1R - 43

REPORTS

DATE:

2003

April 22, 2003

Mr. William Olson, Hydrologist
State of New Mexico
Energy, Mineral and Natural Resources Department
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

RECEIVED
MAY 19 2003
ENVIRONMENTAL BUREAU
OIL CONSERVATION DIVISION

Annual Sampling 2002
GROUND-WATER SAMPLING EVENT
Former Baker Oil Tools Facility
2800 West Marland
Hobbs, New Mexico
Project No. 60260-8-1332-04

Dear Mr. Olson:

Baker Oil Tools performed sampling at the Hobbs, New Mexico on March 12, 2003. This sampling event was unavoidably delayed by scheduling conflicts to this date from the scheduled sampling of December of 2002. The NMOCD had been notified of a sampling delay by telephone. The sampling is being performed in response to the NMOCD request of June 20, 1995 to provide quarterly monitoring data for ground water contamination in the direct vicinity of the former disposal pit on the Baker Oil Tools property located at 2800 West Marland in Hobbs, New Mexico. The NMOCD requested this report discuss relevant background information, execution of services, laboratory analytical results, and a summary of our findings for the subject property.

1. BOT performed the monitoring event on March 12, 2003. During this monitoring event, the wells were gauged for depth, purged and sampled. Monitoring tasks began at 9:30 a.m. (MT). Purging of the wells was accomplished by bailing each well with a small electric pump placed in each well. Sampling of the wells was accomplished using dedicated 2" bailers. Monitoring wells MW-1, MW-2 and MW-3 were purged of three volumes of water and allowed to equalize prior to sampling. No sheen or free product was seen on the water bailed from these three wells. However, there was a hydrocarbon type of odor present from the water bailed from MW-3 during sample collection. Water well WW-1 was sampled but not purged due to the depth of the water in the well. No sheen or free product was seen on the water bailed from this well. Monitoring well R-1 was purged of three volumes of water, allowed to equalize and sampled. A slight hydrocarbon odor was noticed on the initial bailer of liquid removed and a very slight spotty sheen was present.

2. Samples were collected from each well and shipped to Ace Technologies Laboratory in The Woodlands, Texas for analysis. The laboratory previously used, Von

Analytical, is no longer in business in Houston which required the move to a new laboratory. A summary of the laboratory analytical results of water quality sampling of the monitoring wells is provided in the attached Table 1A through 1E. This data is presented in tabular form showing the previous four monitoring events sampling results. A copy of the original laboratory analytical results is also attached. All samples were non-detect for the contaminants of concern.

3. Water level and well depth measurements were measured using an electronic water level indicator capable of determining water levels to within 0.01 foot. Table 2 provides cumulative ground water level measurements for the previous four monitoring events. Based on the explanation presented in a previous report, WW-1 is still excluded from water table mapping. R-1 was gauged during this sampling event. An updated ground water elevation map using the recent water table elevations of the ground water in the monitoring wells is presented in Figure 1. The map indicates a low gradient flow to the southeast.

If you have any questions or require additional information, please do not hesitate in contacting me at (713) 466-2445.

Sincerely,
For Baker Oil Tools

Reggie Kennedy, Director
Health Safety and Environmental Affairs

Tables
1A – 1E

TABLE 1A
MW-1

EPA 8020A	2nd Quarter 6/27/00	3rd Quarter 9/27/00	4th Quarter 12/05/00	2001 Sampling 12/05/01	2003 Sampling 03/12/03
Benzene	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.001 mg/l	<0.01 mg/l
Ethylbenzene	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.001 mg/l	<0.01 mg/l
Toluene	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.001 mg/l	<0.01 mg/l
Xylenes	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.001 mg/l	<0.01 mg/l
Total BETX	BDL	BDL	BDL	BDL	BDL
EPA 8020					
Methyl Tertiary Butyl Ether	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.001 mg/l	<0.01 mg/l
EPA 8270B					
2-Methylnaphthalene	15.9 µg/L	<0.01 mg/l	<0.01mg/l	<0.01mg/l	<0.01 mg/l
Naphthalene	23.1 µg/L	<0.01 mg/l	<0.01mg/l	<0.01mg/l	<0.01 mg/l

notes: N/A indicates the sample was not analyzed for the parameter
BDL indicates the sum of the individual constiuent concentrations is below detectable limits

TABLE 1B
MW-2

EPA 8020A	2nd Quarter 6/27/00	3rd Quarter 9/27/00	4th Quarter 12/05/00	2001 Sampling 12/05/01	2003 Sampling 03/12/03
Benzene	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.001 mg/l	<0.01 mg/l
Ethylbenzene	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.001 mg/l	<0.01 mg/l
Toluene	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.001 mg/l	<0.01 mg/l
Xylenes	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.001 mg/l	<0.01 mg/l
Total BETX	BDL	BDL	BDL	BDL	BDL
EPA 8020					
Methyl Tertiary Butyl Ether	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.001 mg/l	<0.01 mg/l
EPA 8270B					
2-Methylnaphthalene	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l
Naphthalene	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l

notes: N/A indicates the sample was not analyzed for the parameter

BDL indicates the sum of the individual constiuent concentrations is below detectable limits

TABLE 1C
MW-3

EPA 8020A	2nd Quarter 6/27/00	3rd Quarter 9/27/00	4th Quarter 12/05/01	2001 Sampling 12/05/01	2003 Sampling 03/12/03
Benzene	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.001 mg/l	<0.01 mg/l
Ethylbenzene	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.001 mg/l	<0.01 mg/l
Toluene	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.001 mg/l	<0.01 mg/l
Xylenes	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.001 mg/l	<0.01 mg/l
Total BETX	BDL	BDL	BDL	BDL	BDL
EPA 8020					
Methyl Tertiary Butyl Ether	<0.005 mg/l	0.0382 mg/l	0.0357 mg/l	<0.001 mg/l	<0.01 mg/l
EPA 8270B					
2-Methylnaphthalene	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l
Naphthalene	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l

notes: N/A indicates the sample was not analyzed for the parameter

BDL indicates the sum of the individual constiuent concentrations is below detectable limits

TABLE 1D
WW-1

EPA 8020A	2nd Quarter 6/27/00	3rd Quarter 9/27/00	4th Quarter 12/05/00	2001 Sampling 12/05/01	2003 Sampling 03/12/03
Benzene	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.001 mg/l	<0.01 mg/l
Ethylbenzene	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.001 mg/l	<0.01 mg/l
Toluene	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.001 mg/l	<0.01 mg/l
Xylenes	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.001 mg/l	<0.01 mg/l
Total BETX	BDL	BDL	BDL	BDL	BDL
EPA 8020					
Methyl Tertiary Butyl Ether	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.001 mg/l	<0.01 mg/l
EPA 8270B					
2-Methylnaphthalene	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l
Naphthalene	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l

notes: N/A indicates the sample was not analyzed for the parameter check lab report for reason
BDL indicates the sum of the individual constiuent concentrations is below detectable limits

TABLE 1E
R-1

EPA 8020A	2nd Quarter 6/27/00	3rd Quarter 9/27/00	4th Quarter 12/21/99	2001 Sampling 12/05/01	2003 Sampling 03/12/03
Benzene	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.001 mg/l	<0.01 mg/l
Ethylbenzene	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.001 mg/l	<0.01 mg/l
Toluene	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.001 mg/l	<0.01 mg/l
Xylenes	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.001 mg/l	<0.01 mg/l
Total BETX	BDL	BDL	BDL	BDL	BDL
EPA 8020					
Methyl Tertiary Butyl Ether	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.001 mg/l	<0.01 mg/l
EPA 8270B					
2-Methylnaphthalene	84.3 µg/L	73.1 µg/L	<10 µg/L	~13 µg/L	<0.01 mg/l
Naphthalene	138.6 µg/L	164.2 µg/L	21 µg/L	14 µg/L	<0.01 mg/l

notes: N/A indicates the sample was not analyzed for the parameter

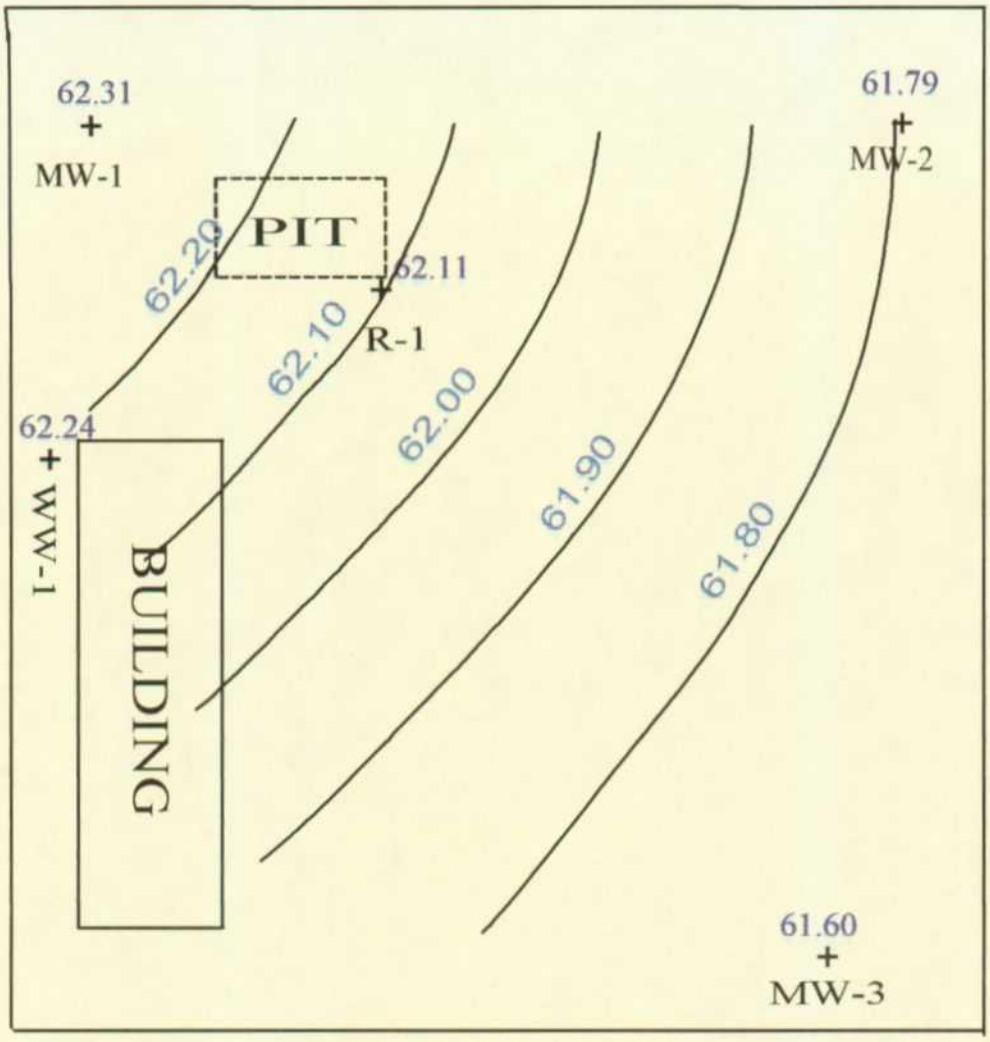
BDL indicates the sum of the individual constiuent concentrations is below detectable limits

Table 2

Table 2
QUARTERLY CUMULATIVE GROUND-WATER ELEVATIONS

Monitoring Well No.	Well Depth (ft)	Top of PVC Casing Elevation (ft MSL)	Ground-water Level Elevation (ft MSL)							
			9/30/1999	12/21/1999	3/29/2000	6/27/2000	9/27/2000	12/5/2000	12/5/2001	3/12/2003
MW-1	45.7	100.19	64.89	64.73	64.74	64.56	64.10	64.17	63.42	62.31
MW-2	45.0	99.56	64.46	64.51	64.33	64.28	63.88	63.94	62.97	61.79
MW-3	38.5	99.15	64.50	64.46	64.27	64.16	63.80	63.93	62.87	61.60
WW-1	125.0	99.52	64.79	64.96	64.51	64.11	63.95	64.13	63.29	62.24
R-1	48.0	100.03	64.83	64.63	*	64.78	63.95	64.09	63.18	62.11

Figure 1



Stenbeck and Associates, Inc

Houston, Texas

Figure 1

Groundwater Elevations (2002 sampling event)

Baker Oil Tools

2800 W. Marland

Hobbs, NM

Prepared by TVS

scale 1 = 40' (approx.)

4/22/2003

Analytical Data

CHAIN OF CUSTODY

ACE TECHNOLOGIES, INC
8707 Technology Forest, The Woodlands,TX 77381
Tel(281)363-4777 Fax(281)292-7492

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST FORM

Sl. No.
Page 1 of 1

Client Name: STENBECK AND ASSOC INC
Client Contact: TOM STENBECK
Address: PO Box 841005
City,State,Zip Code Houston, TX 77284-1005
Project Name: Hobbs March 2003
Project Number: BOT Hobbs
Project Location Hobbs, NM
Phone/Fax: 2813452340/2813452090 CST

SAMPLE ID	Date	Time	C/G	Temp	matrix (W=water S=soil SL=sludge O=others)	bottle (P=plastic A=Amber Glass G=glass V=vial)	size (1=liter 4=4oz 40=vial 8=8oz 16=16oz)	pres. (1=HCl 2=HNO_3 3=H_2SO_4 O=other)	Number of Containers	Requested Analysis: BTEX	Naphthalene	2-Methyl Naphthalene	MTBE	Lab ID
MW-1	3-12-03	11:45A			W	G	1,40	Ice	4	X	X	X	X	8896. 001
MW-2	3-12-03	12:00P			W	G	1,40	"	4	X	X	X	X	002
MW-3	3-12-03	12:15P			W	G	1,40	"	4	X	X	X	X	003
R-1	3-12-03	12:40P			W	G	1,40	"	4	X	X	X	X	004
WW-1	3-12-03	12:30P			W	G	1,40	"	4	X	X	X	X	005

Client/Consultant Remarks:

Laboratory remarks:

pH:
Temp.:

Turn Around Time
24hr ☐ 48hr ☐
72hr ☐ Standard ☒
Other ☐ _____

Special Reporting Requirements
Standard QC ☒
Fax Results ☐ Raw Data ☐
Level 3 QC ☐ Level 4 QC ☐

Intact: ☐ Yes ☐ No

1. Relinquished by Sampler: Thomas V Stenbeck
date: 3-12-03
time: 1:00P CST

2. Received by:

3. Relinquished by:
date:
time:

4. Received by:

5. Relinquished by:
date: 3-13-03
time: 1215

6. Received by Laboratory: Karen Pickens

SAMPLE LOGIN CHECKLIST/DISCREPANCY REPORT

EPISODE #: 8896 DATE/TIME REC'D: 3/13/03 TEMP & ID: 1) 4°C = _____

CLIENT NAME: Sten Beck & Associates 2) ____ = _____

PROJECT NAME: Hobbs March 2003 3) ____ = _____

PROJECT NUMBER: — 4) ____ = _____

= 5 AQUEOUS = _____ SOIL SAMPLES 5) ____ = _____

COURIER AIRBILL = 838 442 964 671 6) ____ = _____

SAMPLE CONTAINER SEALS present absent intact broken

COOLER CUSTODY SEALS present absent intact broken NAME & DATE _____

IF SO, WHERE AND WHERE _____

	YES	NO
Were samples screened for radioactivity?	✓	
Chain of custody present?	✓	
Custody documents: Sealed in a plastic bag?		✓
Signed and dated by field personnel?	✓	
Filled out properly (in indelible ink)?	✓	
Signed and dated by lab personnel?	✓	
Container Condition: Each container sealed in a separate plastic bag?	✓	
Labels (sample ID, date/time, signature, preservative, etc.)?	✓	
Labels agree with chain of custody?	✓	
Received without leakage or breakage? If no, list:	✓	
Correct container indicated on the chain-of-custody?	✓	
Sample Integrity: Correct containers used for the tests indicated? If no, list:	✓	
Correct preservatives added to the samples? If no, list:	✓	
Sufficient sample amount sent for the tests indicated? If no, list:	✓	
VOA vials filled completely? If no, list:	✓	
Are any volatiles samples present? If no, list:	✓	

Discrepancy Report

Discrepancies to be discussed with the client?

Project Manager's recommendations?

Who was notified? By whom? Date

Client's comments:

Corrective actions completed?

COMMENTS

For those analytical methods and list analytes and parameters, has a Rush Notification sheet been Issued to the lab?		

LOGGED BY: [signature] DATE: 3/13

Reviewed: _____

ACE Technologies, Inc.
8707 Technology Forest
The Woodlands, TX 77381

ACE Technologies, Inc.

1680 Lake Front Circle, Suite B, The Woodlands TX 77380

Sample Log-In Report

Logged By: VISHNU **Report Date:** 3/19/2003 17:51:16

Client Name: STENBECK AND ASSOCIATES, INC.
Client Project Name: HOBBS MARCH 2003
ClientProject #: HOBBS, NM
P.O. No.:
Courier/No.:

Lab Project ID: Q1788D
Date Logged: 03/13/03
Date Received: 03/13/03
Time Received: 12:15

Lab Sample ID	Client Sample ID	No. Cont.	Sample Matrix	Date Sampled	Time Sampled	Chain Of Custody No.	Analyst Due Date	Remarks
8896.001	MW - 1	4	WATER	03/12/03	11:45			
	Tests Required							
	- SVOA8270C-Q1788D						03/18/03	
	- VOA8260B-BTEX/MTBE						03/18/03	
8896.002	MW - 2	4	WATER	03/12/03	12:00			
	Tests Required							
	- SVOA8270C-Q1788D						03/18/03	
	- VOA8260B-BTEX/MTBE						03/18/03	
8896.003	MW - 3	4	WATER	03/12/03	12:00			
	Tests Required							
	- SVOA8270C-Q1788D						03/18/03	
	- VOA8260B-BTEX/MTBE						03/18/03	
8896.004	R-1	4	WATER	03/12/03	12:40			
	Tests Required							
	- SVOA8270C-Q1788D						03/18/03	
	- VOA8260B-BTEX/MTBE						03/18/03	
8896.005	WW - 1	4	WATER	03/12/03	12:30			
	Tests Required							
	- SVOA8270C-Q1788D						03/18/03	
	- VOA8260B-BTEX/MTBE						03/18/03	

Instructions To Lab:

Lab Approval
03/19/03

Client Approval

0000004

BTEX/MTBE

ACE Technologies, Inc.
1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LABORATORY REPORT

VOLATILES BY GC/MS

CLIENT NAME	: STENBECK AND ASSOCIATES, IN	CLIENT SAMPLE ID	: MW - 1
PROJECT NAME	: HOBBS MARCH 2003	LAB SAMPLE ID	: 8896.001
PROJECT NUMBER	: HOBBS, NM	METHOD REFERENCE	: SW846-8260B
DATE SAMPLED	: 3/12/03	DATE RECEIVED	: 3/13/03
SAMPLE MATRIX	: WATER	PRINTED ON	: 4/2/2003 9:49

ANALYST	: RKG	CONTAINER ID	:
DATE ANALYZED	: 3/20/2003	DILUTION	: 1
INSTRUMENT FILE	: A0744.D	INSTRUMENT ID	: A-HP5973
PURGE VOLUME	: 10 mL	TIME ANALYZED	: 14:25

PARAMETER	QUANTITATION LIMIT	RESULTS	QUALIFIER
Benzene	1.0 UG/L	ND UG/L	
Ethyl benzene	1.0 UG/L	ND UG/L	
m/p-xylene	2.0 UG/L	ND UG/L	
Methyl tert-butyl ether	1.0 UG/L	ND UG/L	
o-Xylene	1.0 UG/L	ND UG/L	
Toluene	1.0 UG/L	ND UG/L	

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
Toluene-d8	10 UG/L	68 - 124	90
1,2-Dichloroethane-d4	10 UG/L	64 - 130	82
4-Bromofluorobenzene	10 UG/L	72 - 137	81
Dibromofluoromethane	10 UG/L	56 - 153	82

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID : AVBLK41 PREP BLANK ID : AVBLK41 LCS ID : AVLCS41
LCSD ID : AVLCS41D

ACE Technologies, Inc.
1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LABORATORY REPORT

VOLATILES BY GC/MS

CLIENT NAME	: STENBECK AND ASSOCIATES, IN	CLIENT SAMPLE ID	: MW - 2
PROJECT NAME	: HOBBS MARCH 2003	LAB SAMPLE ID	: 8896.002
PROJECT NUMBER	: HOBBS, NM	METHOD REFERENCE	: SW846-8260B
DATE SAMPLED	: 3/12/03	DATE RECEIVED	: 3/13/03
SAMPLE MATRIX	: WATER	PRINTED ON	: 4/2/2003 9:49

ANALYST	: RKG	CONTAINER ID	:
DATE ANALYZED	: 3/20/2003	DILUTION	: 1
INSTRUMENT FILE	: A0745.D	INSTRUMENT ID	: A-HP5973
PURGE VOLUME	: 10 mL	TIME ANALYZED	: 14:54

PARAMETER	QUANTITATION LIMIT	RESULTS	QUALIFIER
Benzene	1.0 UG/L	ND UG/L	
Ethyl benzene	1.0 UG/L	ND UG/L	
m/p-xylene	2.0 UG/L	ND UG/L	
Methyl tert-butyl ether	1.0 UG/L	ND UG/L	
o-Xylene	1.0 UG/L	ND UG/L	
Toluene	1.0 UG/L	ND UG/L	

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
Toluene-d8	10 UG/L	68 - 124	95
1,2-Dichloroethane-d4	10 UG/L	64 - 130	91
4-Bromofluorobenzene	10 UG/L	72 - 137	82
Dibromofluoromethane	10 UG/L	56 - 153	87

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID : AVBLK41 PREP BLANK ID : AVBLK41 LCS ID : AVLCS41
LCSD ID : AVLCS41D

ACE Technologies, Inc.
1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LABORATORY REPORT

VOLATILES BY GC/MS

CLIENT NAME	: STENBECK AND ASSOCIATES, IN	CLIENT SAMPLE ID	: MW - 3
PROJECT NAME	: HOBBS MARCH 2003	LAB SAMPLE ID	: 8896.003
PROJECT NUMBER	: HOBBS, NM	METHOD REFERENCE	: SW846-8260B
DATE SAMPLED	: 3/12/03	DATE RECEIVED	: 3/13/03
SAMPLE MATRIX	: WATER	PRINTED ON	: 4/2/2003 9:49

ANALYST	: RKG	CONTAINER ID	:
DATE ANALYZED	: 3/20/2003	DILUTION	: 1
INSTRUMENT FILE	: A0749.D	INSTRUMENT ID	: A-HP5973
PURGE VOLUME	: 10 mL	TIME ANALYZED	: 16:47

PARAMETER	QUANTITATION LIMIT	RESULTS	QUALIFIER
Benzene	1.0 UG/L	ND UG/L	
Ethyl benzene	1.0 UG/L	ND UG/L	
m/p-xylene	2.0 UG/L	ND UG/L	
Methyl tert-butyl ether	1.0 UG/L	ND UG/L	
o-Xylene	1.0 UG/L	ND UG/L	
Toluene	1.0 UG/L	ND UG/L	

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
Toluene-d8	10 UG/L	68 - 124	94
1,2-Dichloroethane-d4	10 UG/L	64 - 130	100
4-Bromofluorobenzene	10 UG/L	72 - 137	85
Dibromofluoromethane	10 UG/L	56 - 153	85

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID : AVBLK41 PREP BLANK ID : AVBLK41 LCS ID : AVLCS41
LCSD ID : AVLCS41D

ACE Technologies, Inc.
1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LABORATORY REPORT

VOLATILES BY GC/MS

CLIENT NAME	: STENBECK AND ASSOCIATES, IN	CLIENT SAMPLE ID	: R-1
PROJECT NAME	: HOBBS MARCH 2003	LAB SAMPLE ID	: 8896.004
PROJECT NUMBER	: HOBBS, NM	METHOD REFERENCE	: SW846-8260B
DATE SAMPLED	: 3/12/03	DATE RECEIVED	: 3/13/03
SAMPLE MATRIX	: WATER	PRINTED ON	: 4/2/2003 9:49

ANALYST	: RKG	CONTAINER ID	:
DATE ANALYZED	: 3/20/2003	DILUTION	: 1
INSTRUMENT FILE	: A0750.D	INSTRUMENT ID	: A-HP5973
PURGE VOLUME	: 10 mL	TIME ANALYZED	: 17:15

PARAMETER	QUANTITATION LIMIT	RESULTS	QUALIFIER
Benzene	1.0 UG/L	ND UG/L	
Ethyl benzene	1.0 UG/L	ND UG/L	
m/p-xylene	2.0 UG/L	ND UG/L	
Methyl tert-butyl ether	1.0 UG/L	ND UG/L	
o-Xylene	1.0 UG/L	ND UG/L	
Toluene	1.0 UG/L	ND UG/L	

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
Toluene-d8	10 UG/L	68 - 124	89
1,2-Dichloroethane-d4	10 UG/L	64 - 130	100
4-Bromofluorobenzene	10 UG/L	72 - 137	100
Dibromofluoromethane	10 UG/L	56 - 153	92

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID : AVBLK41 PREP BLANK ID : AVBLK41 LCS ID : AVLCS41
LCSD ID : AVLCS41D

ACE Technologies, Inc.
1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LABORATORY REPORT

VOLATILES BY GC/MS

CLIENT NAME	: STENBECK AND ASSOCIATES, IN	CLIENT SAMPLE ID	: WW - 1
PROJECT NAME	: HOBBS MARCH 2003	LAB SAMPLE ID	: 8896.005
PROJECT NUMBER	: HOBBS, NM	METHOD REFERENCE	: SW846-8260B
DATE SAMPLED	: 3/12/03	DATE RECEIVED	: 3/13/03
SAMPLE MATRIX	: WATER	PRINTED ON	: 4/2/2003 9:49

ANALYST	: RKG	CONTAINER ID	:
DATE ANALYZED	: 3/20/2003	DILUTION	: 1
INSTRUMENT FILE	: A0751.D	INSTRUMENT ID	: A-HP5973
PURGE VOLUME	: 10 mL	TIME ANALYZED	: 17:43

PARAMETER	QUANTITATION LIMIT	RESULTS	QUALIFIER
Benzene	1.0 UG/L	ND UG/L	
Ethyl benzene	1.0 UG/L	ND UG/L	
m/p-xylene	2.0 UG/L	ND UG/L	
Methyl tert-butyl ether	1.0 UG/L	ND UG/L	
o-Xylene	1.0 UG/L	ND UG/L	
Toluene	1.0 UG/L	ND UG/L	

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
Toluene-d8	10 UG/L	68 - 124	88
1,2-Dichloroethane-d4	10 UG/L	64 - 130	91
4-Bromofluorobenzene	10 UG/L	72 - 137	95
Dibromofluoromethane	10 UG/L	56 - 153	85

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID : AVBLK41 PREP BLANK ID : AVBLK41 LCS ID : AVLCS41
LCSD ID : AVLCS41D

ACE Technologies, Inc.
1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LABORATORY REPORT

VOLATILES BY GC/MS

CLIENT NAME	:	CLIENT SAMPLE ID	: Prep Blank
PROJECT NAME	:	LAB SAMPLE ID	: AVBLK41
PROJECT NUMBER	:	METHOD REFERENCE	: SW846-8260B
DATE SAMPLED	:	DATE RECEIVED	:
SAMPLE MATRIX	: LIQUID	PRINTED ON	: 4/2/2003 9:49

ANALYST	: RKG	CONTAINER ID	:
DATE ANALYZED	: 3/20/2003	DILUTION	: 1
INSTRUMENT FILE	: A0738.D	INSTRUMENT ID	: A-HP5973
PURGE VOLUME	: 10 mL	TIME ANALYZED	: 11:25

	QUANTITATION LIMIT	RESULTS	QUALIFIER
Methyl tert-butyl ether	1.0 UG/L	ND UG/L	
m/p-xylene	2.0 UG/L	ND UG/L	
Ethyl benzene	1.0 UG/L	ND UG/L	
Benzene	1.0 UG/L	ND UG/L	
Toluene	1.0 UG/L	ND UG/L	
o-Xylene	1.0 UG/L	ND UG/L	

QUALITY CONTROL DATA

	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
Dibromofluoromethane	10 UG/L	56 - 153	74
4-Bromofluorobenzene	10 UG/L	72 - 137	88
1,2-Dichloroethane-d4	10 UG/L	64 - 130	72
Toluene-d8	10 UG/L	68 - 124	97

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID : AVBLK41 PREP BLANK ID : AVBLK41

ACE Technologies, Inc.
1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LCS/LCSD SUMMARY REPORT
VOLATILES BY GC/MS

CLIENT NAME :
PROJECT NAME :
PROJECT NUMBER :

DATE RECEIVED :
PRINTED ON : 4/2/2003 9:56

SAMPLE MATRIX : LIQUID

METHOD REFERENCE : SW846-8260B

LAB CONTROL SAMPLE
LCS SAMPLE ID : AVLCS41
CLIENT SAMPLE ID :
DATE ANALYZED : 3/20/2003
INSTRUMENT FILE : A0739.D

LAB CONTROL SAMPLE DUPLICATE
LCSD SAMPLE ID : AVLCS41D
CLIENT SAMPLE ID :
DATE ANALYZED : 3/20/2003
INSTRUMENT FILE : A0740.D

PARAMETER	UNITS	LCS TRUE VALUE	LCSD TRUE VALUE	LCS FOUND VALUE	LCSD FOUND VALUE	LCS RECOVERY (%)	LCSD RECOVERY (%)	RPD	RPD LIMIT	QC LIMITS REC.
Benzene	UG/L	10.0	10.0	10.5	9.87	105	99	5.9	25	75 - 143
Ethyl benzene	UG/L	10.0	10.0	12.6	12.0	126	120	4.9	25	71 - 141
m/p-xylene	UG/L	20	20	25	24	125	120	4.1	25	69 - 140
Methyl tert-butyl ether	UG/L	10	10	8.6	9.0	86	90	4.5	25	75 - 140
o-Xylene	UG/L	10	10	11	10	110	100	9.5	25	67 - 145
Toluene	UG/L	10.0	10.0	11.1	10.4	111	104	6.5	25	74 - 139

* Indicate values outside of QC limits

RPD : 0 out of 6 outside limits
Spike Recovery : 0 out of 12 outside limits

SVOA

ACE Technologies, Inc.
1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LABORATORY REPORT

SEMIVOLATILE ORGANICS BY GC/MS

CLIENT NAME	: STENBECK AND ASSOCIATES, IN	CLIENT SAMPLE ID	: MW - 1
PROJECT NAME	: HOBBS MARCH 2003	LAB SAMPLE ID	: 8896.001
PROJECT NUMBER	: HOBBS, NM	METHOD REFERENCE	: SW846-8270C
DATE SAMPLED	: 3/12/03	DATE RECEIVED	: 3/13/03
SAMPLE MATRIX	: WATER	PRINTED ON	: 4/2/2003 9:49

ANALYST	: RLP	CONTAINER ID	:
DATE ANALYZED	: 3/20/2003	DATE EXTRACTED	: 03/18/03
DILUTION	: 1	EXTRACT VOLUME	: 1 mL
INSTRUMENT FILE	: D5171.D	INSTRUMENT ID	: D-HP5971
SAMPLE VOLUME	: 1000 mL	TIME ANALYZED	: 23:02

PARAMETER	QUANTITATION LIMIT	RESULTS	QUALIFIER
2-Methylnaphthalene	10 UG/L	ND UG/L	
Naphthalene	10 UG/L	ND UG/L	

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
Nitrobenzene-d5	50 UG/L	35 - 114	35

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID : SBLK27 PREP BLANK ID : SBLK27

ACE Technologies, Inc.
1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LABORATORY REPORT

SEMIVOLATILE ORGANICS BY GC/MS

CLIENT NAME	: STENBECK AND ASSOCIATES, IN	CLIENT SAMPLE ID	: MW - 2
PROJECT NAME	: HOBBS MARCH 2003	LAB SAMPLE ID	: 8896.002
PROJECT NUMBER	: HOBBS, NM	METHOD REFERENCE	: SW846-8270C
DATE SAMPLED	: 3/12/03	DATE RECEIVED	: 3/13/03
SAMPLE MATRIX	: WATER	PRINTED ON	: 4/2/2003 9:49

ANALYST	: RLP	CONTAINER ID	:
DATE ANALYZED	: 3/20/2003	DATE EXTRACTED	: 03/18/03
DILUTION	: 1	EXTRACT VOLUME	: 1 mL
INSTRUMENT FILE	: D5172.D	INSTRUMENT ID	: D-HP5971
SAMPLE VOLUME	: 1000 mL	TIME ANALYZED	: 23:46

PARAMETER	QUANTITATION LIMIT	RESULTS	QUALIFIER
2-Methylnaphthalene	10 UG/L	ND UG/L	
Naphthalene	10 UG/L	ND UG/L	

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
Nitrobenzene-d5	50 UG/L	35 - 114	37

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID : SBLK27 PREP BLANK ID : SBLK27

ACE Technologies, Inc.
1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LABORATORY REPORT

SEMIVOLATILE ORGANICS BY GC/MS

CLIENT NAME	: STENBECK AND ASSOCIATES, IN	CLIENT SAMPLE ID	: MW - 3
PROJECT NAME	: HOBBS MARCH 2003	LAB SAMPLE ID	: 8896.003
PROJECT NUMBER	: HOBBS, NM	METHOD REFERENCE	: SW846-8270C
DATE SAMPLED	: 3/12/03	DATE RECEIVED	: 3/13/03
SAMPLE MATRIX	: WATER	PRINTED ON	: 4/2/2003 9:49

ANALYST	: RLP	CONTAINER ID	:
DATE ANALYZED	: 3/21/2003	DATE EXTRACTED	: 03/18/03
DILUTION	: 1	EXTRACT VOLUME	: 1 mL
INSTRUMENT FILE	: D5173.D	INSTRUMENT ID	: D-HP5971
SAMPLE VOLUME	: 1000 mL	TIME ANALYZED	: 00:30

PARAMETER	QUANTITATION LIMIT	RESULTS	QUALIFIER
2-Methylnaphthalene	10 UG/L	ND UG/L	
Naphthalene	10 UG/L	ND UG/L	

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
Nitrobenzene-d5	50 UG/L	35 - 114	31

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID : SBLK27 PREP BLANK ID : SBLK27

ACE Technologies, Inc.
1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LABORATORY REPORT

SEMIVOLATILE ORGANICS BY GC/MS

CLIENT NAME	: STENBECK AND ASSOCIATES, IN	CLIENT SAMPLE ID	: R-1
PROJECT NAME	: HOBBS MARCH 2003	LAB SAMPLE ID	: 8896.004
PROJECT NUMBER	: HOBBS, NM	METHOD REFERENCE	: SW846-8270C
DATE SAMPLED	: 3/12/03	DATE RECEIVED	: 3/13/03
SAMPLE MATRIX	: WATER	PRINTED ON	: 4/2/2003 9:49

ANALYST	: RLP	CONTAINER ID	:
DATE ANALYZED	: 3/21/2003	DATE EXTRACTED	: 03/18/03
DILUTION	: 1	EXTRACT VOLUME	: 1 mL
INSTRUMENT FILE	: D5174.D	INSTRUMENT ID	: D-HP5971
SAMPLE VOLUME	: 1000 mL	TIME ANALYZED	: 1:15

PARAMETER	QUANTITATION LIMIT	RESULTS	QUALIFIER
2-Methylnaphthalene	10 UG/L	ND UG/L	
Naphthalene	10 UG/L	ND UG/L	

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
Nitrobenzene-d5	50 UG/L	35 - 114	34

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID : SBLK27 PREP BLANK ID : SBLK27

ACE Technologies, Inc.
1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LABORATORY REPORT

SEMIVOLATILE ORGANICS BY GC/MS

CLIENT NAME	: STENBECK AND ASSOCIATES, IN	CLIENT SAMPLE ID	: WW - 1
PROJECT NAME	: HOBBS MARCH 2003	LAB SAMPLE ID	: 8896.005
PROJECT NUMBER	: HOBBS, NM	METHOD REFERENCE	: SW846-8270C
DATE SAMPLED	: 3/12/03	DATE RECEIVED	: 3/13/03
SAMPLE MATRIX	: WATER	PRINTED ON	: 4/2/2003 9:49

ANALYST	: RLP	CONTAINER ID	:
DATE ANALYZED	: 3/21/2003	DATE EXTRACTED	: 03/18/03
DILUTION	: 1	EXTRACT VOLUME	: 1 mL
INSTRUMENT FILE	: D5175.D	INSTRUMENT ID	: D-HP5971
SAMPLE VOLUME	: 1000 mL	TIME ANALYZED	: 2:00

PARAMETER	QUANTITATION LIMIT	RESULTS	QUALIFIER
2-Methylnaphthalene	10 UG/L	ND UG/L	
Naphthalene	10 UG/L	ND UG/L	

QUALITY CONTROL DATA

SURROGATE COMPOUND	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
Nitrobenzene-d5	50 UG/L	35 - 114	41

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID : SBLK27 PREP BLANK ID : SBLK27

ACE Technologies, Inc.
1680 Lake Front Circle, Suite B, The Woodlands, TX 77380

LABORATORY REPORT

SEMIVOLATILE ORGANICS BY GC/MS

CLIENT NAME	:	CLIENT SAMPLE ID	: Prep Blank
PROJECT NAME	:	LAB SAMPLE ID	: SBLK27
PROJECT NUMBER	:	METHOD REFERENCE	: SW846-8270C
DATE SAMPLED	:	DATE RECEIVED	:
SAMPLE MATRIX	: LIQUID	PRINTED ON	: 4/2/2003 9:49

ANALYST	: RLP	CONTAINER ID	:
DATE ANALYZED	: 3/20/2003	DATE EXTRACTED	: 03/18/03
DILUTION	: 1	EXTRACT VOLUME	: 1 mL
INSTRUMENT FILE	: D5162.D	INSTRUMENT ID	: D-HP5971
SAMPLE VOLUME	: 1000 mL	TIME ANALYZED	: 15:16

	QUANTITATION LIMIT	RESULTS	QUALIFIER
2-Methylnaphthalene	10 UG/L	ND UG/L	
Naphthalene	10 UG/L	ND UG/L	

QUALITY CONTROL DATA

	SPIKE ADDED	QC RECOVERY LIMITS	%RECOVERY
Nitrobenzene-d5	50 UG/L	35 - 114	50

BATCH QUALITY CONTROL SAMPLE IDs

QC BATCH ID : SBLK27 PREP BLANK ID : SBLK27

END OF THE REPORT

TOTAL NUMBER OF PAGES : 20

1243

March 15, 2002

Mr. William Olson, Hydrologist
State of New Mexico
Energy, Mineral and Natural Resources Department
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Annual Sampling 2001
GROUND-WATER SAMPLING EVENT
Former Baker Oil Tools Facility
2800 West Marland
Hobbs, New Mexico
Project No. 60260-8-1332-04

Dear Mr. Olson:

Baker Oil Tools has shifted to annual sampling (1/yr) for calendar year 2001 and beyond as approved by the State of New Mexico. This report is the first submittal under this new sampling schedule. The sampling was performed on December 5, 2001 and is being performed in response to the NMOCD request of June 20, 1995 to provide quarterly monitoring data for ground water contamination in the direct vicinity of the former disposal pit on the Baker Oil Tools property located at 2800 West Marland in Hobbs, New Mexico. The NMOCD requested this report discuss relevant background information, execution of services, laboratory analytical results, and a summary of our findings for the subject property.

1. BOT performed the 2001 monitoring event on December 5, 2001. During this monitoring event, the wells were gauged for depth, bailed and sampled. Monitoring tasks began at 10:30 a.m. (MT). Purging of the wells was accomplished by hand bailing each well. Sampling of the wells was accomplished using dedicated 2" bailers. Monitoring wells MW-1, MW-2 and MW-3 were purged of three volumes of water and allowed to equalize prior to sampling. No sheen or free product was seen on the water bailed from these three wells. Water well WW-1 was sampled but not purged due to the depth of the water in the well. No sheen or free product was seen on the water bailed from this well. Monitoring well R-1 was purged of three volumes of water, allowed to equalize and sampled. A very slight hydrocarbon odor was noticed on the initial bailer of liquid removed with no sheen present. Samples were collected from each well and shipped to Von Analytical Laboratory in Houston, Texas for analysis.

2. A summary of the laboratory analytical results of water quality sampling of the monitoring wells is provided in the attached Table 1A through 1E. This data is

presented in tabular form showing the previous four monitoring events sampling results. A copy of the original laboratory analytical results is also attached. The only positive result for naphthalene (14 µg/L) was detected in well R-1 with 2-methylnaphthalene present at a level just above the detection limit (~13 µg/L). No other wells yielded positive results for the contaminants.

3. Water level and well depth measurements were measured using an electronic water level indicator capable of determining water levels to within 0.01 foot. Table 2 provides cumulative ground water level measurements for the previous four monitoring events. Based on the explanation presented in a previous report, WW-1 is still excluded from water table mapping. R-1 was gauged during this sampling event. An updated ground water elevation map using the recent water table elevations of the ground water in the monitoring wells is presented in Figure 1. The map indicates a low gradient flow to the southeast.

If you have any questions or require additional information, please do not hesitate in contacting me at (713) 466-2445.

Sincerely,
For Baker Oil Tools

Reggie Kennedy, Director
Health Safety and Environmental Affairs

TABLE 1A
MW-1

EPA 8020A	1st Quarter 3/29/00	2nd Quarter 6/27/00	3rd Quarter 9/27/00	4th Quarter 12/05/00	2001 Sampling 12/05/01
Benzene	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.001 mg/l
Ethylbenzene	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.001 mg/l
Toluene	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.001 mg/l
Xylenes	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.001 mg/l
Total BETX	BDL	BDL	BDL	BDL	BDL
EPA 8020					
Methyl Tertiary Butyl Ether	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.001 mg/l
EPA 8270B					
2-Methylnaphthalene	<0.01mg/l	15.9 g/L	<0.01 mg/l	<0.01mg/l	<0.01mg/l
Naphthalene	<0.01mg/l	23.1 g/L	<0.01 mg/l	<0.01mg/l	<0.01mg/l

notes: N/A indicates the sample was not analyzed for the parameter
BDL indicates the sum of the individual constiuent concentrations is below detectable limits

TABLE 1B
MW-2

EPA 8020A	1st Quarter 3/29/00	2nd Quarter 6/27/00	3rd Quarter 9/27/00	4th Quarter 12/05/00	2001 Sampling 12/05/01
Benzene	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.001 mg/l
Ethylbenzene	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.001 mg/l
Toluene	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.001 mg/l
Xylenes	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.001 mg/l
Total BETX	BDL	BDL	BDL	BDL	BDL
EPA 8020					
Methyl Tertiary Butyl Ether	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.001 mg/l
EPA 8270B					
2-Methylnaphthalene	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l
Naphthalene	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l

notes: N/A indicates the sample was not analyzed for the parameter
BDL indicates the sum of the individual constiuent concentrations is below detectable limits

TABLE 1C
MW-3

EPA 8020A	1st Quarter 3/29/00	2nd Quarter 6/27/00	3rd Quarter 9/27/00	4th Quarter 12/05/01	2001 Sampling 12/05/01
Benzene	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.001 mg/l
Ethylbenzene	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.001 mg/l
Toluene	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.001 mg/l
Xylenes	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.001 mg/l
Total BETX	BDL	BDL	BDL	BDL	BDL
EPA 8020					
Methyl Tertiary Butyl Ether	<0.005 mg/l	<0.005 mg/l	0.0382 mg/l	0.0357 mg/l	<0.001 mg/l
EPA 8270B					
2-Methylnaphthalene	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l
Naphthalene	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l

notes: N/A indicates the sample was not analyzed for the parameter
BDL indicates the sum of the individual constiuent concentrations is below detectable limits

TABLE 1D
WW-1

EPA 8020A	1st Quarter 3/29/00	2nd Quarter 6/27/00	3rd Quarter 9/27/00	4th Quarter 12/05/00	2001 Sampling 12/05/01
Benzene	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.001 mg/l
Ethylbenzene	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.001 mg/l
Toluene	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.001 mg/l
Xylenes	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.001 mg/l
Total BETX	BDL	BDL	BDL	BDL	BDL
EPA 8020					
Methyl Tertiary Butyl Ether	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.001 mg/l
EPA 8270B					
2-Methylnaphthalene	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l
Naphthalene	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l	<0.01 mg/l

notes: N/A indicates the sample was not analyzed for the parameter check lab report for reason
BDL indicates the sum of the individual constiuent concentrations is below detectable limits

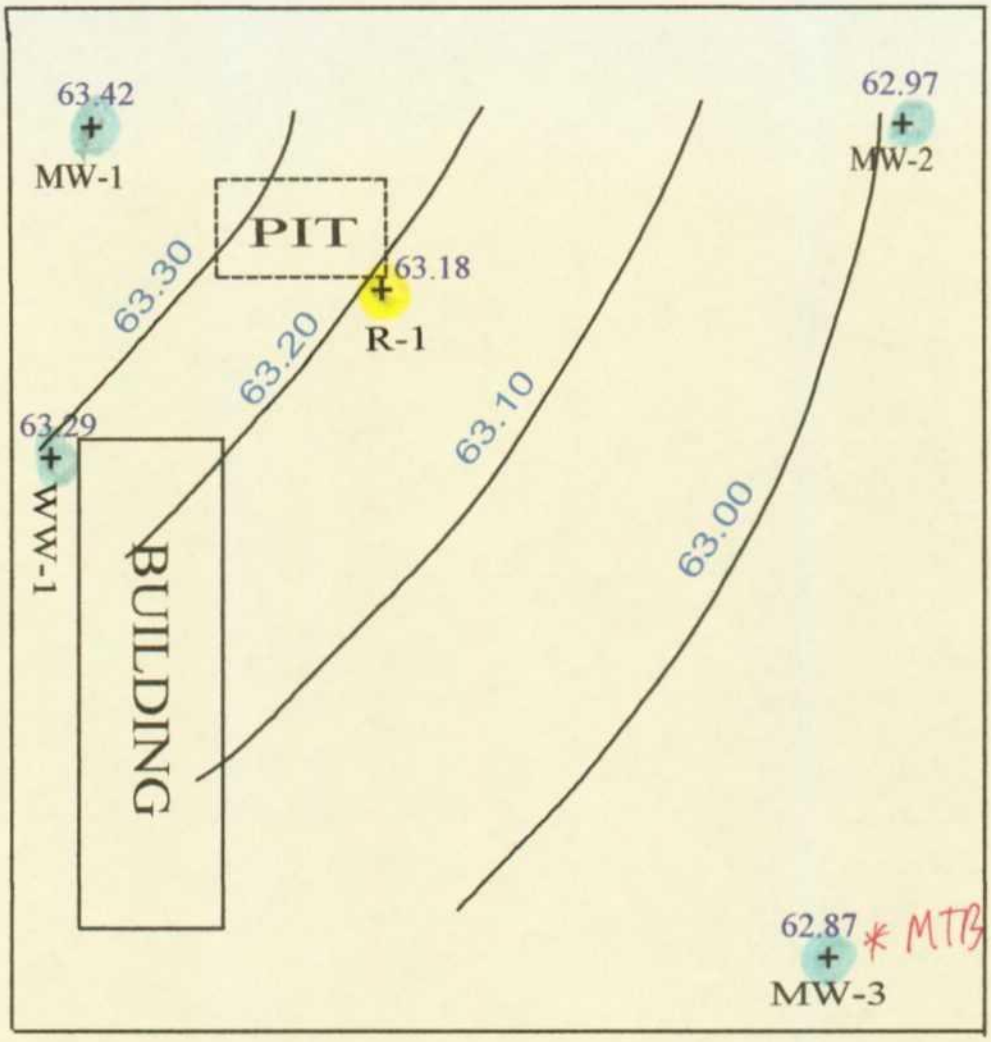
TABLE 1E
R-1

EPA 8020A	1st Quarter 3/29/00	2nd Quarter 6/27/00	3rd Quarter 9/27/00	4th Quarter 12/21/99	2001 Sampling 12/05/01
Benzene	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.001 mg/l
Ethylbenzene	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.001 mg/l
Toluene	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.001 mg/l
Xylenes	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.001 mg/l
Total BETX	BDL	BDL	BDL	BDL	BDL
EPA 8020					
Methyl Tertiary Butyl Ether	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.005 mg/l	<0.001 mg/l
EPA 8270B					
2-Methylnaphthalene	97.5 g/L	84.3 g/L	73.1 g/L	<10 g/L	~13 g/L
Naphthalene	122.1 g/L	138.6 g/L	164.2 g/L	21 g/L	14 g/L

notes: N/A indicates the sample was not analyzed for the parameter
BDL indicates the sum of the individual constiuent concentrations is below detectable limits

Table 2
QUARTERLY CUMULATIVE GROUND-WATER ELEVATIONS

Monitoring Well No.	Well Depth (ft)	Top of PVC Casing Elevation (ft MSL)	Ground-water Level Elevation (ft MSL)						
			09/30/1999	12/21/1999	03/29/2000	06/27/2000	09/27/2000	12/05/2000	12/05/2001
MW-1	45.7	100.19	64.89	64.73	64.74	64.56	64.10	64.17	63.42
MW-2	45.0	99.56	64.46	64.51	64.33	64.28	63.88	63.94	62.97
MW-3	38.5	99.15	64.50	64.46	64.27	64.16	63.80	63.93	62.87
WW-1	125.0	99.52	64.79	64.96	64.51	64.11	63.95	64.13	63.29
R-1	48.0	100.03	64.83	64.63	*	64.78	63.95	64.09	63.18



Stenbeck and Associates, Inc Houston, Texas	
Figure 1 Groundwater Elevations (2001 sampling event) Baker Oil Tools 2800 W. Marland Hobbs, NM	Prepared by TVS scale 1 = 40' (approx.) 3/15/02

CERTIFICATE OF ANALYSES

Envirotest Job #:	V01-185	Client Job #:	Stenbeck & Assoc.
Date of Analyses:	December 10, 2001	Reference:	Hobbs 2001 Sampling
Analytical Method:	SW-846 8270C, 8260B		

Client Sample ID:	MW-1	MW-2	MW-3
Laboratory Sample Number:	120109-01A	120109-02A	120109-03A
Analyte	ug/L	ug/L	ug/L
Benzene	< 1	< 1	< 1
Toluene	< 1	< 1	< 1
Ethylbenzene	< 1	< 1	< 1
Total-Xylene	< 1	< 1	< 1
Methyl Tertiary-Butyl Ether	< 1	< 1	< 1
Naphthalene	< 10	< 10	< 10
2-Methyl Naphthalene	< 10	< 10	< 10

Surrogates	**% Recovery**	**% Recovery**	**% Recovery**	**QC Limits**
4-Bromofluorobenzene	73%	73%	76%	72 - 137%
Dibromofluoromethane	113%	120%	82%	56 - 153%
Toluene-d8	101%	100%	93%	68 - 124%
1,2-Dichloroethane-d4	106%	113%	86%	64 - 130%
2-Fluorobiphenyl	73%	88%	62%	43 - 116%
Nitobenzene-d5	66%	80%	56%	35 - 114%
Terphenyl-d14	39%	65%	47%	33 - 141%

Reviewed By:

Performance Detection Limit: Detection limits are dependent on sample type, matrix interferences, and initial sample weight/dilutions.

Method Blanks: Method blanks are analyzed to check preparation and analyses for possible laboratory contamination.

____ QA/QC

ENVIROTEST INC.

CERTIFICATE OF ANALYSES

Envirotest Job #:	V01-185	Client Job #:	Stenbeck & Assoc.
Date of Analyses:	December 10, 2001	Reference:	Hobbs 2001 Sampling
Analytical Method:	SW-846 8270C, 8260B		

Client Sample ID:	WW-1	R-1	
Laboratory Sample Number:	120109-04A	120109-05A	Prep. Blank
Analyte	**ug/L**	**ug/L**	**ug/L**
Benzene	< 1	< 1	< 1
Toluene	< 1	< 1	< 1
Ethylbenzene	< 1	< 1	< 1
Total-Xylene	< 1	< 1	< 1
Methyl Tertiary-Butyl Ethe	< 1	< 1	< 1
Naphthalene	< 10	14	< 10
2-Methyl Naphthalene	< 10	~ 13	< 10

Surrogates	**% Recovery**	**% Recovery**	**% Recovery**	**QC Limits**
4-Bromofluorobenzene	73%	87%	76%	72 - 137%
Dibromofluoromethane	107%	110%	108%	56 - 153%
Toluene-d8	100%	94%	102%	68 - 124%
1,2-Dichloroethane-d4	101%	104%	103%	64 - 130%
2-Fluorobiphenyl	73%			43 - 116%
Nitobenzene-d5	65%			35 - 114%
Terphenyl-d14	61%			33 - 141%

Reviewed By:

Performance Detection Limit: Detection limits are dependent on sample type, matrix interferences, and initial sample weight/dilutions.

Method Blanks: Method blanks are analyzed to check preparation and analyses for possible laboratory contamination.

____ QA/QC

ENVIROTEST INC.

CERTIFICATE OF ANALYSES
Lab QA/QC Results

Envirotest Job #:	V01-185	Client Job #:	Stenbeck & Assoc.
Date of Analyses:	December 10, 2001	Reference:	Hobbs 2001 Sampling
Analytical Method:	SW-846 8270C, 8260B		

	Laboratory Control Spike	Laboratory Contro Spike Duplicate	Relative Percent Difference Limit 20%	QC Limit Recovery
1,1-Dicloroethene	92%	92%	0%	64 - 132%
Benzene	103%	104%	1%	74 - 131%
Chlorobenzene	106%	103%	3%	81 - 126%
Toluene	101%	102%	1%	62 - 162%
Trichloroethene	105%	99%	6%	67 - 132%

Note:

For sample R-1, lab ID 120109-05A, the one liter sample was broken in transit, therefore the analysis was done by volatile GC/MS analysis. 2-Methyl Naphthalene was analyzed as a Tentatively Identified Compound. (TIC)

Reviewed By:

Performance Detection Limit: Detection limits are dependent on sample type, matrix interferences, and initial sample weight/dilutions.

Method Blanks: Method blanks are analyzed to check preparation and analyses for possible laboratory contamination.

____ QA/QC

ENVIROTEST INC.