6/28/00- 3184

Baker

Baker Environmental, Inc.
A Unit of Michael Baker Corporation

Airport Office Park, Building 3
420 Rouser Road
Coraopolis. Pennsylvania 15108

(412) 269-6000
FAX (412) 269-2002

June 28, 2000

Naval Facilities Engineering Service Center
Code ESC411
1100 23rd Avenue
Port Hueneme, CA 93043-4370

Attn: Ms. Laura Yeh

Re: Contract N62470-89-D-4814
Navy CLEAN, District III
Contract Task Order 0356
IR Site 88 Post-SEAR Monitoring
Marine Corps Base (MCB), Camp Lejeune, North Carolina

Dear Ms. Yeh:

This letter is a report on the first of two Post-SEAR monitoring events. The Post-SEAR monitoring scope of work was based on an e-mail message from you dated April 12, 2000, providing two scope options. In summary, groundwater samples were collected from three wells and two multi-level samplers, namely RW01, RW02, MW10IW, ML2T, and ML2M. Quality assurance/quality control (QA/QC) samples, including one equipment rinsate and one trip blank were also collected. Depths to water and product were measured in several wells including EX01, EX02, EX04R, EX05, IN01, IN02, HC01, RW01, RW02, RW03, RW04, and RW06. Water levels were also collected at wells MW02, MW03, and MW05, which were not included in the scope option.

The first event was conducted on May 15 and 16, 2000. On May 15, 2000 depth-to-water (DTW) and depth-to-product (DTP) measurements were taken and recorded. The attached Table 1 provides a summary of the DTW and DTP measurements. An electronic copy (e-copy) of this table was e-mailed to you containing in an Excel workbook format. Attachment 1 includes the field notes, which shows the original measurement recordings. Groundwater samples were collected on May 16, 2000. Purge and sampling information can be found in the field notes included as Attachment 1. Groundwater and QA/QC samples were analyzed for VOCs via USEPA Method 8260B. The concentration of isopropyl alcohol was also reported for the groundwater samples. Isopropyl alcohol analysis was not part of the scope option, but was requested after sampling was completed. As per previous correspondence with you, please note that the isopropyl alcohol concentrations are estimates only. Table 2 provides a summary of positive detections. The laboratory analytical data summary package is included as Attachment 2. A complete volatile data package will be mailed to you under a separate cover letter. Please note that Table 2 is included for informational purposes and the data has not been validated. An e-copy of the laboratory electronic data deliverable (EDD) in a database (*.dbf) format will be forwarded to you for use in data analysis and reporting.

Baker appreciates the opportunity to serve NFESC on this project. Should you have any questions regarding this correspondence, please contact me at (412) 269-6007.

Sincerely,

BAKER ENVIRONMENTAL, INC.

Mark K. DeJohn, P.G.
Project Geologist

MKD/lp

cc: Mr. Fred Holzmer, Duke (with attachments)
Ms. Katherine Landman, P.E., Code 18232-LANTDIV (with attachments)
Mr. Channing Blackwell, Code 18232-LANTDIV (with attachments)
Mr. Rick Raines, Camp Lejeune EMD-IR (with attachments)

TABLE 1

FIELD MEASUREMENTS SUMMARY
SITE 88 - POST-SEAR MONITORING
MCB, CAMP LEJEUNE, NORTH CAROLINA

Well ID	May 15, 2000		
	Time of Measurement	Depth to Water (Ft/BTOC)	Depth to Product (Ft/BTOC)
EX01	1616	7.78	18.82
EX02	1619	7.81	20.70
EX04R	1628	7.40	19.22
EX05	1631	7.05	21.53
IN01	1626	7.73	NP
IN02	1624	7.39	NP
HC01	1611	8.59	NP
RW01	1637	7.57	19.57
RW02	1622	7.30	18.95
RW04	1633	7.55	17.26
RW06	1607	8.38	17.65
MW02	1644	8.57	NM
MW03	1648	6.98	NM
MW05	1652	7.15	NM

Notes:
Ft/BTOC = Feet below top of PVC Casing
NP = No product interface detected
NM = Product interface not measured

TABLE 2

POSITIVE DETECTION SUMMARY
SITE 88 - POST-SEAR MONITORING
MCB, CAMP LEJEUNE, NORTH CAROLINA

Compound	Sampling Point and Date Sampled							
	RW01 5/16/00	RW02 5/16/00	MW10IW 5/16/00	MW10IWD 5/16/00	ML2T 5/16/00	ML2M 5/16/00	Rinsate Blank 5/16/00	Trip Blank 5/16/00
2-Butanone	1,000 U	760 J	10 U	10 U	560 J	1,000 U	10 U	10 U
1,1-Dichloroethene	500 U	500 U	5 U	5 U	500 U	400 J	5 U	5 U
Acetone	25,000	73,000	10 U	10 U	54,000	4,800	10 U	5 J
Chloroform	500 U	500 U	5 U	5 U	500 U	500 U	19	18
cis-1,2-Dichloroethene	7,900 J	1,200	44	28	500 U	1,200	5 U	5 U
Methylene Chloride	500 U	500 U	5 U	5 U	500 U	500 U	5 U	5 U
Tetrachloroethene	43,000	89,000	290	280	2,300	780,000	5 U	5 U
trans-1,2-Dichloroethene	500 U	500 U	5 U	5 U	500 U	500 U	5 U	5 U
Trichloroethene	690	89,000	160	170	640	1,000	5 U	5 U
Vinyl Chloride	910	750	2 U	2 U	200 U	200 U	2 U	2 U
Isopropyl Alcohol	12,000	43,000 JN	1,800 JN	80 JN	31,000	530 JN	--	--

Notes:
Units are ug/L.
U = not detected at reported quantitation limit
J = Concentration estimated
JN = Estimated/Tentative identification

ATTACHMENT 1

CTO-356

MAY 15, 2000. POST-SEAR MONITORING, ROUND 1. TRAVEL DAY & MOB.

WEATHER CONDITIONS -

PM: P SUNNY, BREEZY, & MID 70'S

0800 TRAVEL PIT TO DAS

1440 ARRIVE AT LOT 203 TRAILER. PREP FOR WATER/DNAPL LEVELS & GROUNDWATER SAMPLING.

1526 RELOCATE TO EMD TO CHAT.

1561 ARRIVE AT SITE 88. PREP FOR DTW & DTP MEASUREMENTS

1656 COMPLETE DTW & DTP MEASURE.

1659 RELOCATE TO LOT 203.

1710 AT LOT 203. PREP. TO SAMPLE GROUNDWATER TOMORROW.

1749 DEPART LOT 203 - DONE FOR THE DAY

MKD 5/15

CTO-356

WELL ID	TIME	DTW (1)	DTP (2)	COMMENTS
EX01	1616	7.87	18.82	—
EX02	1619	7.81	20.70	—
EX04R	1628	7.40	19.22	—
EX05	1631	7.05	21.53	—
HC01	1611	8.59	NP	—
IN01	1626	7.73	NP	—
IN02	1624	7.39	NP	—
RW04	1633	7.55	17.26	—
RW06	1607	8.38	17.65	WATER IN "COVER"
RW01	1637	7.57	19.57	—
RW02	~~D.B.~~ 16:22	7.30	18.95	—
MW02	16:44	8.57	—	—
MW03	1648	6.98	—	—
MW05	1652	7.15	—	—

(1) DTW = DEPTH TO WATER (FT./TPVC)

(2) DTP = DEPTH TO PRODUCT (FT./TPVC)

Mark KDR 5/15/00

5/15 MKD

CTO-356

TUES. MAY 16, 2000. SITE 88 POST-SEAR MONITORING

WEATHER CONDITIONS-
AM: SUNNY, SL. BREEZE & LOW 60's
PM: SUNNY, SL. BREEZE & HIGH 70's

0741 ARRIVE AT LOT 203. LOAD EQUIP & SUPPLIES.

0803 ARRIVE AT SITE 88

0815 METER CALIBRATION
TURBIDITY
10 NTU = 13.5 CANNOT ADJUST FURTHER.

pH
7.00 = 7.15 → 7.00
4.01 = 4.05 → 4.01

COND
1,000 µS = 980 µS @ 16.5°

1006 BATTERY AT RW02 LOSING POWER. SHARE RW01 BATTERY

1139 COLLECTED RINSATE BLANK OF PE & SILICON TUBING. 3 x 40 mL ~~RB88~~-RB01-00B. LABELED 1200 HRS

1235 BREAK FOR LUNCH.

1305 RELOCATE TO LOT 203. DUMP PURGE WATER INTO HOLDING TANK AT

MKD

(CONT.) SITE 6/82 TREATMENT PLANT

1341 BACK AT SITE 88. PREP TO SAMPLE MLS2T & MLS2M

1350 COLLECT ML2T FOR VOA 2 x 40 mL. WATER CLEAR W/ FOAM COLLECT 100 mL & STILL FLOWING.

1410 COLLECT ML2M FOR VOA 2 x 40 mL. WATER IS MILKY W/ TRACE DNAPL (~1 mL). COLLECTED ABOUT 100 mL STILL FLOW, BUT RATE MUCH LESS THAN ~~MLM~~ ML2T.

1428 POST-SEAR MONITORING COMPLETED RELOCATE TO TRAILER TO DEMOB.

1547 DEPART LOT 203

1606 DROP OFF LUCIP INFO. TO LANIER SURVEYORS. PRETTY MUCH DONE FOR THE DAY EXCEPT:
- SECURE MLSs AT SITE 88
- LABEL IDW CONTAINERS AT SITE 88

I WILL COMPLETE THESE TASKS LATER THIS EVENING.

MKD

CTO-356

RW01 PURGE RECORD

TD	19.75'
DTW	7.60'
WATER COLUMN	12.15' × 0.67 gal/ft.
WELL VOLUME	8.14 GAL

TIME	GALLONS	WELL VOLUME	COND	TEMP	pH	TURB	COMMENTS
0841	0	0	1,680	25.3	4.16	26	NEARLY CLEAR
0855	4	0.5	1,601	26.0	4.26	32	SLIGHTLY TURBID W/ SL. SULFUR ODOR
0910	8.1	1	1,607	25.8	4.29	54	" " " " "
0927		1.5	1,584	26.0	4.33	36	" " " " "
0944	16.2	2	1,591	26.2	4.34	25	NEARLY CLEAR " " "
1008		2.5	1,564	26.3	4.38	27	" " " " "
1028	24.3	3	1,534	26.3	4.40	17.2	" " " " "
1035		3.5	1,529	26.4	4.44	13.2	CLEAR, SL. SULFUR ODOR
1048	32.4	4.0	1,501	26.6	4.46	11.0	

1050 COLLECTED SAMPLE FOR VOA
3 x 40 mL 1R88-RW01-00B

MKD 5/16

CTO-356

1811 MLS STATUS -
MLS 5 MOSTLY DESTROYED. ONLY MLSM IS IN TACT
RELABELED OTHER MLSs & RE-SECURED. COMPRESSION FITTINGS PRESENT & IN GOOD CONDITION.

5/16 MKD

CTO-356

RW02 PURGE RECORD

TD 19.61
DTW 7.35
WATER COLUMN 12.26' x 0.67 gal/ft =
WELL VOLUME 8.2 GAL

TIME	GALLONS	WELL VOLUME	COND	TEMP	pH	TURB.	COMMENTS
0901	0	0	1884	22.8	5.38	5.5	CLEAR, SL. FOAMY
0918		4.1	1880	22.9	5.43	2.9	CLEAR, SULFUR ODOR
0935	1	8.2	1829	22.9	5.47	4.4	" " "
0952			1758	23.0	5.66	4.2	" , STRONG SULFUR ODOR
1015	2	16.4	1695	23.3	5.78	3.9	" " " "
1032			1678	23.4	5.84	4.4	" " " "
1045	3	24.6	1659	23.5	5.93	2.7	" " " "
1102			1628	23.3	6.01	1.8	" " " "
1114	4	32.8	1625	23.7	6.01	2.0	" " " "

1120 COLLECTED SAMPLE FOR VOA
3 x 40 mL 1R88-RW02-008

MKD 5/16

CTO-356

MKD
~~LOOK BATTERY~~

5/16 MKD

MW101W PURGE RECORD

TD	38.38'	
DTW	15.44'	
WATER COLUMN	22.94	X 0.16 Gal/ft =
WELL VOLUME	3.7	GAL

TIME	GALLONS	WELL VOLUME	COND	TEMP	pH	TURB.	COMMENTS
1059	0	0	111	25.5	6.14	2.7	CLEAR, NO ODOR
1108		0.5	127	25.7	6.17	2.4	" " "
1117	3.7	1	126	25.2	6.12	12.0	" " "
1126			118	25.2	5.97	2.8	" " "
1136	7.4	2	123	25.3	5.95	1.3	" " "
1145			121	25.5	5.95	1.0	" " "
1156	11.1	3	119	25.2	5.95	0.5	" " "

1205 COLLECT SAMPLE FOR VOA
3 x 40mL 1R88-MW101W-00B
3 x 40mL 1R88-MW101WD-00B
3 x 40mL 1R88-MW101W-00B MS/MSD

Mark K D 5/16/00

MKD 5/16

5/16 MKD

CTO-356

WED. MAY 17, 2000. POST-SEAR DEMOB

WEATHER CONDITIONS -

AM: M. SUNNY, CALM, & LOW 60's

0705 ARRIVE AT LOT 203. PICKUP SAMPLES & EQUIP TO SHIP

0747 BACK AT MOTEL TO PACK SAMPLES FOR SHIPMENT.

0840 LEAVE MOTEL - TRAVEL TO PGH.

~~Done~~ COMPLETE FIRST ROUND OF POST-SEAR MONITORING

Mark Kopp 5/17

MCO 5/17

ATTACHMENT 2

BAKER ENVIRONMENTAL
MCB CAMP LEJEUNE
SITE 88/CTO-356
WQ1404

KATAHDIN ANALYTICAL SERVICES, INC.
340 COUNTY ROAD 5
WESTBROOK, ME 04092

SAMPLE DATA PACKAGE

Katahdin
ANALYTICAL SERVICES

TABLE OF CONTENTS

SAMPLE DATA PACKAGE		0000001		
Narrative	----------	0000002	to	0000003
Supporting Documents	----------	0000004	to	0000004
Chain of Custody Record	----------	0000005	to	0000005
Confirmation	----------	0000006	to	0000006
VOLATILE ANALYSIS		1000001		
QC Summary	----------	1000002	to	1000012
Sample Data	----------	1000013	to	1000242
Standards Data	----------	1000243	to	1000311
Raw QC Data	----------	1000312	to	1000360
Logbooks and Supporting Documents	----------	1000361	to	1000364

Katahdin
ANALYTICAL SERVICES

SDG NARRATIVE
KATAHDIN ANALYTICAL SERVICES
BAKER ENVIRONMENTAL
MCB CAMP LEJEUNE SITE 88/CTO-356
WQ1404

Sample Receipt

The following samples were received on May 18, 2000 and were logged in under Katahdin Analytical Services work order number WQ1404 for a hardcopy due date of June 8, 2000.

KATAHDIN Sample No.	BAKER Sample Identification	Date Sampled	Parameter
WQ1404-1	IR88-RW01-00B	5/16/00	VOA
WQ1404-2	IR88-RW02-00B	5/16/00	VOA
WQ1404-3	IR88-GW10IW-00B	5/16/00	VOA
WQ1404-4	IR88-GW10IWD-00B	5/16/00	VOA
WQ1404-5	ML2T	5/16/00	VOA
WQ1404-6	ML2M	5/16/00	VOA
WQ1404-7	IR88-RB01-00B	5/16/00	VOA
WQ1404-8	IR88-TB01-00B	5/16/00	VOA

The samples were logged in for the analyses specified by the client. As requested, sample IR88-GW10IW-00B was logged in for Volatile Organics matrix spike/matrix spike duplicate analyses. There was one non-conformance noted during sample receipt. The temperature of the sample cooler at the time of sample receipt was 1.2 °C. The laboratory acceptance range for the temperature of sample coolers at the time of sample receipt is 2 °C - 6 °C. The client was notified of this non-conformance during a telephone conversation on May 18, 2000 and the laboratory was requested to proceed with the analyses. There were no other non-conformances noted during sample receipt.

Sample analyses have been performed by the methods as noted herein.

Volatile Organics Analysis

Eight aqueous samples were received by the Katahdin Analytical Services, Inc. GC/MS laboratory on May 18, 2000 and were specified to be analyzed for the USEPA target compound list of volatile organics in accordance with USEPA method 8260B.

Analyses for this workorder were performed on the 5973-U instrument. A VSTD050 (50 ppb standard) was used for the continuing calibration standard. Internal standard and surrogate compounds were also spiked at 50 ppb.

Batch QC (VBLK, and LCS) was performed in each twelve-hour window. Results are included in this data package. The LCS QC samples were spiked with the entire list of compounds quantitated for at 50 ppb. A matrix spike/matrix spike duplicate pair was performed on Katahdin Analytical Services sample I.D. WQ1404-3.

340 County Road No. 5
P.O. Box 720, Westbrook, ME 04098
Tel: (207) 874-2400 Fax: (207) 775-4029

http://katahdinlab.com

210 West Road No. 5, Portsmouth, NH 0380
Tel: (603) 431-5777 Fax: (603) 436-335

Katahdin
ANALYTICAL SERVICES

The initial analysis of samples WQ1404-1, -2, -5, and -6 was started at a 1:100 dilution, samples WQ1404-1, -2, and -5 were re-analyzed at a 1:1000 dilution. WQ1404-6 required a 1:10,000 dilution. Samples WQ1404-3 and -4 were initially analyzed straight and subsequently at a 1:5 dilution. All runs have been included in the data package.

Method 8000B, section 7.5.1.2.1 (Revision 2, 12/96) states, "in those instances where the RSD for one or more analytes exceeds 20%, the initial calibration curve may still be acceptable if the mean of the RSD values for all analytes in the calibration is less than or equal to 20%." Method 8260B narrows this 20% maximum to 15%.

In the calibration curve analyzed in this workorder, several analytes had %RSD values exceeding the allowed 15%. Since the average %RSD for all analytes was 14.4%, the curve was acceptable.

Several manual integrations were performed due to split peaks; all have been flagged with a "M" (software-generated) on the pertinent quantitation reports. All "M" flags have been dated and initialed by the analyst performing the integration. In addition, all "M" flags have been reviewed and approved by the GC/MS supervisor. Copies of each manual integration are included in the pertinent quantitation reports.

The volatile organic staff noted no other protocol deviations.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager and/or his designee, as verified by the following signature.

Yania Crouch
Authorized Signature
06/08/00

340 County Road No. 5
P.O. Box 720, Westbrook, ME 04098
Tel: (207) 874-2400 Fax: (207) 775-4029

http://katahdinlab.com

210 West Road No. 5, Portsmouth, NH 0380
Tel: (603) 431-5777 Fax: (603) 436-335

KATAHDIN ANALYTICAL SERVICES, INC.
SAMPLE RECEIPT CONDITION REPORT

Tel. (207) 874-2400
Fax (207) 775-4029

LAB (WORK ORDER) # WQ 1404

PAGE: 1 OF 1

COOLER: 1 OF 1

COC#

SDG#

DATE / TIME RECEIVED: 5-18-00 0910

DELIVERED BY: FedEx

RECEIVED BY: SA

LIMS ENTRY BY: SW

LIMS REVIEW BY / PM: KAP

CLIENT: Baker

PROJECT:

	YES	NO	EXCEPTIONS	COMMENTS	RESOLUTION
1. CUSTODY SEALS PRESENT / INTACT?	☑	☐	☐		
2.CHAIN OF CUSTODY PRESENT IN THIS COOLER?	☑	☐	☐		
3. CHAIN OF CUSTODY SIGNED BY CLIENT?	☑	☐	☐		
4. CHAIN OF CUSTODY MATCHES SAMPLES?	☑	☐	☐		
5. TEMPERATURE BLANKS PRESENT?	☑	☐	☐	TEMP BLANK TEMP (°C)= 1.2	Called client on 5/18/00 Proceed with analyses per client request. KAP 5/18/00.
6. SAMPLES RECEIVED AT 4°C +/- 2? ICE / ICE PACKS PRESENT (Y) or N?	☐	☑	☐	COOLER TEMP (°C)= NA (RECORD COOLER TEMP ONLY IF TEMP BLANK IS NOT PRESENT)	
7. VOLATILES FREE OF HEADSPACE?	☑	☐	☐		
8. TRIP BLANK PRESENT IN THIS COOLER	☑	☐	☐		
9. PROPER SAMPLE CONTAINERS AND VOLUME?	☑	☐	☐		
10. SAMPLES WITHIN HOLD TIME UPON RECEIPT?	☑	☐	☐		
11. SAMPLES PROPERLY PRESERVED[1]?	☑	☐	☐		
12. CORRECTIVE ACTION REPORT FILED?	☐	☑	N/A		

13. ANALYTICAL PROGRAMS (CIRCLE ONE) COMMERCIAL CLP HAZWRAP (NFESC) ACOE AFCEE OTHER (STATE OF ORIGIN): NC

LOG - IN NOTES[1]:

(1) Use this space (and additional sheets if necessary) to document samples that are received broken or compromised, C-O-C discrepancies, radiation checks, residual chlorine check, results of pH

000004

Katahdin ANALYTICAL SERVICES
340 County Road No. 5
P.O. Box 720
Westbrook, ME 04092
Tel: (207) 874-2400
Fax: (207) 775-4029

CHAIN of CUSTODY

Fed Ex No. 820565944914

PLEASE PRINT IN PEN

Client: Baker Environmental | Contact: Mark DeJohn | Phone #: (412) 269-6007 | Fax #: (412) 269-

Address: 420 Rouser Rd. | City: Moon Twp. | State: PA | Zip Code: 15108

Purchase Order # | Proj. Name / No.: Site 88 / CTO-356 | Katahdin Quote #

Bill (if different than above) | Address

Sampler (Print / Sign): Mark DeJohn / Mark K DeJohn | Copies To:

LAB USE ONLY | WORK ORDER #: WQ13-1404 - * | KATAHDIN PROJECT MANAGER

REMARKS:

SHIPPING INFO: ☐ FED EX ☐ UPS ☐ CLIENT

AIRBILL NO:

TEMP°C ☐ TEMP BLANK ☐ INTACT ☐ NOT INTACT

ANALYSIS AND CONTAINER TYPE PRESERVATIVES

*	Sample Description	Date / Time coll'd	Matrix	No. of Cntrs.	Volatile Organics HCl / 40 mL VOA	Filt. ☐Y ☒N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N	Filt. ☐Y ☐N
	IR88-RW01-00B	5/16/1050	GW	3	1	Sample is "hot"								
	IR88-RW02-00B	/1120	GW	3	1	"	"	"						
	IR88-GW10IW-00B	/1205	GW	3	1	trace to low VOCs								
	IR88-GW10IWD-00B	/1205	GW	3	1	"	"	"	"					
	IR88GW10IW-00B	/1205	MS/MSD	3	1	"	"	"	"					
	MLZT	/1350	GW	2	1	Sample is hot								
	MLZM	/1410	GW	2	1	Sample is very "hot"								
	IR88-RB01-00B	/1200	W	3	1	Clean								
	IR88-TB01-00B	5/16/	W	3	1	"								
		/												
		/												
		/												
		/												
		/												
		/												
		/												

COMMENTS

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (S
Mark K DeJohn	5/16 1600	Shelley Welch 5-18-00 0910			
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (S

KATAHDIN ANALYTICAL SERVICES, INCORPORATED
New England-ME Laboratory (207) 874-2400
CONFIRMATION

ORDER NO WQ-1404

Project Manager: Kelly Perk
ORDER DATE: 05/18
PHONE: 412/269-6
FAX: 412/269-2
DUE: 08

REPORT TO: Mark DeJohn
Baker Environmental, Inc.
AOP #3, 420 Royser Road
Coraopolis, PA 15108

FAC.ID: MCB CAMP LEJEUNE SITE 88/CTO-

INVOICE: Mark DeJohn
Baker Environmental, Inc.
AOP #3, 420 Royser Road
Coraopolis, PA 15108

PO: 356-06
REQ: BOA 62470-499-SRE
PROJECT: N62470-89-D-4814

SAMPLED BY: M.DeJohn DELIVERED BY: FED EX DISPOSE: AFTER 17

ITEM	LOG NUMBER	SAMPLE DESCRIPTION	SAMPLED DATE/TIME	RECEIVED	MAT
1	WQ1404-1	IR88-RW01-00B	16 MAY 1050	18 MAY	
	WQ1404-2	IR88-RW02-00B	16 MAY 1120		
	WQ1404-3	IR88-GW10IW-00B	16 MAY 1205		
	WQ1404-4	IR88-GW10IWD-00B	16 MAY 1205		
	WQ1404-5	ML2T	16 MAY 1350		
	WQ1404-6	ML2M	16 MAY 1410		
	WQ1404-7	IR88-RB01-00B	16 MAY 1200		
	WQ1404-8	IR88-TB01-00B	16 MAY		

DETERMINATION	METHOD	QTY	PRICE	AMOU
Volatile Organics by 8260A	SW8260	8	110.00	880.
VOA Library Search	EPA624/824	8	0.00	0.
TOTALS		8	110.00	880.

	LOG NUMBER	SAMPLE DESCRIPTION	SAMPLED DATE/TIME	RECEIVED	MAT
2	WQ1404-1	IR88-RW01-00B	16 MAY 1050	18 MAY	
	WQ1404-2	IR88-RW02-00B	16 MAY 1120		
	WQ1404-3	IR88-GW10IW-00B	16 MAY 1205		
	WQ1404-4	IR88-GW10IWD-00B	16 MAY 1205		
	WQ1404-5	ML2T	16 MAY 1350		
	WQ1404-6	ML2M	16 MAY 1410		

DETERMINATION	METHOD	QTY	PRICE	AMOU
Volatile Organics by 8260A DL1	SW8260	6	0.00	0.

ORDER NOTE: QC-IV NFESC D
MCB CAMP LEJEUNE SITE 88/CTO-356
DD(KAS009)

KAP 6

INVOICE: With Report

TOTAL ORDER AMOUNT $880.
This is NOT an Invc

DRT/KP/WEST.DRT(dw)/WEST.KP(dw)
06-01Please contact KATAHDIN ANALYTICAL SERVICES promptly if you have any qu

SAMPLE DATA SUMMARY PACKAGE

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mark DeJohn
Baker Environmental, Inc.
AOP #3
420 Royser Road
Coraopolis, PA 15108

Proj. ID: MCB CAMP LEJEUNE SITE 88/CTO-3

Lab Number: WQ1404-1
SDG: WQ1404
Report Date: 6/8/00
PO No. : 356-06200
Project: N62470-89-D-4814
% Solids: N/A
Method: SW8260
Date Analyzed: 5/19/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
IR88-RW01-00B	AQ	5/16/00	5/18/00	5/19/00	BEM	5030	BEM

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<500	ug/L	100	500	5
VINYL CHLORIDE	910	ug/L	100	200	2
BROMOMETHANE	<500	ug/L	100	500	5
CHLOROETHANE	<500	ug/L	100	500	5
1,1-DICHLOROETHENE	<500	ug/L	100	500	5
METHYLENE CHLORIDE	<500	ug/L	100	500	5
1,2-DICHLOROETHENE (TRANS)	<500	ug/L	100	500	5
1,1-DICHLOROETHANE	<500	ug/L	100	500	5
1,2-DICHLOROETHENE (CIS)	7900	ug/L	100	500	5
CHLOROFORM	<500	ug/L	100	500	5
1,1,1-TRICHLOROETHANE	<500	ug/L	100	500	5
1,2-DICHLOROETHANE	<500	ug/L	100	500	5
CARBON TETRACHLORIDE	<500	ug/L	100	500	5
BENZENE	<500	ug/L	100	500	5
1,2-DICHLOROPROPANE	<500	ug/L	100	500	5
TRICHLOROETHENE	690	ug/L	100	500	5
BROMODICHLOROMETHANE	<500	ug/L	100	500	5
CIS-1,3-DICHLOROPROPENE	<500	ug/L	100	500	5
TOLUENE	<500	ug/L	100	500	5
TRANS-1,3-DICHLOROPROPENE	<500	ug/L	100	500	5
1,1,2-TRICHLOROETHANE	<500	ug/L	100	500	5
DIBROMOCHLOROMETHANE	<500	ug/L	100	500	5
TETRACHLOROETHENE	E94000	ug/L	100	500	5
CHLOROBENZENE	<500	ug/L	100	500	5
ETHYLBENZENE	<500	ug/L	100	500	5
BROMOFORM	<500	ug/L	100	500	5
STYRENE	<500	ug/L	100	500	5
1,1,2,2-TETRACHLOROETHANE	<500	ug/L	100	500	5
ACETONE	E30000	ug/L	100	1000	10
2-BUTANONE	<1000	ug/L	100	1000	10
4-METHYL-2-PENTANONE	<1000	ug/L	100	1000	10
2-HEXANONE	<1000	ug/L	100	1000	10
CARBON DISULFIDE	<500	ug/L	100	500	5

Report Notes: E, O-2

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mark DeJohn
Baker Environmental, Inc.
AOP #3
420 Royser Road
Coraopolis, PA 15108

Proj. ID: MCB CAMP LEJEUNE SITE 88/CTO-3

Lab Number: WQ1404-1
SDG: WQ1404
Report Date: 6/8/00
PO No. : 356-06200
Project: N62470-89-D-4814
% Solids: N/A
Method: SW8260
Date Analyzed: 5/19/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
IR88-RW01-00B	AQ	5/16/00	5/18/00	5/19/00	BEM	5030	BEM

Compound	Result	Units	DF	Sample PQL	Method PQL
TOTAL 1,2-DICHLOROETHENE	7900	ug/L	100	500	5
TOTAL XYLENES	<500	ug/L	100	500	5
DIBROMOFLUOROMETHANE	103	%	100		
1,2-DICHLOROETHANE-D4	84	%	100		
TOLUENE-D8	100	%	100		
P-BROMOFLUOROBENZENE	89	%	100		

Report Notes: E, O-2

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample No

IR88-RW01-00B

Lab Name: Katahdin Analytical Services SDG No.: WQ1404

Matrix: (Soil/Water) Water

Sample wt/vol: 0.0500 ml

Level: (low/med) low

% Moisture: not dec.

GC Column: RTX-624 ID: 0.18 (mm)

Soil Extract Volume: (ml)

Lab Sample ID: WQ1404-1

Lab File ID: U4279

Date Received: 05/18/00

Date Analyzed: 05/19/00

Dilution Factor: 100

Concentration Units: ug/L

Soil Aliquot Volume:

Number of TIC's Found: 29

	CAS NO.	COMPOUND	R.T.	EST. CONC	Q
1	000067-63-0	Isopropyl Alcohol	6.75	12000	
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mark DeJohn
Baker Environmental, Inc.
AOP #3
420 Royser Road
Coraopolis, PA 15108

Proj. ID: MCB CAMP LEJEUNE SITE 88/CTO-3

Lab Number: WQ1404-1DL
SDG: WQ1404
Report Date: 5/26/00
PO No. : 356-06200
Project: N62470-89-D-4814
% Solids: N/A
Method: SW8260
Date Analyzed: 5/19/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
IR88-RW01-00B	AQ	5/16/00	5/18/00	5/19/00	BEM	5030	BEM

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<5000	ug/L	1000	5000	5
VINYL CHLORIDE	<2000	ug/L	1000	2000	2
BROMOMETHANE	<5000	ug/L	1000	5000	5
CHLOROETHANE	<5000	ug/L	1000	5000	5
1,1-DICHLOROETHENE	<5000	ug/L	1000	5000	5
METHYLENE CHLORIDE	J3200	ug/L	1000	5000	5
1,2-DICHLOROETHENE (TRANS)	<5000	ug/L	1000	5000	5
1,1-DICHLOROETHANE	<5000	ug/L	1000	5000	5
1,2-DICHLOROETHENE (CIS)	J2600	ug/L	1000	5000	5
CHLOROFORM	<5000	ug/L	1000	5000	5
1,1,1-TRICHLOROETHANE	<5000	ug/L	1000	5000	5
1,2-DICHLOROETHANE	<5000	ug/L	1000	5000	5
CARBON TETRACHLORIDE	<5000	ug/L	1000	5000	5
BENZENE	<5000	ug/L	1000	5000	5
1,2-DICHLOROPROPANE	<5000	ug/L	1000	5000	5
TRICHLOROETHENE	<5000	ug/L	1000	5000	5
BROMODICHLOROMETHANE	<5000	ug/L	1000	5000	5
CIS-1,3-DICHLOROPROPENE	<5000	ug/L	1000	5000	5
TOLUENE	<5000	ug/L	1000	5000	5
TRANS-1,3-DICHLOROPROPENE	<5000	ug/L	1000	5000	5
1,1,2-TRICHLOROETHANE	<5000	ug/L	1000	5000	5
DIBROMOCHLOROMETHANE	<5000	ug/L	1000	5000	5
TETRACHLOROETHENE	43000	ug/L	1000	5000	5
CHLOROBENZENE	<5000	ug/L	1000	5000	5
ETHYLBENZENE	<5000	ug/L	1000	5000	5
BROMOFORM	<5000	ug/L	1000	5000	5
STYRENE	<5000	ug/L	1000	5000	5
1,1,2,2-TETRACHLOROETHANE	<5000	ug/L	1000	5000	5
ACETONE	25000	ug/L	1000	10000	10
2-BUTANONE	<10000	ug/L	1000	10000	10
4-METHYL-2-PENTANONE	<10000	ug/L	1000	10000	10
2-HEXANONE	<10000	ug/L	1000	10000	10
CARBON DISULFIDE	<5000	ug/L	1000	5000	5

Report Notes: J, O-2

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mark DeJohn
Baker Environmental, Inc.
AOP #3
420 Royser Road
Coraopolis, PA 15108

Proj. ID: MCB CAMP LEJEUNE SITE 88/CTO-3

Lab Number: WQ1404-1DL
SDG: WQ1404
Report Date: 5/26/00
PO No. : 356-06200
Project: N62470-89-D-4814
% Solids: N/A
Method: SW8260
Date Analyzed: 5/19/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
IR88-RW01-00B	AQ	5/16/00	5/18/00	5/19/00	BEM	5030	BEM

Compound	Result	Units	DF	Sample PQL	Method PQL
TOTAL 1,2-DICHLOROETHENE	J2600	ug/L	1000	5000	5
TOTAL XYLENES	<5000	ug/L	1000	5000	5
DIBROMOFLUOROMETHANE	75	%	1000		
1,2-DICHLOROETHANE-D4	73	%	1000		
TOLUENE-D8	91	%	1000		
P-BROMOFLUOROBENZENE	74	%	1000		

Report Notes: J, O-2

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\U4291.D
Acq On : 19 May 00 5:33 pm
Sample : WQ1404-1DL
Misc : HP5973:
Quant Time: May 19 18:05 2000

Vial: 18
Operator: BEM
Inst : GC/MS Ins
Multiplr: 1000.00
Quant Results File: UTCL0519.RE

Quant Method : C:\HPCHEM\1\METHODS\UTCL0519.M
Title : VOA 8260A Water Calibration;Full List 5ML
Last Update : Thu May 18 06:54:55 2000
Response via : Initial Calibration
DataAcq Meth : UTCL0519

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	13.44	168	498419	50.00	UG/L	0.00
19) 1,4-Difluorobenzene	15.09	114	741604	50.00	UG/L	0.00
33) Chlorobenzene-d5	20.68	117	600389	50.00	UG/L	0.00
44) 1,4-Dichlorobenzene-d4	24.73	152	281316	50.00	UG/L	0.00
System Monitoring Compounds						
16) 1,2-Dichloroethane-d4	14.09	65	203200	36.65	UG/L	0.00
Surrogate Spike 50.000	Range 65 - 135		Recovery = 73.30%			
18) Dibromofluoromethane	13.23	111	203562	37.56	UG/L	0.00
Surrogate Spike 50.000	Range 75 - 129		Recovery = 75.12%			
30) Toluene-d8	17.98	98	853774	45.59	UG/L	0.00
Surrogate Spike 50.000	Range 82 - 120		Recovery = 91.18%			
32) P-Bromofluorobenzene	22.76	95	262167	36.81	UG/L	0.00
Surrogate Spike 50.000	Range 69 - 125		Recovery = 73.62%			
Target Compounds						Qvalue
4) Vinyl Chloride	3.41	62	6562	582.15	UG/L	97
6) Acetone	6.23	43	133079	24967.21	UG/L	95
7) Methylene Chloride	7.36	84	31872	3208.38	UG/L	94
12) 1,2-Dichloroethene (cis)	11.81	96	19764	2613.71	UG/L	97
25) Trichloroethene	15.53	95	2880	527.40	UG/L	95
~~28) 1,1,2-Trichloroethane~~	~~19.06~~	~~83~~	~~2826~~	~~802.15~~	~~UG/L #~~	~~40~~
35) Tetrachloroethene	19.07	166	195435	43240.86	UG/L	98

0.2

05 22 00

(#) = qualifier out of range (m) = manual integration

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample No

IR83-RW01-00B

Lab Name: Katahdin Analytical Services SDG No.: WQ1404

Matrix: (Soil/Water) Water

Sample wt/vol: 0.00500

Level: (low/med) low

% Moisture: not dec.

GC Column: RTX-624 ID: 0.18 (mm)

Soil Extract Volume: (ml)

Lab Sample ID: WQ1404-1DL

Lab File ID: U4291

Date Received: 05/18/00

Date Analyzed: 05/19/00

Dilution Factor: 1000

Concentration Units: ug/L

Soil Aliquot Volume:

Number of TIC's Found: 9

	CAS NO.	COMPOUND	R.T.	EST. CONC	Q
1	000104-76-7	1-Hexanol, 2-ethyl-	25.07	5100	JNB
2		Trichlorobenzene Isomer	28.11	8900	J
3	000087-68-3	1,3-Butadiene, 1,1,2,3,4,4-hexac	28.29	8700	JNB
4	000091-20-3	Naphthalene	28.55	10000	JNB
5		UNKNOWN	28.80	6200	J
6		Trichlorobenzene Isomer	28.98	18000	J
7		C11H14 isomer	29.16	5500	J
8	001680-51-9	Naphthalene, 1,2,3,4-tetrahydro-	29.55	7800	JN
9	000067-63-0	Isopropyl Alcohol	6.76	9000	JN
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mark DeJohn
Baker Environmental, Inc.
AOP #3
420 Royser Road
Coraopolis, PA 15108

Proj. ID: MCB CAMP LEJEUNE SITE 88/CTO-3

Lab Number: WQ1404-2
SDG: WQ1404
Report Date: 5/26/00
PO No. : 356-06200
Project: N62470-89-D-4814
% Solids: N/A
Method: SW8260
Date Analyzed: 5/19/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
IR88-RW02-00B	AQ	5/16/00	5/18/00	5/19/00	BEM	5030	BEM

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<500	ug/L	100	500	5
VINYL CHLORIDE	750	ug/L	100	200	2
BROMOMETHANE	<500	ug/L	100	500	5
CHLOROETHANE	<500	ug/L	100	500	5
1,1-DICHLOROETHENE	<500	ug/L	100	500	5
METHYLENE CHLORIDE	<500	ug/L	100	500	5
1,2-DICHLOROETHENE (TRANS)	<500	ug/L	100	500	5
1,1-DICHLOROETHANE	<500	ug/L	100	500	5
1,2-DICHLOROETHENE (CIS)	1200	ug/L	100	500	5
CHLOROFORM	<500	ug/L	100	500	5
1,1,1-TRICHLOROETHANE	<500	ug/L	100	500	5
1,2-DICHLOROETHANE	<500	ug/L	100	500	5
CARBON TETRACHLORIDE	<500	ug/L	100	500	5
BENZENE	<500	ug/L	100	500	5
1,2-DICHLOROPROPANE	<500	ug/L	100	500	5
TRICHLOROETHENE	E53000	ug/L	100	500	5
BROMODICHLOROMETHANE	<500	ug/L	100	500	5
CIS-1,3-DICHLOROPROPENE	<500	ug/L	100	500	5
TOLUENE	<500	ug/L	100	500	5
TRANS-1,3-DICHLOROPROPENE	<500	ug/L	100	500	5
1,1,2-TRICHLOROETHANE	<500	ug/L	100	500	5
DIBROMOCHLOROMETHANE	<500	ug/L	100	500	5
TETRACHLOROETHENE	E22000	ug/L	100	500	5
CHLOROBENZENE	<500	ug/L	100	500	5
ETHYLBENZENE	<500	ug/L	100	500	5
BROMOFORM	<500	ug/L	100	500	5
STYRENE	<500	ug/L	100	500	5
1,1,2,2-TETRACHLOROETHANE	<500	ug/L	100	500	5
ACETONE	E110000	ug/L	100	1000	10
2-BUTANONE	J760	ug/L	100	1000	10
4-METHYL-2-PENTANONE	<1000	ug/L	100	1000	10
2-HEXANONE	<1000	ug/L	100	1000	10
CARBON DISULFIDE	<500	ug/L	100	500	5

Report Notes: J, E, O-2

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mark DeJohn
Baker Environmental, Inc.
AOP #3
420 Royser Road
Coraopolis, PA 15108

Proj. ID: MCB CAMP LEJEUNE SITE 88/CTO-3

Lab Number: WQ1404-2
SDG: WQ1404
Report Date: 5/26/00
PO No. : 356-06200
Project: N62470-89-D-4814
% Solids: N/A
Method: SW8260
Date Analyzed: 5/19/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
IR88-RW02-00B	AQ	5/16/00	5/18/00	5/19/00	BEM	5030	BEM

Compound	Result	Units	DF	Sample PQL	Method PQL
TOTAL 1,2-DICHLOROETHENE	1200	ug/L	100	500	5
TOTAL XYLENES	<500	ug/L	100	500	5
DIBROMOFLUOROMETHANE	105	%	100		
1,2-DICHLOROETHANE-D4	103	%	100		
TOLUENE-D8	100	%	100		
P-BROMOFLUOROBENZENE	86	%	100		

Report Notes: J, E, O-2

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample No

IR88-RW02-00B

Lab Name: Katahdin Analytical Services SDG No.: WQ1404

Matrix: (Soil/Water) Water

Sample wt/vol: 0.0500 ml

Level: (low/med) low

% Moisture: not dec.

GC Column: RTX-624 ID: 0.18 (mm)

Soil Extract Volume: (ml)

Lab Sample ID: WQ1404-2

Lab File ID: U4280

Date Received: 05/18/00

Date Analyzed: 05/19/00

Dilution Factor: 100

Concentration Units: ug/L

Soil Aliquot Volume:

Number of TIC's Found: 1

	CAS NO.	COMPOUND	R.T.	EST. CONC	Q
1	000067-63-0	Isopropyl Alcohol	6.76	43000	JN
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mark DeJohn
Baker Environmental, Inc.
AOP #3
420 Royser Road
Coraopolis, PA 15108

Proj. ID: MCB CAMP LEJEUNE SITE 88/CTO-3

Lab Number: WQ1404-2DL
SDG: WQ1404
Report Date: 5/26/00
PO No. : 356-06200
Project: N62470-89-D-4814
% Solids: N/A
Method: SW8260
Date Analyzed: 5/19/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
IR88-RW02-00B	AQ	5/16/00	5/18/00	5/19/00	BEM	5030	BEM

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<5000	ug/L	1000	5000	5
VINYL CHLORIDE	<2000	ug/L	1000	2000	2
BROMOMETHANE	<5000	ug/L	1000	5000	5
CHLOROETHANE	<5000	ug/L	1000	5000	5
1,1-DICHLOROETHENE	<5000	ug/L	1000	5000	5
METHYLENE CHLORIDE	J2800	ug/L	1000	5000	5
1,2-DICHLOROETHENE (TRANS)	<5000	ug/L	1000	5000	5
1,1-DICHLOROETHANE	<5000	ug/L	1000	5000	5
1,2-DICHLOROETHENE (CIS)	<5000	ug/L	1000	5000	5
CHLOROFORM	<5000	ug/L	1000	5000	5
1,1,1-TRICHLOROETHANE	<5000	ug/L	1000	5000	5
1,2-DICHLOROETHANE	<5000	ug/L	1000	5000	5
CARBON TETRACHLORIDE	<5000	ug/L	1000	5000	5
BENZENE	<5000	ug/L	1000	5000	5
1,2-DICHLOROPROPANE	<5000	ug/L	1000	5000	5
TRICHLOROETHENE	89000	ug/L	1000	5000	5
BROMODICHLOROMETHANE	<5000	ug/L	1000	5000	5
CIS-1,3-DICHLOROPROPENE	<5000	ug/L	1000	5000	5
TOLUENE	<5000	ug/L	1000	5000	5
TRANS-1,3-DICHLOROPROPENE	<5000	ug/L	1000	5000	5
1,1,2-TRICHLOROETHANE	<5000	ug/L	1000	5000	5
DIBROMOCHLOROMETHANE	<5000	ug/L	1000	5000	5
TETRACHLOROETHENE	89000	ug/L	1000	5000	5
CHLOROBENZENE	<5000	ug/L	1000	5000	5
ETHYLBENZENE	<5000	ug/L	1000	5000	5
BROMOFORM	<5000	ug/L	1000	5000	5
STYRENE	<5000	ug/L	1000	5000	5
1,1,2,2-TETRACHLOROETHANE	<5000	ug/L	1000	5000	5
ACETONE	73000	ug/L	1000	10000	10
2-BUTANONE	<10000	ug/L	1000	10000	10
4-METHYL-2-PENTANONE	<10000	ug/L	1000	10000	10
2-HEXANONE	<10000	ug/L	1000	10000	10
CARBON DISULFIDE	<5000	ug/L	1000	5000	5

Report Notes: J, O-2

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mark DeJohn
Baker Environmental, Inc.
AOP #3
420 Royser Road
Coraopolis, PA 15108

Proj. ID: MCB CAMP LEJEUNE SITE 88/CTO-3

Lab Number: WQ1404-2DL
SDG: WQ1404
Report Date: 5/26/00
PO No. : 356-06200
Project: N62470-89-D-4814
% Solids: N/A
Method: SW8260
Date Analyzed: 5/19/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
IR88-RW02-00B	AQ	5/16/00	5/18/00	5/19/00	BEM	5030	BEM

Compound	Result	Units	DF	Sample PQL	Method PQL
TOTAL 1,2-DICHLOROETHENE	<5000	ug/L	1000	5000	5
TOTAL XYLENES	<5000	ug/L	1000	5000	5
DIBROMOFLUOROMETHANE	80	%	1000		
1,2-DICHLOROETHANE-D4	80	%	1000		
TOLUENE-D8	94	%	1000		
P-BROMOFLUOROBENZENE	77	%	1000		

Report Notes: J, O-2

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample No

IR88-RW02-00B

Lab Name: Katahdin Analytical Services SDG No.: WQ1404

Matrix: (Soil/Water) Water

Sample wt/vol: 0.00500

Level: (low/med) low

% Moisture: not dec.

GC Column: RTX-624 ID: 0.18 (mm)

Soil Extract Volume: (ml)

Lab Sample ID: WQ1404-2DL

Lab File ID: U4292

Date Received: 05/18/00

Date Analyzed: 05/19/00

Dilution Factor: 1000

Concentration Units: ug/L

Soil Aliquot Volume:

Number of TIC's Found: 4

	CAS NO.	COMPOUND	R.T.	EST. CONC	Q
1	000104-76-7	1-Hexanol, 2-ethyl-	25.07	5400	JNB
2		Trichlorobenzene Isomer	28.99	11000	J
3	001680-51-9	Naphthalene, 1,2,3,4-tetrahydro-	29.55	7700	JN
4	000067-63-0	Isopropyl Alcohol	6.72	37000	JN
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mark DeJohn
Baker Environmental, Inc.
AOP #3
420 Royser Road
Coraopolis, PA 15108

Proj. ID: MCB CAMP LEJEUNE SITE 88/CTO-3

Lab Number: WQ1404-3
SDG: WQ1404
Report Date: 5/26/00
PO No. : 356-06200
Project: N62470-89-D-4814
% Solids: N/A
Method: SW8260
Date Analyzed: 5/19/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
IR88-GW10IW-00B	AQ	5/16/00	5/18/00	5/19/00	BEM	5030	BEM

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<5	ug/L	1.0	5	5
VINYL CHLORIDE	<2	ug/L	1.0	2	2
BROMOMETHANE	<5	ug/L	1.0	5	5
CHLOROETHANE	<5	ug/L	1.0	5	5
1,1-DICHLOROETHENE	<5	ug/L	1.0	5	5
METHYLENE CHLORIDE	<5	ug/L	1.0	5	5
1,2-DICHLOROETHENE (TRANS)	<5	ug/L	1.0	5	5
1,1-DICHLOROETHANE	<5	ug/L	1.0	5	5
1,2-DICHLOROETHENE (CIS)	44	ug/L	1.0	5	5
CHLOROFORM	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<5	ug/L	1.0	5	5
1,2-DICHLOROETHANE	<5	ug/L	1.0	5	5
CARBON TETRACHLORIDE	<5	ug/L	1.0	5	5
BENZENE	<5	ug/L	1.0	5	5
1,2-DICHLOROPROPANE	<5	ug/L	1.0	5	5
TRICHLOROETHENE	160	ug/L	1.0	5	5
BROMODICHLOROMETHANE	<5	ug/L	1.0	5	5
CIS-1,3-DICHLOROPROPENE	<5	ug/L	1.0	5	5
TOLUENE	<5	ug/L	1.0	5	5
TRANS-1,3-DICHLOROPROPENE	<5	ug/L	1.0	5	5
1,1,2-TRICHLOROETHANE	<5	ug/L	1.0	5	5
DIBROMOCHLOROMETHANE	<5	ug/L	1.0	5	5
TETRACHLOROETHENE	E540	ug/L	1.0	5	5
CHLOROBENZENE	<5	ug/L	1.0	5	5
ETHYLBENZENE	<5	ug/L	1.0	5	5
BROMOFORM	<5	ug/L	1.0	5	5
STYRENE	<5	ug/L	1.0	5	5
1,1,2,2-TETRACHLOROETHANE	<5	ug/L	1.0	5	5
ACETONE	<10	ug/L	1.0	10	10
2-BUTANONE	<10	ug/L	1.0	10	10
4-METHYL-2-PENTANONE	<10	ug/L	1.0	10	10
2-HEXANONE	<10	ug/L	1.0	10	10
CARBON DISULFIDE	<5	ug/L	1.0	5	5

Report Notes: E

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mark DeJohn
Baker Environmental, Inc.
AOP #3
420 Royser Road
Coraopolis, PA 15108

Proj. ID: MCB CAMP LEJEUNE SITE 88/CTO-3

Lab Number: WQ1404-3
SDG: WQ1404
Report Date: 5/26/00
PO No. : 356-06200
Project: N62470-89-D-4814
% Solids: N/A
Method: SW8260
Date Analyzed: 5/19/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
IR88-GW10IW-00B	AQ	5/16/00	5/18/00	5/19/00	BEM	5030	BEM

Compound	Result	Units	DF	Sample PQL	Method PQL
TOTAL 1,2-DICHLOROETHENE	44	ug/L	1.0	5	5
TOTAL XYLENES	<5	ug/L	1.0	5	5
DIBROMOFLUOROMETHANE	108	%	1.0		
1,2-DICHLOROETHANE-D4	107	%	1.0		
TOLUENE-D8	98	%	1.0		
P-BROMOFLUOROBENZENE	84	%	1.0		

Report Notes: E

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample No

IR88-GW10IW-00B

Lab Name: Katahdin Analytical Services SDG No.: WQ1404

Matrix: (Soil/Water) Water

Sample wt/vol: 5.00 ml

Level: (low/med) low

% Moisture: not dec.

GC Column: RTX-624 ID: 0.18 (mm)

Soil Extract Volume: (ml)

Lab Sample ID: WQ1404-3

Lab File ID: U4283

Date Received: 05/18/00

Date Analyzed: 05/19/00

Dilution Factor: 1.0

Concentration Units: ug/L

Soil Aliquot Volume:

Number of TIC's Found: 1

	CAS NO.	COMPOUND	R.T.	EST. CONC	Q
1	000067-63-0	Isopropyl Alcohol	6.81	1800	JN
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mark DeJohn
Baker Environmental, Inc.
AOP #3
420 Royser Road
Coraopolis, PA 15108

Proj. ID: MCB CAMP LEJEUNE SITE 88/CTO-3

Lab Number: WQ1404-3DL
SDG: WQ1404
Report Date: 5/26/00
PO No. : 356-06200
Project: N62470-89-D-4814
% Solids: N/A
Method: SW8260
Date Analyzed: 5/20/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
IR88-GW10IW-00B	AQ	5/16/00	5/18/00	5/20/00	BEM	5030	BEM

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<25	ug/L	5.0	25	5
VINYL CHLORIDE	<10	ug/L	5.0	10	2
BROMOMETHANE	<25	ug/L	5.0	25	5
CHLOROETHANE	<25	ug/L	5.0	25	5
1,1-DICHLOROETHENE	<25	ug/L	5.0	25	5
METHYLENE CHLORIDE	<25	ug/L	5.0	25	5
1,2-DICHLOROETHENE (TRANS)	<25	ug/L	5.0	25	5
1,1-DICHLOROETHANE	<25	ug/L	5.0	25	5
1,2-DICHLOROETHENE (CIS)	J22	ug/L	5.0	25	5
CHLOROFORM	<25	ug/L	5.0	25	5
1,1,1-TRICHLOROETHANE	<25	ug/L	5.0	25	5
1,2-DICHLOROETHANE	<25	ug/L	5.0	25	5
CARBON TETRACHLORIDE	<25	ug/L	5.0	25	5
BENZENE	<25	ug/L	5.0	25	5
1,2-DICHLOROPROPANE	<25	ug/L	5.0	25	5
TRICHLOROETHENE	140	ug/L	5.0	25	5
BROMODICHLOROMETHANE	<25	ug/L	5.0	25	5
CIS-1,3-DICHLOROPROPENE	<25	ug/L	5.0	25	5
TOLUENE	<25	ug/L	5.0	25	5
TRANS-1,3-DICHLOROPROPENE	<25	ug/L	5.0	25	5
1,1,2-TRICHLOROETHANE	<25	ug/L	5.0	25	5
DIBROMOCHLOROMETHANE	<25	ug/L	5.0	25	5
TETRACHLOROETHENE	290	ug/L	5.0	25	5
CHLOROBENZENE	<25	ug/L	5.0	25	5
ETHYLBENZENE	<25	ug/L	5.0	25	5
BROMOFORM	<25	ug/L	5.0	25	5
STYRENE	<25	ug/L	5.0	25	5
1,1,2,2-TETRACHLOROETHANE	<25	ug/L	5.0	25	5
ACETONE	<50	ug/L	5.0	50	10
2-BUTANONE	<50	ug/L	5.0	50	10
4-METHYL-2-PENTANONE	<50	ug/L	5.0	50	10
2-HEXANONE	<50	ug/L	5.0	50	10
CARBON DISULFIDE	<25	ug/L	5.0	25	5

Report Notes: J, O-2

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mark DeJohn
Baker Environmental, Inc.
AOP #3
420 Royser Road
Coraopolis, PA 15108

Proj. ID: MCB CAMP LEJEUNE SITE 88/CTO-3

Lab Number: WQ1404-3DL
SDG: WQ1404
Report Date: 5/26/00
PO No. : 356-06200
Project: N62470-89-D-4814
% Solids: N/A
Method: SW8260
Date Analyzed: 5/20/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
IR88-GW10IW-00B	AQ	5/16/00	5/18/00	5/20/00	BEM	5030	BEM

Compound	Result	Units	DF	Sample PQL	Method PQL
TOTAL 1,2-DICHLOROETHENE	J22	ug/L	5.0	25	5
TOTAL XYLENES	<25	ug/L	5.0	25	5
DIBROMOFLUOROMETHANE	106	%	5.0		
1,2-DICHLOROETHANE-D4	104	%	5.0		
TOLUENE-D8	97	%	5.0		
P-BROMOFLUOROBENZENE	82	%	5.0		

Report Notes: J, O-2

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample No

IR88-GW10IW-00B

Lab Name: Katahdin Analytical Services SDG No.: WQ1404

Matrix: (Soil/Water) Water

Sample wt/vol: 1.00 ml

Level: (low/med) low

% Moisture: not dec.

GC Column: RTX-624 ID: 0.18 (mm)

Soil Extract Volume: (ml)

Lab Sample ID: WQ1404-3DL

Lab File ID: U4309

Date Received: 05/18/00

Date Analyzed: 05/20/00

Dilution Factor: 5.0

Concentration Units: ug/L

Soil Aliquot Volume:

Number of TIC's Found: 28

	CAS NO.	COMPOUND	R.T.	EST. CONC	Q
1	000067-63-0	Isopropyl Alcohol	6.76	34	JN
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mark DeJohn
Baker Environmental, Inc.
AOP #3
420 Royser Road
Coraopolis, PA 15108

Proj. ID: MCB CAMP LEJEUNE SITE 88/CTO-3

Lab Number: WQ1404-4
SDG: WQ1404
Report Date: 5/26/00
PO No. : 356-06200
Project: N62470-89-D-4814
% Solids: N/A
Method: SW8260
Date Analyzed: 5/19/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
IR88-GW10IWD-00B	AQ	5/16/00	5/18/00	5/19/00	BEM	5030	BEM

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<5	ug/L	1.0	5	5
VINYL CHLORIDE	<2	ug/L	1.0	2	2
BROMOMETHANE	<5	ug/L	1.0	5	5
CHLOROETHANE	<5	ug/L	1.0	5	5
1,1-DICHLOROETHENE	<5	ug/L	1.0	5	5
METHYLENE CHLORIDE	<5	ug/L	1.0	5	5
1,2-DICHLOROETHENE (TRANS)	<5	ug/L	1.0	5	5
1,1-DICHLOROETHANE	<5	ug/L	1.0	5	5
1,2-DICHLOROETHENE (CIS)	28	ug/L	1.0	5	5
CHLOROFORM	<5	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<5	ug/L	1.0	5	5
1,2-DICHLOROETHANE	<5	ug/L	1.0	5	5
CARBON TETRACHLORIDE	<5	ug/L	1.0	5	5
BENZENE	<5	ug/L	1.0	5	5
1,2-DICHLOROPROPANE	<5	ug/L	1.0	5	5
TRICHLOROETHENE	170	ug/L	1.0	5	5
BROMODICHLOROMETHANE	<5	ug/L	1.0	5	5
CIS-1,3-DICHLOROPROPENE	<5	ug/L	1.0	5	5
TOLUENE	<5	ug/L	1.0	5	5
TRANS-1,3-DICHLOROPROPENE	<5	ug/L	1.0	5	5
1,1,2-TRICHLOROETHANE	<5	ug/L	1.0	5	5
DIBROMOCHLOROMETHANE	<5	ug/L	1.0	5	5
TETRACHLOROETHENE	E450	ug/L	1.0	5	5
CHLOROBENZENE	<5	ug/L	1.0	5	5
ETHYLBENZENE	<5	ug/L	1.0	5	5
BROMOFORM	<5	ug/L	1.0	5	5
STYRENE	<5	ug/L	1.0	5	5
1,1,2,2-TETRACHLOROETHANE	<5	ug/L	1.0	5	5
ACETONE	<10	ug/L	1.0	10	10
2-BUTANONE	<10	ug/L	1.0	10	10
4-METHYL-2-PENTANONE	<10	ug/L	1.0	10	10
2-HEXANONE	<10	ug/L	1.0	10	10
CARBON DISULFIDE	<5	ug/L	1.0	5	5

Report Notes: E

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mark DeJohn
Baker Environmental, Inc.
AOP #3
420 Royser Road
Coraopolis, PA 15108

Proj. ID: MCB CAMP LEJEUNE SITE 88/CTO-3

Lab Number: WQ1404-4
SDG: WQ1404
Report Date: 5/26/00
PO No. : 356-06200
Project: N62470-89-D-4814
% Solids: N/A
Method: SW8260
Date Analyzed: 5/19/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
IR88-GW10IWD-00B	AQ	5/16/00	5/18/00	5/19/00	BEM	5030	BEM

Compound	Result	Units	DF	Sample PQL	Method PQL
TOTAL 1,2-DICHLOROETHENE	28	ug/L	1.0	5	5
TOTAL XYLENES	<5	ug/L	1.0	5	5
DIBROMOFLUOROMETHANE	97	%	1.0		
1,2-DICHLOROETHANE-D4	97	%	1.0		
TOLUENE-D8	95	%	1.0		
P-BROMOFLUOROBENZENE	78	%	1.0		

Report Notes: E

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample No

IR88-GW10IWD-00B

Lab Name: Katahdin Analytical Services SDG No.: WQ1404

Matrix: (Soil/Water) Water

Sample wt/vol: 5.00 ml

Level: (low/med) low

% Moisture: not dec.

GC Column: RTX-624 ID: 0.18 (mm)

Soil Extract Volume: (ml)

Lab Sample ID: WQ1404-4

Lab File ID: U4284

Date Received: 05/18/00

Date Analyzed: 05/19/00

Dilution Factor: 1.0

Concentration Units: ug/L

Soil Aliquot Volume:

Number of TIC's Found: 28

	CAS NO.	COMPOUND	R.T.	EST. CONC	Q
1	000067-63-0	Isopropyl Alcohol	6.75	80	JN
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mark DeJohn
Baker Environmental, Inc.
AOP #3
420 Royser Road
Coraopolis, PA 15108

Proj. ID: MCB CAMP LEJEUNE SITE 88/CTO-3

Lab Number: WQ1404-4DL
SDG: WQ1404
Report Date: 5/26/00
PO No. : 356-06200
Project: N62470-89-D-4814
% Solids: N/A
Method: SW8260
Date Analyzed: 5/20/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
IR88-GW10IWD-00B	AQ	5/16/00	5/18/00	5/20/00	BEM	5030	BEM

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<25	ug/L	5.0	25	5
VINYL CHLORIDE	<10	ug/L	5.0	10	2
BROMOMETHANE	<25	ug/L	5.0	25	5
CHLOROETHANE	<25	ug/L	5.0	25	5
1,1-DICHLOROETHENE	<25	ug/L	5.0	25	5
METHYLENE CHLORIDE	<25	ug/L	5.0	25	5
1,2-DICHLOROETHENE (TRANS)	<25	ug/L	5.0	25	5
1,1-DICHLOROETHANE	<25	ug/L	5.0	25	5
1,2-DICHLOROETHENE (CIS)	43	ug/L	5.0	25	5
CHLOROFORM	<25	ug/L	5.0	25	5
1,1,1-TRICHLOROETHANE	<25	ug/L	5.0	25	5
1,2-DICHLOROETHANE	<25	ug/L	5.0	25	5
CARBON TETRACHLORIDE	<25	ug/L	5.0	25	5
BENZENE	<25	ug/L	5.0	25	5
1,2-DICHLOROPROPANE	<25	ug/L	5.0	25	5
TRICHLOROETHENE	140	ug/L	5.0	25	5
BROMODICHLOROMETHANE	<25	ug/L	5.0	25	5
CIS-1,3-DICHLOROPROPENE	<25	ug/L	5.0	25	5
TOLUENE	<25	ug/L	5.0	25	5
TRANS-1,3-DICHLOROPROPENE	<25	ug/L	5.0	25	5
1,1,2-TRICHLOROETHANE	<25	ug/L	5.0	25	5
DIBROMOCHLOROMETHANE	<25	ug/L	5.0	25	5
TETRACHLOROETHENE	280	ug/L	5.0	25	5
CHLOROBENZENE	<25	ug/L	5.0	25	5
ETHYLBENZENE	<25	ug/L	5.0	25	5
BROMOFORM	<25	ug/L	5.0	25	5
STYRENE	<25	ug/L	5.0	25	5
1,1,2,2-TETRACHLOROETHANE	<25	ug/L	5.0	25	5
ACETONE	<50	ug/L	5.0	50	10
2-BUTANONE	<50	ug/L	5.0	50	10
4-METHYL-2-PENTANONE	<50	ug/L	5.0	50	10
2-HEXANONE	<50	ug/L	5.0	50	10
CARBON DISULFIDE	<25	ug/L	5.0	25	5

Report Notes: O-2

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mark DeJohn
Baker Environmental, Inc.
AOP #3
420 Royser Road
Coraopolis, PA 15108

Proj. ID: MCB CAMP LEJEUNE SITE 88/CTO-3

Lab Number: WQ1404-4DL
SDG: WQ1404
Report Date: 5/26/00
PO No. : 356-06200
Project: N62470-89-D-4814
% Solids: N/A
Method: SW8260
Date Analyzed: 5/20/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
IR88-GW10IWD-00B	AQ	5/16/00	5/18/00	5/20/00	BEM	5030	BEM

Compound	Result	Units	DF	Sample PQL	Method PQL
TOTAL 1,2-DICHLOROETHENE	43	ug/L	5.0	25	5
TOTAL XYLENES	<25	ug/L	5.0	25	5
DIBROMOFLUOROMETHANE	105	%	5.0		
1,2-DICHLOROETHANE-D4	101	%	5.0		
TOLUENE-D8	97	%	5.0		
P-BROMOFLUOROBENZENE	84	%	5.0		

Report Notes: O-2

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample No.

IR88-GW10IWD-00B

Lab Name: Katahdin Analytical Services SDG No.: WQ1404

Matrix: (Soil/Water) Water

Sample wt/vol: 1.00 ml

Level: (low/med) low

% Moisture: not dec.

GC Column: RTX-624 ID: 0.18 (mm)

Soil Extract Volume: (ml)

Lab Sample ID: WQ1404-4DL

Lab File ID: U4310

Date Received: 05/18/00

Date Analyzed: 05/20/00

Dilution Factor: 5.0

Concentration Units: ug/L

Soil Aliquot Volume:

Number of TIC's Found: 0

	CAS NO.	COMPOUND	R.T.	EST. CONC	Q
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mark DeJohn
Baker Environmental, Inc.
AOP #3
420 Royser Road
Coraopolis, PA 15108

Proj. ID: MCB CAMP LEJEUNE SITE 88/CTO-3

Lab Number: WQ1404-5
SDG: WQ1404
Report Date: 6/8/00
PO No. : 356-06200
Project: N62470-89-D-4814
% Solids: N/A
Method: SW8260
Date Analyzed: 5/19/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
ML2T	AQ	5/16/00	5/18/00	5/19/00	BEM	5030	BEM

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<500	ug/L	100	500	5
VINYL CHLORIDE	<200	ug/L	100	200	2
BROMOMETHANE	<500	ug/L	100	500	5
CHLOROETHANE	<500	ug/L	100	500	5
1,1-DICHLOROETHENE	<500	ug/L	100	500	5
METHYLENE CHLORIDE	<500	ug/L	100	500	5
1,2-DICHLOROETHENE (TRANS)	<500	ug/L	100	500	5
1,1-DICHLOROETHANE	<500	ug/L	100	500	5
1,2-DICHLOROETHENE (CIS)	<500	ug/L	100	500	5
CHLOROFORM	<500	ug/L	100	500	5
1,1,1-TRICHLOROETHANE	<500	ug/L	100	500	5
1,2-DICHLOROETHANE	<500	ug/L	100	500	5
CARBON TETRACHLORIDE	<500	ug/L	100	500	5
BENZENE	<500	ug/L	100	500	5
1,2-DICHLOROPROPANE	<500	ug/L	100	500	5
TRICHLOROETHENE	640	ug/L	100	500	5
BROMODICHLOROMETHANE	<500	ug/L	100	500	5
CIS-1,3-DICHLOROPROPENE	<500	ug/L	100	500	5
TOLUENE	<500	ug/L	100	500	5
TRANS-1,3-DICHLOROPROPENE	<500	ug/L	100	500	5
1,1,2-TRICHLOROETHANE	<500	ug/L	100	500	5
DIBROMOCHLOROMETHANE	<500	ug/L	100	500	5
TETRACHLOROETHENE	2300	ug/L	100	500	5
CHLOROBENZENE	<500	ug/L	100	500	5
ETHYLBENZENE	<500	ug/L	100	500	5
BROMOFORM	<500	ug/L	100	500	5
STYRENE	<500	ug/L	100	500	5
1,1,2,2-TETRACHLOROETHANE	<500	ug/L	100	500	5
ACETONE	E54000	ug/L	100	1000	10
2-BUTANONE	J560	ug/L	100	1000	10
4-METHYL-2-PENTANONE	<1000	ug/L	100	1000	10
2-HEXANONE	<1000	ug/L	100	1000	10
CARBON DISULFIDE	<500	ug/L	100	500	5

Report Notes: J, E, O-2

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mark DeJohn
Baker Environmental, Inc.
AOP #3
420 Royser Road
Coraopolis, PA 15108

Proj. ID: MCB CAMP LEJEUNE SITE 88/CTO-3

Lab Number: WQ1404-5
SDG: WQ1404
Report Date: 6/8/00
PO No.: 356-06200
Project: N62470-89-D-4814
% Solids: N/A
Method: SW8260
Date Analyzed: 5/19/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
ML2T	AQ	5/16/00	5/18/00	5/19/00	BEM	5030	BEM

Compound	Result	Units	DF	Sample PQL	Method PQL
TOTAL 1,2-DICHLOROETHENE	<500	ug/L	100	500	5
TOTAL XYLENES	<500	ug/L	100	500	5
DIBROMOFLUOROMETHANE	102	%	100		
1,2-DICHLOROETHANE-D4	79	%	100		
TOLUENE-D8	101	%	100		
P-BROMOFLUOROBENZENE	86	%	100		

Report Notes: J, E, O-2

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample No

ML2T

Lab Name: Katahdin Analytical Services SDG No.: WQ1404

Matrix: (Soil/Water) Water

Sample wt/vol: 0.0500 ml

Level: (low/med) low

% Moisture: not dec.

GC Column: RTX-624 ID: 0.18 (mm)

Soil Extract Volume: (ml)

Lab Sample ID: WQ1404-5

Lab File ID: U4281

Date Received: 05/18/00

Date Analyzed: 05/19/00

Dilution Factor: 100

Concentration Units: ug/L

Soil Aliquot Volume:

Number of TIC's Found: 1

	CAS NO.	COMPOUND	R.T.	EST. CONC	Q
1	000067-63-0	Isopropyl Alcohol	6.75	31000	JN
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mark DeJohn
Baker Environmental, Inc.
AOP #3
420 Royser Road
Coraopolis, PA 15108

Proj. ID: MCB CAMP LEJEUNE SITE 88/CTO-3

Lab Number: WQ1404-5DL
SDG: WQ1404
Report Date: 5/26/00
PO No. : 356-06200
Project: N62470-89-D-4814
% Solids: N/A
Method: SW8260
Date Analyzed: 5/20/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
ML2T	AQ	5/16/00	5/18/00	5/20/00	BEM	5030	BEM

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<5000	ug/L	1000	5000	5
VINYL CHLORIDE	<2000	ug/L	1000	2000	2
BROMOMETHANE	<5000	ug/L	1000	5000	5
CHLOROETHANE	<5000	ug/L	1000	5000	5
1,1-DICHLOROETHENE	<5000	ug/L	1000	5000	5
METHYLENE CHLORIDE	<5000	ug/L	1000	5000	5
1,2-DICHLOROETHENE (TRANS)	<5000	ug/L	1000	5000	5
1,1-DICHLOROETHANE	<5000	ug/L	1000	5000	5
1,2-DICHLOROETHENE (CIS)	<5000	ug/L	1000	5000	5
CHLOROFORM	<5000	ug/L	1000	5000	5
1,1,1-TRICHLOROETHANE	<5000	ug/L	1000	5000	5
1,2-DICHLOROETHANE	<5000	ug/L	1000	5000	5
CARBON TETRACHLORIDE	<5000	ug/L	1000	5000	5
BENZENE	<5000	ug/L	1000	5000	5
1,2-DICHLOROPROPANE	<5000	ug/L	1000	5000	5
TRICHLOROETHENE	<5000	ug/L	1000	5000	5
BROMODICHLOROMETHANE	<5000	ug/L	1000	5000	5
CIS-1,3-DICHLOROPROPENE	<5000	ug/L	1000	5000	5
TOLUENE	<5000	ug/L	1000	5000	5
TRANS-1,3-DICHLOROPROPENE	<5000	ug/L	1000	5000	5
1,1,2-TRICHLOROETHANE	<5000	ug/L	1000	5000	5
DIBROMOCHLOROMETHANE	<5000	ug/L	1000	5000	5
TETRACHLOROETHENE	J2500	ug/L	1000	5000	5
CHLOROBENZENE	<5000	ug/L	1000	5000	5
ETHYLBENZENE	<5000	ug/L	1000	5000	5
BROMOFORM	<5000	ug/L	1000	5000	5
STYRENE	<5000	ug/L	1000	5000	5
1,1,2,2-TETRACHLOROETHANE	<5000	ug/L	1000	5000	5
ACETONE	54000	ug/L	1000	10000	10
2-BUTANONE	<10000	ug/L	1000	10000	10
4-METHYL-2-PENTANONE	<10000	ug/L	1000	10000	10
2-HEXANONE	<10000	ug/L	1000	10000	10
CARBON DISULFIDE	<5000	ug/L	1000	5000	5

Report Notes: J, O-2

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mark DeJohn
Baker Environmental, Inc.
AOP #3
420 Royser Road
Coraopolis, PA 15108

Proj. ID: MCB CAMP LEJEUNE SITE 88/CTO-3

Lab Number: WQ1404-5DL
SDG: WQ1404
Report Date: 5/26/00
PO No. : 356-06200
Project: N62470-89-D-4814
% Solids: N/A
Method: SW8260
Date Analyzed: 5/20/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
ML2T	AQ	5/16/00	5/18/00	5/20/00	BEM	5030	BEM

Compound	Result	Units	DF	Sample PQL	Method PQL
TOTAL 1,2-DICHLOROETHENE	<5000	ug/L	1000	5000	5
TOTAL XYLENES	<5000	ug/L	1000	5000	5
DIBROMOFLUOROMETHANE	100	%	1000		
1,2-DICHLOROETHANE-D4	98	%	1000		
TOLUENE-D8	95	%	1000		
P-BROMOFLUOROBENZENE	83	%	1000		

Report Notes: J, O-2

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample No.

ML2T

Lab Name: Katahdin Analytical Services SDG No.: WQ1404

Matrix: (Soil/Water) Water

Sample wt/vol: 0.00500

Level: (low/med) low

% Moisture: not dec.

GC Column: RTX-624 ID: 0.18 (mm)

Soil Extract Volume: (ml)

Lab Sample ID: WQ1404-5DL

Lab File ID: U4305

Date Received: 05/18/00

Date Analyzed: 05/20/00

Dilution Factor: 1000

Concentration Units: ug/L

Soil Aliquot Volume:

Number of TIC's Found: 5

	CAS NO.	COMPOUND	R.T.	EST. CONC	Q
1		Trichlorobenzene Isomer	28.11	5600	J
2	000087-68-3	1,3-Butadiene, 1,1,2,3,4,4-hexa	28.29	5800	JN
3	000091-20-3	Naphthalene	28.55	7100	JN
4		Trichlorobenzene Isomer	28.98	19000	J
5	000067-63-0	Isopropyl Alcohol	6.72	20000	JN
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mark DeJohn
Baker Environmental, Inc.
AOP #3
420 Royser Road
Coraopolis, PA 15108

Proj. ID: MCB CAMP LEJEUNE SITE 88/CTO-3

Lab Number: WQ1404-6
SDG: WQ1404
Report Date: 6/8/00
PO No. : 356-06200
Project: N62470-89-D-4814
% Solids: N/A
Method: SW8260
Date Analyzed: 5/19/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
ML2M	AQ	5/16/00	5/18/00	5/19/00	BEM	5030	BEM

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<500	ug/L	100	500	5
VINYL CHLORIDE	<200	ug/L	100	200	2
BROMOMETHANE	<500	ug/L	100	500	5
CHLOROETHANE	<500	ug/L	100	500	5
1,1-DICHLOROETHENE	J400	ug/L	100	500	5
METHYLENE CHLORIDE	<500	ug/L	100	500	5
1,2-DICHLOROETHENE (TRANS)	<500	ug/L	100	500	5
1,1-DICHLOROETHANE	<500	ug/L	100	500	5
1,2-DICHLOROETHENE (CIS)	1200	ug/L	100	500	5
CHLOROFORM	<500	ug/L	100	500	5
1,1,1-TRICHLOROETHANE	<500	ug/L	100	500	5
1,2-DICHLOROETHANE	<500	ug/L	100	500	5
CARBON TETRACHLORIDE	<500	ug/L	100	500	5
BENZENE	<500	ug/L	100	500	5
1,2-DICHLOROPROPANE	<500	ug/L	100	500	5
TRICHLOROETHENE	1000	ug/L	100	500	5
BROMODICHLOROMETHANE	<500	ug/L	100	500	5
CIS-1,3-DICHLOROPROPENE	<500	ug/L	100	500	5
TOLUENE	<500	ug/L	100	500	5
TRANS-1,3-DICHLOROPROPENE	<500	ug/L	100	500	5
1,1,2-TRICHLOROETHANE	<500	ug/L	100	500	5
DIBROMOCHLOROMETHANE	<500	ug/L	100	500	5
TETRACHLOROETHENE	E1300000	ug/L	100	500	5
CHLOROBENZENE	<500	ug/L	100	500	5
ETHYLBENZENE	<500	ug/L	100	500	5
BROMOFORM	<500	ug/L	100	500	5
STYRENE	<500	ug/L	100	500	5
1,1,2,2-TETRACHLOROETHANE	<500	ug/L	100	500	5
ACETONE	4800	ug/L	100	1000	10
2-BUTANONE	<1000	ug/L	100	1000	10
4-METHYL-2-PENTANONE	<1000	ug/L	100	1000	10
2-HEXANONE	<1000	ug/L	100	1000	10
CARBON DISULFIDE	<500	ug/L	100	500	5

Report Notes: J, E, O-2

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mark DeJohn
Baker Environmental, Inc.
AOP #3
420 Royser Road
Coraopolis, PA 15108

Proj. ID: MCB CAMP LEJEUNE SITE 88/CTO-3

Lab Number: WQ1404-6
SDG: WQ1404
Report Date: 6/8/00
PO No. : 356-06200
Project: N62470-89-D-4814
% Solids: N/A
Method: SW8260
Date Analyzed: 5/19/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
ML2M	AQ	5/16/00	5/18/00	5/19/00	BEM	5030	BEM

Compound	Result	Units	DF	Sample PQL	Method PQL
TOTAL 1,2-DICHLOROETHENE	1200	ug/L	100	500	5
TOTAL XYLENES	<500	ug/L	100	500	5
DIBROMOFLUOROMETHANE	112	%	100		
1,2-DICHLOROETHANE-D4	112	%	100		
TOLUENE-D8	100	%	100		
P-BROMOFLUOROBENZENE	105	%	100		

Report Notes: J, E, O-2

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample No.

ML2M

Lab Name: Katahdin Analytical Services SDG No.: WQ1404

Matrix: (Soil/Water) Water

Sample wt/vol: 0.0500 ml

Level: (low/med) low

% Moisture: not dec.

GC Column: RTX-624 ID: 0.18 (mm)

Soil Extract Volume: (ml)

Lab Sample ID: WQ1404-6

Lab File ID: U4282

Date Received: 05/18/00

Date Analyzed: 05/19/00

Dilution Factor: 100

Concentration Units: ug/L

Soil Aliquot Volume:

Number of TIC's Found: 1

	CAS NO.	COMPOUND	R.T.	EST. CONC	Q
1	000067-63-0	Isopropyl Alcohol	6.79	530	JN
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mark DeJohn
Baker Environmental, Inc.
AOP #3
420 Royser Road
Coraopolis, PA 15108

Proj. ID: MCB CAMP LEJEUNE SITE 88/CTO-3

Lab Number: WQ1404-6DL
SDG: WQ1404
Report Date: 5/26/00
PO No. : 356-06200
Project: N62470-89-D-4814
% Solids: N/A
Method: SW8260
Date Analyzed: 5/20/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
ML2M	AQ	5/16/00	5/18/00	5/20/00	BEM	5030	BEM

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<50000	ug/L	10000	50000	5
VINYL CHLORIDE	<20000	ug/L	10000	20000	2
BROMOMETHANE	<50000	ug/L	10000	50000	5
CHLOROETHANE	<50000	ug/L	10000	50000	5
1,1-DICHLOROETHENE	<50000	ug/L	10000	50000	5
METHYLENE CHLORIDE	<50000	ug/L	10000	50000	5
1,2-DICHLOROETHENE (TRANS)	<50000	ug/L	10000	50000	5
1,1-DICHLOROETHANE	<50000	ug/L	10000	50000	5
1,2-DICHLOROETHENE (CIS)	<50000	ug/L	10000	50000	5
CHLOROFORM	<50000	ug/L	10000	50000	5
1,1,1-TRICHLOROETHANE	<50000	ug/L	10000	50000	5
1,2-DICHLOROETHANE	<50000	ug/L	10000	50000	5
CARBON TETRACHLORIDE	<50000	ug/L	10000	50000	5
BENZENE	<50000	ug/L	10000	50000	5
1,2-DICHLOROPROPANE	<50000	ug/L	10000	50000	5
TRICHLOROETHENE	<50000	ug/L	10000	50000	5
BROMODICHLOROMETHANE	<50000	ug/L	10000	50000	5
CIS-1,3-DICHLOROPROPENE	<50000	ug/L	10000	50000	5
TOLUENE	<50000	ug/L	10000	50000	5
TRANS-1,3-DICHLOROPROPENE	<50000	ug/L	10000	50000	5
1,1,2-TRICHLOROETHANE	<50000	ug/L	10000	50000	5
DIBROMOCHLOROMETHANE	<50000	ug/L	10000	50000	5
TETRACHLOROETHENE	780000	ug/L	10000	50000	5
CHLOROBENZENE	<50000	ug/L	10000	50000	5
ETHYLBENZENE	<50000	ug/L	10000	50000	5
BROMOFORM	<50000	ug/L	10000	50000	5
STYRENE	<50000	ug/L	10000	50000	5
1,1,2,2-TETRACHLOROETHANE	<50000	ug/L	10000	50000	5
ACETONE	<100000	ug/L	10000	100000	10
2-BUTANONE	<100000	ug/L	10000	100000	10
4-METHYL-2-PENTANONE	<100000	ug/L	10000	100000	10
2-HEXANONE	<100000	ug/L	10000	100000	10
CARBON DISULFIDE	<50000	ug/L	10000	50000	5

Report Notes: O-2

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mark DeJohn
Baker Environmental, Inc.
AOP #3
420 Royser Road
Coraopolis, PA 15108

Proj. ID: MCB CAMP LEJEUNE SITE 88/CTO-3

Lab Number: WQ1404-6DL
SDG: WQ1404
Report Date: 5/26/00
PO No. : 356-06200
Project: N62470-89-D-4814
% Solids: N/A
Method: SW8260
Date Analyzed: 5/20/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
ML2M	AQ	5/16/00	5/18/00	5/20/00	BEM	5030	BEM

Compound	Result	Units	DF	Sample PQL	Method PQL
TOTAL 1,2-DICHLOROETHENE	<50000	ug/L	10000	50000	5
TOTAL XYLENES	<50000	ug/L	10000	50000	5
DIBROMOFLUOROMETHANE	93	%	10000		
1,2-DICHLOROETHANE-D4	93	%	10000		
TOLUENE-D8	98	%	10000		
P-BROMOFLUOROBENZENE	80	%	10000		

Report Notes: O-2

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample No.

ML2M

Lab Name: Katahdin Analytical Services SDG No.: WQ1404

Matrix: (Soil/Water) Water

Sample wt/vol: 0.000500

Level: (low/med) low

% Moisture: not dec.

GC Column: RTX-624 ID: 0.18 (mm)

Soil Extract Volume: (ml)

Lab Sample ID: WQ1404-6DL

Lab File ID: U4308

Date Received: 05/18/00

Date Analyzed: 05/20/00

Dilution Factor: 10000

Concentration Units: ug/L

Soil Aliquot Volume:

Number of TIC's Found: 1

	CAS NO.	COMPOUND	R.T.	EST. CONC	Q
1	000067-63-0	Isopropyl Alcohol	6.75	190000	JN
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mark DeJohn
Baker Environmental, Inc.
AOP #3
420 Royser Road
Coraopolis, PA 15108

Proj. ID: MCB CAMP LEJEUNE SITE 88/CTO-3

Lab Number: WQ1404-7
SDG: WQ1404
Report Date: 5/26/00
PO No. : 356-06200
Project: N62470-89-D-4814
% Solids: N/A
Method: SW8260
Date Analyzed: 5/20/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
IR88-RB01-00B	AQ	5/16/00	5/18/00	5/20/00	BEM	5030	BEM

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<5	ug/L	1.0	5	5
VINYL CHLORIDE	<2	ug/L	1.0	2	2
BROMOMETHANE	<5	ug/L	1.0	5	5
CHLOROETHANE	<5	ug/L	1.0	5	5
1,1-DICHLOROETHENE	<5	ug/L	1.0	5	5
METHYLENE CHLORIDE	<5	ug/L	1.0	5	5
1,2-DICHLOROETHENE (TRANS)	<5	ug/L	1.0	5	5
1,1-DICHLOROETHANE	<5	ug/L	1.0	5	5
1,2-DICHLOROETHENE (CIS)	<5	ug/L	1.0	5	5
CHLOROFORM	19	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<5	ug/L	1.0	5	5
1,2-DICHLOROETHANE	<5	ug/L	1.0	5	5
CARBON TETRACHLORIDE	<5	ug/L	1.0	5	5
BENZENE	<5	ug/L	1.0	5	5
1,2-DICHLOROPROPANE	<5	ug/L	1.0	5	5
TRICHLOROETHENE	<5	ug/L	1.0	5	5
BROMODICHLOROMETHANE	<5	ug/L	1.0	5	5
CIS-1,3-DICHLOROPROPENE	<5	ug/L	1.0	5	5
TOLUENE	<5	ug/L	1.0	5	5
TRANS-1,3-DICHLOROPROPENE	<5	ug/L	1.0	5	5
1,1,2-TRICHLOROETHANE	<5	ug/L	1.0	5	5
DIBROMOCHLOROMETHANE	<5	ug/L	1.0	5	5
TETRACHLOROETHENE	<5	ug/L	1.0	5	5
CHLOROBENZENE	<5	ug/L	1.0	5	5
ETHYLBENZENE	<5	ug/L	1.0	5	5
BROMOFORM	<5	ug/L	1.0	5	5
STYRENE	<5	ug/L	1.0	5	5
1,1,2,2-TETRACHLOROETHANE	<5	ug/L	1.0	5	5
ACETONE	<10	ug/L	1.0	10	10
2-BUTANONE	<10	ug/L	1.0	10	10
4-METHYL-2-PENTANONE	<10	ug/L	1.0	10	10
2-HEXANONE	<10	ug/L	1.0	10	10
CARBON DISULFIDE	<5	ug/L	1.0	5	5

Report Notes:

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mark DeJohn
Baker Environmental, Inc.
AOP #3
420 Royser Road
Coraopolis, PA 15108

Proj. ID: MCB CAMP LEJEUNE SITE 88/CTO-3

Lab Number: WQ1404-7
SDG: WQ1404
Report Date: 5/26/00
PO No. : 356-06200
Project: N62470-89-D-4814
% Solids: N/A
Method: SW8260
Date Analyzed: 5/20/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
IR88-RB01-00B	AQ	5/16/00	5/18/00	5/20/00	BEM	5030	BEM

Compound	Result	Units	DF	Sample PQL	Method PQL
TOTAL 1,2-DICHLOROETHENE	<5	ug/L	1.0	5	5
TOTAL XYLENES	<5	ug/L	1.0	5	5
DIBROMOFLUOROMETHANE	100	%	1.0		
1,2-DICHLOROETHANE-D4	98	%	1.0		
TOLUENE-D8	99	%	1.0		
P-BROMOFLUOROBENZENE	86	%	1.0		

Report Notes:

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample No.

IR88-RB01-00B

Lab Name: Katahdin Analytical Services SDG No.: WQ1404

Matrix: (Soil/Water) Water

Sample wt/vol: 5.00 ml

Level: (low/med) low

% Moisture: not dec.

GC Column: RTX-624 ID: 0.18 (mm)

Soil Extract Volume: (ml)

Lab Sample ID: WQ1404-7

Lab File ID: U4306

Date Received: 05/18/00

Date Analyzed: 05/20/00

Dilution Factor: 1.0

Concentration Units: ug/L

Soil Aliquot Volume:

Number of TIC's Found: 0

	CAS NO.	COMPOUND	R.T.	EST. CONC	Q
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mark DeJohn
Baker Environmental, Inc.
AOP #3
420 Royser Road
Coraopolis, PA 15108

Proj. ID: MCB CAMP LEJEUNE SITE 88/CTO-3

Lab Number: WQ1404-8
SDG: WQ1404
Report Date: 5/26/00
PO No. : 356-06200
Project: N62470-89-D-4814
% Solids: N/A
Method: SW8260
Date Analyzed: 5/20/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
IR88-TB01-00B	AQ	5/16/00	5/18/00	5/20/00	BEM	5030	BEM

Compound	Result	Units	DF	Sample PQL	Method PQL
CHLOROMETHANE	<5	ug/L	1.0	5	5
VINYL CHLORIDE	<2	ug/L	1.0	2	2
BROMOMETHANE	<5	ug/L	1.0	5	5
CHLOROETHANE	<5	ug/L	1.0	5	5
1,1-DICHLOROETHENE	<5	ug/L	1.0	5	5
METHYLENE CHLORIDE	<5	ug/L	1.0	5	5
1,2-DICHLOROETHENE (TRANS)	<5	ug/L	1.0	5	5
1,1-DICHLOROETHANE	<5	ug/L	1.0	5	5
1,2-DICHLOROETHENE (CIS)	<5	ug/L	1.0	5	5
CHLOROFORM	18	ug/L	1.0	5	5
1,1,1-TRICHLOROETHANE	<5	ug/L	1.0	5	5
1,2-DICHLOROETHANE	<5	ug/L	1.0	5	5
CARBON TETRACHLORIDE	<5	ug/L	1.0	5	5
BENZENE	<5	ug/L	1.0	5	5
1,2-DICHLOROPROPANE	<5	ug/L	1.0	5	5
TRICHLOROETHENE	<5	ug/L	1.0	5	5
BROMODICHLOROMETHANE	<5	ug/L	1.0	5	5
CIS-1,3-DICHLOROPROPENE	<5	ug/L	1.0	5	5
TOLUENE	<5	ug/L	1.0	5	5
TRANS-1,3-DICHLOROPROPENE	<5	ug/L	1.0	5	5
1,1,2-TRICHLOROETHANE	<5	ug/L	1.0	5	5
DIBROMOCHLOROMETHANE	<5	ug/L	1.0	5	5
TETRACHLOROETHENE	<5	ug/L	1.0	5	5
CHLOROBENZENE	<5	ug/L	1.0	5	5
ETHYLBENZENE	<5	ug/L	1.0	5	5
BROMOFORM	<5	ug/L	1.0	5	5
STYRENE	<5	ug/L	1.0	5	5
1,1,2,2-TETRACHLOROETHANE	<5	ug/L	1.0	5	5
ACETONE	J5	ug/L	1.0	10	10
2-BUTANONE	<10	ug/L	1.0	10	10
4-METHYL-2-PENTANONE	<10	ug/L	1.0	10	10
2-HEXANONE	<10	ug/L	1.0	10	10
CARBON DISULFIDE	<5	ug/L	1.0	5	5

Report Notes: J

KATAHDIN ANALYTICAL SERVICES
REPORT OF ANALYTICAL RESULTS

Client: Mark DeJohn
Baker Environmental, Inc.
AOP #3
420 Royser Road
Coraopolis, PA 15108

Proj. ID: MCB CAMP LEJEUNE SITE 88/CTO-3

Lab Number: WQ1404-8
SDG: WQ1404
Report Date: 5/26/00
PO No. : 356-06200
Project: N62470-89-D-4814
% Solids: N/A
Method: SW8260
Date Analyzed: 5/20/00

Sample Description	Matrix	Sampled Date	Rec'd Date	Ext. Date	Ext'd By	Ext. Method	Analyst
IR88-TB01-00B	AQ	5/16/00	5/18/00	5/20/00	BEM	5030	BEM

Compound	Result	Units	DF	Sample PQL	Method PQL
TOTAL 1,2-DICHLOROETHENE	<5	ug/L	1.0	5	5
TOTAL XYLENES	<5	ug/L	1.0	5	5
DIBROMOFLUOROMETHANE	92	%	1.0		
1,2-DICHLOROETHANE-D4	93	%	1.0		
TOLUENE-D8	94	%	1.0		
P-BROMOFLUOROBENZENE	78	%	1.0		

Report Notes: J

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET

Client Sample No.

IR88-TB01-00B

Lab Name: Katahdin Analytical Services SDG No.: WQ1404

Matrix: (Soil/Water) Water

Sample wt/vol: 5.00 ml

Level: (low/med) low

% Moisture: not dec.

GC Column: RTX-624 ID: 0.18 (mm)

Soil Extract Volume: (ml)

Lab Sample ID: WQ1404-8

Lab File ID: U4307

Date Received: 05/18/00

Date Analyzed: 05/20/00

Dilution Factor: 1.0

Concentration Units: ug/L

Soil Aliquot Volume:

Number of TIC's Found: 0

	CAS NO.	COMPOUND	R.T.	EST. CONC	Q
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					