMARY OF WATER LEVEL MEASUREMENTS
OPERABLE UNIT NO. 4 - SITE 41
MONITORING AND O&M SUPPORT, CTO-0367
MCB, CAMP LEJEUNE, NORTH CAROLINA

Well ID	Reference Elevation [1]	SWE (02/28/97)	SWE (08/13/97)	SWL (02/11/98)	SWE (02/11/98)
41-GW01	22.60	16.03	12.14	5.68	16.92
41-GW02	14.63	10.82	6.72	3.53	11.10
41-GW03	19.23	9.81	NA	8.32	10.91
41-GW04	11.99	6.35	3.82	5.41	6.58
41-GW07	22.73	14.48	10.47	7.51	15.22
41-GW08	19.48	12.45	6.82	7.43	12.05
41-GW09	25.98	17.76	13.13	7.20	18.78
41-GW10	13.93	9.48	6.18	4.05	9.88
41-GW11	24.69	15.62	13.94	8.24	16.45
41-GW11DW	23.63	11.80	16.69	11.26	12.37
41-GW12	8.41	4.90	1.47	3.31	5.10
41-GW13	16.19	NA	3.26	7.62	8.57

Notes:

[1] 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
NA = Data not available

TABLE 8

SUMMARY OF WATER LEVEL MEASUREMENTS
OPERABLE UNIT NO. 4 - SITE 74
MONITORING AND O&M SUPPORT, CTO-0367
MCB, CAMP LEJEUNE, NORTH CAROLINA

Well ID	Reference Elevation [1]	SWE (02/07/97)	SWE (08/11/97)	SWL (01/22/98)	SWE (01/27/98)
74-GW01	35.88	26.51	21.13	14.90	20.98
74-GW02	35.23	24.80	19.71	14.39	20.84
74-GW03A	36.14	32.17	28.17	4.42	31.72
74-GW04	35.37	29.61	24.38	9.07	26.30
74-GW05	34.30	31.13	26.48	3.98	30.32
74-GW06	33.12	20.43	14.88	15.96	17.16
74-GW07	34.52	21.22	27.17	3.24	31.28
74-GW08	30.55	19.48	16.03	13.36	17.19

Notes:

[1] 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

TABLE 9

TRIP BLANK ANALYTICAL RESULTS
OPERABLE UNIT NO. 4 - SITE 41
MONITORING AND O&M SUPPORT, CTO-0367
MCB, CAMP LEJEUNE, NORTH CAROLINA

SAMPLE ID	IR41-TB01-98A	IR41-TB02-98A
DATE SAMPLED	02-09-1998	02-11-1998
VOLATILES (ug/L)		
1,1,1-Trichloroethane	5 U	5 U
1,1,2,2-Tetrachloroethane	5 U	5 U
1,1,2-Trichloroethane	5 U	5 U
1,1-Dichloroethane	5 U	5 U
1,1-Dichloroethene	5 U	5 U
1,2-Dichloroethane	5 U	5 U
1,2-Dichloroethene (total)	5 U	5 U
1,2-Dichloropropane	5 U	5 U
2-Butanone	20 U	20 U
2-Hexanone	20 U	20 U
4-Methyl-2-pentanone	20 U	20 U
Acetone	20 U	20 U
Benzene	5 U	5 U
Bromodichloromethane	5 U	5 U
Bromoform	5 U	5 U
Bromomethane	10 U	10 U
Carbon disulfide	5 U	5 U
Carbon tetrachloride	5 U	5 U
Chlorobenzene	5 U	5 U
Chloroethane	10 U	10 U
Chloroform	5 U	5 U
Chloromethane	10 U	10 U
Dibromochloromethane	5 U	5 U
Ethylbenzene	5 U	5 U
Methylene chloride	1.8 JB	2.4 JB
Styrene	5 U	5 U
Tetrachloroethene	5 U	5 U
Toluene	5 U	5 U
Trichloroethene	5 U	5 U
Vinyl chloride	10 U	10 U
Xylenes (total)	5 U	5 U
cis-1,3-Dichloropropene	5 U	5 U
trans-1,3-Dichloropropene	5 U	5 U

U = Not detected

J = Estimated Value

B = Detected in Blank

ug/L = Micrograms per liter

TABLE 10

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
OPERABLE UNIT NO. 4 - SITE 41
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
Volatiles	Acetone	700	NE	13 J	13 J	41-GW11	1/5	0	NA
	Benzene	1	5	1.1 J	2.6 J	41-GW11	2/5	2	0
	Chlorobenzene	50	100	1.1 J	1.1 J	41-GW11	1/5	0	0
	1,2-Dichloroethene (total)	NE	NE	0.98 J	0.98 J	41-GW11DW	1/5	NA	NA
Total Metals	Aluminum	NE	200 (1)	32	1,270	41-GW10	2/5	NA	1
	Arsenic	50	50	3.3 J	3.3 J	41-GW11	1/5	0	0
	Barium	2,000	2,000	20.7 J	519	41-GW11	5/5	0	0
	Chromium	50	100	3.9 J	11	41-GW11DW	3/5	0	0
	Copper	1,000	1,300	6.7 J	15.1 J	41-GW02	4/5	0	0
	Iron	300	300 (1)	728	39,500	41-GW11	5/5	5	5
	Lead	15	15	12.6	12.6	41-GW11	1/5	0	0
	Manganese	50	50 (1)	7.2 J	428	41-GW02	5/5	4	4
	Mercury	1.1	2.0	0.04 J	0.08 J	41-GW11DW	4/5	0	0
	Nickel	100	100	17 J	17 J	41-GW11	1/5	0	0
	Thallium (2)	NE	2.0	3.2 J	6.1 J	41-GW11	3/5	3	3
	Zinc	2,100	5,000 (1)	12.9 J	52.6	41-GW11	5/5	0	0
Wet Chemistry	Total Dissolved Solids	500	500 (1)	58	1,200	41-GW11DW	5/5	3	3
	Total Suspended Solids	NE	NE	6.0	80	41-GW11	3/5	NA	NA

Notes:

Organic and Metal concentrations presented in micrograms per liter (µg/L) or parts per billion.
Wet chemistry concentrations presented in milligrams per liter (mg/L) or parts per million.

(1) - Secondary Federal Maximum Contaminant Level (Refer to MCL Note Below).
(2) - Thallium was detected in the associated method blank at an estimated concentration of 5.8 µg/L.

J = Estimated Value
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).
NA = Not Applicable
NCWQS = North Carolina Water Quality Standards (North Carolina Administrative Code, Title 15A, Subchapter 2L).
NE = Not Established

TABLE 11

POSITIVE DETECTIONS IN GROUNDWATER
OPERABLE UNIT NO. 4 - SITE 41
MONITORING AND O&M SUPPORT, CTO-0367
MCB, CAMP LEJEUNE, NORTH CAROLINA

SAMPLE ID	IR41-GW02-98A	IR41-GW10-98A	IR41-GW11-98A	IR41-GW11DW-98A	IR41-GW12-98A
DATE SAMPLED	02-10-1998	02-09-1998	02-11-1998	02-11-1998	02-11-1998
VOLATILES (ug/L)					
1,2-Dichloroethene (total)	5 U	5 U	5 U	0.98 J	5 U
Acetone	20 U	20 U	13 J	20 U	20 U
Benzene	5 U	5 U	2.6 J	1.1 J	5 U
Chlorobenzene	5 U	5 U	1.1 J	5 U	5 U
Methylene chloride	1.6 JB	1.4 JB	2.1 JB	2 JB	2.3 JB
TOTAL METALS (ug/L)					
Aluminum	31.6 J	1270	200 U	200 U	200 U
Arsenic	10 U	10 U	3.3 J	10 U	10 U
Barium	76.9 J	20.7 J	519	50.9 J	23.1 J
Calcium	161000	3070 J	116000	254000	53700
Chromium	6.6 J	10 U	3.9 J	11	10 U
Cobalt	50 U	50 U	6.8 J	50 U	14.6 J
Copper	15.1 J	8.4 J	10.8 J	25 U	6.7 J
Iron	33700	728	39500	3410	4910
Lead	3 U	3 U	12.6	3 U	3 U
Magnesium	23600	802 J	23800	7440	3070 J
Manganese	428	7.2 J	332	139	110
Mercury	0.06 J	0.2 U	0.049 J	0.081 J	0.035 J
Nickel	40 U	40 U	17 J	40 U	40 U
Potassium	16600	5000 U	32300	1600 J	5000 U
Sodium	28600	8240	58300	222000	6560
Thallium	3.2 J	10 U	6.1 J	5 J	10 U
Vanadium	36.7 J	21.1 J	33.5 J	46.3 J	27.7 J
Zinc	30.7	20	52.6	12.9 J	40.5
WET CHEMISTRY (mg/L)					
Total Dissolved Solids	590	58	560	1200	170
Total Suspended Solids	4 U	4 U	80	6	8

U = Not detected

J = Estimated Value

B = Detected in Blank

ug/L = micrograms per liter

mg/L = milligrams per liter

TABLE 12

VOLATILE COMPOUNDS AND METALS IN GROUNDWATER
MARCH 1996 - FEBRUARY 1998
OPERABLE UNIT NO. 4 - SITE 41
MONITORING AND O&M SUPPORT, CTO-0367
MCB, CAMP LEJEUNE, NORTH CAROLINA

Monitoring Well/ Volatile Compound	MCL	NCWQS	March 1996	February 1997	August 1997	February 1998
41-GW02						
Aluminum	200	NE	NA	205	NA	NA
Iron	300	300	28,900	27,200	25,300	33,700
Manganese	50	50	432	376	346	428
41-GW10						
Aluminum	200	NE	2,860	1,390	619	1,270
Iron	300	300	NA	NA	2,560	728
41-GW11						
Acetone	NE	700	ND	ND	ND	12 J
Benzene	5.0	1.0	4 J	4 J	4 J	2.6 J
Chlorobenzene	100	50	5 J	3 J	ND	1.1 J
Iron	300	300	60,200	32,700	26,600	39,500
Manganese	50	50	259	162	181	332
Lead	15	15	NA	21	NA	NA
41-GW11DW						
Vinyl Chloride	2.0	0.015	1.0 J	ND	ND	ND
1,2-Dichloroethene (total)	NE	NE	1.0 J	ND	ND	1.0 J
1,2-Dichloropropane	5.0	0.56	1.0 J	ND	ND	ND
Benzene	5.0	1.0	1.0 J	ND	ND	ND
Iron	300	300	3,340	2,810	2,820	3,410
Manganese	50	50	138	120	121	139
041-GW12						
Iron	300	300	4,820	5,400	1,930	4,910
Manganese	50	50	119	119	NA	110

Notes:

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

J = Estimated Result
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 or analyte detected at a concentration less than screening standard.
NCWQS = North Carolina Water Quality Standards. Values Applicable to Groundwater (North Carolina Administrative Code, Title 15A, Subchapter 2L).
ND = Not Detected
NE = Not Established

TABLE 13

SUMMARY OF SURFACE WATER ANALYTICAL RESULTS
OPERABLE UNIT NO. 4 - SITE 41
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	Region IV	Min.	Max.			NCWQS	Region IV
Volatiles	Chlorobenzene	NE	195	0.82 J	0.82 J	41-DD-SW01	1/6	NA	0
Total Metals	Aluminum	NE	NE	87.8 J	539	41-TC-SW10	8/8	NA	NA
	Arsenic	50	190	3.0 J	3.0 J	41-TC-SW11	1/8	0	0
	Barium	NE	NE	23.5 J	63.2 J	41-DD-SW02	8/8	NA	NA
	Chromium	50	11	3.4 J	7.0 J	41-DD-SW02	3/8	0	0
	Copper	7.0	6.54	4.1 J	10 J	41-UT-SW02	7/8	2	4
	Iron	1,000	NE	564	1,330	41-DD-SW02	8/8	3	NA
	Lead	25	1.32	1.2 J	1.2 J	41-TC-SW12	1/8	0	0
	Manganese	NE	NE	16	139	41-DD-SW02	8/8	NA	NA
	Mercury	0.012	0.13	0.035 J	0.097 J	41-TC-SW10	3/8	3	0
	Thallium	NE	NE	3.8 J	5.1 J	41-UT-SW03	2/8	NA	NA
	Vanadium	NE	NE	17.3 J	33.2 J	41-DD-SW02	8/8	NA	NA
	Zinc	230	58.9	16.2 J	49.1	41-TC-SW10	8/8	0	0

Notes:

Concentrations presented in micrograms per liter (µg/L) or parts per billion.

NA = Not Applicable
NCWQS = North Carolina Water Quality Standards (North Carolina Administrative Code, Title 15A, Subchapter 2B, Rule .0211).
ND = Not Detected
NE = Not Established
Region IV = U.S. Environmental Protection Agency, Region IV - Surface Water Screening Values Protective of Freshwater Aquatic Life.

TABLE 14

POSITIVE DETECTIONS IN SURFACE WATER
OPERABLE UNIT NO. 4 - SITE 41
MONITORING AND O&M SUPPORT, CTO-0367
MCB, CAMP LEJEUNE, NORTH CAROLINA

SAMPLE ID	IR41-DD-SW01-98A	IR41-DD-SW02-98A	IR41-TC-SW10-98A	IR41-TC-SW11-98A	IR41-TC-SW12-98A	IR41-UT-SW01-98A	IR41-UT-SW02-98A	IR41-UT-SW03-98A
DATE SAMPLED	02-09-1998	02-09-1998	02-11-1998	02-11-1998	02-11-1998	02-10-1998	02-11-1998	02-11-1998
VOLATILES (ug/L)								
Chlorobenzene	0.82 J	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylene chloride	1.4 JB	1.5 JB	1.4 JB	1.6 JB	1.5 JB	1.4 JB	1.7 JB	1.8 JB
TOTAL METALS (ug/L)								
Aluminum	87.8 J	88.7 J	539	536	450	279	244	274
Arsenic	10 U	10 U	10 U	3 J	10 U	10 U	10 U	10 U
Barium	45.1 J	63.2 J	30.2 J	29.6 J	29.8 J	24.8 J	23.7 J	23.5 J
Calcium	66900	97900	17400	17900	17400	37900	36800	35900
Chromium	10 U	7 J	10 U	10 U	10 U	3.9 J	3.4 J	10 U
Copper	25 U	6.7 J	6.9 J	4.1 J	4.9 J	4.7 J	10 J	9.4 J
Iron	652	1330	1070	1030	969	564	731	713
Lead	3 U	3 U	3 U	3 U	1.2 J	3 U	3 U	3 U
Magnesium	6000	10400	1660 J	1680 J	1650 J	1800 J	2220 J	2160 J
Manganese	34	139	34.4	29.7	30.4	16	28.2	24.5
Mercury	0.035 J	0.2 U	0.097 J	0.2 U	0.2 U	0.2 U	0.2 U	0.05 J
Potassium	3780 J	7550	964 J	5000 U	1010 J	1070 J	704 J	659 J
Sodium	11600	17800	11700	11600	11600	16200	11400	11100
Thallium	10 U	10 U	10 U	3.8 J	10 U	10 U	10 U	5.1 J
Vanadium	31.4 J	33.2 J	23 J	23.6 J	17.3 J	27.2 J	25.8 J	25.4 J
Zinc	16.2 J	18.3 J	49.1	20	39.7	26.4	33.2	26.4

U = Not detected
J = Estimated Value
B = Detected in Blank
ug/L = micrograms per liter

TABLE 15

SUMMARY OF SEDIMENT ANALYTICAL RESULTS
OPERABLE UNIT NO. 4 - SITE 41
MONITORING AND O&M SUPPORT, CTO-0367
MCB, CAMP LEJEUNE, NORTH CAROLINA

Fraction	Detected Compounds or Analytes	NOAA	Concentration Range		Location of Maximum Detection	Detection Frequency	Detections Above Comparison Criteria
			Min.	Max.			
Volatiles	Acetone	NE	41 J	41 J	41-DD-SD02	1/8	NA
	Methylene Chloride	NE	4.5 J	4.5 J	41-UT-SD01	1/8	NA
	2-Butanone	NE	16 J	16 J	41-DD-SD02	1/8	NA
Metals	Aluminum	NE	275	9,650	41-DD-SD02	8/8	NA
	Barium	NE	1.4 J	33.4 J	41-DD-SD02	8/8	NA
	Beryllium	NE	0.19 J	0.19 J	41-DD-SD02	1/8	NA
	Chromium	52.3	1.0 J	84.4	41-DD-SD02	8/8	1
	Cobalt	NE	3.7 J	3.7 J	41-DD-SD02	1/8	NA
	Copper	19	0.89 J	39.7	41-DD-SD02	8/8	1
	Iron	NE	206	6,400	41-DD-SD02	8/8	NA
	Lead	30.2	0.53 J	17.6	41-TC-SD10	8/8	0
	Manganese	NE	0.64 J	31	41-DD-SD02	8/8	NA
	Mercury	0.13	0.025 J	0.11	41-DD-SD02	7/8	0
	Nickel	15.9	41.7	41.7	41-DD-SD02	1/8	1
	Thallium	NE	1.1 J	1.1 J	41-DD-SD01	1/8	NA
	Vanadium	NE	3.4 J	19.1 J	41-DD-SD02	8/8	NA
	Zinc	124	6.1	62.6	41-DD-SD02	8/8	0

Notes:

Volatile Compound concentrations presented in micrograms per kilogram (µg/kg) or parts per billion.
Metal concentrations presented in milligrams per kilogram (mg/kg) or parts per million.

NA = Not Applicable
ND = Not Detected
NE = Not Established
NOAA = U.S. Environmental Protection Agency, Region IV - Adoption of Risk-Based Effects Values for Aquatic Life from the National Oceanic and Atmospheric Administration (NOAA).

TABLE 16

POSITIVE DETECTIONS IN SEDIMENT
OPERABLE UNIT NO. 4 - SITE 41
MONITORING AND O&M SUPPORT, CTO-0367
MCB, CAMP LEJEUNE, NORTH CAROLINA

SAMPLE ID	IR41-DD-SD01-98A	IR41-DD-SD02-98A	IR41-TC-SD10-98A	IR41-TC-SD11-98A	IR41-TC-SD12-98A	IR41-UT-SD01-98A	IR41-UT-SD02-98A	IR41-UT-SD03-98A
DATE SAMPLED	02/09/98	02/09/98	02/09/98	02/09/98	02/09/98	02/09/98	02/09/98	02/09/98
VOLATILES (ug/kg)								
2-Butanone	26 U	16 J	5.8 JB	27 U	25 U	26 U	25 U	24 U
Acetone	26 U	41 J	38 U	27 U	25 U	26 U	25 U	24 U
Methylene chloride	2.8 JB	8.2 JB	9.5 U	6.8 U	6.4 U	4.5 J	6.2 U	6.1 U
TOTAL METALS (mg/kg)								
Aluminum	1270	9650	3850	800	1050	3780	341	275
Barium	5.9 J	33.4 J	24.3 J	5.4 J	7.7 J	11.5 J	1.6 J	1.4 J
Beryllium	1.3 U	0.19 J	1.9 U	1.4 U	1.3 U	1.3 U	1.2 U	1.2 U
Calcium	587 J	2480	2220	266 J	345 J	36500	177 J	135 J
Chromium	3	84.4	5	1.4 J	2.1 J	7.3	1.7 J	1 J
Cobalt	13.1 U	3.7 J	18.9 U	13.6 U	12.7 U	13 U	12.4 U	12.1 U
Copper	1.7 J	39.7	2.5 J	1.1 J	0.89 J	1.8 J	1 J	0.95 J
Iron	2420	6400	2110	804	838	1960	447	206
Lead	4.4	16.6	17.6	1.8	2	9.5	0.54 J	0.53 J
Magnesium	52.9 J	444 J	186 J	38.6 J	46.5 J	600 J	22.4 J	16.1 J
Manganese	4.6	31	14.2	5.2	4.3	10.3	0.64 J	0.71 J
Mercury	0.04 J	0.11 J	0.09 J	0.043 J	0.035 J	0.13 U	0.035 J	0.025 J
Nickel	10.4 U	41.7	15.1 U	10.9 U	10.2 U	10.4 U	9.9 U	9.7 U
Potassium	1310 U	393 J	1890 U	1360 U	1270 U	1300 U	1240 U	1210 U
Sodium	42.9 J	108 J	62.4 J	32.7 J	23.4 J	128 J	40.1 J	15.4 J
Thallium	1.1 J	4.7 U	3.8 U	2.7 U	2.5 U	2.6 U	2.5 U	2.4 U
Vanadium	3.7 J	19.1 J	8.2 J	4.1 J	3.6 J	13.7	3.6 J	3.4 J
Zinc	23.4	62.6	16.6	10.5	10.8	16.2	6.1	6.4

U = Not detected
J = Estimated Value
B = Detected in Blank
ug/kg = micrograms per kilogram
mg/kg = milligrams per kilogram

TABLE 17

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
OPERABLE UNIT NO. 4 - SITE 74
MONITORING AND O&M SUPPORT, CTO-0367
MCB, CAMP LEJEUNE, NORTH CAROLINA

Fraction	Detected Analytes	Comparison Criteria		Concentration Range		Location of Maximum Detection	Detection Frequency	Detections Above	
		NCWQS	MCL	Min.	Max.			NCWQS	MCL
Total Metals	Aluminum	NE	200 (1)	345	3,710	74-GW03A	4/4	NA	4
	Barium	2,000	2,000	48.7 J	96.5 J	74-GW07	4/4	0	0
	Copper	1,000	1,300	3.3 J	7.4 J	74-GW07	3/4	0	0
	Iron	300	300 (1)	423	1,840	74-GW07	4/4	4	4
	Lead	15	15	2.5 J	2.5 J	74-GW02	2/4	0	0
	Manganese	50	50 (1)	5.3 J	8.8 J	74-GW02	4/4	0	0
	Mercury	1.1	2.0	0.048 J	0.054 J	74-GW01	4/4	0	0
	Thallium (2)	NE	2.0	3.4 J	3.4 J	74-GW03A	1/4	1	1
	Vanadium	NE	NE	9.5 J	13.6 J	74-GW03A	4/4	NA	NA
	Zinc	2100	5,000 (1)	2.5 J	8.7 J	74-GW03A	4/4	0	0
Wet Chemistry	Total Dissolved Solids	500	500 (1)	37	92	74-GW02	4/4	0	0
	Total Suspended Solids	NE	NE	15	15	74-GW01	1/4	NA	NA

Notes:

Metal concentrations presented in micrograms per liter (µg/L) or parts per billion.
Wet chemistry concentrations presented in milligrams per liter (mg/L) or parts per million.

(1) - Secondary Federal Maximum Contaminant Level (Refer to MCL Note Below).
(2) - Thallium was detected in the associated method blank at an estimated concentration of 8.9 µg/L.

J = Estimated Result
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).
NA = Not Applicable
NCWQS = North Carolina Water Quality Standards (North Carolina Administrative Code, Title 15A, Subchapter 2L).
NE = Not Established

TABLE 18

POSITIVE DETECTIONS IN GROUNDWATER
OPERABLE UNIT NO. 4 - SITE 74
MONITORING AND O&M SUPPORT, CTO-0367
MCB, CAMP LEJEUNE, NORTH CAROLINA

SAMPLE ID	IR74-GW01-98A	IR74-GW02-98A	IR74-GW03A-98A	IR74-GW07-98A
DATE SAMPLED	01-22-1998	01-22-1998	01-22-1998	01-22-1998
TOTAL METALS (ug/L)				
Aluminum	838	796	3710	345
Barium	48.7 J	54.2 J	58.9 J	96.5 J
Calcium	984 J	19200	290 J	515 J
Copper	3.9 J	25 U	3.3 J	7.4 J
Iron	423	724	803	1840
Lead	3 U	2.5 J	2.5 J	3 U
Magnesium	1950 J	1570 J	565 J	2310 J
Manganese	5.3 J	8.8 J	6.1 J	6.2 J
Mercury	0.054 J	0.05 J	0.051 J	0.048 J
Potassium	1070 J	5000 U	782 J	1020 J
Sodium	11400	3100 J	8700	8410
Thallium	10 U	10 U	3.4 J	10 U
Vanadium	10.6 J	10.7 J	13.6 J	9.5 J
Zinc	2.5 J	6 J	8.7 J	6 J
WET CHEMISTRY (mg/L)				
Total Dissolved Solids	37	92	60	61
Total Suspended Solids	15	4 U	4 U	4 U

U = Not detected
J = Estimated Value
ug/L = micrograms per liter
mg/L = milligrams per liter

TABLE 19

METALS IN GROUNDWATER ABOVE SCREENING STANDARDS
MARCH 1996 - JANUARY 1998
OPERABLE UNIT NO. 4 - SITE 74
MONITORING AND O&M SUPPORT, CTO-0367
MCB, CAMP LEJEUNE, NORTH CAROLINA

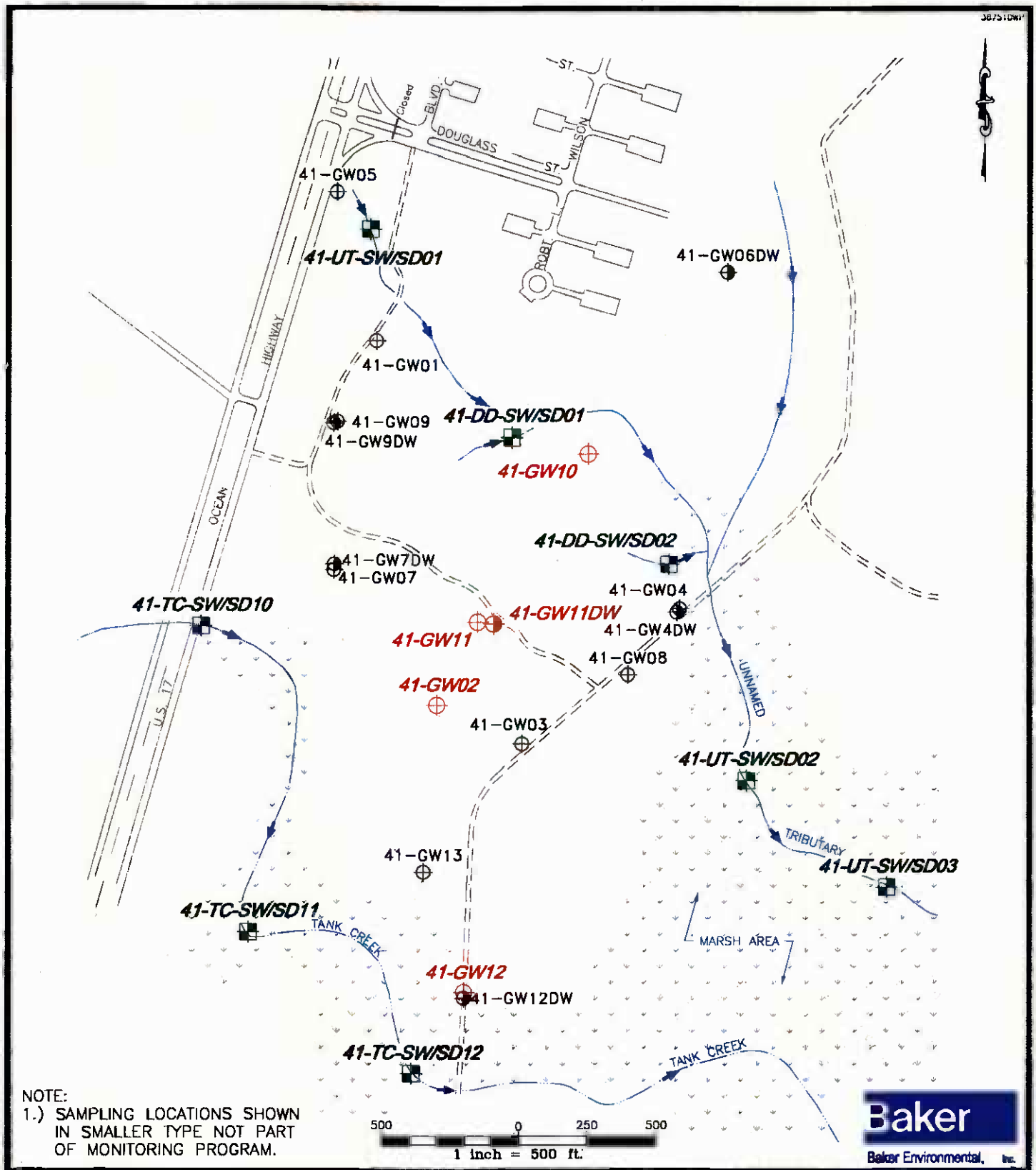
Monitoring Well/ Metal	MCL	NCWQS	March 1996	February 1997	August 1997	January 1998
74-GW01						
Aluminum	200	NE	460	228	411	838
Iron	300	300	NA	NA	NA	423
Thallium	2.0	NE	11	ND	ND	ND
74-GW02						
Aluminum	200	NE	418	239	585	796
Iron	300	300	NA	NA	NA	724
Thallium	2.0	NE	3.9	ND	ND	ND
74-GW03A						
Aluminum	200	NE	2,320	2,430	2,900	3,710
Iron	300	300	377	504	443	803
74-GW07						
Aluminum	200	NE	342	260	279	345
Iron	300	300	1,230	1,770	1,900	1,840
Thallium	2.0	NE	3.7	ND	ND	ND

Notes:

Concentrations expressed in micrograms per liter (µg/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.)
NA = Not applicable or analyte detected at a concentration less than screening standard.
NCWQS = North Carolina Water Quality Standards. Values Applicable to Groundwater (North Carolina Administrative Code, Title 15A, Subchapter 2L).
ND = Not Detected
NE = Not Established

FIGURES



NOTE:
1.) SAMPLING LOCATIONS SHOWN IN SMALLER TYPE NOT PART OF MONITORING PROGRAM.

Baker
Baker Environmental, Inc.

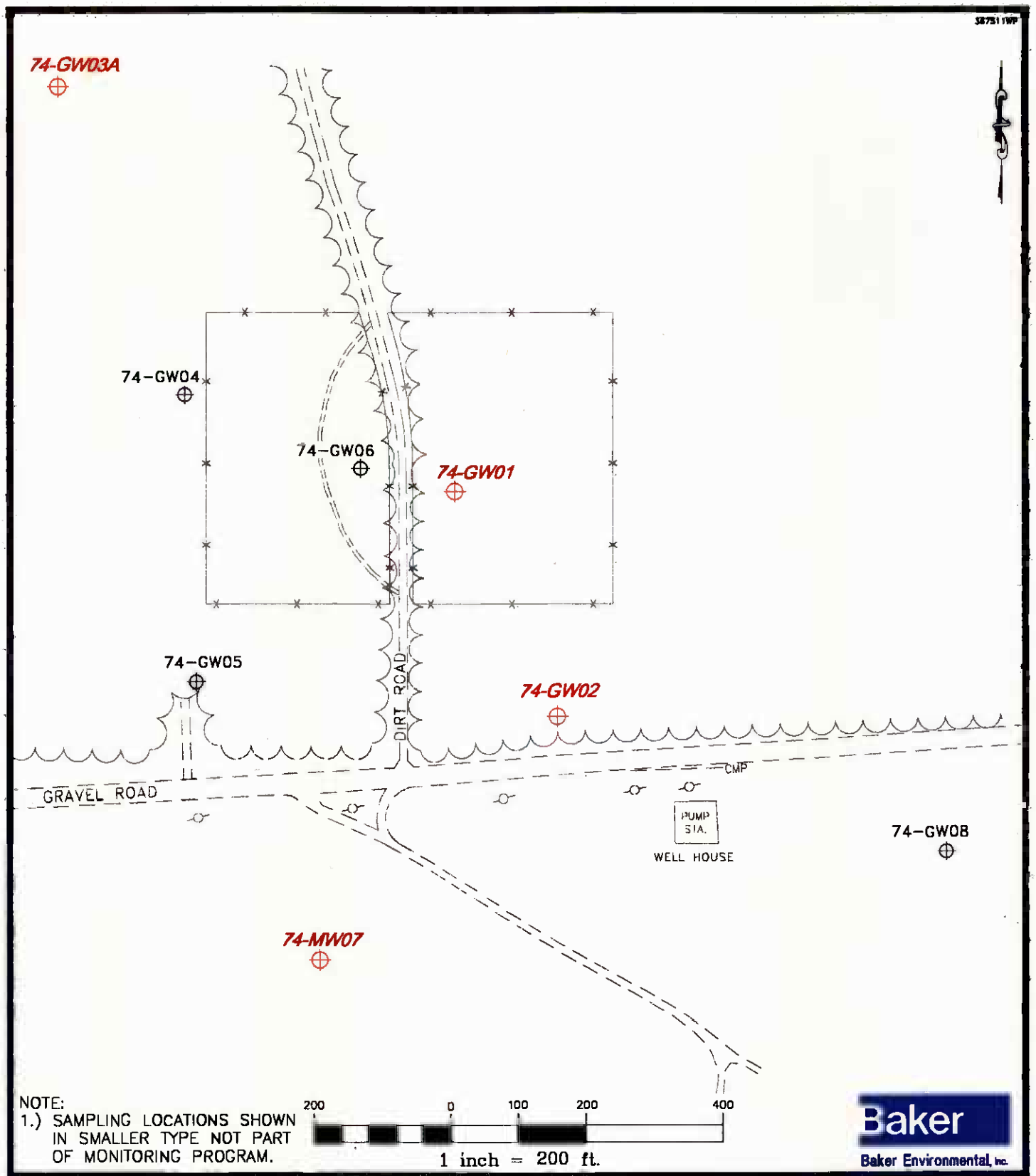
LEGEND

- 41-GW11DW — DEEP MONITORING WELL
- 41-GW01 — SHALLOW MONITORING WELL
- 41-TC-SW/SD01 — SURFACE WATER AND SEDIMENT SAMPLING STATION
- ROAD (IMPROVED)
- ROAD (UNIMPROVED)
- DIRECTION OF SURFACE WATER FLOW

SOURCE: LANTDIV, OCT. 1991

FIGURE 1
SAMPLING LOCATION MAP
OPERABLE UNIT NO. 4 – SITE 41
MONITORING AND O&M SUPPORT
CTO – 0367
MARINE CORPS BASE, CAMP LEJEUNE
NORTH CAROLINA

0223QKKBIY



NOTE:
1.) SAMPLING LOCATIONS SHOWN IN SMALLER TYPE NOT PART OF MONITORING PROGRAM.

200 0 100 200 400

1 inch = 200 ft.

Baker Environmental, Inc.

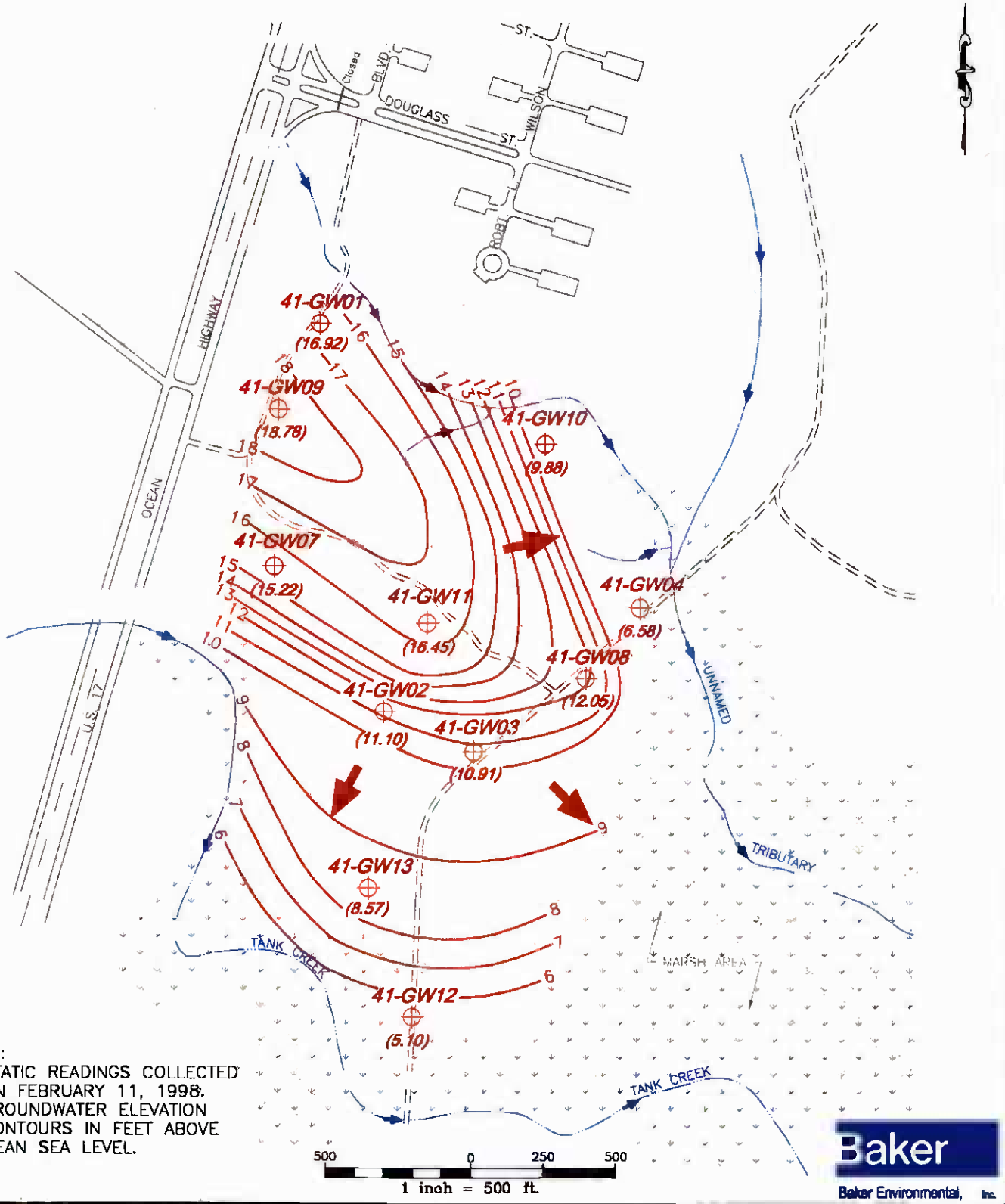
LEGEND

74-GW01 – SHALLOW MONITORING WELL
– SANITARY MANHOLE
– UTILITY POLE
– TREE LINE
– FENCE (APPROXIMATE)

SOURCE: LANTDIV. OCT. 1991

FIGURE 2
SAMPLING LOCATION MAP
OPERABLE UNIT NO. 4 – SITE 74
MONITORING AND O&M SUPPORT
CTO – 0367

MARINE CORPS BASE, CAMP LEJEUNE
NORTH CAROLINA



NOTES:
1.) STATIC READINGS COLLECTED ON FEBRUARY 11, 1998.
2.) GROUNDWATER ELEVATION CONTOURS IN FEET ABOVE MEAN SEA LEVEL.

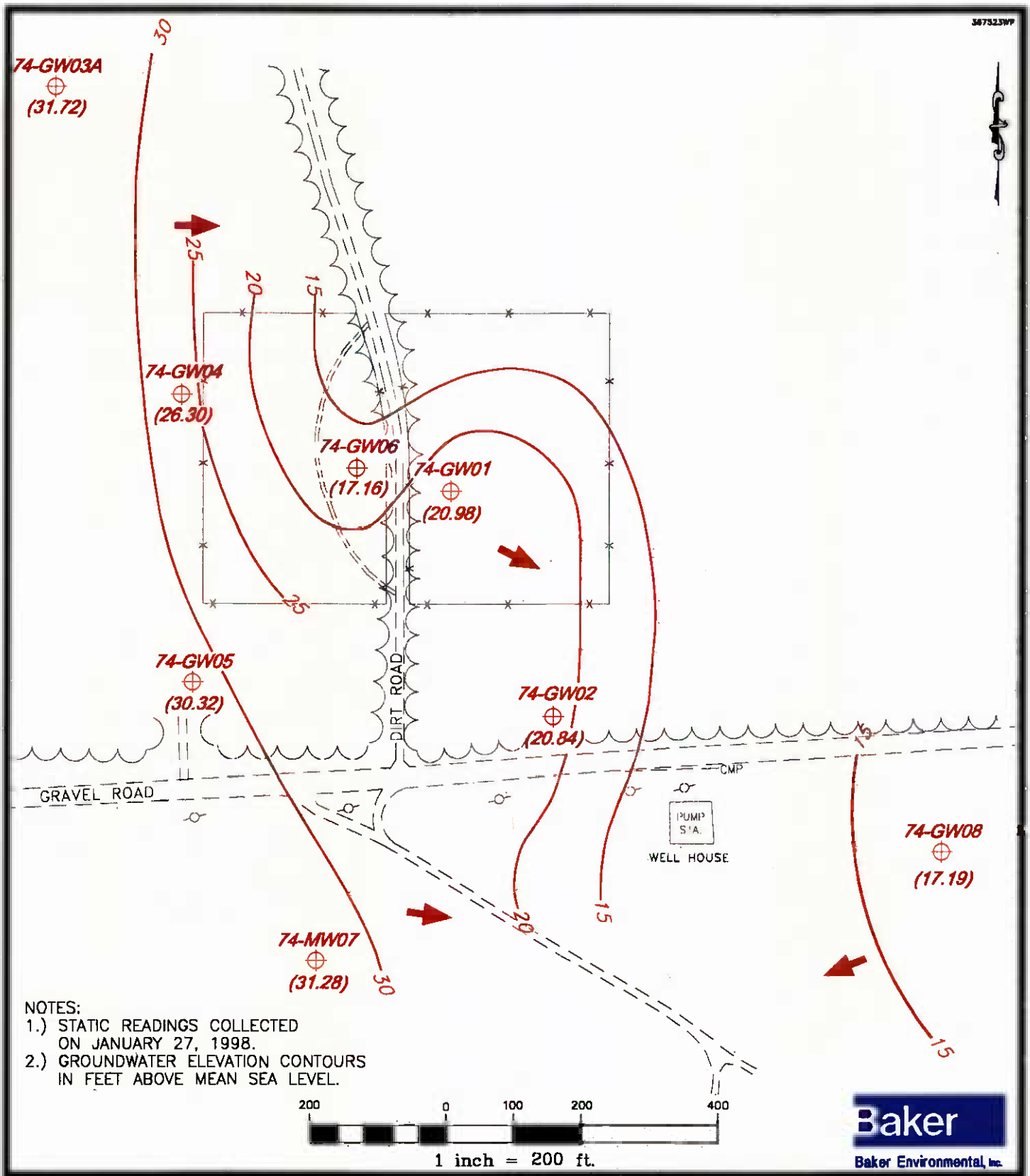
Baker
Baker Environmental, Inc.

LEGEND

- 41-GW01 – SHALLOW MONITORING WELL
- (6.72) – GROUNDWATER ELEVATION
- 10.0 – GROUNDWATER ELEVATION CONTOUR
- – APPROXIMATE DIRECTION OF GROUNDWATER FLOW
- – DIRECTION OF SURFACE WATER FLOW

SOURCE: LANTDIV, OCT. 1991

FIGURE 3
SHALLOW GROUNDWATER CONTOUR MAP
OPERABLE UNIT NO. 4 – SITE 41
MONITORING AND O&M SUPPORT
CTO – 0367
MARINE CORPS BASE, CAMP LEJEUNE
NORTH CAROLINA



LEGEND

74-GW01 ⊕ – SHALLOW MONITORING WELL

(27.17) – GROUNDWATER ELEVATION

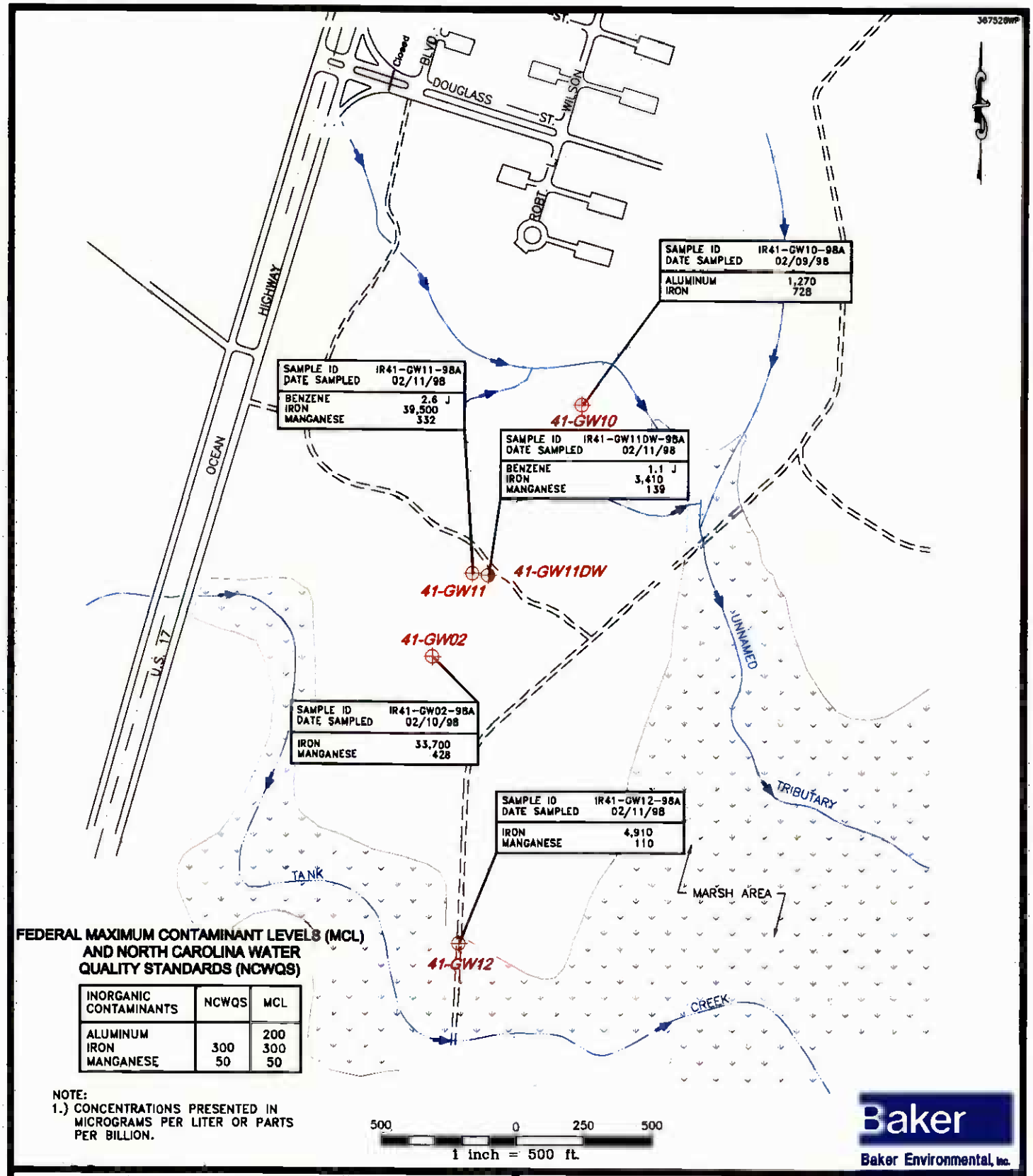
25 – GROUNDWATER ELEVATION CONTOUR

→ – APPROXIMATE DIRECTION OF GROUNDWATER FLOW

SOURCE: LANTDIV. OCT. 1991

FIGURE 4
SHALLOW GROUNDWATER CONTOUR MAP
OPERABLE UNIT NO. 4 – SITE 74
MONITORING AND O&M SUPPORT
CTO – 0367

MARINE CORPS BASE, CAMP LEJEUNE
NORTH CAROLINA



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

INORGANIC CONTAMINANTS	NCWQS	MCL
ALUMINUM		200
IRON	300	300
MANGANESE	50	50

NOTE:
1.) CONCENTRATIONS PRESENTED IN MICROGRAMS PER LITER OR PARTS PER BILLION.

Baker Environmental, Inc.

LEGEND

41-GW11DW – DEEP MONITORING WELL

41-GW01 – SHALLOW MONITORING WELL

– ROAD (IMPROVED)

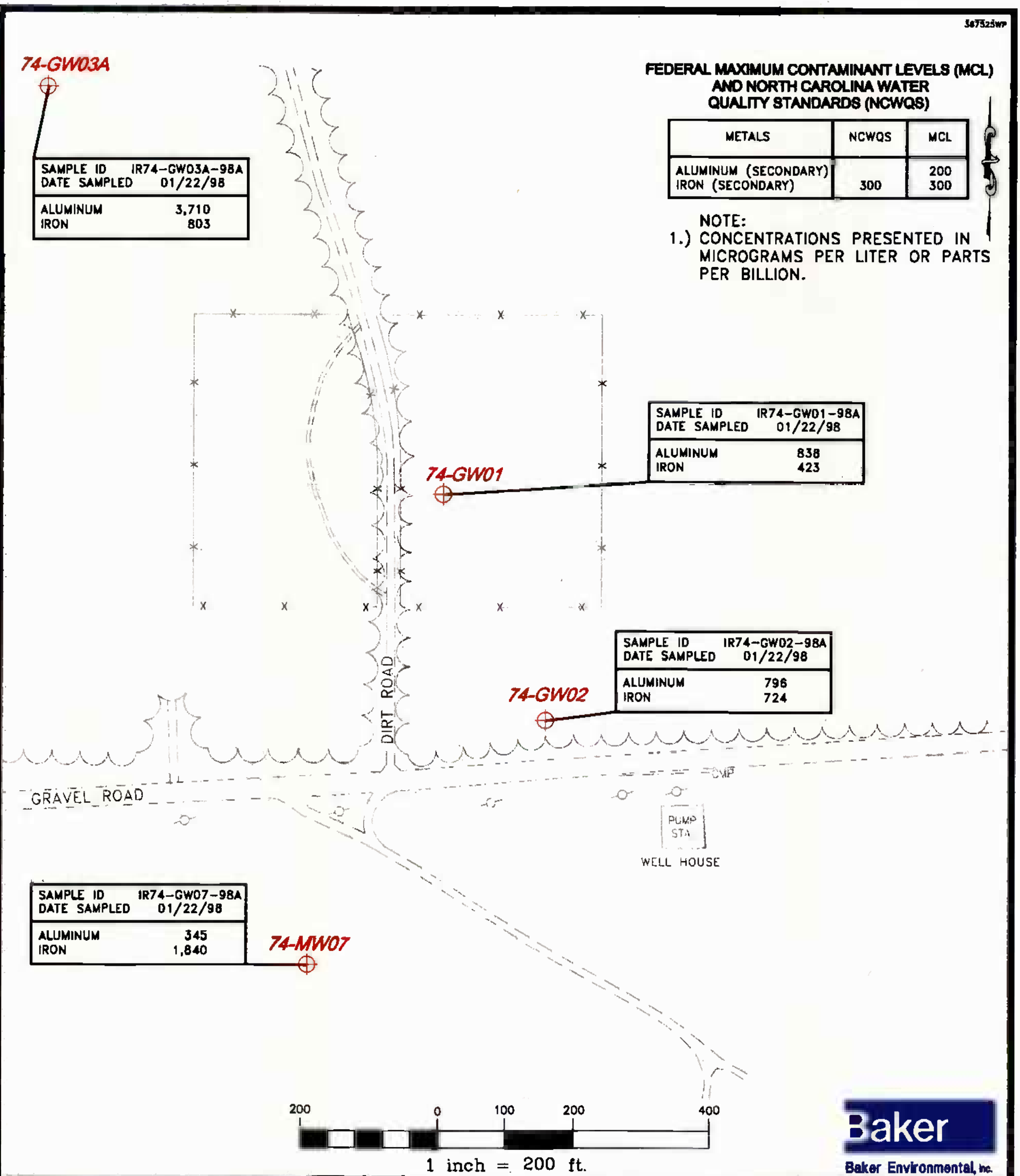
– ROAD (UNIMPROVED)

– DIRECTION OF SURFACE WATER FLOW

SOURCE: LANTDIV, OCT. 1991

FIGURE 5
ORGANICS AND METALS IN GROUNDWATER ABOVE SCREENING STANDARDS OPERABLE UNIT NO. 4 – SITE 41 MONITORING AND O&M SUPPORT CTO – 0367

MARINE CORPS BASE, CAMP LEJEUNE
NORTH CAROLINA



LEGEND

- 74-GW01 – SHALLOW MONITORING WELL
- – SANITARY MANHOLE
- – UTILITY POLE
- – TREE LINE
- – FENCE (APPROXIMATE)
- – APPROXIMATE GROUNDWATER FLOW DIRECTION

SOURCE: LANTDIV. OCT. 1991

FIGURE 6
METALS IN GROUNDWATER ABOVE SCREENING STANDARDS
OPERABLE UNIT NO. 4 – SITE 74
MONITORING AND O&M SUPPORT
CTO – 0367
MARINE CORPS BASE, CAMP LEJEUNE
NORTH CAROLINA

ATTACHMENTS

ATTACHMENT A
CHAIN-OF-CUSTODY DOCUMENTATION

SITE 41

[redacted]

Chain of Custody Record

QUA-4149-1

CHAIN OF CUSTODY NUMBER

* 0 0 0 7 5 4 - 0 0 1 *

COC# 36798A-12

Quanterra

Client: Baker Environmental, Inc.	Project Manager: Baker Environmental, Inc.	Date: 01/08/1998	Page 1 of 4
Address: Airport Office Park Bldg 3	Telephone Number (Area Code)/Fax Number: (412) 269-6000 / (000)	Lab Location: QUANTERRA - KNOXVILL	Analysis
City: Coraopolis; State: PA; Zip Code: 15108	Site Contact: Baker Environmental, Inc.		
Project Number/Name: Camp LeJeune	Carrier/Waybill Number: FedEx 802769750890		
Contract/Purchase Order/Quote Number: CONTRACT / PURCHASE ORDER # : 1998		QUOTE: 21108	

Sample I.D. Number and Description	Date	Time	Sample Type	Containers Volume	Containers Type	Containers No.	Preservative	Condition on Receipt/Comments	MS8260LL	MCLP30;L	MTCLP30L	TDS	TSS	MS8260;S	MTCLP30S	MCLP30;S
IR41-GW02-98A	2-10	0800	WATER	40mL	VIAL	3	1:1 HCL		X							
IR41-GW02-98A	2-10	0800	WATER	1000mL	PLASTIC	1	Conc HNO3			X	X					
IR41-GW02-98A	2-10	0800	WATER	1000mL	PLASTIC	1	None					X	X			
IR41-GW10-98A	2-9	1720	WATER	40mL	VIAL	3	1:1 HCL		X							
IR41-GW10-98A	2-9	1720	WATER	1000mL	PLASTIC	1	Conc HNO3			X	X					
IR41-GW10-98A	2-9	1720	WATER	1000mL	PLASTIC	1	None					X	X			
~~[illegible]~~			~~WATER~~	~~40mL~~	~~VIAL~~	~~3~~	~~1:1 HCL~~		X							
~~[illegible]~~			~~WATER~~	~~1000mL~~	~~PLASTIC~~	~~1~~	~~Conc HNO3~~			X	X					
~~[illegible]~~			~~WATER~~	~~1000mL~~	~~PLASTIC~~	~~1~~	~~None~~					X	X			
~~[illegible]~~			~~WATER~~	~~40mL~~	~~VIAL~~	~~3~~	~~1:1 HCL~~		X							
~~[illegible]~~			~~WATER~~	~~1000mL~~	~~PLASTIC~~	~~1~~	~~Conc HNO3~~			X	X					
~~[illegible]~~			~~WATER~~	~~1000mL~~	~~PLASTIC~~	~~1~~	~~None~~					X	X			
~~[illegible]~~			~~WATER~~	~~40mL~~	~~VIAL~~	~~3~~	~~1:1 HCL~~		X							
~~[illegible]~~			~~WATER~~	~~1000mL~~	~~PLASTIC~~	~~1~~	~~Conc HNO3~~			X	X					
~~[illegible]~~			~~WATER~~	~~1000mL~~	~~PLASTIC~~	~~1~~	~~None~~					X	X			

Special Instructions

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☒ Disposal By Lab ☐ Archive For ______ Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required: ☒ Normal ☐ Rush ☐ Other ______

QC Level: ☐ I. ☐ II. ☐ III.

Project Specific Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: [signature]	2-10-98	1700	1. Received By: FedEx	2-10-98	1700
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - ...

Chain of Custody Record

QUA-4149-1

CHAIN OF CUSTODY NUMBER

* 0 0 0 7 5 4 - 0 0 2 *

COC# 36798A-12

Quanterra

Client: Baker Environmental, Inc.	Project Manager: Baker Environmental, Inc.	Date: 01/08/1998	Page 2 of 4
Address: Airport Office Park Bldg 3	Telephone Number (Area Code)/Fax Number: (412) 269-6000 / (000)	Lab Location: QUANTERRA - KNOXVILL	Analysis
City: Coraopolis; State: PA; Zip Code: 15108	Site Contact: Baker Environmental, Inc.		
Project Number/Name: Camp LeJeune	Carrier/Waybill Number: FedEx 802769750890		
Contract/Purchase Order/Quote Number: CONTRACT / PURCHASE ORDER # : 1998		QUOTE: 21108	

Sample I.D. Number and Description	Date	Time	Sample Type	Containers Volume	Containers Type	Containers No.	Preservative	Condition on Receipt/Comments	MS8260LL	MCLP30:LL	MTCLP30LL	TDS	TSS	MS8260:S	MTCLP30S	MCLP30:S
IR41-UT-SW01-98A	2-10	0810	WATER	40mL	VIAL	3	1:1 HCL		X							
IR41-UT-SW01-98A	2-10	0810	WATER	1000mL	PLASTIC	1	Conc HNO3			X	X					
~~IR41-UT-SW02-98A~~			~~WATER~~	~~40mL~~	~~VIAL~~	~~3~~	~~1:1 HCL~~		X							
~~IR41-UT-SW02-98A~~			~~WATER~~	~~1000mL~~	~~PLASTIC~~	~~1~~	~~Conc HNO3~~			X	X					
~~IR41-UT-SW03-98A~~			~~WATER~~	~~40mL~~	~~VIAL~~	~~3~~	~~1:1 HCL~~		X							
~~IR41-UT-SW03-98A~~			~~WATER~~	~~1000mL~~	~~PLASTIC~~	~~1~~	~~Conc HNO3~~			X	X					
~~IR41-TC-SW10-98A~~			~~WATER~~	~~40mL~~	~~VIAL~~	~~3~~	~~1:1 HCL~~		X							
~~IR41-TC-SW10-98A~~			~~WATER~~	~~1000mL~~	~~PLASTIC~~	~~1~~	~~Conc HNO3~~			X	X					
~~IR41-TC-SW11-98A~~			~~WATER~~	~~40mL~~	~~VIAL~~	~~3~~	~~1:1 HCL~~		X							
~~IR41-TC-SW11-98A~~			~~WATER~~	~~1000mL~~	~~PLASTIC~~	~~1~~	~~Conc HNO3~~			X	X					
~~IR41-TC-SW12-98A~~			~~WATER~~	~~40mL~~	~~VIAL~~	~~3~~	~~1:1 HCL~~		X							
~~IR41-TC-SW12-98A~~			~~WATER~~	~~1000mL~~	~~PLASTIC~~	~~1~~	~~Conc HNO3~~			X	X					
IR41-DD-SW01-98A	2-9	1625	WATER	40mL	VIAL	3	1:1 HCL		X							
IR41-DD-SW01-98A	2-9	1625	WATER	1000mL	PLASTIC	1	Conc HNO3			X	X					
IR41-DD-SW02-98A	2-9	1740	WATER	40mL	VIAL	3	1:1 HCL		X							
IR41-DD-SW02-98A	2-9	1740	WATER	1000mL	PLASTIC	1	Conc HNO3			X	X					

Special Instructions

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☒ Disposal By Lab ☐ Archive For ______ Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required: ☒ Normal ☐ Rush ☐ Other ______

QC Level: ☐ I. ☐ II. ☐ III.

Project Specific Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By: [signature]	2-10-98	1700	1. Received By: FedEx	2-10-98	1700
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments

Chain of Custody Record

QUA-4149-1

CHAIN OF CUSTODY NUMBER

* 0 0 0 7 5 4 - 0 0 3 *

COC#36798A-12

Quanterra

Client	Project Manager	Date	Page 3 of 4
Baker Environmental, Inc.	Baker Environmental, Inc.	01/08/1998	
Address: Airport Office Park Bldg 3	Telephone Number (Area Code)/Fax Number: (412) 269-6000 / (000)	Lab Location: QUANTERRA - KNOXVILL	
City: Coraopolis / State: PA / Zip Code: 15108	Site Contact: Baker Environmental, Inc.		
Project Number/Name: Camp LeJeune	Carrier/Waybill Number:		
Contract/Purchase Order/Quote Number: CONTRACT / PURCHASE ORDER # : 1998		QUOTE: 21108	

Analysis columns: (1) MS8260OLL; (2) MCLP30;L; (3) MTCLP3OL; (4) TDS; (5) TSS; (6) MS8260;S; (7) MTCLP30;S; (8) MCLP30;S

Sample I.D. Number and Description	Date	Time	Sample Type	Containers Volume	Containers Type	Containers No.	Preservative	Condition on Receipt/Comments	MS8260OLL	MCLP30;L	MTCLP3OL	TDS	TSS	MS8260;S	MTCLP30;S	MCLP30;S
IR41-UT-SD01-98A	2-10	0815	SOLID	120mL	CLEAR GL	1	None								X	X
IR41-UT-SD01-98A	2-10	0815	SOLID	120mL	CLEAR GL	1	None							X		
IR41-TBØ1-98A	2-9	1200	Water	40ml	Clear	3	HCl		X							

Special Instructions

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☒ Disposal By Lab ☐ Archive For ______ Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required: ☒ Normal ☐ Rush ☐ Other ______

QC Level: ☐ I. ☐ II. ☐ III.

Project Specific Requirements (Specify)

1. Relinquished By	Date	Time	1. Received By	Date	Time
[signature]	2-10-98	1700	FedEx	2-10-98	1700
2. Relinquished By	Date	Time	2. Received By	Date	Time
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments

Quanterra

Chain of Custody Record

QUA-4149-1

CHAIN OF CUSTODY NUMBER

* 0 0 0 7 5 4 - 0 0 4 *

COC# 36798A-12

Client	Project Manager	Date	
Baker Environmental, Inc.	Baker Environmental, Inc.	01/08/1998	Page 4 of 4

Address	Telephone Number (Area Code)/Fax Number	Lab Location
Airport Office Park Bldg 3	(412) 269-6000 / (000)	QUANTERRA - KNOXVILL

City	State	Zip Code	Site Contact
Coraopolis	PA	15108	Baker Environmental, Inc.

Project Number/Name	Carrier/Waybill Number
Camp LeJeune	FedEx

Contract/Purchase Order/Quote Number

CONTRACT / PURCHASE ORDER # : 1998 QUOTE: 21108

Analysis

Sample I.D. Number and Description	Date	Time	Sample Type	Containers Volume	Containers Type	Containers No.	Preservative	Condition on Receipt/Comments	MS8260LL	MCLP30:LL	MTCLP30LL	TDS	TSS	MS8260:S	MTCLP30SS	MCLP30:S
~~IR41-UT-SD02-98A~~			~~SOLID~~	~~120mL~~	~~CLEAR GL~~	~~1~~	~~None~~								X	X
~~IR41-UT-SD02-98A~~			~~SOLID~~	~~120mL~~	~~CLEAR GL~~	~~1~~	~~None~~							X		
~~IR41-UT-SD03-98A~~			~~SOLID~~	~~120mL~~	~~CLEAR GL~~	~~1~~	~~None~~								X	X
~~IR41-UT-SD03-98A~~			~~SOLID~~	~~120mL~~	~~CLEAR GL~~	~~1~~	~~None~~							X		
~~IR41-TC-SD10-98A~~			~~SOLID~~	~~120mL~~	~~CLEAR GL~~	~~1~~	~~None~~								X	X
~~IR41-TC-SD10-98A~~			~~SOLID~~	~~120mL~~	~~CLEAR GL~~	~~1~~	~~None~~							X		
~~IR41-TC-SD11-98A~~			~~SOLID~~	~~120mL~~	~~CLEAR GL~~	~~1~~	~~None~~								X	X
~~IR41-TC-SD11-98A~~			~~SOLID~~	~~120mL~~	~~CLEAR GL~~	~~1~~	~~None~~							X		
~~IR41-TC-SD12-98A~~			~~SOLID~~	~~120mL~~	~~CLEAR GL~~	~~1~~	~~None~~								X	X
~~IR41-TC-SD12-98A~~			~~SOLID~~	~~120mL~~	~~CLEAR GL~~	~~1~~	~~None~~							X		
IR41-DD-SD01-98A	2-9	1630	SOLID	120mL	CLEAR GL	1	None								X	X
IR41-DD-SD01-98A	2-9	1630	SOLID	120mL	CLEAR GL	1	None							X		
IR41-DD-SD02-98A	2-9	1740	SOLID	120mL	CLEAR GL	1	None								X	X
IR41-DD-SD02-98A	2-9	1740	SOLID	120mL	CLEAR GL	1	None							X		

Special Instructions

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☒ Disposal By Lab ☐ Archive For ______ Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required: ☒ Normal ☐ Rush ☐ Other ______

QC Level: ☐ I. ☐ II. ☐ III.

Project Specific Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By [signature]	2-10-98	1700	1. Received By FedEx	2-10-98	1700
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

Chain of Custody Record

QUA-4149-1

CHAIN OF CUSTODY NUMBER

* 0 0 0 7 5 4 - 0 0 1 *

COC# 36798A - 14

Quanterra

Client	Project Manager	Date	Page 1 of 3
Baker Environmental, Inc.	Baker Environmental, Inc.	01/08/1998	
Address: Airport Office Park Bldg 3	Telephone Number (Area Code)/Fax Number: (412) 269-6000 / (000)	Lab Location: QUANTERRA - KNOXVILL	
City: Coraopolis — State: PA — Zip Code: 15108	Site Contact: Baker Environmental, Inc.		
Project Number/Name: Camp LeJeune	Carrier/Waybill Number: FedEx 802769751018		

Contract/Purchase Order/Quote Number

CONTRACT / PURCHASE ORDER # : 1998 QUOTE: 21108

Analysis

Sample I.D. Number and Description	Date	Time	Sample Type	Containers Volume	Containers Type	Containers No.	Preservative	Condition on Receipt/Comments	MS8260LL	MCLP30:L	MTCLP30L	TDS	TSS	MS8260:S	MTCLP30:S	MCLP30:S
[redacted]			[redacted]						X							
[redacted]			[redacted]							X	X					
[redacted]			[redacted]									X	X			
[redacted]			[redacted]						X							
[redacted]			[redacted]							X	X					
[redacted]			[redacted]									X	X			
IR41-GW11-98A	2-11	0830	WATER	40mL	VIAL	3	1:1 HCL		X							
IR41-GW11-98A	2-11	0830	WATER	1000mL	PLASTIC	1	Conc HNO3			X	X					
IR41-GW11-98A	2-11	0830	WATER	1000mL	PLASTIC	1	None					X	X			
IR41-GW11DW-98A	2-11	0900	WATER	40mL	VIAL	3	1:1 HCL		X							
IR41-GW11DW-98A	2-11	0900	WATER	1000mL	PLASTIC	1	Conc HNO3			X	X					
IR41-GW11DW-98A	2-11	0900	WATER	1000mL	PLASTIC	1	None					X	X			
IR41-GW12-98A	2-11	1100	WATER	40mL	VIAL	3	1:1 HCL		X							
IR41-GW12-98A	2-11	1100	WATER	1000mL	PLASTIC	1	Conc HNO3			X	X					
IR41-GW12-98A	2-11	1100	WATER	1000mL	PLASTIC	1	None					X	X			
IR41-TBØ2-98A	2-11	0700	Water	~~1000~~ 40ml	Vial	3	1:1 HCl		X							

Special Instructions

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☒ Disposal By Lab ☐ Archive For ______ Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required: ☒ Normal ☐ Rush ☐ Other ______

QC Level: ☐ I. ☐ II. ☐ III.

Project Specific Requirements (Specify)

Relinquished By	Date	Time	Received By	Date	Time
1. [signature]	2-11-98	1700	1. FedEx	2-11-98	1700
2.			2.		
3.			3.		

Comments

Chain of Custody Record

QUA-4149-1

Quanterra

CHAIN OF CUSTODY NUMBER

* 0 0 0 7 5 4 - 0 0 2 *

COC#36798A-14

Client	Project Manager	Date	Page 2 of 3
Baker Environmental, Inc.	Baker Environmental, Inc.	01/08/1998	
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Location**	
Airport Office Park Bldg 3	(412) 269-6000 / (000)	QUANTERRA - KNOXVILL	

City	State	Zip Code	Site Contact
Coraopolis	PA	15108	Baker Environmental, Inc.

Project Number/Name: Camp LeJeune

Carrier/Waybill Number: FedEx 802769751098

Contract/Purchase Order/Quote Number: CONTRACT / PURCHASE ORDER # : 1998 QUOTE: 21108

Sample I.D. Number and Description	Date	Time	Sample Type	Containers Volume	Containers Type	Containers No.	Preservative	Condition on Receipt/Comments	MS8260LL	MCLP30:L	MTCLP30L	TDS	TSS	MS8260:S	MTCLP30S	MCLP30:S
[redacted]			[redacted]						X							
[redacted]			[redacted]							X	X					
IR41-UT-SW02-98A	2-11	0901	WATER	40mL	VIAL	3	1:1 HCL		X							
IR41-UT-SW02-98A	2-11	0901	WATER	1000mL	PLASTIC	1	Conc HNO3			X	X					
IR41-UT-SW03-98A	2-11	0840	WATER	40mL	VIAL	3	1:1 HCL		X							
IR41-UT-SW03-98A	2-11	0840	WATER	1000mL	PLASTIC	1	Conc HNO3			X	X					
IR41-TC-SW10-98A	2-11	1235	WATER	40mL	VIAL	3	1:1 HCL		X							
[redacted] IR41-TC-SW10-98A		1235	[redacted]							X	X					
IR41-TC-SW11-98A	2-11	1050	WATER	40mL	VIAL	3	1:1 HCL		X							
[redacted] IR41-TC-SW11-98A		1050	[redacted]							X	X					
IR41-TC-SW12-98A	2-11	1025	WATER	40mL	VIAL	3	1:1 HCL		X							
[redacted] IR-TC-SW12-98A		1025	[redacted]							X	X					
[redacted]			[redacted]						X							
[redacted]			[redacted]							X	X					
[redacted]			[redacted]						X							
[redacted]			[redacted]							X	X					

Special Instructions: Analyze Although Crossed out water 1000ml Plastic 1 HNO_3

Possible Hazard Identification: [ ] Non-Hazard [ ] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown

Sample Disposal: [ ] Return To Client [X] Disposal By Lab [ ] Archive For ______ Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required: [X] Normal [ ] Rush [ ] Other ______

QC Level: [ ] I. [ ] II. [ ] III.

Project Specific Requirements (Specify)

Relinquished By	Date	Time	Received By	Date	Time
1. (signature)	2-11-98	1700	1. FedEx	2-11-98	1700
2.			2.		
3.			3.		

Comments

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

Chain of Custody Record

QUA-4149-1

CHAIN OF CUSTODY NUMBER

* 0 0 0 7 5 4 - 0 0 4 *

COC # 36798A - 14

Quanterra

Client: Baker Environmental, Inc.	Project Manager: Baker Environmental, Inc.	Date: 01/08/1998
Address: Airport Office Park Bldg 3	Telephone Number (Area Code)/Fax Number: (412) 269-6000 / (000)	Lab Location: QUANTERRA - KNOXVILL
City: Coraopolis / State: PA / Zip Code: 15108	Site Contact: Baker Environmental, Inc.	
Project Number/Name: Camp LeJeune	Carrier/Waybill Number: FedEx 802769751018	
Contract/Purchase Order/Quote Number: CONTRACT / PURCHASE ORDER # : 1998	QUOTE: 21108	

Page 3 of 3

Analysis

Sample I.D. Number and Description	Date	Time	Sample Type	Containers Volume	Containers Type	Containers No.	Preservative	Condition on Receipt/Comments	MS8260LL	MCLP3O!L	MTCLP3OL	TDS	TSS	MS8260!S	MTCLP3OS	MCLP3O!S
IR41-UT-SD02-98A	2-11	0905	SOLID	120mL	CLEAR GL	1	None								X	X
IR41-UT-SD02-98A	2-11	0905	SOLID	120mL	CLEAR GL	1	None							X		
IR41-UT-SD03-98A	2-11	0845	SOLID	120mL	CLEAR GL	1	None								X	X
IR41-UT-SD03-98A	2-11	0845	SOLID	120mL	CLEAR GL	1	None							X		
IR41-TC-SD10-98A	2-11	1240	SOLID	120mL	CLEAR GL	1	None								X	X
IR41-TC-SD10-98A	2-11	1240	SOLID	120mL	CLEAR GL	1	None							X		
IR41-TC-SD11-98A	2-11	1055	SOLID	120mL	CLEAR GL	1	None								X	X
IR41-TC-SD11-98A	2-11	1055	SOLID	120mL	CLEAR GL	1	None							X		
IR41-TC-SD12-98A	2-11	1230	SOLID	120mL	CLEAR GL	1	None								X	X
IR41-TC-SD12-98A	2-11	1230	SOLID	120mL	CLEAR GL	1	None							X		
IR41-DD-SD01-98A			SOLID	120mL	CLEAR GL	1	None								X	X
IR41-DD-SD01-98A			SOLID	120mL	CLEAR GL	1	None							X		
IR41-DD-SD02-98A			SOLID	120mL	CLEAR GL	1	None								X	X
IR41-DD-SD02-98A			SOLID	120mL	CLEAR GL	1	None							X		

Special Instructions

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☒ Disposal By Lab ☐ Archive For ____ Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required: ☒ Normal ☐ Rush ☐ Other ____

QC Level: ☐ I. ☐ II. ☐ III.

Project Specific Requirements (Specify)

1. Relinquished By: [signature]	Date: 2-11-98	Time: 1700	1. Received By: FedEx	Date: 2-11-98	Time: 1700
2. Relinquished By	Date	Time	2. Received By	Date	Time
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments

SITE 74

Chain of Custody Record

QUA-4149-1

CHAIN OF CUSTODY NUMBER

* 0 0 0 7 5 5 - 0 0 1 *

COC# 36798A-10

Quanterra

Client: Baker Environmental, Inc.	Project Manager: Baker Environmental, Inc.	Date: 01/08/1998	Page 1 of 1
Address: Airport Office Park Bldg 3	Telephone Number (Area Code)/Fax Number: (412) 269-6000 / (000)	Lab Location: QUANTERRA - KNOXVILL	Analysis
City: Coraopolis; State: PA; Zip Code: 15108	Site Contact: Baker Environmental, Inc.		
Project Number/Name: Camp LeJeune	Carrier/Waybill Number: FedEx 802769751040		
Contract/Purchase Order/Quote Number: CONTRACT / PURCHASE ORDER # : 1998		QUOTE: 21108	

Sample I.D. Number and Description	Date	Time	Sample Type	Containers Volume	Containers Type	Containers No.	Preservative	Condition on Receipt/Comments	MCLP30;L	MTCLP30L	TDSS	TSS
IR74-GW01-98A	1-22	1310	WATER	1000mL	PLASTIC	1	Conc HNO3		X	X		
IR74-GW01-98A	↓	1310	WATER	1000mL	PLASTIC	1	None				X	X
IR74-GW02-98A		1110	WATER	1000mL	PLASTIC	1	Conc HNO3		X	X		
IR74-GW02-98A		1110	WATER	1000mL	PLASTIC	1	None				X	X
IR74-GW03A-98A		1220	WATER	1000mL	PLASTIC	1	Conc HNO3		X	X		
IR74-GW03A-98A		1220	WATER	1000mL	PLASTIC	1	None				X	X
IR74-GW07-98A		1010	WATER	1000mL	PLASTIC	1	Conc HNO3		X	X		
IR74-GW07-98A		1010	WATER	1000mL	PLASTIC	1	None				X	X

Special Instructions

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☒ Disposal By Lab ☐ Archive For ______ Months (A fee may be assessed if samples are retained longer than 3 months)

Turn Around Time Required: ☒ Normal ☐ Rush ☐ Other ______

QC Level: ☐ I. ☐ II. ☐ III.

Project Specific Requirements (Specify)

1. Relinquished By: [signature]	Date: 1-22-98	Time: 1700	1. Received By: FedEx	Date: 1-22-98	Time: 1700
2. Relinquished By	Date	Time	2. Received By	Date	Time
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments

ATTACHMENT B
MONITORING PROGRAM ANALYTICAL RESULTS

SITE 41

GROUNDWATER ANALYTICAL RESULTS
OPERABLE UNIT NO. 4 - SITE 41
MONITORING AND O&M SUPPORT, CTO-0367
MCB, CAMP LEJEUNE, NORTH CAROLINA
VOLATILE ORGANICS

SAMPLE ID	IR41-GW02-98A	IR41-GW10-98A	IR41-GW11-98A	IR41-GW11DW-98A	IR41-GW12-98A
DATE SAMPLED	02-10-1998	02-09-1998	02-11-1998	02-11-1998	02-11-1998
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	5 U	5 U	5 U
1,1,2-Trichloroethane	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethene	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethene (total)	5 U	5 U	5 U	0.98 J	5 U
1,2-Dichloropropane	5 U	5 U	5 U	5 U	5 U
2-Butanone	20 U	20 U	20 U	20 U	20 U
2-Hexanone	20 U	20 U	20 U	20 U	20 U
4-Methyl-2-pentanone	20 U	20 U	20 U	20 U	20 U
Acetone	20 U	20 U	13 J	20 U	20 U
Benzene	5 U	5 U	2.6 J	1.1 J	5 U
Bromodichloromethane	5 U	5 U	5 U	5 U	5 U
Bromoform	5 U	5 U	5 U	5 U	5 U
Bromomethane	10 U	10 U	10 U	10 U	10 U
Carbon 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	1.1 J	5 U	5 U
Chloroethane	10 U	10 U	10 U	10 U	10 U
Chloroform	5 U	5 U	5 U	5 U	5 U
Chloromethane	10 U	10 U	10 U	10 U	10 U
Dibromochloromethane	5 U	5 U	5 U	5 U	5 U
Ethylbenzene	5 U	5 U	5 U	5 U	5 U
Methylene chloride	1.6 JB	1.4 JB	2.1 JB	2 JB	2.3 JB
Styrene	5 U	5 U	5 U	5 U	5 U
Tetrachloroethene	5 U	5 U	5 U	5 U	5 U
Toluene	5 U	5 U	5 U	5 U	5 U
Trichloroethene	5 U	5 U	5 U	5 U	5 U
Vinyl chloride	10 U	10 U	10 U	10 U	10 U
Xylenes (total)	5 U	5 U	5 U	5 U	5 U
cis-1,3-Dichloropropene	5 U	5 U	5 U	5 U	5 U
trans-1,3-Dichloropropene	5 U	5 U	5 U	5 U	5 U

GROUNDWATER ANALYTICAL RESULTS
OPERABLE UNIT NO. 4 - SITE 41
MONITORING AND O&M SUPPORT, CTO-0367
MCB, CAMP LEJEUNE, NORTH CAROLINA
TOTAL METALS AND WET CHEMISTRY

SAMPLE ID	IR41-GW02-98A	IR41-GW10-98A	IR41-GW11-98A	IR41-GW11DW-98A	IR41-GW12-98A
DATE SAMPLED	02-10-1998	02-09-1998	02-11-1998	02-11-1998	02-11-1998
TOTAL METALS (ug/L)					
Aluminum	31.6 J	1270	200 U	200 U	200 U
Antimony	60 U	60 U	60 U	60 U	60 U
Arsenic	10 U	10 U	3.3 J	10 U	10 U
Barium	76.9 J	20.7 J	519	50.9 J	23.1 J
Beryllium	5 U	5 U	5 U	5 U	5 U
Cadmium	5 U	5 U	5 U	5 U	5 U
Calcium	161000	3070 J	116000	254000	53700
Chromium	6.6 J	10 U	3.9 J	11	10 U
Cobalt	50 U	50 U	6.8 J	50 U	14.6 J
Copper	15.1 J	8.4 J	10.8 J	25 U	6.7 J
Iron	33700	728	39500	3410	4910
Lead	3 U	3 U	12.6	3 U	3 U
Magnesium	23600	802 J	23800	7440	3070 J
Manganese	428	7.2 J	332	139	110
Mercury	0.06 J	0.2 U	0.049 J	0.081 J	0.035 J
Nickel	40 U	40 U	17 J	40 U	40 U
Potassium	16600	5000 U	32300	1600 J	5000 U
Selenium	5 U	5 U	5 U	5 U	5 U
Silver	10 U	10 U	10 U	10 U	10 U
Sodium	28600	8240	58300	222000	6560
Thallium	3.2 J	10 U	6.1 J	5 J	10 U
Vanadium	36.7 J	21.1 J	33.5 J	46.3 J	27.7 J
Zinc	30.7	20	52.6	12.9 J	40.5
WET CHEMISTRY (mg/L)					
Total Dissolved Solids	590	58	560	1200	170
Total Suspended Solids	4 U	4 U	80	6	8

SURFACE WATER ANALYTICAL RESULTS
OPERABLE UNIT NO. 4 - SITE 41
MONITORING AND O&M SUPPORT, CTO-0367
MCB, CAMP LEJEUNE, NORTH CAROLINA
VOLATILE ORGANICS

SAMPLE ID	IR41-DD-SW01-98A	IR41-DD-SW02-98A	IR41-TC-SW10-98A	IR41-TC-SW11-98A	IR41-TC-SW12-98A	IR41-UT-SW01-98A	IR41-UT-SW02-98A	IR41-UT-SW03-98A
DATE SAMPLED	02-09-1998	02-09-1998	02-11-1998	02-11-1998	02-11-1998	02-10-1998	02-11-1998	02-11-1998
VOLATILES (ug/L)								
1,1,1-Trichloroethane	5 U	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	5 U
1,1,2-Trichloroethane	5 U	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	5 U
1,1-Dichloroethene	5 U	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	5 U
1,2-Dichloroethene (total)	5 U	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	5 U
2-Butanone	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
2-Hexanone	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
4-Methyl-2-pentanone	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Acetone	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Benzene	5 U	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	5 U
Bromoform	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromomethane	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Carbon disulfide	5 U	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	5 U
Chlorobenzene	0.82 J	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroethane	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chloroform	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloromethane	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dibromochloromethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Ethylbenzene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylene chloride	1.4 JB	1.5 JB	1.4 JB	1.6 JB	1.5 JB	1.4 JB	1.7 JB	1.8 JB
Styrene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Tetrachloroethene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Toluene	5 U	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	5 U
Vinyl chloride	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Xylenes (total)	5 U	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	5 U
trans-1,3-Dichloropropene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U

SURFACE WATER ANALYTICAL RESULTS
OPERABLE UNIT NO. 4 - SITE 41
MONITORING AND O&M SUPPORT, CTO-0367
MCB, CAMP LEJEUNE, NORTH CAROLINA
TOTAL METALS

SAMPLE ID	IR41-DD-SW01-98A	IR41-DD-SW02-98A	IR41-TC-SW10-98A	IR41-TC-SW11-98A	IR41-TC-SW12-98A	IR41-UT-SW01-98A	IR41-UT-SW02-98A	IR41-UT-SW03-98A
DATE SAMPLED	02-09-1998	02-09-1998	02-11-1998	02-11-1998	02-11-1998	02-10-1998	02-11-1998	02-11-1998
TOTAL METALS (ug/L)								
Aluminum	87.8 J	88.7 J	539	536	450	279	244	274
Antimony	60 U	60 U	60 U	60 U	60 U	60 U	60 U	60 U
Arsenic	10 U	10 U	10 U	3 J	10 U	10 U	10 U	10 U
Barium	45.1 J	63.2 J	30.2 J	29.6 J	29.8 J	24.8 J	23.7 J	23.5 J
Beryllium	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Cadmium	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Calcium	66900	97900	17400	17900	17400	37900	36800	35900
Chromium	10 U	7 J	10 U	10 U	10 U	3.9 J	3.4 J	10 U
Cobalt	50 U	50 U	50 U	50 U	50 U	50 U	50 U	50 U
Copper	25 U	6.7 J	6.9 J	4.1 J	4.9 J	4.7 J	10 J	9.4 J
Iron	652	1330	1070	1030	969	564	731	713
Lead	3 U	3 U	3 U	3 U	1.2 J	3 U	3 U	3 U
Magnesium	6000	10400	1660 J	1680 J	1650 J	1800 J	2220 J	2160 J
Manganese	34	139	34.4	29.7	30.4	16	28.2	24.5
Mercury	0.035 J	0.2 U	0.097 J	0.2 U	0.2 U	0.2 U	0.2 U	0.05 J
Nickel	40 U	40 U	40 U	40 U	40 U	40 U	40 U	40 U
Potassium	3780 J	7550	964 J	5000 U	1010 J	1070 J	704 J	659 J
Selenium	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Silver	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Sodium	11600	17800	11700	11600	11600	16200	11400	11100
Thallium	10 U	10 U	10 U	3.8 J	10 U	10 U	10 U	5.1 J
Vanadium	31.4 J	33.2 J	23 J	23.6 J	17.3 J	27.2 J	25.8 J	25.4 J
Zinc	16.2 J	18.3 J	49.1	20	39.7	26.4	33.2	26.4

SEDIMENT ANALYTICAL RESULTS
OPERABLE UNIT NO. 4 - SITE 41
MONITORING AND O&M SUPPORT, CTO-0367
MCB, CAMP LEJEUNE, NORTH CAROLINA
VOLATILE ORGANICS

SAMPLE ID	IR41-DD-SD01-98A	IR41-DD-SD02-98A	IR41-TC-SD10-98A	IR41-TC-SD11-98A	IR41-TC-SD12-98A	IR41-UT-SD01-98A	IR41-UT-SD02-98A	IR41-UT-SD03-98A
DATE SAMPLED	02-09-1998	02-09-1998	02-11-1998	02-11-1998	02-11-1998	02-10-1998	02-11-1998	02-11-1998
VOLATILES (ug/kg)								
1,1,1-Trichloroethane	6.5 U	12 U	9.5 U	6.8 U	6.4 U	6.5 U	6.2 U	6.1 U
1,1,2,2-Tetrachloroethane	6.5 U	12 U	9.5 U	6.8 U	6.4 U	6.5 U	6.2 U	6.1 U
1,1,2-Trichloroethane	6.5 U	12 U	9.5 U	6.8 U	6.4 U	6.5 U	6.2 U	6.1 U
1,1-Dichloroethane	6.5 U	12 U	9.5 U	6.8 U	6.4 U	6.5 U	6.2 U	6.1 U
1,1-Dichloroethene	6.5 U	12 U	9.5 U	6.8 U	6.4 U	6.5 U	6.2 U	6.1 U
1,2-Dichloroethane	6.5 U	12 U	9.5 U	6.8 U	6.4 U	6.5 U	6.2 U	6.1 U
1,2-Dichloroethene (total)	6.5 U	12 U	9.5 U	6.8 U	6.4 U	6.5 U	6.2 U	6.1 U
1,2-Dichloropropane	6.5 U	12 U	9.5 U	6.8 U	6.4 U	6.5 U	6.2 U	6.1 U
2-Butanone	26 U	16 J	5.8 JB	27 U	25 U	26 U	25 U	24 U
2-Hexanone	26 U	47 U	38 U	27 U	25 U	26 U	25 U	24 U
4-Methyl-2-pentanone	26 U	47 U	38 U	27 U	25 U	26 U	25 U	24 U
Acetone	26 U	41 J	38 U	27 U	25 U	26 U	25 U	24 U
Benzene	6.5 U	12 U	9.5 U	6.8 U	6.4 U	6.5 U	6.2 U	6.1 U
Bromodichloromethane	6.5 U	12 U	9.5 U	6.8 U	6.4 U	6.5 U	6.2 U	6.1 U
Bromoform	6.5 U	12 U	9.5 U	6.8 U	6.4 U	6.5 U	6.2 U	6.1 U
Bromomethane	13 U	24 U	19 U	14 U	13 U	13 U	12 U	12 U
Carbon disulfide	6.5 U	12 U	9.5 U	6.8 U	6.4 U	6.5 U	6.2 U	6.1 U
Carbon tetrachloride	6.5 U	12 U	9.5 U	6.8 U	6.4 U	6.5 U	6.2 U	6.1 U
Chlorobenzene	6.5 U	12 U	9.5 U	6.8 U	6.4 U	6.5 U	6.2 U	6.1 U
Chloroethane	13 U	24 U	19 U	14 U	13 U	13 U	12 U	12 U
Chloroform	6.5 U	12 U	9.5 U	6.8 U	6.4 U	6.5 U	6.2 U	6.1 U
Chloromethane	13 U	24 U	19 U	14 U	13 U	13 U	12 U	12 U
Dibromochloromethane	6.5 U	12 U	9.5 U	6.8 U	6.4 U	6.5 U	6.2 U	6.1 U
Ethylbenzene	6.5 U	12 U	9.5 U	6.8 U	6.4 U	6.5 U	6.2 U	6.1 U
Methylene chloride	2.8 JB	8.2 JB	9.5 U	6.8 U	6.4 U	4.5 J	6.2 U	6.1 U
Styrene	6.5 U	12 U	9.5 U	6.8 U	6.4 U	6.5 U	6.2 U	6.1 U
Tetrachloroethene	6.5 U	12 U	9.5 U	6.8 U	6.4 U	6.5 U	6.2 U	6.1 U
Toluene	6.5 U	12 U	9.5 U	6.8 U	6.4 U	6.5 U	6.2 U	6.1 U
Trichloroethene	6.5 U	12 U	9.5 U	6.8 U	6.4 U	6.5 U	6.2 U	6.1 U
Vinyl chloride	13 U	24 U	19 U	14 U	13 U	13 U	12 U	12 U
Xylenes (total)	6.5 U	12 U	9.5 U	6.8 U	6.4 U	6.5 U	6.2 U	6.1 U
cis-1,3-Dichloropropene	6.5 U	12 U	9.5 U	6.8 U	6.4 U	6.5 U	6.2 U	6.1 U
trans-1,3-Dichloropropene	6.5 U	12 U	9.5 U	6.8 U	6.4 U	6.5 U	6.2 U	6.1 U

SEDIMENT ANALYTICAL RESULTS
OPERABLE UNIT NO. 4 - SITE 41
MONITORING AND O&M SUPPORT, CTO-0367
MCB, CAMP LEJEUNE, NORTH CAROLINA
TOTAL METALS

SAMPLE ID	IR41-DD-SD01-98A	IR41-DD-SD02-98A	IR41-TC-SD10-98A	IR41-TC-SD11-98A	IR41-TC-SD12-98A	IR41-UT-SD01-98A	IR41-UT-SD02-98A	IR41-UT-SD03-98A
DATE SAMPLED	02-09-1998	02-09-1998	02-11-1998	02-11-1998	02-11-1998	02-10-1998	02-11-1998	02-11-1998
TOTAL METALS (mg/kg)								
Aluminum	1270	9650	3850	800	1050	3780	341	275
Antimony	15.7 U	28.4 U	22.7 U	16.3 U	15.2 U	15.6 U	14.9 U	14.6 U
Arsenic	2.6 U	4.7 U	3.8 U	2.7 U	2.5 U	2.6 U	2.5 U	2.4 U
Barium	5.9 J	33.4 J	24.3 J	5.4 J	7.7 J	11.5 J	1.6 J	1.4 J
Beryllium	1.3 U	0.19 J	1.9 U	1.4 U	1.3 U	1.3 U	1.2 U	1.2 U
Cadmium	1.3 U	2.4 U	1.9 U	1.4 U	1.3 U	1.3 U	1.2 U	1.2 U
Calcium	587 J	2480	2220	266 J	345 J	36500	177 J	135 J
Chromium	3	84.4	5	1.4 J	2.1 J	7.3	1.7 J	1 J
Cobalt	13.1 U	3.7 J	18.9 U	13.6 U	12.7 U	13 U	12.4 U	12.1 U
Copper	1.7 J	39.7	2.5 J	1.1 J	0.89 J	1.8 J	1 J	0.95 J
Iron	2420	6400	2110	804	838	1960	447	206
Lead	4.4	16.6	17.6	1.8	2	9.5	0.54 J	0.53 J
Magnesium	52.9 J	444 J	186 J	38.6 J	46.5 J	600 J	22.4 J	16.1 J
Manganese	4.6	31	14.2	5.2	4.3	10.3	0.64 J	0.71 J
Mercury	0.04 J	0.11 J	0.09 J	0.043 J	0.035 J	0.13 U	0.035 J	0.025 J
Nickel	10.4 U	41.7	15.1 U	10.9 U	10.2 U	10.4 U	9.9 U	9.7 U
Potassium	1310 U	393 J	1890 U	1360 U	1270 U	1300 U	1240 U	1210 U
Selenium	1.3 U	2.4 U	1.9 U	1.4 U	1.3 U	1.3 U	1.2 U	1.2 U
Silver	2.6 U	4.7 U	3.8 U	2.7 U	2.5 U	2.6 U	2.5 U	2.4 U
Sodium	42.9 J	108 J	62.4 J	32.7 J	23.4 J	128 J	40.1 J	15.4 J
Thallium	1.1 J	4.7 U	3.8 U	2.7 U	2.5 U	2.6 U	2.5 U	2.4 U
Vanadium	3.7 J	19.1 J	8.2 J	4.1 J	3.6 J	13.7	3.6 J	3.4 J
Zinc	23.4	62.6	16.6	10.5	10.8	16.2	6.1	6.4

SITE 74

GROUNDWATER ANALYTICAL RESULTS
OPERABLE UNIT NO. 4 - SITE 74
MONITORING AND O&M SUPPORT, CTO-0367
MCB, CAMP LEJEUNE, NORTH CAROLINA
TOTAL METALS AND WET CHEMISTY

SAMPLE ID	IR74-GW01-98A	IR74-GW02-98A	IR74-GW03A-98A	IR74-GW07-98A
DATE SAMPLED	01-22-1998	01-22-1998	01-22-1998	01-22-1998
TOTAL METALS (ug/L)				
Aluminum	838	796	3710	345
Antimony	60 U	60 U	60 U	60 U
Arsenic	10 U	10 U	10 U	10 U
Barium	48.7 B	54.2 B	58.9 B	96.5 B
Beryllium	5 U	5 U	5 U	5 U
Cadmium	5 U	5 U	5 U	5 U
Calcium	984 B	19200	290 B	515 B
Chromium	10 U	10 U	10 U	10 U
Cobalt	50 U	50 U	50 U	50 U
Copper	3.9 B	25 U	3.3 B	7.4 B
Iron	423	724	803	1840
Lead	3 U	2.5 B	2.5 B	3 U
Magnesium	1950 B	1570 B	565 B	2310 B
Manganese	5.3 B	8.8 B	6.1 B	6.2 B
Mercury	0.054 B	0.05 B	0.051 B	0.048 B
Nickel	40 U	40 U	40 U	40 U
Potassium	1070 B	5000 U	782 B	1020 B
Selenium	5 U	5 U	5 U	5 U
Silver	10 U	10 U	10 U	10 U
Sodium	11400	3100 B	8700	8410
Thallium	10 U	10 U	3.4 B	10 U
Vanadium	10.6 B	10.7 B	13.6 B	9.5 B
Zinc	2.5 B	6 B	8.7 B	6 B
WET CHEMISTRY (mg/L)	1			
Total Dissolved Solids	37	92	60	61
Total Suspended Solids	15	4 U	4 U	4 U

ATTACHMENT C
ANALYTICAL LABORATORY DATA SHEETS

SITE 41

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER
Method: SW846 8260A
Volatile Organics, GC/MS (8260A)

Lab Sample ID:H8B110165 001

Sample WT/Vol: 5 / mL
Work Order: CFA8610R
Dilution factor: 1
Moisture %:NA

Date Received: 02/11/98
Date Extracted:02/18/98
Date Analyzed: 02/18/98

QC Batch: 8049200

Client Sample Id: IR41-GW02-98A

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	**Methylene chloride**	**1.6**	**J B**
67-64-1	Acetone	20	U
75-15-0	Carbon disulfide	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
67-66-3	Chloroform	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
78-93-3	2-Butanone	20	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
75-27-4	Bromodichloromethane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
79-01-6	Trichloroethene	5.0	U
124-48-1	Dibromochloromethane	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
71-43-2	Benzene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
75-25-2	Bromoform	5.0	U
108-10-1	4-Methyl-2-pentanone	20	U
591-78-6	2-Hexanone	20	U
127-18-4	Tetrachloroethene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER
Method: SW846 8260A
Volatile Organics, GC/MS (8260A)

Lab Sample ID:H8B110165 001

Sample WT/Vol: 5 / mL
Work Order: CFA8610R
Dilution factor: 1
Moisture %:NA

Date Received: 02/11/98
Date Extracted:02/18/98
Date Analyzed: 02/18/98

QC Batch: 8049200

Client Sample Id: IR41-GW02-98A

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
108-88-3	Toluene	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
1330-20-7	Xylenes (total)	5.0	U

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR41-GW02-98A

TOTAL Metals

Lot-Sample #...: H8B110165-001 **Matrix.....:** WATER
Date Sampled...: 02/10/98 **Date Received..:** 02/11/98

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8055103						
Mercury	**0.060 B**	**0.20** Dilution Factor: 1	**ug/L**	**ICLP ILM03.0**	**02/24-02/25/98**	**CFA8610**
Prep Batch #...: 8055175						
Aluminum	**31.6 B**	**200** Dilution Factor: 1	**ug/L**	**ICLP ILM03.0**	**02/25-02/27/98**	**CFA8610**
Arsenic	ND	10.0 Dilution Factor: 1	ug/L	ICLP ILM03.0	02/25-02/28/98	CFA8610
Lead	ND	3.0 Dilution Factor: 1	ug/L	ICLP ILM03.0	02/25-02/28/98	CFA8610
Antimony	ND	60.0 Dilution Factor: 1	ug/L	ICLP ILM03.0	02/25-02/27/98	CFA8610
Barium	**76.9 B**	**200** Dilution Factor: 1	**ug/L**	**ICLP ILM03.0**	**02/25-02/27/98**	**CFA8610**
Selenium	ND	5.0 Dilution Factor: 1	ug/L	ICLP ILM03.0	02/25-02/28/98	CFA8610
Beryllium	ND	5.0 Dilution Factor: 1	ug/L	ICLP ILM03.0	02/25-02/27/98	CFA8610
Thallium	**3.2 B**	**10.0** Dilution Factor: 1	**ug/L**	**ICLP ILM03.0**	**02/25-02/28/98**	**CFA8610**
Cadmium	ND	5.0 Dilution Factor: 1	ug/L	ICLP ILM03.0	02/25-02/27/98	CFA8610
Calcium	**161000**	**5000** Dilution Factor: 1	**ug/L**	**ICLP ILM03.0**	**02/25-02/27/98**	**CFA8610**
Chromium	**6.6 B**	**10.0** Dilution Factor: 1	**ug/L**	**ICLP ILM03.0**	**02/25-02/27/98**	**CFA8610**
Cobalt	ND	50.0 Dilution Factor: 1	ug/L	ICLP ILM03.0	02/25-02/27/98	CFA8610
Copper	**15.1 B**	**25.0** Dilution Factor: 1	**ug/L**	**ICLP ILM03.0**	**02/25-02/27/98**	**CFA8610**

(Continued on next page)

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR41-GW02-98A

TOTAL Metals

Lot-Sample #...: H8B110165-001 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	33700	100	ug/L	ICLP ILM03.0	02/25-02/27/98	CFA8610J
		Dilution Factor: 1				
Magnesium	23600	5000	ug/L	ICLP ILM03.0	02/25-02/27/98	CFA8610(
		Dilution Factor: 1				
Manganese	428	15.0	ug/L	ICLP ILM03.0	02/25-02/27/98	CFA8610I
		Dilution Factor: 1				
Nickel	ND	40.0	ug/L	ICLP ILM03.0	02/25-02/27/98	CFA8610E
		Dilution Factor: 1				
Potassium	16600	5000	ug/L	ICLP ILM03.0	02/25-02/27/98	CFA8610F
		Dilution Factor: 1				
Silver	ND	10.0	ug/L	ICLP ILM03.0	02/25-02/27/98	CFA8610G
		Dilution Factor: 1				
Sodium	28600	5000	ug/L	ICLP ILM03.0	02/25-02/27/98	CFA8610H
		Dilution Factor: 1				
Vanadium	36.7 B	50.0	ug/L	ICLP ILM03.0	02/25-02/27/98	CFA8610J
		Dilution Factor: 1				
Zinc	30.7	20.0	ug/L	ICLP ILM03.0	02/25-02/27/98	CFA8610K
		Dilution Factor: 1				

NOTE(S):

B Estimated result. Result is less than RL.

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR41-GW02-98A

General Chemistry

Lot-Sample #...: H8B110165-001 **Work Order #...:** CFA86 **Matrix.....:** WATER
Date Sampled...: 02/10/98 08:00 **Date Received..:** 02/11/98

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Dissolved Solids	**590**	**10**	**mg/L**	**MCAWW 160.1**	**02/13-02/16/98**	**8044144**
	Dilution Factor: 1					
Total Suspended Solids	ND	4.0	mg/L	MCAWW 160.2	02/13-02/16/98	8044141
	Dilution Factor: 1					

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER
Method: SW846 8260A
Volatile Organics, GC/MS (8260A)

Lab Sample ID:H8B110165 002

Sample WT/Vol: 5 / mL
Work Order: CFA8710R
Dilution factor: 1
Moisture %:NA

Date Received: 02/11/98
Date Extracted:02/18/98
Date Analyzed: 02/18/98

QC Batch: 8049200

Client Sample Id: IR41-GW10-98A

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	**Methylene chloride**	**1.4**	**J B**
67-64-1	Acetone	20	U
75-15-0	Carbon disulfide	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
67-66-3	Chloroform	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
78-93-3	2-Butanone	20	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
75-27-4	Bromodichloromethane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
79-01-6	Trichloroethene	5.0	U
124-48-1	Dibromochloromethane	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
71-43-2	Benzene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
75-25-2	Bromoform	5.0	U
108-10-1	4-Methyl-2-pentanone	20	U
591-78-6	2-Hexanone	20	U
127-18-4	Tetrachloroethene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER
Method: SW846 8260A
Volatile Organics, GC/MS (8260A)

Lab Sample ID:H8B110165 002

Sample WT/Vol: 5 / mL
Work Order: CFA8710R
Dilution factor: 1
Moisture %:NA

Date Received: 02/11/98
Date Extracted:02/18/98
Date Analyzed: 02/18/98

QC Batch: 8049200

Client Sample Id: IR41-GW10-98A

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
108-88-3	Toluene	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
1330-20-7	Xylenes (total)	5.0	U

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR41-GW10-98A

TOTAL Metals

Lot-Sample #...: H8B110165-002 **Matrix.....:** WATER
Date Sampled...: 02/09/98 **Date Received..:** 02/11/98

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8055103						
Mercury	ND	0.20 Dilution Factor: 1	ug/L	ICLP ILM03.0	02/24-02/25/98	CFA8710(
Prep Batch #...: 8055175						
Aluminum	**1270**	**200** Dilution Factor: 1	**ug/L**	**ICLP ILM03.0**	**02/25-02/27/98**	**CFA8710J**
Arsenic	ND	10.0 Dilution Factor: 1	ug/L	ICLP ILM03.0	02/25-02/28/98	CFA8710I
Lead	ND	3.0 Dilution Factor: 1	ug/L	ICLP ILM03.0	02/25-02/28/98	CFA8710N
Antimony	ND	60.0 Dilution Factor: 1	ug/L	ICLP ILM03.0	02/25-02/27/98	CFA [illegible] 02
Barium	**20.7 B**	**200** Dilution Factor: 1	**ug/L**	**ICLP ILM03.0**	**02/25-02/27/98**	**CFA8710J**
Selenium	ND	5.0 Dilution Factor: 1	ug/L	ICLP ILM03.0	02/25-02/28/98	CFA8710N
Beryllium	ND	5.0 Dilution Factor: 1	ug/L	ICLP ILM03.0	02/25-02/27/98	CFA8710(
Thallium	ND	10.0 Dilution Factor: 1	ug/L	ICLP ILM03.0	02/25-02/28/98	CFA8710P
Cadmium	ND	5.0 Dilution Factor: 1	ug/L	ICLP ILM03.0	02/25-02/27/98	CFA8710(
Calcium	**3070 B**	**5000** Dilution Factor: 1	**ug/L**	**ICLP ILM03.0**	**02/25-02/27/98**	**CFA8710(
Chromium	ND	10.0 Dilution Factor: 1	ug/L	ICLP ILM03.0	02/25-02/27/98	CFA8710(
Cobalt	ND	50.0 Dilution Factor: 1	ug/L	ICLP ILM03.0	02/25-02/27/98	CFA8710(
Copper	**8.4 B**	**25.0** Dilution Factor: 1	**ug/L**	**ICLP ILM03.0**	**02/25-02/27/98**	**CFA8710(

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BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR41-GW10-98A

TOTAL Metals

Lot-Sample #...: H8B110165-002 Matrix.....: WATE

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	728	100	ug/L	ICLP ILM03.0	02/25-02/27/98	CFA871(
		Dilution Factor: 1				
Magnesium	802 B	5000	ug/L	ICLP ILM03.0	02/25-02/27/98	CFA871(
		Dilution Factor: 1				
Manganese	7.2 B	15.0	ug/L	ICLP ILM03.0	02/25-02/27/98	CFA871(
		Dilution Factor: 1				
Nickel	ND	40.0	ug/L	ICLP ILM03.0	02/25-02/27/98	CFA871(
		Dilution Factor: 1				
Potassium	ND	5000	ug/L	ICLP ILM03.0	02/25-02/27/98	CFA871(
		Dilution Factor: 1				
Silver	ND	10.0	ug/L	ICLP ILM03.0	02/25-02/27/98	CFA871(
		Dilution Factor: 1				
Sodium	8240	5000	ug/L	ICLP ILM03.0	02/25-02/27/98	CFA871(
		Dilution Factor: 1				
Vanadium	21.1 B	50.0	ug/L	ICLP ILM03.0	02/25-02/27/98	CFA871(
		Dilution Factor: 1				
Zinc	20.0	20.0	ug/L	ICLP ILM03.0	02/25-02/27/98	CFA871(
		Dilution Factor: 1				

NOTE(S):

B Estimated result. Result is less than RL.

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR41-GW10-98A

General Chemistry

Lot-Sample #...: H8B110165-002 **Work Order #...:** CFA87 **Matrix.....:** WATER
Date Sampled...: 02/09/98 17:20 **Date Received..:** 02/11/98

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Dissolved Solids	**58**	**10**	**mg/L**	**MCAWW 160.1**	**02/13-02/16/98**	**8044143**
	Dilution Factor: 1					
Total Suspended Solids	ND	4.0	mg/L	MCAWW 160.2	02/13-02/16/98	8044141
	Dilution Factor: 1					

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR41-GW11-98A

TOTAL Metals

Lot-Sample #...: H8B120170-001 Matrix.....: WATER
Date Sampled...: 02/11/98 Date Received..: 02/12/98

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8055103						
Mercury	0.049 B	0.20	ug/L	ICLP ILM03.0	02/24-02/25/98	CFC1410(
		Dilution Factor: 1				
		Analysis Time..: 10:18				
Prep Batch #...: 8055175						
Aluminum	ND	200	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC1410:
		Dilution Factor: 1				
		Analysis Time..: 18:30				
Arsenic	3.3 B	10.0	ug/L	ICLP ILM03.0	02/25-02/28/98	CFC1410I
		Dilution Factor: 1				
		Analysis Time..: 20:44				
Lead	12.6	3.0	ug/L	ICLP ILM03.0	02/25-02/28/98	CFC1410I
		Dilution Factor: 1				
		Analysis Time..: 20:44				
Antimony	ND	60.0	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC1410:
		Dilution Factor: 1				
		Analysis Time..: 18:30				
Barium	519	200	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC1410:
		Dilution Factor: 1				
		Analysis Time..: 18:30				
Selenium	ND	5.0	ug/L	ICLP ILM03.0	02/25-02/28/98	CFC1410I
		Dilution Factor: 1				
		Analysis Time..: 20:44				
Beryllium	ND	5.0	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC1410-
		Dilution Factor: 1				
		Analysis Time..: 18:30				
Thallium	6.1 B	10.0	ug/L	ICLP ILM03.0	02/25-02/28/98	CFC1410I
		Dilution Factor: 1				
		Analysis Time..: 20:44				
Cadmium	ND	5.0	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC1410:
		Dilution Factor: 1				
		Analysis Time..: 18:30				
Calcium	116000	5000	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC1410(
		Dilution Factor: 1				
		Analysis Time..: 18:30				

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR41-GW11-98A

TOTAL Metals

Lot-Sample #...: H8B120170-001 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Chromium	3.9 B	10.0	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC14107
		Dilution Factor: 1				
		Analysis Time..: 18:30				
Cobalt	6.8 B	50.0	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC14108
		Dilution Factor: 1				
		Analysis Time..: 18:30				
Copper	10.8 B	25.0	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC14109
		Dilution Factor: 1				
		Analysis Time..: 18:30				
Iron	39500	100	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC1410A
		Dilution Factor: 1				
		Analysis Time..: 18:30				
Magnesium	23800	5000	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC[illegible]C
		Dilution Factor: 1				
		Analysis Time..: 18:30				
Manganese	332	15.0	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC1410D
		Dilution Factor: 1				
		Analysis Time..: 18:30				
Nickel	17.0 B	40.0	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC1410E
		Dilution Factor: 1				
		Analysis Time..: 18:30				
Potassium	32300	5000	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC1410F
		Dilution Factor: 1				
		Analysis Time..: 18:30				
Silver	ND	10.0	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC1410G
		Dilution Factor: 1				
		Analysis Time..: 18:30				
Sodium	58300	5000	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC1410H
		Dilution Factor: 1				
		Analysis Time..: 18:30				
Vanadium	33.5 B	50.0	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC1410J
		Dilution Factor: 1				
		Analysis Time..: 18:30				

(Continued on next page)

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR41-GW11-98A

TOTAL Metals

Lot-Sample #...: H8B120170-001 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Zinc	52.6	20.0	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC1410R

Dilution Factor: 1
Analysis Time..: 18:30

NOTE(S):

B Estimated result. Result is less than RL.

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR41-GW11-98A

General Chemistry

Lot-Sample #...: H8B120170-001 Work Order #...: CFC14 Matrix.....: WATER
Date Sampled...: 02/11/98 08:30 Date Received..: 02/12/98

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Dissolved Solids	560	10	mg/L	MCAWW 160.1	02/17-02/18/98	8048165
	Dilution Factor: 1					
Total Suspended Solids	80	4.0	mg/L	MCAWW 160.2	02/18/98	8049222
	Dilution Factor: 1					

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER
Method: SW846 8260A
Volatile Organics, GC/MS (8260A)

Lab Sample ID:H8B120170 001

Sample WT/Vol: 5 / mL
Work Order: CFC1420R
Dilution factor: 1
Moisture %:NA

Date Received: 02/12/98
Date Extracted:02/25/98
Date Analyzed: 02/25/98

QC Batch: 8056143

Client Sample Id: IR41-GW11-98A -RE 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	**Methylene chloride**	**2.1**	**J B**
67-64-1	**Acetone**	**13**	**J**
75-15-0	Carbon disulfide	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
67-66-3	Chloroform	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
78-93-3	2-Butanone	20	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
75-27-4	Bromodichloromethane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
79-01-6	Trichloroethene	5.0	U
124-48-1	Dibromochloromethane	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
71-43-2	**Benzene**	**2.6**	**J**
10061-02-6	trans-1,3-Dichloropropene	5.0	U
75-25-2	Bromoform	5.0	U
108-10-1	4-Methyl-2-pentanone	20	U
591-78-6	2-Hexanone	20	U
127-18-4	Tetrachloroethene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER
Method: SW846 8260A
Volatile Organics, GC/MS (8260A)

Lab Sample ID:H8B120170 001

Sample WT/Vol: 5 / mL
Work Order: CFC1420R
Dilution factor: 1
Moisture %:NA

Date Received: 02/12/98
Date Extracted:02/25/98
Date Analyzed: 02/25/98

QC Batch: 8056143

Client Sample Id: IR41-GW11-98A -RE 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
108-88-3	Toluene	5.0	U
108-90-7	**Chlorobenzene**	**1.1**	**J**
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
1330-20-7	Xylenes (total)	5.0	U

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER
Method: SW846 8260A
Volatile Organics, GC/MS (8260A)

Lab Sample ID:H8B120170 002

Sample WT/Vol: 5 / mL
Work Order: CFC1610R
Dilution factor: 1
Moisture %:NA

Date Received: 02/12/98
Date Extracted:02/24/98
Date Analyzed: 02/24/98

QC Batch: 8055197

Client Sample Id: IR41-GW11DW-98A

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	**Methylene chloride**	**2.0**	**J B**
67-64-1	Acetone	20	U
75-15-0	Carbon disulfide	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
540-59-0	**1,2-Dichloroethene (total)**	**0.98**	**J**
67-66-3	Chloroform	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
78-93-3	2-Butanone	20	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
75-27-4	Bromodichloromethane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
79-01-6	Trichloroethene	5.0	U
124-48-1	Dibromochloromethane	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
71-43-2	**Benzene**	**1.1**	**J**
10061-02-6	trans-1,3-Dichloropropene	5.0	U
75-25-2	Bromoform	5.0	U
108-10-1	4-Methyl-2-pentanone	20	U
591-78-6	2-Hexanone	20	U
127-18-4	Tetrachloroethene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER
Method: SW846 8260A
Volatile Organics, GC/MS (8260A)

Lab Sample ID:H8B120170 002

Sample WT/Vol: 5 / mL
Work Order: CFC1610R
Dilution factor: 1
Moisture %:NA

Date Received: 02/12/98
Date Extracted:02/24/98
Date Analyzed: 02/24/98

QC Batch: 8055197

Client Sample Id: IR41-GW11DW-98A

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
108-88-3	Toluene	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
1330-20-7	Xylenes (total)	5.0	U

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR41-GW11DW-98A

TOTAL Metals

Lot-Sample #...: H8B120170-002 Matrix.....: WATER
Date Sampled...: 02/11/98 Date Received..: 02/12/98

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8055103						
Mercury	**0.081 B**	**0.20**	**ug/L**	**ICLP ILM03.0**	**02/24-02/25/98**	**CFC1610Q**
		Dilution Factor: 1				
		Analysis Time..: 10:20				
Prep Batch #...: 8055175						
Aluminum	ND	200	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC16101
		Dilution Factor: 1				
		Analysis Time..: 18:35				
Arsenic	ND	10.0	ug/L	ICLP ILM03.0	02/25-02/28/98	CFC1610L
		Dilution Factor: 1				
		Analysis Time..: 20:51				
Lead	ND	3.0	ug/L	ICLP ILM03.0	02/25-02/28/98	CFC1610M
		Dilution Factor: 1				
		Analysis Time..: 20:51				
Antimony	ND	60.0	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC16102
		Dilution Factor: 1				
		Analysis Time..: 18:35				
Barium	**50.9 B**	**200**	**ug/L**	**ICLP ILM03.0**	**02/25-02/27/98**	**CFC16103**
		Dilution Factor: 1				
		Analysis Time..: 18:35				
Selenium	ND	5.0	ug/L	ICLP ILM03.0	02/25-02/28/98	CFC1610N
		Dilution Factor: 1				
		Analysis Time..: 20:51				
Beryllium	ND	5.0	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC16104
		Dilution Factor: 1				
		Analysis Time..: 18:35				
Thallium	**5.0 B**	**10.0**	**ug/L**	**ICLP ILM03.0**	**02/25-02/28/98**	**CFC1610P**
		Dilution Factor: 1				
		Analysis Time..: 20:51				
Cadmium	ND	5.0	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC16105
		Dilution Factor: 1				
		Analysis Time..: 18:35				
Calcium	**254000**	**5000**	**ug/L**	**ICLP ILM03.0**	**02/25-02/27/98**	**CFC1610C**
		Dilution Factor: 1				
		Analysis Time..: 18:35				

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR41-GW11DW-98A

TOTAL Metals

Lot-Sample #...: H8B120170-002 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Chromium	**11.0**	**10.0**	**ug/L**	**ICLP ILM03.0**	**02/25-02/27/98**	**CFC16107**
		Dilution Factor: 1				
		Analysis Time..: 18:35				
Cobalt	ND	50.0	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC16108
		Dilution Factor: 1				
		Analysis Time..: 18:35				
Copper	ND	25.0	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC16109
		Dilution Factor: 1				
		Analysis Time..: 18:35				
Iron	**3410**	**100**	**ug/L**	**ICLP ILM03.0**	**02/25-02/27/98**	**CFC1610A**
		Dilution Factor: 1				
		Analysis Time..: 18:35				
Magnesium	**7440**	**5000**	**ug/L**	**ICLP ILM03.0**	**02/25-02/27/98**	**CFC[illegible]0C**
		Dilution Factor: 1				
		Analysis Time..: 18:35				
Manganese	**139**	**15.0**	**ug/L**	**ICLP ILM03.0**	**02/25-02/27/98**	**CFC1610D**
		Dilution Factor: 1				
		Analysis Time..: 18:35				
Nickel	ND	40.0	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC1610E
		Dilution Factor: 1				
		Analysis Time..: 18:35				
Potassium	**1600 B**	**5000**	**ug/L**	**ICLP ILM03.0**	**02/25-02/27/98**	**CFC1610F**
		Dilution Factor: 1				
		Analysis Time..: 18:35				
Silver	ND	10.0	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC1610G
		Dilution Factor: 1				
		Analysis Time..: 18:35				
Sodium	**222000**	**5000**	**ug/L**	**ICLP ILM03.0**	**02/25-02/27/98**	**CFC1610H**
		Dilution Factor: 1				
		Analysis Time..: 18:35				
Vanadium	**46.3 B**	**50.0**	**ug/L**	**ICLP ILM03.0**	**02/25-02/27/98**	**CFC1610J**
		Dilution Factor: 1				
		Analysis Time..: 18:35				

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BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR41-GW11DW-98A

TOTAL Metals

Lot-Sample #...: H8B120170-002 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Zinc	12.9 B	20.0	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC1610

Dilution Factor: 1
Analysis Time..: 18:35

NOTE(S):

B Estimated result. Result is less than RL.

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR41-GW11DW-98A

General Chemistry

Lot-Sample #...: H8B120170-002 Work Order #...: CFC16 Matrix.....: WATER
Date Sampled...: 02/11/98 09:00 Date Received..: 02/12/98

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Dissolved Solids	1200	10	mg/L	MCAWW 160.1	02/17-02/18/98	8048165
	Dilution Factor: 1					
Total Suspended Solids	6.0	4.0	mg/L	MCAWW 160.2	02/18/98	8049222
	Dilution Factor: 1					

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER
Method: SW846 8260A
Volatile Organics, GC/MS (8260A)

Lab Sample ID:H8B120170 003

Sample WT/Vol: 5 / mL
Work Order: CFC1710R
Dilution factor: 1
Moisture %:NA

Date Received: 02/12/98
Date Extracted:02/24/98
Date Analyzed: 02/24/98

QC Batch: 8055197

Client Sample Id: IR41-GW12-98A

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	**Methylene chloride**	**2.3**	**J B**
67-64-1	Acetone	20	U
75-15-0	Carbon disulfide	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
67-66-3	Chloroform	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
78-93-3	2-Butanone	20	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
75-27-4	Bromodichloromethane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
79-01-6	Trichloroethene	5.0	U
124-48-1	Dibromochloromethane	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
71-43-2	Benzene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
75-25-2	Bromoform	5.0	U
108-10-1	4-Methyl-2-pentanone	20	U
591-78-6	2-Hexanone	20	U
127-18-4	Tetrachloroethene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER
Method: SW846 8260A
Volatile Organics, GC/MS (8260A)

Lab Sample ID:H8B120170 003

Sample WT/Vol: 5 / mL
Work Order: CFC1710R
Dilution factor: 1
Moisture %:NA

Date Received: 02/12/98
Date Extracted:02/24/98
Date Analyzed: 02/24/98

QC Batch: 8055197

Client Sample Id: IR41-GW12-98A

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
108-88-3	Toluene	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
1330-20-7	Xylenes (total)	5.0	U

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR41-GW12-98A

TOTAL Metals

Lot-Sample #...: H8B120170-003 Matrix.....: WATER
Date Sampled...: 02/11/98 Date Received..: 02/12/98

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8055103						
Mercury	0.035 B	0.20	ug/L	ICLP ILM03.0	02/24-02/25/98	CFC1710Q
		Dilution Factor: 1				
		Analysis Time..: 10:23				
Prep Batch #...: 8055175						
Aluminum	ND	200	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC17101
		Dilution Factor: 1				
		Analysis Time..: 18:40				
Arsenic	ND	10.0	ug/L	ICLP ILM03.0	02/25-02/28/98	CFC1710L
		Dilution Factor: 1				
		Analysis Time..: 20:57				
Lead	ND	3.0	ug/L	ICLP ILM03.0	02/25-02/28/98	CFC1710M
		Dilution Factor: 1				
		Analysis Time..: 20:57				
Antimony	ND	60.0	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC17102
		Dilution Factor: 1				
		Analysis Time..: 18:40				
Barium	23.1 B	200	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC17103
		Dilution Factor: 1				
		Analysis Time..: 18:40				
Selenium	ND	5.0	ug/L	ICLP ILM03.0	02/25-02/28/98	CFC1710N
		Dilution Factor: 1				
		Analysis Time..: 20:57				
Beryllium	ND	5.0	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC17104
		Dilution Factor: 1				
		Analysis Time..: 18:40				
Thallium	ND	10.0	ug/L	ICLP ILM03.0	02/25-02/28/98	CFC1710I
		Dilution Factor: 1				
		Analysis Time..: 20:57				
Cadmium	ND	5.0	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC17105
		Dilution Factor: 1				
		Analysis Time..: 18:40				
Calcium	53700	5000	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC1710(
		Dilution Factor: 1				
		Analysis Time..: 18:40				

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR41-GW12-98A

TOTAL Metals

Lot-Sample #...: H8B120170-003 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Chromium	ND	10.0	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC17107
		Dilution Factor: 1				
		Analysis Time..: 18:40				
Cobalt	14.6 B	50.0	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC17108
		Dilution Factor: 1				
		Analysis Time..: 18:40				
Copper	6.7 B	25.0	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC17109
		Dilution Factor: 1				
		Analysis Time..: 18:40				
Iron	4910	100	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC1710A
		Dilution Factor: 1				
		Analysis Time..: 18:40				
Magnesium	3070 B	5000	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC1710C
		Dilution Factor: 1				
		Analysis Time..: 18:40				
Manganese	110	15.0	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC1710D
		Dilution Factor: 1				
		Analysis Time..: 18:40				
Nickel	ND	40.0	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC1710E
		Dilution Factor: 1				
		Analysis Time..: 18:40				
Potassium	ND	5000	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC1710F
		Dilution Factor: 1				
		Analysis Time..: 18:40				
Silver	ND	10.0	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC1710G
		Dilution Factor: 1				
		Analysis Time..: 18:40				
Sodium	6560	5000	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC1710H
		Dilution Factor: 1				
		Analysis Time..: 18:40				
Vanadium	27.7 B	50.0	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC1710J
		Dilution Factor: 1				
		Analysis Time..: 18:40				

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BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR41-GW12-98A

TOTAL Metals

Lot-Sample #...: H8B120170-003 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Zinc	40.5	20.0	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC1710K

Dilution Factor: 1
Analysis Time..: 18:40

NOTE(S):

B Estimated result. Result is less than RL.

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR41-GW12-98A

General Chemistry

Lot-Sample #...: H8B120170-003 Work Order #...: CFC17 Matrix.....: WATER
Date Sampled...: 02/11/98 11:00 Date Received..: 02/12/98

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Dissolved Solids	170	10	mg/L	MCAWW 160.1	02/17-02/18/98	8048165
	Dilution Factor: 1					
Total Suspended Solids	8.0	4.0	mg/L	MCAWW 160.2	02/18/98	8049222
	Dilution Factor: 1					

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR41-DD-SD01-98A

TOTAL Metals

Lot-Sample #...: H8B110165-008 **Matrix.....:** SOLID
Date Sampled...: 02/09/98 **Date Received..:** 02/11/98
% Moisture.....: 23

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8057103						
Aluminum	**1270**	**52.2** Dilution Factor: 1	**mg/kg**	**ICLP ILM03.0**	**02/26-03/02/98**	**CFA8J10**
Arsenic	ND	2.6 Dilution Factor: 1	mg/kg	ICLP ILM03.0	02/26-03/04/98	CFA8J10
Arsenic	ND	2.6 Dilution Factor: 1	mg/kg	ICLP ILM03.0	02/26-03/04/98	CFA8J20
Lead	**4.4**	**0.78** Dilution Factor: 1	**mg/kg**	**ICLP ILM03.0**	**02/26-03/04/98**	**CFA8J10**
Antimony	ND	15.7 Dilution Factor: 1	mg/kg	ICLP ILM03.0	02/26-03/02/98	CFA8J10
Barium	**5.9 B**	**52.2** Dilution Factor: 1	**mg/kg**	**ICLP ILM03.0**	**02/26-03/02/98**	**CFA8J10**
Selenium	ND	1.3 Dilution Factor: 1	mg/kg	ICLP ILM03.0	02/26-03/04/98	CFA8J10
Beryllium	ND	1.3 Dilution Factor: 1	mg/kg	ICLP ILM03.0	02/26-03/02/98	CFA8J10
Thallium	**1.1 B**	**2.6** Dilution Factor: 1	**mg/kg**	**ICLP ILM03.0**	**02/26-03/04/98**	**CFA8J10**
Cadmium	ND	1.3 Dilution Factor: 1	mg/kg	ICLP ILM03.0	02/26-03/02/98	CFA8J10
Calcium	**587 B**	**1310** Dilution Factor: 1	**mg/kg**	**ICLP ILM03.0**	**02/26-03/02/98**	**CFA8J10**
Chromium	**3.0**	**2.6** Dilution Factor: 1	**mg/kg**	**ICLP ILM03.0**	**02/26-03/02/98**	**CFA8J10**
Cobalt	ND	13.1 Dilution Factor: 1	mg/kg	ICLP ILM03.0	02/26-03/02/98	CFA8J10
Copper	**1.7 B**	**6.5** Dilution Factor: 1	**mg/kg**	**ICLP ILM03.0**	**02/26-03/02/98**	**CFA8J10**

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BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR41-DD-SD01-98A

TOTAL Metals

Lot-Sample #...: H8B110165-008 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	2420	26.1 Dilution Factor: 1	mg/kg	ICLP ILM03.0	02/26-03/02/98	CFA8J10(
Magnesium	52.9 B	1310 Dilution Factor: 1	mg/kg	ICLP ILM03.0	02/26-03/02/98	CFA8J10I
Manganese	4.6	3.9 Dilution Factor: 1	mg/kg	ICLP ILM03.0	02/26-03/02/98	CFA8J10J
Nickel	ND	10.4 Dilution Factor: 1	mg/kg	ICLP ILM03.0	02/26-03/02/98	CFA8J10K
Potassium	ND	1310 Dilution Factor: 1	mg/kg	ICLP ILM03.0	02/26-03/02/98	CFA8J10L
Silver	ND	2.6 Dilution Factor: 1	mg/kg	ICLP ILM03.0	02/26-03/02/98	CFA8J10M
Sodium	42.9 B	1310 Dilution Factor: 1	mg/kg	ICLP ILM03.0	02/26-03/02/98	CFA8J10N
Vanadium	3.7 B	13.1 Dilution Factor: 1	mg/kg	ICLP ILM03.0	02/26-03/02/98	CFA8J10P
Zinc	23.4	5.2 Dilution Factor: 1	mg/kg	ICLP ILM03.0	02/26-03/02/98	CFA8J10Q
Prep Batch #...: 8057157						
Mercury	0.040 B	0.13 Dilution Factor: 1	mg/kg	ICLP ILM03.0	02/26-02/27/98	CFA8J10R

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR41-DD-SD01-98A

General Chemistry

Lot-Sample #...: H8B110165-008 **Work Order #...:** CFA8J **Matrix.....:** SOLID
Date Sampled...: 02/09/98 16:30 **Date Received..:** 02/11/98
% Moisture.....: 23

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	23.4	0.10	%	MCAWW 160.3 MOD	02/14-02/16/98	8047208

Dilution Factor: 1

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID

Lab Sample ID:H8B110165 008

Method: SW846 8260A
Volatile Organics, GC/MS (8260A)

Sample WT/Vol: 5 / g

Date Received: 02/11/98

Work Order: CFA8J201

Date Extracted:02/20/98

Dilution factor: 1

Date Analyzed: 02/20/98

Moisture %:23

QC Batch: 8051224

Client Sample Id: IR41-DD-SD01-98A -RE 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
74-87-3	Chloromethane	13	U
74-83-9	Bromomethane	13	U
75-01-4	Vinyl chloride	13	U
75-00-3	Chloroethane	13	U
75-09-2	**Methylene chloride**	**2.8**	**J B**
67-64-1	Acetone	26	U
75-15-0	Carbon disulfide	6.5	U
75-35-4	1,1-Dichloroethene	6.5	U
75-34-3	1,1-Dichloroethane	6.5	U
540-59-0	1,2-Dichloroethene (total)	6.5	U
67-66-3	Chloroform	6.5	U
107-06-2	1,2-Dichloroethane	6.5	U
78-93-3	2-Butanone	26	U
71-55-6	1,1,1-Trichloroethane	6.5	U
56-23-5	Carbon tetrachloride	6.5	U
75-27-4	Bromodichloromethane	6.5	U
78-87-5	1,2-Dichloropropane	6.5	U
10061-01-5	cis-1,3-Dichloropropene	6.5	U
79-01-6	Trichloroethene	6.5	U
124-48-1	Dibromochloromethane	6.5	U
79-00-5	1,1,2-Trichloroethane	6.5	U
71-43-2	Benzene	6.5	U
10061-02-6	trans-1,3-Dichloropropene	6.5	U
75-25-2	Bromoform	6.5	U
108-10-1	4-Methyl-2-pentanone	26	U
591-78-6	2-Hexanone	26	U
127-18-4	Tetrachloroethene	6.5	U
79-34-5	1,1,2,2-Tetrachloroethane	6.5	U

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID
Method: SW846 8260A
Volatile Organics, GC/MS (8260A)

Lab Sample ID:H8B110165 008

Sample WT/Vol: 5 / g
Work Order: CFA8J201
Dilution factor: 1
Moisture %:23

Date Received: 02/11/98
Date Extracted:02/20/98
Date Analyzed: 02/20/98

QC Batch: 8051224

Client Sample Id: IR41-DD-SD01-98A -RE 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
108-88-3	Toluene	6.5	U
108-90-7	Chlorobenzene	6.5	U
100-41-4	Ethylbenzene	6.5	U
100-42-5	Styrene	6.5	U
1330-20-7	Xylenes (total)	6.5	U

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID
Method: SW846 8260A
Volatile Organics, GC/MS (8260A)

Lab Sample ID:H8B110165 009

Sample WT/Vol: 5 / g
Work Order: CFA8L101
Dilution factor: 1
Moisture %:58

Date Received: 02/11/98
Date Extracted:02/19/98
Date Analyzed: 02/19/98

QC Batch: 8050195

Client Sample Id: IR41-DD-SD02-98A

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
74-87-3	Chloromethane	24	U
74-83-9	Bromomethane	24	U
75-01-4	Vinyl chloride	24	U
75-00-3	Chloroethane	24	U
75-09-2	**Methylene chloride**	**9.2**	**J**
67-64-1	Acetone	47	U
75-15-0	Carbon disulfide	12	U
75-35-4	1,1-Dichloroethene	12	U
75-34-3	1,1-Dichloroethane	12	U
540-59-0	1,2-Dichloroethene (total)	12	U
67-66-3	Chloroform	12	U
107-06-2	1,2-Dichloroethane	12	U
78-93-3	**2-Butanone**	**8.9**	**J**
71-55-6	1,1,1-Trichloroethane	12	U
56-23-5	Carbon tetrachloride	12	U
75-27-4	Bromodichloromethane	12	U
78-87-5	1,2-Dichloropropane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
79-01-6	Trichloroethene	12	U
124-48-1	Dibromochloromethane	12	U
79-00-5	1,1,2-Trichloroethane	12	U
71-43-2	Benzene	12	U
10061-02-6	trans-1,3-Dichloropropene	12	U
75-25-2	Bromoform	12	U
108-10-1	4-Methyl-2-pentanone	47	U
591-78-6	2-Hexanone	47	U
127-18-4	**Tetrachloroethene**	**7.8**	**J**
79-34-5	1,1,2,2-Tetrachloroethane	12	U

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID
Method: SW846 8260A
Volatile Organics, GC/MS (8260A)

Lab Sample ID:H8B110165 009

Sample WT/Vol: 5 / g
Work Order: CFA8L101
Dilution factor: 1
Moisture %:58

Date Received: 02/11/98
Date Extracted:02/19/98
Date Analyzed: 02/19/98

QC Batch: 8050195

Client Sample Id: IR41-DD-SD02-98A

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
108-88-3	Toluene	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	12	U
100-42-5	Styrene	12	U
1330-20-7	Xylenes (total)	12	U

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR41-DD-SD02-98A

TOTAL Metals

Lot-Sample #...: H8B110165-009 **Matrix.....:** SOLID
Date Sampled...: 02/09/98 **Date Received..:** 02/11/98
% Moisture.....: 58

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8057103						
Aluminum	**9650**	**94.6** Dilution Factor: 1	**mg/kg**	**ICLP ILM03.0**	**02/26-03/02/98**	**CFA8L10**
Arsenic	ND	4.7 Dilution Factor: 1	mg/kg	ICLP ILM03.0	02/26-03/04/98	CFA8L10
Lead	**16.6**	**1.4** Dilution Factor: 1	**mg/kg**	**ICLP ILM03.0**	**02/26-03/04/98**	**CFA8L10**
Antimony	ND	28.4 Dilution Factor: 1	mg/kg	ICLP ILM03.0	02/26-03/02/98	CFA8L10
Barium	**33.4 B**	**94.6** Dilution Factor: 1	**mg/kg**	**ICLP ILM03.0**	**02/26-03/02/98**	**CFA8L10**
Selenium	ND	2.4 Dilution Factor: 1	mg/kg	ICLP ILM03.0	02/26-03/04/98	CFA8L10
Beryllium	**0.19 B**	**2.4** Dilution Factor: 1	**mg/kg**	**ICLP ILM03.0**	**02/26-03/02/98**	**CFA8L10**
Thallium	ND	4.7 Dilution Factor: 1	mg/kg	ICLP ILM03.0	02/26-03/04/98	CFA8L10
Cadmium	ND	2.4 Dilution Factor: 1	mg/kg	ICLP ILM03.0	02/26-03/02/98	CFA8L10
Calcium	**2480**	**2360** Dilution Factor: 1	**mg/kg**	**ICLP ILM03.0**	**02/26-03/02/98**	**CFA8L10**
Chromium	**84.4**	**4.7** Dilution Factor: 1	**mg/kg**	**ICLP ILM03.0**	**02/26-03/02/98**	**CFA8L10**
Cobalt	**3.7 B**	**23.6** Dilution Factor: 1	**mg/kg**	**ICLP ILM03.0**	**02/26-03/02/98**	**CFA8L10**
Copper	**39.7**	**11.8** Dilution Factor: 1	**mg/kg**	**ICLP ILM03.0**	**02/26-03/02/98**	**CFA8L10**
Iron	**6400**	**47.3** Dilution Factor: 1	**mg/kg**	**ICLP ILM03.0**	**02/26-03/02/98**	**CFA8L10**

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BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR41-DD-SD02-98A

TOTAL Metals

Lot-Sample #...: H8B110165-009 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Magnesium	444 B	2360	mg/kg	ICLP ILM03.0	02/26-03/02/98	CFA8L10E
		Dilution Factor: 1				
Manganese	31.0	7.1	mg/kg	ICLP ILM03.0	02/26-03/02/98	CFA8L10J
		Dilution Factor: 1				
Nickel	41.7	18.9	mg/kg	ICLP ILM03.0	02/26-03/02/98	CFA8L10K
		Dilution Factor: 1				
Potassium	393 B	2360	mg/kg	ICLP ILM03.0	02/26-03/02/98	CFA8L10L
		Dilution Factor: 1				
Silver	ND	4.7	mg/kg	ICLP ILM03.0	02/26-03/02/98	CFA8L10M
		Dilution Factor: 1				
Sodium	108 B	2360	mg/kg	ICLP ILM03.0	02/26-03/02/98	CFA8L10N
		Dilution Factor: 1				
Vanadium	19.1 B	23.6	mg/kg	ICLP ILM03.0	02/26-03/02/98	CFA8L10P
		Dilution Factor: 1				
Zinc	62.6	9.5	mg/kg	ICLP ILM03.0	02/26-03/02/98	CFA8L10Q
		Dilution Factor: 1				
Prep Batch #...: 8057157						
Mercury	0.11 B	0.24	mg/kg	ICLP ILM03.0	02/26-02/27/98	CFA8L10R
		Dilution Factor: 1				

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR41-DD-SD02-98A

General Chemistry

Lot-Sample #...: H8B110165-009 Work Order #...: CFA8L Matrix.....: SOLID
Date Sampled...: 02/09/98 17:40 Date Received..: 02/11/98
% Moisture.....: 58

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	57.7	0.10	%	MCAWW 160.3 MOD	02/14-02/16/98	8047208

Dilution Factor: 1

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID
Method: SW846 8260A
Volatile Organics, GC/MS (8260A)

Lab Sample ID:H8B110165 009

Sample WT/Vol: 5 / g
Work Order: CFA8L201
Dilution factor: 1
Moisture %:58

Date Received: 02/11/98
Date Extracted:02/20/98
Date Analyzed: 02/20/98

QC Batch: 8051224

Client Sample Id: IR41-DD-SD02-98A -RE 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
74-87-3	Chloromethane	24	U
74-83-9	Bromomethane	24	U
75-01-4	Vinyl chloride	24	U
75-00-3	Chloroethane	24	U
75-09-2	**Methylene chloride**	**8.2**	**J B**
67-64-1	**Acetone**	**41**	**J**
75-15-0	Carbon disulfide	12	U
75-35-4	1,1-Dichloroethene	12	U
75-34-3	1,1-Dichloroethane	12	U
540-59-0	1,2-Dichloroethene (total)	12	U
67-66-3	Chloroform	12	U
107-06-2	1,2-Dichloroethane	12	U
78-93-3	**2-Butanone**	**16**	**J**
71-55-6	1,1,1-Trichloroethane	12	U
56-23-5	Carbon tetrachloride	12	U
75-27-4	Bromodichloromethane	12	U
78-87-5	1,2-Dichloropropane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
79-01-6	Trichloroethene	12	U
124-48-1	Dibromochloromethane	12	U
79-00-5	1,1,2-Trichloroethane	12	U
71-43-2	Benzene	12	U
10061-02-6	trans-1,3-Dichloropropene	12	U
75-25-2	Bromoform	12	U
108-10-1	4-Methyl-2-pentanone	47	U
591-78-6	2-Hexanone	47	U
127-18-4	Tetrachloroethene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID
Method: SW846 8260A
Volatile Organics, GC/MS (8260A)

Lab Sample ID:H8B110165 009

Sample WT/Vol: 5 / g
Work Order: CFA8L201
Dilution factor: 1
Moisture %:58

Date Received: 02/11/98
Date Extracted:02/20/98
Date Analyzed: 02/20/98

QC Batch: 8051224

Client Sample Id: IR41-DD-SD02-98A -RE 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
108-88-3	Toluene	12	U
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	12	U
100-42-5	Styrene	12	U
1330-20-7	Xylenes (total)	12	U

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER
Method: SW846 8260A
Volatile Organics, GC/MS (8260A)

Lab Sample ID:H8B110165 004

Sample WT/Vol: 5 / mL
Work Order: CFA8A10R
Dilution factor: 1
Moisture %:NA

Date Received: 02/11/98
Date Extracted:02/18/98
Date Analyzed: 02/18/98

QC Batch: 8049200

Client Sample Id: IR41-DD-SW01-98A

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	**Methylene chloride**	**1.4**	**J B**
67-64-1	Acetone	20	U
75-15-0	Carbon disulfide	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
67-66-3	Chloroform	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
78-93-3	2-Butanone	20	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
75-27-4	Bromodichloromethane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
79-01-6	Trichloroethene	5.0	U
124-48-1	Dibromochloromethane	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
71-43-2	Benzene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
75-25-2	Bromoform	5.0	U
108-10-1	4-Methyl-2-pentanone	20	U
591-78-6	2-Hexanone	20	U
127-18-4	Tetrachloroethene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER
Method: SW846 8260A
Volatile Organics, GC/MS (8260A)

Lab Sample ID:H8B110165 004

Sample WT/Vol: 5 / mL
Work Order: CFA8A10R
Dilution factor: 1
Moisture %:NA

Date Received: 02/11/98
Date Extracted:02/18/98
Date Analyzed: 02/18/98

QC Batch: 8049200

Client Sample Id: IR41-DD-SW01-98A

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
108-88-3	Toluene	5.0	U
108-90-7	Chlorobenzene	0.82	J
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
1330-20-7	Xylenes (total)	5.0	U

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR41-DD-SW01-98A

TOTAL Metals

Lot-Sample #...: H8B110165-004 Matrix.....: WATER
Date Sampled...: 02/09/98 Date Received..: 02/11/98

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8055103						
Mercury	**0.035 B**	**0.20** Dilution Factor: 1	**ug/L**	**ICLP ILM03.0**	**02/24-02/25/98**	**CFA8A10**
Prep Batch #...: 8055175						
Aluminum	**87.8 B**	**200** Dilution Factor: 1	**ug/L**	**ICLP ILM03.0**	**02/25-02/27/98**	**CFA8A10**
Arsenic	ND	10.0 Dilution Factor: 1	ug/L	ICLP ILM03.0	02/25-02/28/98	CFA8A10
Lead	ND	3.0 Dilution Factor: 1	ug/L	ICLP ILM03.0	02/25-02/28/98	CFA8A10
Antimony	ND	60.0 Dilution Factor: 1	ug/L	ICLP ILM03.0	02/25-02/27/98	CFA8A10
Barium	**45.1 B**	**200** Dilution Factor: 1	**ug/L**	**ICLP ILM03.0**	**02/25-02/27/98**	**CFA8A10**
Selenium	ND	5.0 Dilution Factor: 1	ug/L	ICLP ILM03.0	02/25-02/28/98	CFA8A10
Beryllium	ND	5.0 Dilution Factor: 1	ug/L	ICLP ILM03.0	02/25-02/27/98	CFA8A10
Thallium	ND	10.0 Dilution Factor: 1	ug/L	ICLP ILM03.0	02/25-02/28/98	CFA8A10
Cadmium	ND	5.0 Dilution Factor: 1	ug/L	ICLP ILM03.0	02/25-02/27/98	CFA8A10
Calcium	**66900**	**5000** Dilution Factor: 1	**ug/L**	**ICLP ILM03.0**	**02/25-02/27/98**	**CFA8A10**
Chromium	ND	10.0 Dilution Factor: 1	ug/L	ICLP ILM03.0	02/25-02/27/98	CFA8A10
Cobalt	ND	50.0 Dilution Factor: 1	ug/L	ICLP ILM03.0	02/25-02/27/98	CFA8A10
Copper	ND	25.0 Dilution Factor: 1	ug/L	ICLP ILM03.0	02/25-02/27/98	CFA8A10

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BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR41-DD-SW01-98A

TOTAL Metals

Lot-Sample #...: H8B110165-004 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	652	100	ug/L	ICLP ILM03.0	02/25-02/27/98	CFA8A10
		Dilution Factor: 1				
Magnesium	6000	5000	ug/L	ICLP ILM03.0	02/25-02/27/98	CFA8A10
		Dilution Factor: 1				
Manganese	34.0	15.0	ug/L	ICLP ILM03.0	02/25-02/27/98	CFA8A10
		Dilution Factor: 1				
Nickel	ND	40.0	ug/L	ICLP ILM03.0	02/25-02/27/98	CFA8A10
		Dilution Factor: 1				
Potassium	3780 B	5000	ug/L	ICLP ILM03.0	02/25-02/27/98	CFA8A10
		Dilution Factor: 1				
Silver	ND	10.0	ug/L	ICLP ILM03.0	02/25-02/27/98	CFA8A10
		Dilution Factor: 1				
Sodium	11600	5000	ug/L	ICLP ILM03.0	02/25-02/27/98	CFA8A10
		Dilution Factor: 1				
Vanadium	31.4 B	50.0	ug/L	ICLP ILM03.0	02/25-02/27/98	CFA8A10
		Dilution Factor: 1				
Zinc	16.2 B	20.0	ug/L	ICLP ILM03.0	02/25-02/27/98	CFA8A10
		Dilution Factor: 1				

NOTE(S):

B Estimated result. Result is less than RL.

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER
Method: SW846 8260A
Volatile Organics, GC/MS (8260A)

Lab Sample ID:H8B110165 005

Sample WT/Vol: 5 / mL
Work Order: CFA8C10R
Dilution factor: 1
Moisture %:NA

Date Received: 02/11/98
Date Extracted:02/18/98
Date Analyzed: 02/18/98

QC Batch: 8049200

Client Sample Id: IR41-DD-SW02-98A

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	**Methylene chloride**	1.5	J B
67-64-1	Acetone	20	U
75-15-0	Carbon disulfide	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
67-66-3	Chloroform	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
78-93-3	2-Butanone	20	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
75-27-4	Bromodichloromethane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
79-01-6	Trichloroethene	5.0	U
124-48-1	Dibromochloromethane	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
71-43-2	Benzene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
75-25-2	Bromoform	5.0	U
108-10-1	4-Methyl-2-pentanone	20	U
591-78-6	2-Hexanone	20	U
127-18-4	Tetrachloroethene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER
Method: SW846 8260A
Volatile Organics, GC/MS (8260A)

Lab Sample ID:H8B110165 005

Sample WT/Vol: 5 / mL
Work Order: CFA8C10R
Dilution factor: 1
Moisture %:NA

Date Received: 02/11/98
Date Extracted:02/18/98
Date Analyzed: 02/18/98

QC Batch: 8049200

Client Sample Id: IR41-DD-SW02-98A

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
108-88-3	Toluene	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
1330-20-7	Xylenes (total)	5.0	U

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR41-DD-SW02-98A

TOTAL Metals

Lot-Sample #...: H8B110165-005 **Matrix.....:** WATER
Date Sampled...: 02/09/98 **Date Received..:** 02/11/98

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8055103						
Mercury	ND	0.20 Dilution Factor: 1	ug/L	ICLP ILM03.0	02/24-02/25/98	CFA8C10(
Prep Batch #...: 8055175						
Aluminum	**88.7 B**	**200** Dilution Factor: 1	**ug/L**	**ICLP ILM03.0**	**02/25-02/27/98**	**CFA8C10**
Arsenic	ND	10.0 Dilution Factor: 1	ug/L	ICLP ILM03.0	02/25-02/28/98	CFA8C10
Lead	ND	3.0 Dilution Factor: 1	ug/L	ICLP ILM03.0	02/25-02/28/98	CFA8C10
Antimony	ND	60.0 Dilution Factor: 1	ug/L	ICLP ILM03.0	02/25-02/27/98	CFA8C10
Barium	**63.2 B**	**200** Dilution Factor: 1	**ug/L**	**ICLP ILM03.0**	**02/25-02/27/98**	**CFA8C10**
Selenium	ND	5.0 Dilution Factor: 1	ug/L	ICLP ILM03.0	02/25-02/28/98	CFA8C10
Beryllium	ND	5.0 Dilution Factor: 1	ug/L	ICLP ILM03.0	02/25-02/27/98	CFA8C10
Thallium	ND	10.0 Dilution Factor: 1	ug/L	ICLP ILM03.0	02/25-02/28/98	CFA8C10
Cadmium	ND	5.0 Dilution Factor: 1	ug/L	ICLP ILM03.0	02/25-02/27/98	CFA8C10
Calcium	**97900**	**5000** Dilution Factor: 1	**ug/L**	**ICLP ILM03.0**	**02/25-02/27/98**	**CFA8C10**
Chromium	**7.0 B**	**10.0** Dilution Factor: 1	**ug/L**	**ICLP ILM03.0**	**02/25-02/27/98**	**CFA8C10**
Cobalt	ND	50.0 Dilution Factor: 1	ug/L	ICLP ILM03.0	02/25-02/27/98	CFA8C10
Copper	**6.7 B**	**25.0** Dilution Factor: 1	**ug/L**	**ICLP ILM03.0**	**02/25-02/27/98**	**CFA8C10**

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BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR41-DD-SW02-98A

TOTAL Metals

Lot-Sample #...: H8B110165-005 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	1330	100	ug/L	ICLP ILM03.0	02/25-02/27/98	CFA8C10
		Dilution Factor: 1				
Magnesium	10400	5000	ug/L	ICLP ILM03.0	02/25-02/27/98	CFA8C10
		Dilution Factor: 1				
Manganese	139	15.0	ug/L	ICLP ILM03.0	02/25-02/27/98	CFA8C10
		Dilution Factor: 1				
Nickel	ND	40.0	ug/L	ICLP ILM03.0	02/25-02/27/98	CFA8C10
		Dilution Factor: 1				
Potassium	7550	5000	ug/L	ICLP ILM03.0	02/25-02/27/98	CFA8C10
		Dilution Factor: 1				
Silver	ND	10.0	ug/L	ICLP ILM03.0	02/25-02/27/98	CFA8C10
		Dilution Factor: 1				
Sodium	17800	5000	ug/L	ICLP ILM03.0	02/25-02/27/98	CFA8C10
		Dilution Factor: 1				
Vanadium	33.2 B	50.0	ug/L	ICLP ILM03.0	02/25-02/27/98	CFA8C10
		Dilution Factor: 1				
Zinc	18.3 B	20.0	ug/L	ICLP ILM03.0	02/25-02/27/98	CFA8C10
		Dilution Factor: 1				

NOTE(S):

B Estimated result. Result is less than RL.

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID
Method: SW846 8260A
Volatile Organics, GC/MS (8260A)

Lab Sample ID:H8B120170 012

Sample WT/Vol: 5 / g
Work Order: CFC1J101
Dilution factor: 1
Moisture %:47

Date Received: 02/12/98
Date Extracted:02/25/98
Date Analyzed: 02/25/98

QC Batch: 8056106

Client Sample Id: IR41-TC-SD10-98A

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
74-87-3	Chloromethane	19	U
74-83-9	Bromomethane	19	U
75-01-4	Vinyl chloride	19	U
75-00-3	Chloroethane	19	U
75-09-2	Methylene chloride	9.5	U
67-64-1	Acetone	38	U
75-15-0	Carbon disulfide	9.5	U
75-35-4	1,1-Dichloroethene	9.5	U
75-34-3	1,1-Dichloroethane	9.5	U
540-59-0	1,2-Dichloroethene (total)	9.5	U
67-66-3	Chloroform	9.5	U
107-06-2	1,2-Dichloroethane	9.5	U
78-93-3	**2-Butanone**	**5.8**	**J B**
71-55-6	1,1,1-Trichloroethane	9.5	U
56-23-5	Carbon tetrachloride	9.5	U
75-27-4	Bromodichloromethane	9.5	U
78-87-5	1,2-Dichloropropane	9.5	U
10061-01-5	cis-1,3-Dichloropropene	9.5	U
79-01-6	Trichloroethene	9.5	U
124-48-1	Dibromochloromethane	9.5	U
79-00-5	1,1,2-Trichloroethane	9.5	U
71-43-2	Benzene	9.5	U
10061-02-6	trans-1,3-Dichloropropene	9.5	U
75-25-2	Bromoform	9.5	U
108-10-1	4-Methyl-2-pentanone	38	U
591-78-6	2-Hexanone	38	U
127-18-4	Tetrachloroethene	9.5	U
79-34-5	1,1,2,2-Tetrachloroethane	9.5	U

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID
Method: SW846 8260A
Volatile Organics, GC/MS (8260A)

Lab Sample ID:H8B120170 012

Sample WT/Vol: 5 / g
Work Order: CFC1J101
Dilution factor: 1
Moisture %:47

Date Received: 02/12/98
Date Extracted:02/25/98
Date Analyzed: 02/25/98

QC Batch: 8056106

Client Sample Id: IR41-TC-SD10-98A

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
108-88-3	Toluene	9.5	U
108-90-7	Chlorobenzene	9.5	U
100-41-4	Ethylbenzene	9.5	U
100-42-5	Styrene	9.5	U
1330-20-7	Xylenes (total)	9.5	U

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR41-TC-SD10-98A

TOTAL Metals

Lot-Sample #...: H8B120170-012 Matrix.....: SOLID
Date Sampled...: 02/11/98 Date Received..: 02/12/98
% Moisture.....: 47

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8057103						
Aluminum	**3850**	**75.6**	**mg/kg**	**ICLP ILM03.0**	**02/26-03/02/98**	**CFC1J106**
		Dilution Factor: 1				
		Analysis Time..: 18:36				
Arsenic	ND	3.8	mg/kg	ICLP ILM03.0	02/26-03/04/98	CFC1J102
		Dilution Factor: 1				
		Analysis Time..: 16:40				
Lead	**17.6**	**1.1**	**mg/kg**	**ICLP ILM03.0**	**02/26-03/04/98**	**CFC1J103**
		Dilution Factor: 1				
		Analysis Time..: 16:40				
Antimony	ND	22.7	mg/kg	ICLP ILM03.0	02/26-03/02/98	CFC1J107
		Dilution Factor: 1				
		Analysis Time..: 18:36				
Barium	**24.3 B**	**75.6**	**mg/kg**	**ICLP ILM03.0**	**02/26-03/02/98**	**CFC1J108**
		Dilution Factor: 1				
		Analysis Time..: 18:36				
Selenium	ND	1.9	mg/kg	ICLP ILM03.0	02/26-03/04/98	CFC1J104
		Dilution Factor: 1				
		Analysis Time..: 16:40				
Beryllium	ND	1.9	mg/kg	ICLP ILM03.0	02/26-03/02/98	CFC1J109
		Dilution Factor: 1				
		Analysis Time..: 18:36				
Thallium	ND	3.8	mg/kg	ICLP ILM03.0	02/26-03/04/98	CFC1J105
		Dilution Factor: 1				
		Analysis Time..: 16:40				
Cadmium	ND	1.9	mg/kg	ICLP ILM03.0	02/26-03/02/98	CFC1J10I
		Dilution Factor: 1				
		Analysis Time..: 18:36				
Calcium	**2220**	**1890**	**mg/kg**	**ICLP ILM03.0**	**02/26-03/02/98**	**CFC1J10(**
		Dilution Factor: 1				
		Analysis Time..: 18:36				
Chromium	**5.0**	**3.8**	**mg/kg**	**ICLP ILM03.0**	**02/26-03/02/98**	**CFC1J101**
		Dilution Factor: 1				
		Analysis Time..: 18:36				

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BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR41-TC-SD10-98A

TOTAL Metals

Lot-Sample #...: H8B120170-012 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cobalt	ND	18.9	mg/kg	ICLP ILM03.0	02/26-03/02/98	CFC1J10E
		Dilution Factor: 1				
		Analysis Time..: 18:36				
Copper	**2.5 B**	**9.5**	**mg/kg**	**ICLP ILM03.0**	**02/26-03/02/98**	**CFC1J10I**
		Dilution Factor: 1				
		Analysis Time..: 18:36				
Iron	**2110**	**37.8**	**mg/kg**	**ICLP ILM03.0**	**02/26-03/02/98**	**CFC1J10G**
		Dilution Factor: 1				
		Analysis Time..: 18:36				
Magnesium	**186 B**	**1890**	**mg/kg**	**ICLP ILM03.0**	**02/26-03/02/98**	**CFC1J10F**
		Dilution Factor: 1				
		Analysis Time..: 18:36				
Manganese	**14.2**	**5.7**	**mg/kg**	**ICLP ILM03.0**	**02/26-03/02/98**	**CFC[illegible]0J**
		Dilution Factor: 1				
		Analysis Time..: 18:36				
Nickel	ND	15.1	mg/kg	ICLP ILM03.0	02/26-03/02/98	CFC1J10K
		Dilution Factor: 1				
		Analysis Time..: 18:36				
Potassium	ND	1890	mg/kg	ICLP ILM03.0	02/26-03/02/98	CFC1J10L
		Dilution Factor: 1				
		Analysis Time..: 18:36				
Silver	ND	3.8	mg/kg	ICLP ILM03.0	02/26-03/02/98	CFC1J10M
		Dilution Factor: 1				
		Analysis Time..: 18:36				
Sodium	**62.4 B**	**1890**	**mg/kg**	**ICLP ILM03.0**	**02/26-03/02/98**	**CFC1J10N**
		Dilution Factor: 1				
		Analysis Time..: 18:36				
Vanadium	**8.2 B**	**18.9**	**mg/kg**	**ICLP ILM03.0**	**02/26-03/02/98**	**CFC1J10P**
		Dilution Factor: 1				
		Analysis Time..: 18:36				
Zinc	**16.6**	**7.6**	**mg/kg**	**ICLP ILM03.0**	**02/26-03/02/98**	**CFC1J10Q**
		Dilution Factor: 1				
		Analysis Time..: 18:36				

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BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR41-TC-SD10-98A

TOTAL Metals

Lot-Sample #...: H8B120170-012 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8057157						
Mercury	0.090 B	0.19	mg/kg	ICLP ILM03.0	02/26-02/27/98	CFC1J10R
		Dilution Factor: 1				
		Analysis Time..: 09:45				

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR41-TC-SD10-98A

General Chemistry

Lot-Sample #...: H8B120170-012 Work Order #...: CFC1J Matrix.....: SOLID
Date Sampled...: 02/11/98 12:40 Date Received..: 02/12/98
% Moisture.....: 47

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	47.1	0.10	%	MCAWW 160.3 MOD	02/14-02/16/98	8047211

Dilution Factor: 1

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID
Method: SW846 8260A
Volatile Organics, GC/MS (8260A)

Lab Sample ID:H8B120170 013

Sample WT/Vol: 5 / g
Work Order: CFC1K101
Dilution factor: 1
Moisture %:27

Date Received: 02/12/98
Date Extracted:02/25/98
Date Analyzed: 02/25/98

QC Batch: 8056106

Client Sample Id: IR41-TC-SD11-98A

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
74-87-3	Chloromethane	14	U
74-83-9	Bromomethane	14	U
75-01-4	Vinyl chloride	14	U
75-00-3	Chloroethane	14	U
75-09-2	Methylene chloride	6.8	U
67-64-1	Acetone	27	U
75-15-0	Carbon disulfide	6.8	U
75-35-4	1,1-Dichloroethene	6.8	U
75-34-3	1,1-Dichloroethane	6.8	U
540-59-0	1,2-Dichloroethene (total)	6.8	U
67-66-3	Chloroform	6.8	U
107-06-2	1,2-Dichloroethane	6.8	U
78-93-3	2-Butanone	27	U
71-55-6	1,1,1-Trichloroethane	6.8	U
56-23-5	Carbon tetrachloride	6.8	U
75-27-4	Bromodichloromethane	6.8	U
78-87-5	1,2-Dichloropropane	6.8	U
10061-01-5	cis-1,3-Dichloropropene	6.8	U
79-01-6	Trichloroethene	6.8	U
124-48-1	Dibromochloromethane	6.8	U
79-00-5	1,1,2-Trichloroethane	6.8	U
71-43-2	Benzene	6.8	U
10061-02-6	trans-1,3-Dichloropropene	6.8	U
75-25-2	Bromoform	6.8	U
108-10-1	4-Methyl-2-pentanone	27	U
591-78-6	2-Hexanone	27	U
127-18-4	Tetrachloroethene	6.8	U
79-34-5	1,1,2,2-Tetrachloroethane	6.8	U

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID
Method: SW846 8260A
Volatile Organics, GC/MS (8260A)

Lab Sample ID:H8B120170 013

Sample WT/Vol: 5 / g
Work Order: CFC1K101
Dilution factor: 1
Moisture %:27

Date Received: 02/12/98
Date Extracted:02/25/98
Date Analyzed: 02/25/98

QC Batch: 8056106

Client Sample Id: IR41-TC-SD11-98A

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
108-88-3	Toluene	6.8	U
108-90-7	Chlorobenzene	6.8	U
100-41-4	Ethylbenzene	6.8	U
100-42-5	Styrene	6.8	U
1330-20-7	Xylenes (total)	6.8	U

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR41-TC-SD11-98A

TOTAL Metals

Lot-Sample #...: H8B120170-013 Matrix.....: SOLID
Date Sampled...: 02/11/98 Date Received..: 02/12/98
% Moisture.....: 27

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8057103						
Aluminum	**800**	**54.5**	**mg/kg**	**ICLP ILM03.0**	**02/26-03/02/98**	**CFC1K106**
		Dilution Factor: 1				
		Analysis Time..: 18:41				
Arsenic	ND	2.7	mg/kg	ICLP ILM03.0	02/26-03/04/98	CFC1K102
		Dilution Factor: 1				
		Analysis Time..: 16:47				
Lead	**1.8**	**0.82**	**mg/kg**	**ICLP ILM03.0**	**02/26-03/04/98**	**CFC1K103**
		Dilution Factor: 1				
		Analysis Time..: 16:47				
Antimony	ND	16.3	mg/kg	ICLP ILM03.0	02/26-03/02/98	CFC1K107
		Dilution Factor: 1				
		Analysis Time..: 18:41				
Barium	**5.4 B**	**54.5**	**mg/kg**	**ICLP ILM03.0**	**02/26-03/02/98**	**CFC1K108**
		Dilution Factor: 1				
		Analysis Time..: 18:41				
Selenium	ND	1.4	mg/kg	ICLP ILM03.0	02/26-03/04/98	CFC1K104
		Dilution Factor: 1				
		Analysis Time..: 16:47				
Beryllium	ND	1.4	mg/kg	ICLP ILM03.0	02/26-03/02/98	CFC1K109
		Dilution Factor: 1				
		Analysis Time..: 18:41				
Thallium	ND	2.7	mg/kg	ICLP ILM03.0	02/26-03/04/98	CFC1K105
		Dilution Factor: 1				
		Analysis Time..: 16:47				
Cadmium	ND	1.4	mg/kg	ICLP ILM03.0	02/26-03/02/98	CFC1K10A
		Dilution Factor: 1				
		Analysis Time..: 18:41				
Calcium	**266 B**	**1360**	**mg/kg**	**ICLP ILM03.0**	**02/26-03/02/98**	**CFC1K10C**
		Dilution Factor: 1				
		Analysis Time..: 18:41				
Chromium	**1.4 B**	**2.7**	**mg/kg**	**ICLP ILM03.0**	**02/26-03/02/98**	**CFC1K10D**
		Dilution Factor: 1				
		Analysis Time..: 18:41				

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BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR41-TC-SD11-98A

TOTAL Metals

Lot-Sample #...: H8B120170-013 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cobalt	ND	13.6	mg/kg	ICLP ILM03.0	02/26-03/02/98	CFC1K10E
		Dilution Factor: 1				
		Analysis Time..: 18:41				
Copper	1.1 B	6.8	mg/kg	ICLP ILM03.0	02/26-03/02/98	CFC1K10F
		Dilution Factor: 1				
		Analysis Time..: 18:41				
Iron	804	27.2	mg/kg	ICLP ILM03.0	02/26-03/02/98	CFC1K10G
		Dilution Factor: 1				
		Analysis Time..: 18:41				
Magnesium	38.6 B	1360	mg/kg	ICLP ILM03.0	02/26-03/02/98	CFC1K10H
		Dilution Factor: 1				
		Analysis Time..: 18:41				
Manganese	5.2	4.1	mg/kg	ICLP ILM03.0	02/26-03/02/98	CFC1K10J
		Dilution Factor: 1				
		Analysis Time..: 18:41				
Nickel	ND	10.9	mg/kg	ICLP ILM03.0	02/26-03/02/98	CFC1K10K
		Dilution Factor: 1				
		Analysis Time..: 18:41				
Potassium	ND	1360	mg/kg	ICLP ILM03.0	02/26-03/02/98	CFC1K10L
		Dilution Factor: 1				
		Analysis Time..: 18:41				
Silver	ND	2.7	mg/kg	ICLP ILM03.0	02/26-03/02/98	CFC1K10M
		Dilution Factor: 1				
		Analysis Time..: 18:41				
Sodium	32.7 B	1360	mg/kg	ICLP ILM03.0	02/26-03/02/98	CFC1K10N
		Dilution Factor: 1				
		Analysis Time..: 18:41				
Vanadium	4.1 B	13.6	mg/kg	ICLP ILM03.0	02/26-03/02/98	CFC1K10P
		Dilution Factor: 1				
		Analysis Time..: 18:41				
Zinc	10.5	5.4	mg/kg	ICLP ILM03.0	02/26-03/02/98	CFC1K10Q
		Dilution Factor: 1				
		Analysis Time..: 18:41				

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BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR41-TC-SD11-98A

TOTAL Metals

Lot-Sample #...: H8B120170-013 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8057157						
Mercury	0.043 B	0.14	mg/kg	ICLP ILM03.0	02/26-02/27/98	CFC1K10R
		Dilution Factor: 1				
		Analysis Time..: 09:52				

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR41-TC-SD11-98A

General Chemistry

Lot-Sample #...: H8B120170-013 Work Order #...: CFC1K Matrix.....: SOLID
Date Sampled...: 02/11/98 10:55 Date Received..: 02/12/98
% Moisture.....: 27

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	26.6	0.10	%	MCAWW 160.3 MOD	02/14-02/16/98	8047211

Dilution Factor: 1

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID
Method: SW846 8260A
Volatile Organics, GC/MS (8260A)

Lab Sample ID:H8B120170 014

Sample WT/Vol: 5 / g
Work Order: CFC1L101
Dilution factor: 1
Moisture %:21

Date Received: 02/12/98
Date Extracted:02/25/98
Date Analyzed: 02/25/98

QC Batch: 8056106

Client Sample Id: IR41-TC-SD12-98A

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
74-87-3	Chloromethane	13	U
74-83-9	Bromomethane	13	U
75-01-4	Vinyl chloride	13	U
75-00-3	Chloroethane	13	U
75-09-2	Methylene chloride	6.4	U
67-64-1	Acetone	25	U
75-15-0	Carbon disulfide	6.4	U
75-35-4	1,1-Dichloroethene	6.4	U
75-34-3	1,1-Dichloroethane	6.4	U
540-59-0	1,2-Dichloroethene (total)	6.4	U
67-66-3	Chloroform	6.4	U
107-06-2	1,2-Dichloroethane	6.4	U
78-93-3	2-Butanone	25	U
71-55-6	1,1,1-Trichloroethane	6.4	U
56-23-5	Carbon tetrachloride	6.4	U
75-27-4	Bromodichloromethane	6.4	U
78-87-5	1,2-Dichloropropane	6.4	U
10061-01-5	cis-1,3-Dichloropropene	6.4	U
79-01-6	Trichloroethene	6.4	U
124-48-1	Dibromochloromethane	6.4	U
79-00-5	1,1,2-Trichloroethane	6.4	U
71-43-2	Benzene	6.4	U
10061-02-6	trans-1,3-Dichloropropene	6.4	U
75-25-2	Bromoform	6.4	U
108-10-1	4-Methyl-2-pentanone	25	U
591-78-6	2-Hexanone	25	U
127-18-4	Tetrachloroethene	6.4	U
79-34-5	1,1,2,2-Tetrachloroethane	6.4	U

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID
Method: SW846 8260A
Volatile Organics, GC/MS (8260A)

Lab Sample ID:H8B120170 014

Sample WT/Vol: 5 / g
Work Order: CFC1L101
Dilution factor: 1
Moisture %:21

Date Received: 02/12/98
Date Extracted:02/25/98
Date Analyzed: 02/25/98

QC Batch: 8056106

Client Sample Id: IR41-TC-SD12-98A

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
108-88-3	Toluene	6.4	U
108-90-7	Chlorobenzene	6.4	U
100-41-4	Ethylbenzene	6.4	U
100-42-5	Styrene	6.4	U
1330-20-7	Xylenes (total)	6.4	U

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR41-TC-SD12-98A

TOTAL Metals

Lot-Sample #...: H8B120170-014 Matrix.....: SOLID
Date Sampled...: 02/11/98 Date Received..: 02/12/98
% Moisture.....: 21

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8057103						
Aluminum	**1050**	**50.8**	**mg/kg**	**ICLP ILM03.0**	**02/26-03/02/98**	**CFC1L106**
		Dilution Factor: 1				
		Analysis Time..: 18:56				
Arsenic	ND	2.5	mg/kg	ICLP ILM03.0	02/26-03/04/98	CFC1L102
		Dilution Factor: 1				
		Analysis Time..: 16:53				
Lead	**2.0**	**0.76**	**mg/kg**	**ICLP ILM03.0**	**02/26-03/04/98**	**CFC1L103**
		Dilution Factor: 1				
		Analysis Time..: 16:53				
Antimony	ND	15.2	mg/kg	ICLP ILM03.0	02/26-03/02/98	CFC1L107
		Dilution Factor: 1				
		Analysis Time..: 18:56				
Barium	**7.7 B**	**50.8**	**mg/kg**	**ICLP ILM03.0**	**02/26-03/02/98**	**CFC1L108**
		Dilution Factor: 1				
		Analysis Time..: 18:56				
Selenium	ND	1.3	mg/kg	ICLP ILM03.0	02/26-03/04/98	CFC1L104
		Dilution Factor: 1				
		Analysis Time..: 16:53				
Beryllium	ND	1.3	mg/kg	ICLP ILM03.0	02/26-03/02/98	CFC1L109
		Dilution Factor: 1				
		Analysis Time..: 18:56				
Thallium	ND	2.5	mg/kg	ICLP ILM03.0	02/26-03/04/98	CFC1L105
		Dilution Factor: 1				
		Analysis Time..: 16:53				
Cadmium	ND	1.3	mg/kg	ICLP ILM03.0	02/26-03/02/98	CFC1L10I
		Dilution Factor: 1				
		Analysis Time..: 18:56				
Calcium	**345 B**	**1270**	**mg/kg**	**ICLP ILM03.0**	**02/26-03/02/98**	**CFC1L10(**
		Dilution Factor: 1				
		Analysis Time..: 18:56				
Chromium	**2.1 B**	**2.5**	**mg/kg**	**ICLP ILM03.0**	**02/26-03/02/98**	**CFC1L10I**
		Dilution Factor: 1				
		Analysis Time..: 18:56				

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BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR41-TC-SD12-98A

TOTAL Metals

Lot-Sample #...: H8B120170-014 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cobalt	ND	12.7	mg/kg	ICLP ILM03.0	02/26-03/02/98	CFC1L10E
		Dilution Factor: 1				
		Analysis Time..: 18:56				
Copper	**0.89 B**	**6.4**	**mg/kg**	**ICLP ILM03.0**	**02/26-03/02/98**	**CFC1L10F**
		Dilution Factor: 1				
		Analysis Time..: 18:56				
Iron	**838**	**25.4**	**mg/kg**	**ICLP ILM03.0**	**02/26-03/02/98**	**CFC1L10G**
		Dilution Factor: 1				
		Analysis Time..: 18:56				
Magnesium	**46.5 B**	**1270**	**mg/kg**	**ICLP ILM03.0**	**02/26-03/02/98**	**CFC1L10H**
		Dilution Factor: 1				
		Analysis Time..: 18:56				
Manganese	**4.3**	**3.8**	**mg/kg**	**ICLP ILM03.0**	**02/26-03/02/98**	**CFC1[illegible]J**
		Dilution Factor: 1				
		Analysis Time..: 18:56				
Nickel	ND	10.2	mg/kg	ICLP ILM03.0	02/26-03/02/98	CFC1L10K
		Dilution Factor: 1				
		Analysis Time..: 18:56				
Potassium	ND	1270	mg/kg	ICLP ILM03.0	02/26-03/02/98	CFC1L10L
		Dilution Factor: 1				
		Analysis Time..: 18:56				
Silver	ND	2.5	mg/kg	ICLP ILM03.0	02/26-03/02/98	CFC1L10M
		Dilution Factor: 1				
		Analysis Time..: 18:56				
Sodium	**23.4 B**	**1270**	**mg/kg**	**ICLP ILM03.0**	**02/26-03/02/98**	**CFC1L10N**
		Dilution Factor: 1				
		Analysis Time..: 18:56				
Vanadium	**3.6 B**	**12.7**	**mg/kg**	**ICLP ILM03.0**	**02/26-03/02/98**	**CFC1L10P**
		Dilution Factor: 1				
		Analysis Time..: 18:56				
Zinc	**10.8**	**5.1**	**mg/kg**	**ICLP ILM03.0**	**02/26-03/02/98**	**CFC1L10Q**
		Dilution Factor: 1				
		Analysis Time..: 18:56				

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BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR41-TC-SD12-98A

TOTAL Metals

Lot-Sample #...: H8B120170-014 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8057157						
Mercury	0.035 B	0.13	mg/kg	ICLP ILM03.0	02/26-02/27/98	CFC1L10R
		Dilution Factor: 1				
		Analysis Time..: 09:54				

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR41-TC-SD12-98A

General Chemistry

Lot-Sample #...: H8B120170-014 **Work Order #...:** CFC1L **Matrix.....:** SOLID
Date Sampled...: 02/11/98 12:30 **Date Received..:** 02/12/98
% Moisture.....: 21

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	21.3	0.10	%	MCAWW 160.3 MOD	02/14-02/16/98	8047211

Dilution Factor: 1

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER
Method: SW846 8260A
Volatile Organics, GC/MS (8260A)

Lab Sample ID:H8B120170 007

Sample WT/Vol: 5 / mL
Work Order: CFC1D10R
Dilution factor: 1
Moisture %:NA

Date Received: 02/12/98
Date Extracted:02/24/98
Date Analyzed: 02/24/98

QC Batch: 8055197

Client Sample Id: IR41-TC-SW10-98A

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	**Methylene chloride**	**1.4**	**J B**
67-64-1	Acetone	20	U
75-15-0	Carbon disulfide	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
67-66-3	Chloroform	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
78-93-3	2-Butanone	20	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
75-27-4	Bromodichloromethane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
79-01-6	Trichloroethene	5.0	U
124-48-1	Dibromochloromethane	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
71-43-2	Benzene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
75-25-2	Bromoform	5.0	U
108-10-1	4-Methyl-2-pentanone	20	U
591-78-6	2-Hexanone	20	U
127-18-4	Tetrachloroethene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER
Method: SW846 8260A
Volatile Organics, GC/MS (8260A)

Lab Sample ID:H8B120170 007

Sample WT/Vol: 5 / mL
Work Order: CFC1D10R
Dilution factor: 1
Moisture %:NA

Date Received: 02/12/98
Date Extracted:02/24/98
Date Analyzed: 02/24/98

QC Batch: 8055197

Client Sample Id: IR41-TC-SW10-98A

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
108-88-3	Toluene	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
1330-20-7	Xylenes (total)	5.0	U

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR41-TC-SW10-98A

TOTAL Metals

Lot-Sample #...: H8B120170-007 Matrix.....: WATER
Date Sampled...: 02/11/98 Date Received..: 02/12/98

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8055103						
Mercury	**0.097 B**	**0.20**	**ug/L**	**ICLP ILM03.0**	**02/24-02/25/98**	**CFC1D10Q**
		Dilution Factor: 1				
		Analysis Time..: 10:39				
Prep Batch #...: 8055175						
Aluminum	**539**	**200**	**ug/L**	**ICLP ILM03.0**	**02/25-02/27/98**	**CFC1D101**
		Dilution Factor: 1				
		Analysis Time..: 19:06				
Arsenic	ND	10.0	ug/L	ICLP ILM03.0	02/25-02/28/98	CFC1D10L
		Dilution Factor: 1				
		Analysis Time..: 21:50				
Lead	ND	3.0	ug/L	ICLP ILM03.0	02/25-02/28/98	CFC1D10M
		Dilution Factor: 1				
		Analysis Time..: 21:50				
Antimony	ND	60.0	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC1D102
		Dilution Factor: 1				
		Analysis Time..: 19:06				
Barium	**30.2 B**	**200**	**ug/L**	**ICLP ILM03.0**	**02/25-02/27/98**	**CFC1D10**
		Dilution Factor: 1				
		Analysis Time..: 19:06				
Selenium	ND	5.0	ug/L	ICLP ILM03.0	02/25-02/28/98	CFC1D10
		Dilution Factor: 1				
		Analysis Time..: 21:50				
Beryllium	ND	5.0	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC1D10
		Dilution Factor: 1				
		Analysis Time..: 19:06				
Thallium	ND	10.0	ug/L	ICLP ILM03.0	02/25-02/28/98	CFC1D10
		Dilution Factor: 1				
		Analysis Time..: 21:50				
Cadmium	ND	5.0	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC1D10
		Dilution Factor: 1				
		Analysis Time..: 19:06				
Calcium	**17400**	**5000**	**ug/L**	**ICLP ILM03.0**	**02/25-02/27/98**	**CFC1D10**
		Dilution Factor: 1				
		Analysis Time..: 19:06				

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR41-TC-SW10-98A

TOTAL Metals

Lot-Sample #...: H8B120170-007 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Chromium	ND	10.0	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC1D107
		Dilution Factor: 1				
		Analysis Time..: 19:06				
Cobalt	ND	50.0	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC1D108
		Dilution Factor: 1				
		Analysis Time..: 19:06				
Copper	**6.9 B**	**25.0**	**ug/L**	**ICLP ILM03.0**	**02/25-02/27/98**	**CFC1D109**
		Dilution Factor: 1				
		Analysis Time..: 19:06				
Iron	**1070**	**100**	**ug/L**	**ICLP ILM03.0**	**02/25-02/27/98**	**CFC1D10A**
		Dilution Factor: 1				
		Analysis Time..: 19:06				
Magnesium	**1660 B**	**5000**	**ug/L**	**ICLP ILM03.0**	**02/25-02/27/98**	**CFC1D10C**
		Dilution Factor: 1				
		Analysis Time..: 19:06				
Manganese	**34.4**	**15.0**	**ug/L**	**ICLP ILM03.0**	**02/25-02/27/98**	**CFC1D10D**
		Dilution Factor: 1				
		Analysis Time..: 19:06				
Nickel	ND	40.0	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC1D10E
		Dilution Factor: 1				
		Analysis Time..: 19:06				
Potassium	**964 B**	**5000**	**ug/L**	**ICLP ILM03.0**	**02/25-02/27/98**	**CFC1D10F**
		Dilution Factor: 1				
		Analysis Time..: 19:06				
Silver	ND	10.0	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC1D10G
		Dilution Factor: 1				
		Analysis Time..: 19:06				
Sodium	**11700**	**5000**	**ug/L**	**ICLP ILM03.0**	**02/25-02/27/98**	**CFC1D10H**
		Dilution Factor: 1				
		Analysis Time..: 19:06				
Vanadium	**23.0 B**	**50.0**	**ug/L**	**ICLP ILM03.0**	**02/25-02/27/98**	**CFC1D10J**
		Dilution Factor: 1				
		Analysis Time..: 19:06				

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BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR41-TC-SW10-98A

TOTAL Metals

Lot-Sample #...: H8B120170-007 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Zinc	49.1	20.0	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC1D10K

Dilution Factor: 1
Analysis Time..: 19:06

NOTE(S):

B Estimated result. Result is less than RL.

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER
Method: SW846 8260A
Volatile Organics, GC/MS (8260A)

Lab Sample ID:H8B120170 008

Sample WT/Vol: 5 / mL
Work Order: CFC1E10R
Dilution factor: 1
Moisture %:NA

Date Received: 02/12/98
Date Extracted:02/24/98
Date Analyzed: 02/24/98

QC Batch: 8055197

Client Sample Id: IR41-TC-SW11-98A

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	**Methylene chloride**	**1.6**	**J B**
67-64-1	Acetone	20	U
75-15-0	Carbon disulfide	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
67-66-3	Chloroform	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
78-93-3	2-Butanone	20	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
75-27-4	Bromodichloromethane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
79-01-6	Trichloroethene	5.0	U
124-48-1	Dibromochloromethane	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
71-43-2	Benzene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
75-25-2	Bromoform	5.0	U
108-10-1	4-Methyl-2-pentanone	20	U
591-78-6	2-Hexanone	20	U
127-18-4	Tetrachloroethene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER
Method: SW846 8260A
Volatile Organics, GC/MS (8260A)

Lab Sample ID:H8B120170 008

Sample WT/Vol: 5 / mL
Work Order: CFC1E10R
Dilution factor: 1
Moisture %:NA

Date Received: 02/12/98
Date Extracted:02/24/98
Date Analyzed: 02/24/98

QC Batch: 8055197

Client Sample Id: IR41-TC-SW11-98A

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L		Q
108-88-3	Toluene	5.0		U
108-90-7	Chlorobenzene	5.0		U
100-41-4	Ethylbenzene	5.0		U
100-42-5	Styrene	5.0		U
1330-20-7	Xylenes (total)	5.0		U

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR41-TC-SW11-98A

TOTAL Metals

Lot-Sample #...: H8B120170-008 Matrix.....: WATER
Date Sampled...: 02/11/98 Date Received..: 02/12/98

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8055103						
Mercury	ND	0.20	ug/L	ICLP ILM03.0	02/24-02/25/98	CFC1E10(
		Dilution Factor: 1				
		Analysis Time..: 10:42				
Prep Batch #...: 8055175						
Aluminum	**536**	**200**	**ug/L**	**ICLP ILM03.0**	**02/25-02/27/98**	**CFC1E101**
		Dilution Factor: 1				
		Analysis Time..: 19:11				
Arsenic	**3.0 B**	**10.0**	**ug/L**	**ICLP ILM03.0**	**02/25-02/28/98**	**CFC1E10I**
		Dilution Factor: 1				
		Analysis Time..: 21:56				
Lead	ND	3.0	ug/L	ICLP ILM03.0	02/25-02/28/98	CFC1E10M
		Dilution Factor: 1				
		Analysis Time..: 21:56				
Antimony	ND	60.0	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC1E102
		Dilution Factor: 1				
		Analysis Time..: 19:11				
Barium	**29.6 B**	**200**	**ug/L**	**ICLP ILM03.0**	**02/25-02/27/98**	**CFC1E103**
		Dilution Factor: 1				
		Analysis Time..: 19:11				
Selenium	ND	5.0	ug/L	ICLP ILM03.0	02/25-02/28/98	CFC1E10N
		Dilution Factor: 1				
		Analysis Time..: 21:56				
Beryllium	ND	5.0	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC1E104
		Dilution Factor: 1				
		Analysis Time..: 19:11				
Thallium	**3.8 B**	**10.0**	**ug/L**	**ICLP ILM03.0**	**02/25-02/28/98**	**CFC1E10P**
		Dilution Factor: 1				
		Analysis Time..: 21:56				
Cadmium	ND	5.0	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC1E105
		Dilution Factor: 1				
		Analysis Time..: 19:11				
Calcium	**17900**	**5000**	**ug/L**	**ICLP ILM03.0**	**02/25-02/27/98**	**CFC1E106**
		Dilution Factor: 1				
		Analysis Time..: 19:11				

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR41-TC-SW11-98A

TOTAL Metals

Lot-Sample #...: H8B120170-008 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Chromium	ND	10.0	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC1E107
		Dilution Factor: 1				
		Analysis Time..: 19:11				
Cobalt	ND	50.0	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC1E108
		Dilution Factor: 1				
		Analysis Time..: 19:11				
Copper	4.1 B	25.0	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC1E109
		Dilution Factor: 1				
		Analysis Time..: 19:11				
Iron	1030	100	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC1E10A
		Dilution Factor: 1				
		Analysis Time..: 19:11				
Magnesium	1680 B	5000	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC1E10C
		Dilution Factor: 1				
		Analysis Time..: 19:11				
Manganese	29.7	15.0	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC1E10D
		Dilution Factor: 1				
		Analysis Time..: 19:11				
Nickel	ND	40.0	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC1E10E
		Dilution Factor: 1				
		Analysis Time..: 19:11				
Potassium	ND	5000	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC1E10F
		Dilution Factor: 1				
		Analysis Time..: 19:11				
Silver	ND	10.0	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC1E10G
		Dilution Factor: 1				
		Analysis Time..: 19:11				
Sodium	11600	5000	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC1E10H
		Dilution Factor: 1				
		Analysis Time..: 19:11				
Vanadium	23.6 B	50.0	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC1E10J
		Dilution Factor: 1				
		Analysis Time..: 19:11				

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BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR41-TC-SW11-98A

TOTAL Metals

Lot-Sample #...: H8B120170-008 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Zinc	20.0	20.0	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC1E101

Dilution Factor: 1
Analysis Time..: 19:11

NOTE(S):

B Estimated result. Result is less than RL.

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER
Method: SW846 8260A
Volatile Organics, GC/MS (8260A)

Lab Sample ID:H8B120170 009

Sample WT/Vol: 5 / mL
Work Order: CFC1F10R
Dilution factor: 1
Moisture %:NA

Date Received: 02/12/98
Date Extracted:02/24/98
Date Analyzed: 02/24/98

QC Batch: 8055197

Client Sample Id: IR41-TC-SW12-98A

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene chloride	1.5	J B
67-64-1	Acetone	20	U
75-15-0	Carbon disulfide	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
67-66-3	Chloroform	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
78-93-3	2-Butanone	20	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
75-27-4	Bromodichloromethane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
79-01-6	Trichloroethene	5.0	U
124-48-1	Dibromochloromethane	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
71-43-2	Benzene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
75-25-2	Bromoform	5.0	U
108-10-1	4-Methyl-2-pentanone	20	U
591-78-6	2-Hexanone	20	U
127-18-4	Tetrachloroethene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER
Method: SW846 8260A
Volatile Organics, GC/MS (8260A)

Lab Sample ID:H8B120170 009

Sample WT/Vol: 5 / mL
Work Order: CFC1F10R
Dilution factor: 1
Moisture %:NA

Date Received: 02/12/98
Date Extracted:02/24/98
Date Analyzed: 02/24/98

QC Batch: 8055197

Client Sample Id: IR41-TC-SW12-98A

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
108-88-3	Toluene	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
1330-20-7	Xylenes (total)	5.0	U

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR41-TC-SW12-98A

TOTAL Metals

Lot-Sample #...: H8B120170-009 Matrix.....: WATER
Date Sampled...: 02/11/98 Date Received..: 02/12/98

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8055103						
Mercury	ND	0.20 Dilution Factor: 1 Analysis Time..: 10:44	ug/L	ICLP ILM03.0	02/24-02/25/98	CFC1F10Q
Prep Batch #...: 8055175						
Aluminum	**450**	**200** Dilution Factor: 1 Analysis Time..: 19:16	**ug/L**	**ICLP ILM03.0**	**02/25-02/27/98**	**CFC1F101**
Arsenic	ND	10.0 Dilution Factor: 1 Analysis Time..: 22:03	ug/L	ICLP ILM03.0	02/25-02/28/98	CFC1F10L
Lead	**1.2 B**	**3.0** Dilution Factor: 1 Analysis Time..: 22:03	**ug/L**	**ICLP ILM03.0**	**02/25-02/28/98**	**CFC1F10M**
Antimony	ND	60.0 Dilution Factor: 1 Analysis Time..: 19:16	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC1F102
Barium	**29.8 B**	**200** Dilution Factor: 1 Analysis Time..: 19:16	**ug/L**	**ICLP ILM03.0**	**02/25-02/27/98**	**CFC1F103**
Selenium	ND	5.0 Dilution Factor: 1 Analysis Time..: 22:03	ug/L	ICLP ILM03.0	02/25-02/28/98	CFC1F10N
Beryllium	ND	5.0 Dilution Factor: 1 Analysis Time..: 19:16	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC1F104
Thallium	ND	10.0 Dilution Factor: 1 Analysis Time..: 22:03	ug/L	ICLP ILM03.0	02/25-02/28/98	CFC1F10P
Cadmium	ND	5.0 Dilution Factor: 1 Analysis Time..: 19:16	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC1F105
Calcium	**17400**	**5000** Dilution Factor: 1 Analysis Time..: 19:16	**ug/L**	**ICLP ILM03.0**	**02/25-02/27/98**	**CFC1F106**

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR41-TC-SW12-98A

TOTAL Metals

Lot-Sample #...: H8B120170-009 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Chromium	ND	10.0	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC1F10
		Dilution Factor: 1				
		Analysis Time..: 19:16				
Cobalt	ND	50.0	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC1F10
		Dilution Factor: 1				
		Analysis Time..: 19:16				
Copper	4.9 B	25.0	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC1F10
		Dilution Factor: 1				
		Analysis Time..: 19:16				
Iron	969	100	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC1F10
		Dilution Factor: 1				
		Analysis Time..: 19:16				
Magnesium	1650 B	5000	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC1F10
		Dilution Factor: 1				
		Analysis Time..: 19:16				
Manganese	30.4	15.0	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC1F10
		Dilution Factor: 1				
		Analysis Time..: 19:16				
Nickel	ND	40.0	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC1F10
		Dilution Factor: 1				
		Analysis Time..: 19:16				
Potassium	1010 B	5000	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC1F10
		Dilution Factor: 1				
		Analysis Time..: 19:16				
Silver	ND	10.0	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC1F10
		Dilution Factor: 1				
		Analysis Time..: 19:16				
Sodium	11600	5000	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC1F10
		Dilution Factor: 1				
		Analysis Time..: 19:16				
Vanadium	17.3 B	50.0	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC1F10
		Dilution Factor: 1				
		Analysis Time..: 19:16				

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BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR41-TC-SW12-98A

TOTAL Metals

Lot-Sample #...: H8B120170-009 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Zinc	39.7	20.0	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC1F10K

Dilution Factor: 1
Analysis Time..: 19:16

NOTE(S):

B Estimated result. Result is less than RL.

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID
Method: SW846 8260A
Volatile Organics, GC/MS (8260A)

Lab Sample ID:H8B110165 006

Sample WT/Vol: 5 / g
Work Order: CFA8G101
Dilution factor: 1
Moisture %:23

Date Received: 02/11/98
Date Extracted:02/19/98
Date Analyzed: 02/19/98

QC Batch: 8050195

Client Sample Id: IR41-UT-SD01-98A

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
74-87-3	Chloromethane	13	U
74-83-9	Bromomethane	13	U
75-01-4	Vinyl chloride	13	U
75-00-3	Chloroethane	13	U
75-09-2	**Methylene chloride**	**4.5**	**J**
67-64-1	Acetone	26	U
75-15-0	Carbon disulfide	6.5	U
75-35-4	1,1-Dichloroethene	6.5	U
75-34-3	1,1-Dichloroethane	6.5	U
540-59-0	1,2-Dichloroethene (total)	6.5	U
67-66-3	Chloroform	6.5	U
107-06-2	1,2-Dichloroethane	6.5	U
78-93-3	2-Butanone	26	U
71-55-6	1,1,1-Trichloroethane	6.5	U
56-23-5	Carbon tetrachloride	6.5	U
75-27-4	Bromodichloromethane	6.5	U
78-87-5	1,2-Dichloropropane	6.5	U
10061-01-5	cis-1,3-Dichloropropene	6.5	U
79-01-6	Trichloroethene	6.5	U
124-48-1	Dibromochloromethane	6.5	U
79-00-5	1,1,2-Trichloroethane	6.5	U
71-43-2	Benzene	6.5	U
10061-02-6	trans-1,3-Dichloropropene	6.5	U
75-25-2	Bromoform	6.5	U
108-10-1	4-Methyl-2-pentanone	26	U
591-78-6	2-Hexanone	26	U
127-18-4	Tetrachloroethene	6.5	U
79-34-5	1,1,2,2-Tetrachloroethane	6.5	U

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID
Method: SW846 8260A
Volatile Organics, GC/MS (8260A)

Lab Sample ID:H8B110165 006

Sample WT/Vol: 5 / g
Work Order: CFA8G101
Dilution factor: 1
Moisture %:23

Date Received: 02/11/98
Date Extracted:02/19/98
Date Analyzed: 02/19/98

QC Batch: 8050195

Client Sample Id: IR41-UT-SD01-98A

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
108-88-3	Toluene	6.5	U
108-90-7	Chlorobenzene	6.5	U
100-41-4	Ethylbenzene	6.5	U
100-42-5	Styrene	6.5	U
1330-20-7	Xylenes (total)	6.5	U

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR41-UT-SD01-98A

TOTAL Metals

Lot-Sample #...: H8B110165-006 Matrix.....: SOLID
Date Sampled...: 02/10/98 Date Received..: 02/11/98
% Moisture.....: 23

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8057103						
Aluminum	3780	51.9 Dilution Factor: 1	mg/kg	ICLP ILM03.0	02/26-03/02/98	CFA8G1(
Arsenic	ND	2.6 Dilution Factor: 1	mg/kg	ICLP ILM03.0	02/26-03/04/98	CFA8G10
Lead	9.5	0.78 Dilution Factor: 1	mg/kg	ICLP ILM03.0	02/26-03/04/98	CFA8G10
Antimony	ND	15.6 Dilution Factor: 1	mg/kg	ICLP ILM03.0	02/26-03/02/98	CFA8G10
Barium	11.5 B	51.9 Dilution Factor: 1	mg/kg	ICLP ILM03.0	02/26-03/02/98	CFA8G10
Selenium	ND	1.3 Dilution Factor: 1	mg/kg	ICLP ILM03.0	02/26-03/04/98	CFA8G10
Beryllium	ND	1.3 Dilution Factor: 1	mg/kg	ICLP ILM03.0	02/26-03/02/98	CFA8G10
Thallium	ND	2.6 Dilution Factor: 1	mg/kg	ICLP ILM03.0	02/26-03/04/98	CFA8G10
Cadmium	ND	1.3 Dilution Factor: 1	mg/kg	ICLP ILM03.0	02/26-03/02/98	CFA8G10
Calcium	36500	1300 Dilution Factor: 1	mg/kg	ICLP ILM03.0	02/26-03/02/98	CFA8G10(
Chromium	7.3	2.6 Dilution Factor: 1	mg/kg	ICLP ILM03.0	02/26-03/02/98	CFA8G10I
Cobalt	ND	13.0 Dilution Factor: 1	mg/kg	ICLP ILM03.0	02/26-03/02/98	CFA8G10E
Copper	1.8 B	6.5 Dilution Factor: 1	mg/kg	ICLP ILM03.0	02/26-03/02/98	CFA8G10F
Iron	1960	26.0 Dilution Factor: 1	mg/kg	ICLP ILM03.0	02/26-03/02/98	CFA8G10G

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BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR41-UT-SD01-98A

TOTAL Metals

Lot-Sample #...: H8B110165-006 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Magnesium	**600 B**	**1300**	**mg/kg**	**ICLP ILM03.0**	**02/26-03/02/98**	**CFA8G10H**
		Dilution Factor: 1				
Manganese	**10.3**	**3.9**	**mg/kg**	**ICLP ILM03.0**	**02/26-03/02/98**	**CFA8G10J**
		Dilution Factor: 1				
Nickel	ND	10.4	mg/kg	ICLP ILM03.0	02/26-03/02/98	CFA8G10K
		Dilution Factor: 1				
Potassium	ND	1300	mg/kg	ICLP ILM03.0	02/26-03/02/98	CFA8G10L
		Dilution Factor: 1				
Silver	ND	2.6	mg/kg	ICLP ILM03.0	02/26-03/02/98	CFA8G10M
		Dilution Factor: 1				
Sodium	**128 B**	**1300**	**mg/kg**	**ICLP ILM03.0**	**02/26-03/02/98**	**CFA8G10N**
		Dilution Factor: 1				
Vanadium	**13.7**	**13.0**	**mg/kg**	**ICLP ILM03.0**	**02/26-03/02/98**	**CFA8G10P**
		Dilution Factor: 1				
Zinc	**16.2**	**5.2**	**mg/kg**	**ICLP ILM03.0**	**02/26-03/02/98**	**CFA8G10Q**
		Dilution Factor: 1				
Prep Batch #...: 8057157						
Mercury	ND	0.13	mg/kg	ICLP ILM03.0	02/26-02/27/98	CFA8G10R
		Dilution Factor: 1				

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR41-UT-SD01-98A

General Chemistry

Lot-Sample #...: H8B110165-006 **Work Order #...:** CFA8G **Matrix.....:** SOLID
Date Sampled...: 02/10/98 08:15 **Date Received..:** 02/11/98
% Moisture.....: 23

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**23.0**	**0.10**	**%**	**MCAWW 160.3 MOD**	**02/14-02/16/98**	**8047208**

Dilution Factor: 1

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID
Method: SW846 8260A
Volatile Organics, GC/MS (8260A)

Lab Sample ID:H8B120170 010

Sample WT/Vol: 5 / g
Work Order: CFC1G101
Dilution factor: 1
Moisture %:19

Date Received: 02/12/98
Date Extracted:02/25/98
Date Analyzed: 02/25/98

QC Batch: 8056106

Client Sample Id: IR41-UT-SD02-98A

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene chloride	6.2	U
67-64-1	Acetone	25	U
75-15-0	Carbon disulfide	6.2	U
75-35-4	1,1-Dichloroethene	6.2	U
75-34-3	1,1-Dichloroethane	6.2	U
540-59-0	1,2-Dichloroethene (total)	6.2	U
67-66-3	Chloroform	6.2	U
107-06-2	1,2-Dichloroethane	6.2	U
78-93-3	2-Butanone	25	U
71-55-6	1,1,1-Trichloroethane	6.2	U
56-23-5	Carbon tetrachloride	6.2	U
75-27-4	Bromodichloromethane	6.2	U
78-87-5	1,2-Dichloropropane	6.2	U
10061-01-5	cis-1,3-Dichloropropene	6.2	U
79-01-6	Trichloroethene	6.2	U
124-48-1	Dibromochloromethane	6.2	U
79-00-5	1,1,2-Trichloroethane	6.2	U
71-43-2	Benzene	6.2	U
10061-02-6	trans-1,3-Dichloropropene	6.2	U
75-25-2	Bromoform	6.2	U
108-10-1	4-Methyl-2-pentanone	25	U
591-78-6	2-Hexanone	25	U
127-18-4	Tetrachloroethene	6.2	U
79-34-5	1,1,2,2-Tetrachloroethane	6.2	U

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID
Method: SW846 8260A
Volatile Organics, GC/MS (8260A)

Lab Sample ID:H8B120170 010

Sample WT/Vol: 5 / g
Work Order: CFC1G101
Dilution factor: 1
Moisture %:19

Date Received: 02/12/98
Date Extracted:02/25/98
Date Analyzed: 02/25/98

QC Batch: 8056106

Client Sample Id: IR41-UT-SD02-98A

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
108-88-3	Toluene	6.2	U
108-90-7	Chlorobenzene	6.2	U
100-41-4	Ethylbenzene	6.2	U
100-42-5	Styrene	6.2	U
1330-20-7	Xylenes (total)	6.2	U

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR41-UT-SD02-98A

TOTAL Metals

Lot-Sample #...: H8B120170-010 Matrix.....: SOLID
Date Sampled...: 02/11/98 Date Received..: 02/12/98
% Moisture.....: 19

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8057103						
Aluminum	**341**	**49.6**	**mg/kg**	**ICLP ILM03.0**	**02/26-03/02/98**	**CFC1G106**
		Dilution Factor: 1				
		Analysis Time..: 18:26				
Arsenic	ND	2.5	mg/kg	ICLP ILM03.0	02/26-03/04/98	CFC1G102
		Dilution Factor: 1				
		Analysis Time..: 16:27				
Lead	**0.54 B**	**0.74**	**mg/kg**	**ICLP ILM03.0**	**02/26-03/04/98**	**CFC1G103**
		Dilution Factor: 1				
		Analysis Time..: 16:27				
Antimony	ND	14.9	mg/kg	ICLP ILM03.0	02/26-03/02/98	CFC1G107
		Dilution Factor: 1				
		Analysis Time..: 18:26				
Barium	**1.6 B**	**49.6**	**mg/kg**	**ICLP ILM03.0**	**02/26-03/02/98**	**CFC1G108**
		Dilution Factor: 1				
		Analysis Time..: 18:26				
Selenium	ND	1.2	mg/kg	ICLP ILM03.0	02/26-03/04/98	CFC1G104
		Dilution Factor: 1				
		Analysis Time..: 16:27				
Beryllium	ND	1.2	mg/kg	ICLP ILM03.0	02/26-03/02/98	CFC1G109
		Dilution Factor: 1				
		Analysis Time..: 18:26				
Thallium	ND	2.5	mg/kg	ICLP ILM03.0	02/26-03/04/98	CFC1G105
		Dilution Factor: 1				
		Analysis Time..: 16:27				
Cadmium	ND	1.2	mg/kg	ICLP ILM03.0	02/26-03/02/98	CFC1G10A
		Dilution Factor: 1				
		Analysis Time..: 18:26				
Calcium	**177 B**	**1240**	**mg/kg**	**ICLP ILM03.0**	**02/26-03/02/98**	**CFC1G10C**
		Dilution Factor: 1				
		Analysis Time..: 18:26				
Chromium	**1.7 B**	**2.5**	**mg/kg**	**ICLP ILM03.0**	**02/26-03/02/98**	**CFC1G10D**
		Dilution Factor: 1				
		Analysis Time..: 18:26				

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BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR41-UT-SD02-98A

TOTAL Metals

Lot-Sample #...: H8B120170-010 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cobalt	ND	12.4	mg/kg	ICLP ILM03.0	02/26-03/02/98	CFC1G101
		Dilution Factor: 1				
		Analysis Time..: 18:26				
Copper	1.0 B	6.2	mg/kg	ICLP ILM03.0	02/26-03/02/98	CFC1G101
		Dilution Factor: 1				
		Analysis Time..: 18:26				
Iron	447	24.8	mg/kg	ICLP ILM03.0	02/26-03/02/98	CFC1G10(
		Dilution Factor: 1				
		Analysis Time..: 18:26				
Magnesium	22.4 B	1240	mg/kg	ICLP ILM03.0	02/26-03/02/98	CFC1G10I
		Dilution Factor: 1				
		Analysis Time..: 18:26				
Manganese	0.64 B	3.7	mg/kg	ICLP ILM03.0	02/26-03/02/98	CFC1[illegible]0J
		Dilution Factor: 1				
		Analysis Time..: 18:26				
Nickel	ND	9.9	mg/kg	ICLP ILM03.0	02/26-03/02/98	CFC1G10K
		Dilution Factor: 1				
		Analysis Time..: 18:26				
Potassium	ND	1240	mg/kg	ICLP ILM03.0	02/26-03/02/98	CFC1G10L
		Dilution Factor: 1				
		Analysis Time..: 18:26				
Silver	ND	2.5	mg/kg	ICLP ILM03.0	02/26-03/02/98	CFC1G10M
		Dilution Factor: 1				
		Analysis Time..: 18:26				
Sodium	40.1 B	1240	mg/kg	ICLP ILM03.0	02/26-03/02/98	CFC1G10N
		Dilution Factor: 1				
		Analysis Time..: 18:26				
Vanadium	3.6 B	12.4	mg/kg	ICLP ILM03.0	02/26-03/02/98	CFC1G10P
		Dilution Factor: 1				
		Analysis Time..: 18:26				
Zinc	6.1	5.0	mg/kg	ICLP ILM03.0	02/26-03/02/98	CFC1G10Q
		Dilution Factor: 1				
		Analysis Time..: 18:26				

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BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR41-UT-SD02-98A

TOTAL Metals

Lot-Sample #...: H8B120170-010 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8057157						
Mercury	0.035 B	0.12	mg/kg	ICLP ILM03.0	02/26-02/27/98	CFC1G10R
		Dilution Factor: 1				
		Analysis Time..: 09:40				

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR41-UT-SD02-98A

General Chemistry

Lot-Sample #...: H8B120170-010 **Work Order #...:** CFC1G **Matrix.....:** SOLID
Date Sampled...: 02/11/98 09:05 **Date Received..:** 02/12/98
% Moisture.....: 19

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	19.3	0.10	%	MCAWW 160.3 MOD	02/14-02/16/98	8047211

Dilution Factor: 1

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID
Method: SW846 8260A
Volatile Organics, GC/MS (8260A)

Lab Sample ID:H8B120170 011

Sample WT/Vol: 5 / g
Work Order: CFC1H101
Dilution factor: 1
Moisture %:18

Date Received: 02/12/98
Date Extracted:02/25/98
Date Analyzed: 02/25/98

QC Batch: 8056106

Client Sample Id: IR41-UT-SD03-98A

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene chloride	6.1	U
67-64-1	Acetone	24	U
75-15-0	Carbon disulfide	6.1	U
75-35-4	1,1-Dichloroethene	6.1	U
75-34-3	1,1-Dichloroethane	6.1	U
540-59-0	1,2-Dichloroethene (total)	6.1	U
67-66-3	Chloroform	6.1	U
107-06-2	1,2-Dichloroethane	6.1	U
78-93-3	2-Butanone	24	U
71-55-6	1,1,1-Trichloroethane	6.1	U
56-23-5	Carbon tetrachloride	6.1	U
75-27-4	Bromodichloromethane	6.1	U
78-87-5	1,2-Dichloropropane	6.1	U
10061-01-5	cis-1,3-Dichloropropene	6.1	U
79-01-6	Trichloroethene	6.1	U
124-48-1	Dibromochloromethane	6.1	U
79-00-5	1,1,2-Trichloroethane	6.1	U
71-43-2	Benzene	6.1	U
10061-02-6	trans-1,3-Dichloropropene	6.1	U
75-25-2	Bromoform	6.1	U
108-10-1	4-Methyl-2-pentanone	24	U
591-78-6	2-Hexanone	24	U
127-18-4	Tetrachloroethene	6.1	U
79-34-5	1,1,2,2-Tetrachloroethane	6.1	U

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) SOLID
Method: SW846 8260A
Volatile Organics, GC/MS (8260A)

Lab Sample ID:H8B120170 011

Sample WT/Vol: 5 / g
Work Order: CFC1H101
Dilution factor: 1
Moisture %:18

Date Received: 02/12/98
Date Extracted:02/25/98
Date Analyzed: 02/25/98

QC Batch: 8056106

Client Sample Id: IR41-UT-SD03-98A

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/kg	Q
108-88-3	Toluene	6.1	U
108-90-7	Chlorobenzene	6.1	U
100-41-4	Ethylbenzene	6.1	U
100-42-5	Styrene	6.1	U
1330-20-7	Xylenes (total)	6.1	U

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR41-UT-SD03-98A

TOTAL Metals

Lot-Sample #...: H8B120170-011 Matrix.....: SOLID
Date Sampled...: 02/11/98 Date Received..: 02/12/98
% Moisture.....: 18

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8057103						
Aluminum	275	48.5 Dilution Factor: 1 Analysis Time..: 18:31	mg/kg	ICLP ILM03.0	02/26-03/02/98	CFC1H106
Arsenic	ND	2.4 Dilution Factor: 1 Analysis Time..: 16:34	mg/kg	ICLP ILM03.0	02/26-03/04/98	CFC1H102
Lead	0.53 B	0.73 Dilution Factor: 1 Analysis Time..: 16:34	mg/kg	ICLP ILM03.0	02/26-03/04/98	CFC1H103
Antimony	ND	14.6 Dilution Factor: 1 Analysis Time..: 18:31	mg/kg	ICLP ILM03.0	02/26-03/02/98	CFC1H107
Barium	1.4 B	48.5 Dilution Factor: 1 Analysis Time..: 18:31	mg/kg	ICLP ILM03.0	02/26-03/02/98	CFC1H108
Selenium	ND	1.2 Dilution Factor: 1 Analysis Time..: 16:34	mg/kg	ICLP ILM03.0	02/26-03/04/98	CFC1H104
Beryllium	ND	1.2 Dilution Factor: 1 Analysis Time..: 18:31	mg/kg	ICLP ILM03.0	02/26-03/02/98	CFC1H109
Thallium	ND	2.4 Dilution Factor: 1 Analysis Time..: 16:34	mg/kg	ICLP ILM03.0	02/26-03/04/98	CFC1H105
Cadmium	ND	1.2 Dilution Factor: 1 Analysis Time..: 18:31	mg/kg	ICLP ILM03.0	02/26-03/02/98	CFC1H10A
Calcium	135 B	1210 Dilution Factor: 1 Analysis Time..: 18:31	mg/kg	ICLP ILM03.0	02/26-03/02/98	CFC1H10C
Chromium	1.0 B	2.4 Dilution Factor: 1 Analysis Time..: 18:31	mg/kg	ICLP ILM03.0	02/26-03/02/98	CFC1H10I

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BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR41-UT-SD03-98A

TOTAL Metals

Lot-Sample #...: H8B120170-011 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cobalt	ND	12.1	mg/kg	ICLP ILM03.0	02/26-03/02/98	CFC1H101
		Dilution Factor: 1				
		Analysis Time..: 18:31				
Copper	0.95 B	6.1	mg/kg	ICLP ILM03.0	02/26-03/02/98	CFC1H101
		Dilution Factor: 1				
		Analysis Time..: 18:31				
Magnesium	16.1 B	1210	mg/kg	ICLP ILM03.0	02/26-03/02/98	CFC1H10I
		Dilution Factor: 1				
		Analysis Time..: 18:31				
Manganese	0.71 B	3.6	mg/kg	ICLP ILM03.0	02/26-03/02/98	CFC1H10J
		Dilution Factor: 1				
		Analysis Time..: 18:31				
Nickel	ND	9.7	mg/kg	ICLP ILM03.0	02/26-03/02/98	CFC1H10K
		Dilution Factor: 1				
		Analysis Time..: 18:31				
Potassium	ND	1210	mg/kg	ICLP ILM03.0	02/26-03/02/98	CFC1H10L
		Dilution Factor: 1				
		Analysis Time..: 18:31				
Silver	ND	2.4	mg/kg	ICLP ILM03.0	02/26-03/02/98	CFC1H10M
		Dilution Factor: 1				
		Analysis Time..: 18:31				
Sodium	15.4 B	1210	mg/kg	ICLP ILM03.0	02/26-03/02/98	CFC1H10N
		Dilution Factor: 1				
		Analysis Time..: 18:31				
Vanadium	3.4 B	12.1	mg/kg	ICLP ILM03.0	02/26-03/02/98	CFC1H10P
		Dilution Factor: 1				
		Analysis Time..: 18:31				
Zinc	6.4	4.9	mg/kg	ICLP ILM03.0	02/26-03/02/98	CFC1H10Q
		Dilution Factor: 1				
		Analysis Time..: 18:31				
Prep Batch #...: 8057157						
Mercury	0.025 B	0.12	mg/kg	ICLP ILM03.0	02/26-02/27/98	CFC1H10R
		Dilution Factor: 1				
		Analysis Time..: 09:42				

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BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR41-UT-SD03-98A

TOTAL Metals

Lot-Sample #...: H8B120170-011 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8068107						
Iron	206	24.3	mg/kg	ICLP ILM03.0	03/09/98	CFC1H20G
		Dilution Factor: 1				
		Analysis Time..: 17:58				

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR41-UT-SD03-98A

General Chemistry

Lot-Sample #...: H8B120170-011 Work Order #...: CFC1H Matrix.....: SOLID
Date Sampled...: 02/11/98 08:45 Date Received..: 02/12/98
% Moisture.....: 18

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	17.6	0.10	%	MCAWW 160.3 MOD	02/14-02/16/98	8047211

Dilution Factor: 1

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER
Method: SW846 8260A
Volatile Organics, GC/MS (8260A)

Lab Sample ID:H8B110165 003

Sample WT/Vol: 5 / mL
Work Order: CFA8810R
Dilution factor: 1
Moisture %:NA

Date Received: 02/11/98
Date Extracted:02/18/98
Date Analyzed: 02/18/98

QC Batch: 8049200

Client Sample Id: IR41-UT-SW01-98A

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	**Methylene chloride**	**1.4**	**J B**
67-64-1	Acetone	20	U
75-15-0	Carbon disulfide	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
67-66-3	Chloroform	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
78-93-3	2-Butanone	20	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
75-27-4	Bromodichloromethane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
79-01-6	Trichloroethene	5.0	U
124-48-1	Dibromochloromethane	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
71-43-2	Benzene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
75-25-2	Bromoform	5.0	U
108-10-1	4-Methyl-2-pentanone	20	U
591-78-6	2-Hexanone	20	U
127-18-4	Tetrachloroethene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER
Method: SW846 8260A
Volatile Organics, GC/MS (8260A)

Lab Sample ID:H8B110165 003

Sample WT/Vol: 5 / mL
Work Order: CFA8810R
Dilution factor: 1
Moisture %:NA

Date Received: 02/11/98
Date Extracted:02/18/98
Date Analyzed: 02/18/98

QC Batch: 8049200

Client Sample Id: IR41-UT-SW01-98A

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
108-88-3	Toluene	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
1330-20-7	Xylenes (total)	5.0	U

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR41-UT-SW01-98A

TOTAL Metals

Lot-Sample #...: H8B110165-003 **Matrix.....:** WATER
Date Sampled...: 02/10/98 **Date Received..:** 02/11/98

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8055103						
Mercury	ND	0.20 Dilution Factor: 1	ug/L	ICLP ILM03.0	02/24-02/25/98	CFA8810Q
Prep Batch #...: 8055175						
Aluminum	**279**	**200** Dilution Factor: 1	**ug/L**	**ICLP ILM03.0**	**02/25-02/27/98**	**CFA8810I**
Arsenic	ND	10.0 Dilution Factor: 1	ug/L	ICLP ILM03.0	02/25-02/28/98	CFA8810I
Lead	ND	3.0 Dilution Factor: 1	ug/L	ICLP ILM03.0	02/25-02/28/98	CFA8810N
Antimony	ND	60.0 Dilution Factor: 1	ug/L	ICLP ILM03.0	02/25-02/27/98	CFA8810Z
Barium	**24.8 B**	**200** Dilution Factor: 1	**ug/L**	**ICLP ILM03.0**	**02/25-02/27/98**	**CFA8810**
Selenium	ND	5.0 Dilution Factor: 1	ug/L	ICLP ILM03.0	02/25-02/28/98	CFA8810I
Beryllium	ND	5.0 Dilution Factor: 1	ug/L	ICLP ILM03.0	02/25-02/27/98	CFA8810
Thallium	ND	10.0 Dilution Factor: 1	ug/L	ICLP ILM03.0	02/25-02/28/98	CFA8810
Cadmium	ND	5.0 Dilution Factor: 1	ug/L	ICLP ILM03.0	02/25-02/27/98	CFA8810
Calcium	**37900**	**5000** Dilution Factor: 1	**ug/L**	**ICLP ILM03.0**	**02/25-02/27/98**	**CFA8810**
Chromium	**3.9 B**	**10.0** Dilution Factor: 1	**ug/L**	**ICLP ILM03.0**	**02/25-02/27/98**	**CFA8810**
Cobalt	ND	50.0 Dilution Factor: 1	ug/L	ICLP ILM03.0	02/25-02/27/98	CFA8810
Copper	**4.7 B**	**25.0** Dilution Factor: 1	**ug/L**	**ICLP ILM03.0**	**02/25-02/27/98**	**CFA8810**

(Continued on next page)

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR41-UT-SW01-98A

TOTAL Metals

Lot-Sample #...: H8B110165-003 Matrix.....: WATE

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	564	100 Dilution Factor: 1	ug/L	ICLP ILM03.0	02/25-02/27/98	CFA881(
Magnesium	1800 B	5000 Dilution Factor: 1	ug/L	ICLP ILM03.0	02/25-02/27/98	CFA881(
Manganese	16.0	15.0 Dilution Factor: 1	ug/L	ICLP ILM03.0	02/25-02/27/98	CFA881(
Nickel	ND	40.0 Dilution Factor: 1	ug/L	ICLP ILM03.0	02/25-02/27/98	CFA881(
Potassium	1070 B	5000 Dilution Factor: 1	ug/L	ICLP ILM03.0	02/25-02/27/98	CFA8810
Silver	ND	10.0 Dilution Factor: 1	ug/L	ICLP ILM03.0	02/25-02/27/98	CFA8810
Sodium	16200	5000 Dilution Factor: 1	ug/L	ICLP ILM03.0	02/25-02/27/98	CFA8810
Vanadium	27.2 B	50.0 Dilution Factor: 1	ug/L	ICLP ILM03.0	02/25-02/27/98	CFA8810
Zinc	26.4	20.0 Dilution Factor: 1	ug/L	ICLP ILM03.0	02/25-02/27/98	CFA8810

NOTE(S):

B Estimated result. Result is less than RL.

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER
Method: SW846 8260A
Volatile Organics, GC/MS (8260A)

Lab Sample ID:H8B120170 005

Sample WT/Vol: 5 / mL
Work Order: CFC1A10R
Dilution factor: 1
Moisture %:NA

Date Received: 02/12/98
Date Extracted:02/24/98
Date Analyzed: 02/24/98

QC Batch: 8055197

Client Sample Id: IR41-UT-SW02-98A

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	**Methylene chloride**	1.7	J B
67-64-1	Acetone	20	U
75-15-0	Carbon disulfide	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
67-66-3	Chloroform	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
78-93-3	2-Butanone	20	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
75-27-4	Bromodichloromethane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
79-01-6	Trichloroethene	5.0	U
124-48-1	Dibromochloromethane	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
71-43-2	Benzene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
75-25-2	Bromoform	5.0	U
108-10-1	4-Methyl-2-pentanone	20	U
591-78-6	2-Hexanone	20	U
127-18-4	Tetrachloroethene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER
Method: SW846 8260A
Volatile Organics, GC/MS (8260A)

Lab Sample ID:H8B120170 005

Sample WT/Vol: 5 / mL
Work Order: CFC1A10R
Dilution factor: 1
Moisture %:NA

Date Received: 02/12/98
Date Extracted:02/24/98
Date Analyzed: 02/24/98

QC Batch: 8055197

Client Sample Id: IR41-UT-SW02-98A

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
108-88-3	Toluene	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
1330-20-7	Xylenes (total)	5.0	U

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR41-UT-SW02-98A

TOTAL Metals

Lot-Sample #...: H8B120170-005 **Matrix.....:** WATER
Date Sampled...: 02/11/98 **Date Received..:** 02/12/98

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8055103						
Mercury	ND	0.20 Dilution Factor: 1 Analysis Time..: 10:30	ug/L	ICLP ILM03.0	02/24-02/25/98	CFC1A10Q
Prep Batch #...: 8055175						
Aluminum	**244**	**200** Dilution Factor: 1 Analysis Time..: 18:45	**ug/L**	**ICLP ILM03.0**	**02/25-02/27/98**	**CFC1A101**
Arsenic	ND	10.0 Dilution Factor: 1 Analysis Time..: 21:04	ug/L	ICLP ILM03.0	02/25-02/28/98	CFC1A10L
Lead	ND	3.0 Dilution Factor: 1 Analysis Time..: 21:04	ug/L	ICLP ILM03.0	02/25-02/28/98	CFC1A10M
Antimony	ND	60.0 Dilution Factor: 1 Analysis Time..: 18:45	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC1A102
Barium	**23.7 B**	**200** Dilution Factor: 1 Analysis Time..: 18:45	**ug/L**	**ICLP ILM03.0**	**02/25-02/27/98**	**CFC1A103**
Selenium	ND	5.0 Dilution Factor: 1 Analysis Time..: 21:04	ug/L	ICLP ILM03.0	02/25-02/28/98	CFC1A10N
Beryllium	ND	5.0 Dilution Factor: 1 Analysis Time..: 18:45	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC1A104
Thallium	ND	10.0 Dilution Factor: 1 Analysis Time..: 21:04	ug/L	ICLP ILM03.0	02/25-02/28/98	CFC1A10I
Cadmium	ND	5.0 Dilution Factor: 1 Analysis Time..: 18:45	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC1A10
Calcium	**36800**	**5000** Dilution Factor: 1 Analysis Time..: 18:45	**ug/L**	**ICLP ILM03.0**	**02/25-02/27/98**	**CFC1A10**

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR41-UT-SW02-98A

TOTAL Metals

Lot-Sample #...: H8B120170-005 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Chromium	3.4 B	10.0	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC1A107
		Dilution Factor: 1				
		Analysis Time..: 18:45				
Cobalt	ND	50.0	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC1A108
		Dilution Factor: 1				
		Analysis Time..: 18:45				
Copper	10.0 B	25.0	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC1A109
		Dilution Factor: 1				
		Analysis Time..: 18:45				
Iron	731	100	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC1A10A
		Dilution Factor: 1				
		Analysis Time..: 18:45				
Magnesium	2220 B	5000	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC1A10C
		Dilution Factor: 1				
		Analysis Time..: 18:45				
Manganese	28.2	15.0	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC1A10D
		Dilution Factor: 1				
		Analysis Time..: 18:45				
Nickel	ND	40.0	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC1A10E
		Dilution Factor: 1				
		Analysis Time..: 18:45				
Potassium	704 B	5000	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC1A10F
		Dilution Factor: 1				
		Analysis Time..: 18:45				
Silver	ND	10.0	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC1A10G
		Dilution Factor: 1				
		Analysis Time..: 18:45				
Sodium	11400	5000	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC1A10H
		Dilution Factor: 1				
		Analysis Time..: 18:45				
Vanadium	25.8 B	50.0	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC1A10J
		Dilution Factor: 1				
		Analysis Time..: 18:45				

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BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR41-UT-SW02-98A

TOTAL Metals

Lot-Sample #...: H8B120170-005 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Zinc	33.2	20.0	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC1A10K

Dilution Factor: 1
Analysis Time..: 18:45

NOTE(S):

B Estimated result. Result is less than RL.

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER
Method: SW846 8260A
Volatile Organics, GC/MS (8260A)

Lab Sample ID:H8B120170 006

Sample WT/Vol: 5 / mL
Work Order: CFC1C10R
Dilution factor: 1
Moisture %:NA

Date Received: 02/12/98
Date Extracted:02/24/98
Date Analyzed: 02/24/98

QC Batch: 8055197

Client Sample Id: IR41-UT-SW03-98A

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	**Methylene chloride**	**1.8**	**J B**
67-64-1	Acetone	20	U
75-15-0	Carbon disulfide	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
67-66-3	Chloroform	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
78-93-3	2-Butanone	20	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
75-27-4	Bromodichloromethane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
79-01-6	Trichloroethene	5.0	U
124-48-1	Dibromochloromethane	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
71-43-2	Benzene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
75-25-2	Bromoform	5.0	U
108-10-1	4-Methyl-2-pentanone	20	U
591-78-6	2-Hexanone	20	U
127-18-4	Tetrachloroethene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER
Method: SW846 8260A
Volatile Organics, GC/MS (8260A)

Lab Sample ID:H8B120170 006

Sample WT/Vol: 5 / mL
Work Order: CFC1C10R
Dilution factor: 1
Moisture %:NA

Date Received: 02/12/98
Date Extracted:02/24/98
Date Analyzed: 02/24/98

QC Batch: 8055197

Client Sample Id: IR41-UT-SW03-98A

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
108-88-3	Toluene	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
1330-20-7	Xylenes (total)	5.0	U

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR41-UT-SW03-98A

TOTAL Metals

Lot-Sample #...: H8B120170-006 Matrix.....: WATER
Date Sampled...: 02/11/98 Date Received..: 02/12/98

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8055103						
Mercury	0.050 B	0.20	ug/L	ICLP ILM03.0	02/24-02/25/98	CFC1C10(
		Dilution Factor: 1				
		Analysis Time..: 10:37				
Prep Batch #...: 8055175						
Aluminum	274	200	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC1C101
		Dilution Factor: 1				
		Analysis Time..: 18:50				
Arsenic	ND	10.0	ug/L	ICLP ILM03.0	02/25-02/28/98	CFC1C10I
		Dilution Factor: 1				
		Analysis Time..: 21:43				
Lead	ND	3.0	ug/L	ICLP ILM03.0	02/25-02/28/98	CFC1C10M
		Dilution Factor: 1				
		Analysis Time..: 21:43				
Antimony	ND	60.0	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC1C102
		Dilution Factor: 1				
		Analysis Time..: 18:50				
Barium	23.5 B	200	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC1C103
		Dilution Factor: 1				
		Analysis Time..: 18:50				
Selenium	ND	5.0	ug/L	ICLP ILM03.0	02/25-02/28/98	CFC1C10N
		Dilution Factor: 1				
		Analysis Time..: 21:43				
Beryllium	ND	5.0	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC1C104
		Dilution Factor: 1				
		Analysis Time..: 18:50				
Thallium	5.1 B	10.0	ug/L	ICLP ILM03.0	02/25-02/28/98	CFC1C10P
		Dilution Factor: 1				
		Analysis Time..: 21:43				
Cadmium	ND	5.0	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC1C105
		Dilution Factor: 1				
		Analysis Time..: 18:50				
Calcium	35900	5000	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC1C106
		Dilution Factor: 1				
		Analysis Time..: 18:50				

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR41-UT-SW03-98A

TOTAL Metals

Lot-Sample #...: H8B120170-006 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Chromium	ND	10.0	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC1C107
		Dilution Factor: 1				
		Analysis Time..: 18:50				
Cobalt	ND	50.0	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC1C108
		Dilution Factor: 1				
		Analysis Time..: 18:50				
Copper	9.4 B	25.0	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC1C109
		Dilution Factor: 1				
		Analysis Time..: 18:50				
Iron	713	100	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC1C10A
		Dilution Factor: 1				
		Analysis Time..: 18:50				
Magnesium	2160 B	5000	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC1C10C
		Dilution Factor: 1				
		Analysis Time..: 18:50				
Manganese	24.5	15.0	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC1C10D
		Dilution Factor: 1				
		Analysis Time..: 18:50				
Nickel	ND	40.0	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC1C10E
		Dilution Factor: 1				
		Analysis Time..: 18:50				
Potassium	659 B	5000	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC1C10F
		Dilution Factor: 1				
		Analysis Time..: 18:50				
Silver	ND	10.0	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC1C10G
		Dilution Factor: 1				
		Analysis Time..: 18:50				
Sodium	11100	5000	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC1C10H
		Dilution Factor: 1				
		Analysis Time..: 18:50				
Vanadium	25.4 B	50.0	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC1C10J
		Dilution Factor: 1				
		Analysis Time..: 18:50				

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BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR41-UT-SW03-98A

TOTAL Metals

Lot-Sample #...: H8B120170-006 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Zinc	26.4	20.0	ug/L	ICLP ILM03.0	02/25-02/27/98	CFC1C10

Dilution Factor: 1
Analysis Time..: 18:50

NOTE(S):

B Estimated result. Result is less than RL.

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER
Method: SW846 8260A
Volatile Organics, GC/MS (8260A)

Lab Sample ID:H8B110165 007

Sample WT/Vol: 5 / mL
Work Order: CFA8H101
Dilution factor: 1
Moisture %:NA

Date Received: 02/11/98
Date Extracted:02/18/98
Date Analyzed: 02/19/98

QC Batch: 8049200

Client Sample Id: IR41-TB01-98A

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	**Methylene chloride**	**1.8**	**J B**
67-64-1	Acetone	20	U
75-15-0	Carbon disulfide	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
67-66-3	Chloroform	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
78-93-3	2-Butanone	20	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
75-27-4	Bromodichloromethane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
79-01-6	Trichloroethene	5.0	U
124-48-1	Dibromochloromethane	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
71-43-2	Benzene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
75-25-2	Bromoform	5.0	U
108-10-1	4-Methyl-2-pentanone	20	U
591-78-6	2-Hexanone	20	U
127-18-4	Tetrachloroethene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER
Method: SW846 8260A
Volatile Organics, GC/MS (8260A)

Lab Sample ID:H8B110165 007

Sample WT/Vol: 5 / mL
Work Order: CFA8H101
Dilution factor: 1
Moisture %:NA

Date Received: 02/11/98
Date Extracted:02/18/98
Date Analyzed: 02/19/98

QC Batch: 8049200

Client Sample Id: IR41-TB01-98A

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
108-88-3	Toluene	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
1330-20-7	Xylenes (total)	5.0	U

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER
Method: SW846 8260A
Volatile Organics, GC/MS (8260A)

Lab Sample ID:H8B120170 004

Sample WT/Vol: 5 / mL
Work Order: CFC19101
Dilution factor: 1
Moisture %:NA

Date Received: 02/12/98
Date Extracted:02/24/98
Date Analyzed: 02/24/98

QC Batch: 8055197

Client Sample Id: IR41-TB02-98A

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	**Methylene chloride**	**2.4**	**J B**
67-64-1	Acetone	20	U
75-15-0	Carbon disulfide	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
540-59-0	1,2-Dichloroethene (total)	5.0	U
67-66-3	Chloroform	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
78-93-3	2-Butanone	20	U
71-55-6	1,1,1-Trichloroethane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
75-27-4	Bromodichloromethane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
79-01-6	Trichloroethene	5.0	U
124-48-1	Dibromochloromethane	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
71-43-2	Benzene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
75-25-2	Bromoform	5.0	U
108-10-1	4-Methyl-2-pentanone	20	U
591-78-6	2-Hexanone	20	U
127-18-4	Tetrachloroethene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U

BAKER ENVIRONMENTAL, INC.

Lab Name:QUANTERRA

SDG Number:

Matrix: (soil/water) WATER
Method: SW846 8260A
Volatile Organics, GC/MS (8260A)

Lab Sample ID:H8B120170 004

Sample WT/Vol: 5 / mL
Work Order: CFC19101
Dilution factor: 1
Moisture %:NA

Date Received: 02/12/98
Date Extracted:02/24/98
Date Analyzed: 02/24/98

QC Batch: 8055197

Client Sample Id: IR41-TB02-98A

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
108-88-3	Toluene	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
100-42-5	Styrene	5.0	U
1330-20-7	Xylenes (total)	5.0	U

SITE 74

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR74-GW01-98A

TOTAL Metals

Lot-Sample #...: H8A230135-010 Matrix.....: WATER
Date Sampled...: 01/22/98 Date Received..: 01/23/98

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8027129						
Mercury	0.054 B	0.20	ug/L	ICLP ILM03.0	01/27-01/28/98	CF2L710T
		Dilution Factor: 1				
Prep Batch #...: 8028111						
Aluminum	838	200	ug/L	ICLP ILM03.0	01/28-02/05/98	CF2L7103
		Dilution Factor: 1				
Arsenic	ND	10.0	ug/L	ICLP ILM03.0	01/28-01/30/98	CF2L710N
		Dilution Factor: 1				
Lead	ND	3.0	ug/L	ICLP ILM03.0	01/28-01/30/98	CF2L710P
		Dilution Factor: 1				
Antimony	ND	60.0	ug/L	ICLP ILM03.0	01/28-02/05/98	CF2L7104
		Dilution Factor: 1				
Barium	48.7 B	200	ug/L	ICLP ILM03.0	01/28-02/05/98	CF2L7105
		Dilution Factor: 1				
Selenium	ND	5.0	ug/L	ICLP ILM03.0	01/28-01/30/98	CF2L710Q
		Dilution Factor: 1				
Beryllium	ND	5.0	ug/L	ICLP ILM03.0	01/28-02/05/98	CF2L710E
		Dilution Factor: 1				
Thallium	ND	10.0	ug/L	ICLP ILM03.0	01/28-01/30/98	CF2L710I
		Dilution Factor: 1				
Cadmium	ND	5.0	ug/L	ICLP ILM03.0	01/28-02/05/98	CF2L710'
		Dilution Factor: 1				
Calcium	984 B	5000	ug/L	ICLP ILM03.0	01/28-02/05/98	CF2L710(
		Dilution Factor: 1				
Chromium	ND	10.0	ug/L	ICLP ILM03.0	01/28-02/05/98	CF2L710:
		Dilution Factor: 1				
Cobalt	ND	50.0	ug/L	ICLP ILM03.0	01/28-02/05/98	CF2L710/
		Dilution Factor: 1				
Copper	3.9 B	25.0	ug/L	ICLP ILM03.0	01/28-02/05/98	CF2L710
		Dilution Factor: 1				

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BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR74-GW01-98A

TOTAL Metals

Lot-Sample #...: H8A230135-010 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	423	100	ug/L	ICLP ILM03.0	01/28-02/05/98	CF2L710I
		Dilution Factor: 1				
Magnesium	1950 B	5000	ug/L	ICLP ILM03.0	01/28-02/05/98	CF2L710I
		Dilution Factor: 1				
Manganese	5.3 B	15.0	ug/L	ICLP ILM03.0	01/28-02/05/98	CF2L710I
		Dilution Factor: 1				
Nickel	ND	40.0	ug/L	ICLP ILM03.0	01/28-02/05/98	CF2L710C
		Dilution Factor: 1				
Potassium	1070 B	5000	ug/L	ICLP ILM03.0	01/28-02/05/98	CF2L710E
		Dilution Factor: 1				
Silver	ND	10.0	ug/L	ICLP ILM03.0	01/28-02/05/98	CF2L710J
		Dilution Factor: 1				
Sodium	11400	5000	ug/L	ICLP ILM03.0	01/28-02/05/98	CF2L...JK
		Dilution Factor: 1				
Vanadium	10.6 B	50.0	ug/L	ICLP ILM03.0	01/28-02/05/98	CF2L710L
		Dilution Factor: 1				
Zinc	2.5 B	20.0	ug/L	ICLP ILM03.0	01/28-02/05/98	CF2L710M
		Dilution Factor: 1				

NOTE(S):

B Estimated result. Result is less than RL.

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR74-GW01-98A

General Chemistry

Lot-Sample #...: H8A230135-010 Work Order #...: CF2L7 Matrix.....: WATER
Date Sampled...: 01/22/98 Date Received..: 01/23/98

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Dissolved Solids	37	10	mg/L	MCAWW 160.1	01/27-01/28/98	8027158
	Dilution Factor: 1					
Total Suspended Solids	15	4.0	mg/L	MCAWW 160.2	01/27-01/28/98	8027159
	Dilution Factor: 1					

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR74-GW02-98A

TOTAL Metals

Lot-Sample #...: H8A230135-011 Matrix.....: WATER
Date Sampled...: 01/22/98 Date Received..: 01/23/98

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8027129						
Mercury	**0.050 B**	**0.20**	**ug/L**	**ICLP ILM03.0**	**01/27-01/28/98**	**CF2L810T**
		Dilution Factor: 1				
Prep Batch #...: 8028111						
Aluminum	**796**	**200**	**ug/L**	**ICLP ILM03.0**	**01/28-02/05/98**	**CF2L810J**
		Dilution Factor: 1				
Arsenic	ND	10.0	ug/L	ICLP ILM03.0	01/28-01/30/98	CF2L810N
		Dilution Factor: 1				
Lead	**2.5 B**	**3.0**	**ug/L**	**ICLP ILM03.0**	**01/28-01/30/98**	**CF2L810E**
		Dilution Factor: 1				
Antimony	ND	60.0	ug/L	ICLP ILM03.0	01/28-02/05/98	CF2L8104
		Dilution Factor: 1				
Barium	**54.2 B**	**200**	**ug/L**	**ICLP ILM03.0**	**01/28-02/05/98**	**CF2L8105**
		Dilution Factor: 1				
Selenium	ND	5.0	ug/L	ICLP ILM03.0	01/28-01/30/98	CF2L810Q
		Dilution Factor: 1				
Beryllium	ND	5.0	ug/L	ICLP ILM03.0	01/28-02/05/98	CF2L8106
		Dilution Factor: 1				
Thallium	ND	10.0	ug/L	ICLP ILM03.0	01/28-01/30/98	CF2L810R
		Dilution Factor: 1				
Cadmium	ND	5.0	ug/L	ICLP ILM03.0	01/28-02/05/98	CF2L8107
		Dilution Factor: 1				
Calcium	**19200**	**5000**	**ug/L**	**ICLP ILM03.0**	**01/28-02/05/98**	**CF2L8108**
		Dilution Factor: 1				
Chromium	ND	10.0	ug/L	ICLP ILM03.0	01/28-02/05/98	CF2L8109
		Dilution Factor: 1				
Cobalt	ND	50.0	ug/L	ICLP ILM03.0	01/28-02/05/98	CF2L810A
		Dilution Factor: 1				
Copper	ND	25.0	ug/L	ICLP ILM03.0	01/28-02/05/98	CF2L810C
		Dilution Factor: 1				

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BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR74-GW02-98A

TOTAL Metals

Lot-Sample #...: H8A230135-011 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	724	100	ug/L	ICLP ILM03.0	01/28-02/05/98	CF2L810D
		Dilution Factor: 1				
Magnesium	1570 B	5000	ug/L	ICLP ILM03.0	01/28-02/05/98	CF2L810E
		Dilution Factor: 1				
Manganese	8.8 B	15.0	ug/L	ICLP ILM03.0	01/28-02/05/98	CF2L810F
		Dilution Factor: 1				
Nickel	ND	40.0	ug/L	ICLP ILM03.0	01/28-02/05/98	CF2L810G
		Dilution Factor: 1				
Potassium	ND	5000	ug/L	ICLP ILM03.0	01/28-02/05/98	CF2L810H
		Dilution Factor: 1				
Silver	ND	10.0	ug/L	ICLP ILM03.0	01/28-02/05/98	CF2L810J
		Dilution Factor: 1				
Sodium	3100 B	5000	ug/L	ICLP ILM03.0	01/28-02/05/98	CF2L810K
		Dilution Factor: 1				
Vanadium	10.7 B	50.0	ug/L	ICLP ILM03.0	01/28-02/05/98	CF2L810L
		Dilution Factor: 1				
Zinc	6.0 B	20.0	ug/L	ICLP ILM03.0	01/28-02/05/98	CF2L810M
		Dilution Factor: 1				

NOTE(S):

B Estimated result. Result is less than RL.

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR74-GW02-98A

General Chemistry

Lot-Sample #...: H8A230135-011 Work Order #...: CF2L8 Matrix.....: WATER
Date Sampled...: 01/22/98 Date Received..: 01/23/98

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Dissolved Solids	92	10	mg/L	MCAWW 160.1	01/27-01/28/98	8027158
	Dilution Factor: 1					
Total Suspended Solids	ND	4.0	mg/L	MCAWW 160.2	01/27-01/28/98	8027159
	Dilution Factor: 1					

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR74-GW03A-98A

TOTAL Metals

Lot-Sample #...: H8A230135-012 Matrix.....: WATER
Date Sampled...: 01/22/98 Date Received..: 01/23/98

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8027129						
Mercury	0.051 B	0.20	ug/L	ICLP ILM03.0	01/27-01/28/98	CF2L910Q
		Dilution Factor: 1				
Prep Batch #...: 8028111						
Aluminum	3710	200	ug/L	ICLP ILM03.0	01/28-02/05/98	CF2L9101
		Dilution Factor: 1				
Arsenic	ND	10.0	ug/L	ICLP ILM03.0	01/28-01/30/98	CF2L910L
		Dilution Factor: 1				
Lead	2.5 B	3.0	ug/L	ICLP ILM03.0	01/28-01/30/98	CF2L910M
		Dilution Factor: 1				
Antimony	ND	60.0	ug/L	ICLP ILM03.0	01/28-02/05/98	CF2L9102
		Dilution Factor: 1				
Barium	58.9 B	200	ug/L	ICLP ILM03.0	01/28-02/05/98	CF2L9103
		Dilution Factor: 1				
Selenium	ND	5.0	ug/L	ICLP ILM03.0	01/28-01/30/98	CF2L910N
		Dilution Factor: 1				
Beryllium	ND	5.0	ug/L	ICLP ILM03.0	01/28-02/05/98	CF2L9104
		Dilution Factor: 1				
Thallium	3.4 B	10.0	ug/L	ICLP ILM03.0	01/28-01/30/98	CF2L910P
		Dilution Factor: 1				
Cadmium	ND	5.0	ug/L	ICLP ILM03.0	01/28-02/05/98	CF2L9105
		Dilution Factor: 1				
Calcium	290 B	5000	ug/L	ICLP ILM03.0	01/28-02/05/98	CF2L910G
		Dilution Factor: 1				
Chromium	ND	10.0	ug/L	ICLP ILM03.0	01/28-02/05/98	CF2L9107
		Dilution Factor: 1				
Cobalt	ND	50.0	ug/L	ICLP ILM03.0	01/28-02/05/98	CF2L9108
		Dilution Factor: 1				
Copper	3.3 B	25.0	ug/L	ICLP ILM03.0	01/28-02/05/98	CF2L9109
		Dilution Factor: 1				

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BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR74-GW03A-98A

TOTAL Metals

Lot-Sample #...: H8A230135-012 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	803	100	ug/L	ICLP ILM03.0	01/28-02/05/98	CF2L910
		Dilution Factor: 1				
Magnesium	565 B	5000	ug/L	ICLP ILM03.0	01/28-02/05/98	CF2L910
		Dilution Factor: 1				
Manganese	6.1 B	15.0	ug/L	ICLP ILM03.0	01/28-02/05/98	CF2L910
		Dilution Factor: 1				
Nickel	ND	40.0	ug/L	ICLP ILM03.0	01/28-02/05/98	CF2L910
		Dilution Factor: 1				
Potassium	782 B	5000	ug/L	ICLP ILM03.0	01/28-02/05/98	CF2L910
		Dilution Factor: 1				
Silver	ND	10.0	ug/L	ICLP ILM03.0	01/28-02/05/98	CF2L910
		Dilution Factor: 1				
Sodium	8700	5000	ug/L	ICLP ILM03.0	01/28-02/05/98	CF2L [illegible]
		Dilution Factor: 1				
Vanadium	13.6 B	50.0	ug/L	ICLP ILM03.0	01/28-02/05/98	CF2L910
		Dilution Factor: 1				
Zinc	8.7 B	20.0	ug/L	ICLP ILM03.0	01/28-02/05/98	CF2L910
		Dilution Factor: 1				

NOTE(S):

B Estimated result. Result is less than RL.

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR74-GW03A-98A

General Chemistry

Lot-Sample #...: H8A230135-012 **Work Order #...:** CF2L9 **Matrix.....:** WATER
Date Sampled...: 01/22/98 **Date Received..:** 01/23/98

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Dissolved Solids	**60**	**10**	**mg/L**	**MCAWW 160.1**	**01/27-01/28/98**	**8027158**
	Dilution Factor: 1					
Total Suspended Solids	ND	4.0	mg/L	MCAWW 160.2	01/27-01/28/98	8027159
	Dilution Factor: 1					

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR74-GW07-98A

TOTAL Metals

Lot-Sample #...: H8A230135-013 Matrix.....: WATER
Date Sampled...: 01/22/98 Date Received..: 01/23/98

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8027129						
Mercury	0.048 B	0.20	ug/L	ICLP ILM03.0	01/27-01/28/98	CF2LA10
		Dilution Factor: 1				
Prep Batch #...: 8028111						
Aluminum	345	200	ug/L	ICLP ILM03.0	01/28-02/05/98	CF2LA10
		Dilution Factor: 1				
Arsenic	ND	10.0	ug/L	ICLP ILM03.0	01/28-01/30/98	CF2LA10
		Dilution Factor: 1				
Lead	ND	3.0	ug/L	ICLP ILM03.0	01/28-01/30/98	CF2LA10
		Dilution Factor: 1				
Antimony	ND	60.0	ug/L	ICLP ILM03.0	01/28-02/05/98	CF2LA10
		Dilution Factor: 1				
Barium	96.5 B	200	ug/L	ICLP ILM03.0	01/28-02/05/98	CF2LA10
		Dilution Factor: 1				
Selenium	ND	5.0	ug/L	ICLP ILM03.0	01/28-01/30/98	CF2LA10
		Dilution Factor: 1				
Beryllium	ND	5.0	ug/L	ICLP ILM03.0	01/28-02/05/98	CF2LA104
		Dilution Factor: 1				
Thallium	ND	10.0	ug/L	ICLP ILM03.0	01/28-01/30/98	CF2LA10
		Dilution Factor: 1				
Cadmium	ND	5.0	ug/L	ICLP ILM03.0	01/28-02/05/98	CF2LA105
		Dilution Factor: 1				
Calcium	515 B	5000	ug/L	ICLP ILM03.0	01/28-02/05/98	CF2LA106
		Dilution Factor: 1				
Chromium	ND	10.0	ug/L	ICLP ILM03.0	01/28-02/05/98	CF2LA107
		Dilution Factor: 1				
Cobalt	ND	50.0	ug/L	ICLP ILM03.0	01/28-02/05/98	CF2LA108
		Dilution Factor: 1				
Copper	7.4 B	25.0	ug/L	ICLP ILM03.0	01/28-02/05/98	CF2LA109
		Dilution Factor: 1				

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BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR74-GW07-98A

TOTAL Metals

Lot-Sample #...: H8A230135-013 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	1840	100	ug/L	ICLP ILM03.0	01/28-02/05/98	CF2LA10A
		Dilution Factor: 1				
Magnesium	2310 B	5000	ug/L	ICLP ILM03.0	01/28-02/05/98	CF2LA10C
		Dilution Factor: 1				
Manganese	6.2 B	15.0	ug/L	ICLP ILM03.0	01/28-02/05/98	CF2LA10D
		Dilution Factor: 1				
Nickel	ND	40.0	ug/L	ICLP ILM03.0	01/28-02/05/98	CF2LA10E
		Dilution Factor: 1				
Potassium	1020 B	5000	ug/L	ICLP ILM03.0	01/28-02/05/98	CF2LA10F
		Dilution Factor: 1				
Silver	ND	10.0	ug/L	ICLP ILM03.0	01/28-02/05/98	CF2LA10G
		Dilution Factor: 1				
Sodium	8410	5000	ug/L	ICLP ILM03.0	01/28-02/05/98	CF2LA10H
		Dilution Factor: 1				
Vanadium	9.5 B	50.0	ug/L	ICLP ILM03.0	01/28-02/05/98	CF2LA10J
		Dilution Factor: 1				
Zinc	6.0 B	20.0	ug/L	ICLP ILM03.0	01/28-02/05/98	CF2LA10K
		Dilution Factor: 1				

NOTE(S):

B Estimated result. Result is less than RL.

BAKER ENVIRONMENTAL, INC.

Client Sample ID: IR74-GW07-98A

General Chemistry

Lot-Sample #...: H8A230135-013 Work Order #...: CF2LA Matrix.....: WATER
Date Sampled...: 01/22/98 Date Received..: 01/23/98

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH
Total Dissolved Solids	61	10	mg/L	MCAWW 160.1	01/27-01/28/98	802715
	Dilution Factor: 1					
Total Suspended Solids	ND	4.0	mg/L	MCAWW 160.2	01/27-01/28/98	802715
	Dilution Factor: 1					