

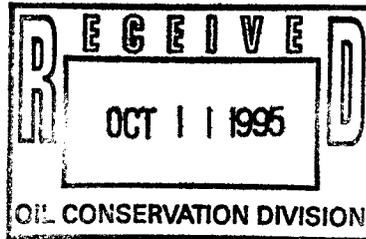
CORRESPONDENCE

1R145

MISC.

October 5, 1995

Mr. William C. Olson
Hydrogeologist
Oil Conservation Division
Environmental Bureau



3000 Richmond Avenue
Houston, TX 77098

(713) 520-9900
FAX (713) 520-6802

RE: Completion of Well Abandonment at the Former Exxon Service Facility
Located at 1715 Dal Paso Street in Hobbs, New Mexico

Dear Mr. Olson,

The monitor well located at the above referenced facility has been plugged and abandoned (P and A). The P and A activities were carried out under the direct supervision of ENSR Consulting and Engineering on EXXON's behalf. The plugging activities were performed on Tuesday, September 26, 1995 by Harrison Drilling and Environmental Services Inc. of Hobbs, New Mexico. The P and A process was carried out as a result of the New Mexico Oil Conservation Division's (OCD) written approval in their letter dated August 9, 1995. Approval to abandon the well was granted due to a lack of contaminant concentrations in excess of the New Mexico Water Quality Control Commission ground water standards. The procedures used to plug the well are discussed below.

The initial step in the P and A process was to remove the metal protective casing which surrounds the portion of the well pipe extending above ground and the concrete pad at the base of the well. This procedure was done by pulling out the metal casing with the use of a back hoe and chain. While removing the protective casing and pad, the top pvc well pipe broke off approximately 2.5 feet below ground surface.

Bentonite pellets were then placed into the well to fill the screen at the bottom of the well. The placement of bentonite continued in the well until the top of the bentonite was above the water table. This action was performed in order to avoid the possibility of contaminating the aquifer with the grout that was used to complete the plugging procedure.

A concrete slurry consisting of approximately 5% bentonite gel was then placed in the well. The slurry was brought to a level six inches above the top of the exposed well pipe, which put the top of the slurry at 2 feet below ground surface.

The remaining hole was then backfilled with local soil and compacted down by repeatedly crossing the area with the back hoe.



EXXON/ENSR request's closure of this facility, as all monitoring activities have been successfully concluded as per the OCD's requirements.

If you have any questions or concerns regarding the activities discussed in this letter please call me at (713) 520-9900 or Herman Brown of EXXON at (713) 425-1200.

Sincerely yours,

Shawn Eubanks
Project Manager/ Sr. Geologist

Gil Long
Department Manager

xc: Herman Brown, EXXON Chemical Americas
Wayne Price, OCD Hobbs District Office

NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

2040 S. Pacheco
Santa Fe, New Mexico

Z 765 962 386

August 9, 1995

CERTIFIED MAIL
RETURN RECEIPT NO. Z-765-962-386

Mr. Herman Brown
Environmental Project Coordinator
Exxon Chemical Americas
P.O. Box 4004
Baytown, Texas 77522-4004

**RE: MONITOR WELL ABANDONMENT
FORMER EXXON DAL PASO FACILITY**



Receipt for Certified Mail

No Insurance Coverage Provided
Do not use for International Mail
(See Reverse)

Sent to	
Street and No.	
P.O., State and ZIP Code	
Postage	\$
Certified Fee	
Special Delivery Fee	

Dear Mr. Brown:

The New Mexico Oil Conservation Division (OCD) has completed a review of Exxon's June 28, 1995 "QUARTERLY SAMPLING, FORMER EXXON DAL PASO SERVICE FACILITY, HOBBS, NEW MEXICO". This document contains the results of Exxon's quarterly sampling of ground water related to remedial actions at Exxon's Dal Paso service facility in Hobbs, New Mexico. The document also requests approval of a work plan to plug and abandon (P&A) the site monitor well based upon a lack of contaminants in excess of New Mexico Water Quality Control Commission ground water standards.

The above P&A work plan is approved with the following conditions:

1. Exxon will provide the OCD with a final P&A report upon completion of the P&A actions.
2. All original documents submitted to the OCD for approval will be submitted to the OCD Santa Fe Office with copies provided to the OCD Hobbs District Office.

Please be advised that OCD approval does not relieve Exxon of responsibility for compliance with any other federal, state or local laws and/or regulations. If you have any questions, please contact me at (505) 827-7154.

Sincerely,

William C. Olson
Hydrogeologist
Environmental Bureau

xc: Jerry Sexton, OCD Hobbs District Supervisor
Wayne Price, OCD Hobbs District Office

Baytown Chemical Plant
Raymond C. Floyd
SITE MANAGER

June 28, 1995

Mr. William C. Olson
Hydrogeologist - Environmental Bureau
New Mexico Oil Conservation District
Post Office Box 2088
Santa Fe, New Mexico 87504

RECEIVED

JUL 03 1995

Environmental Bureau
Oil Conservation Division

**RE: Quarterly Sampling
Former Exxon Dal Paso Service Facility
Hobbs, New Mexico**

Dear Mr. Olson:

ENSR Consulting and Engineering (ENSR), on behalf of Exxon Chemical Company (Exxon) has completed the fourth quarterly sampling event of monitor well DP-1 on Exxon's facility located at 1715 Dal Paso Street, in Hobbs, New Mexico. The sampling was performed in accordance with the New Mexico Oil Conservation Division (OCD) letter dated June 17, 1994. The OCD directed that the groundwater be sampled and analyzed on a quarterly basis for aromatic volatile organics, halogenated volatile organics, polynuclear aromatic hydrocarbons (PAHs), and manganese. The fourth quarterly sampling event was conducted on May 31, 1995.

Prior to collecting the groundwater samples, three well volumes were removed from the well using a PVC bailer. Groundwater was then retrieved with a disposable bailer and poured directly from the bailer into the appropriate sample containers. The samples were properly preserved, labeled, and placed on ice. Chain-of-custody documentation was filled out and sent with the samples to ENVIRON EXPRESS Laboratories in La Porte, Texas for analysis.

As outlined in item 1 of the OCD letter, groundwater was analyzed for aromatic volatile organics, halogenated volatile organics, polynuclear aromatic hydrocarbons (PAHs), and manganese. The analytical results are summarized in Table 1. The complete laboratory report and chain-of-custody documentation for the fourth quarter event are provided as Attachment A.

TABLE 1. Groundwater Analytical Results
 Fourth Sampling Event

Constituent	Analytical Results DP-1 (mg/L)	New Mexico Groundwater Standard (mg/L)
Manganese	0.24	0.2
Benzene	<0.005	0.01
Chloroform	0.013	0.1
1,1,-Dichloroethane	<0.005	0.025
Ethylbenzene	<0.005	0.75
Xylenes	<0.015	0.62

All these results are below the New Mexico Water Quality Control Commission ground water standards except for manganese, which appears to be asymptotically approaching the standard value of 0.20 mg/l.

This completes the requirements for quarterly monitoring as provided in the letter of June 17, 1994. The results of the monitoring are summarized as follows:

Table 2. Groundwater Analytical Results
 Four Quarters Summary

Constituent	First Quarter Results (mg/L)	Second Quarter Results (mg/l)	Third Quarter Results (mg/l)	Fourth Quarter Results (mg/l)
Manganese	0.7	0.5	0.25	0.24
Benzene	0.005	0.005	<0.005	<0.005
Chloroform	0.009	0.012	0.016	0.013
1,1,-Dichloroethane	0.019	0.017	<0.005	<0.005
Ethylbenzene	0.008	0.010	<0.005	<0.005
Xylenes	0.065	0.029	<0.015	<0.015

Mr. W.C. Olson
June 28, 1995
Page 2

Based on these results, Exxon proposes to plug and abandon Well DP-1 at the site in accordance with the following procedures:

- Remove the flush mount well protector.
- Grout the well from the bottom to the ground surface.
- Dispose of all waste material associated with well DP-1.

Before grouting the well, the flush mount well protector will be removed from the ground. The concrete surrounding the flush mount will be broken up using either a sledge hammer or other means of loosening the flush mount before it can be removed.

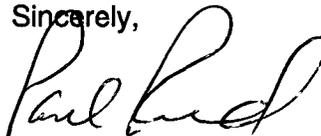
The well will then be grouted in place. Grouting will consist of pumping a bentonite/cement slurry into the well. The slurry will contain 5 to 10% bentonite mixed with Type 1 Portland cement and will be tremied from the bottom of the well up to the ground surface.

After completion of the well plugging activities, all soil cuttings and wastewater produced from the well installation and abandonment will be disposed of. Since the only compound detected at levels above the ground water standards was manganese, we propose to dispose of the materials along the back of the property.

The New Mexico OCD will be notified at least 7 days prior to initiation of the P&A activities. Please notify me as soon as practical as to whether this plan is approved so that these activities can be scheduled.

I am transferring to another Exxon Chemical facility on July 1, 1995. Mr. Herman Brown will take over my role on this project. Mr. Brown's phone number is (713) 425-1200. If there are any questions or if further assistance is needed, please feel free to call Mr. Brown or Gil Long of ENSR at (713) 520-9900.

Sincerely,

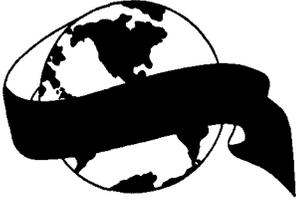


Paul Reed
Environmental Projects Coordinator
(713) 425-1237

Attachment

cc: Wayne Price, OCD Hobbs District Office
Trish Carls, Brown McCarroll and Oaks Hartline
Gil Long, ENSR Consulting and Engineering
Master File

ATTACHMENT A
LABORATORY RESULTS



401 North 11th • La Porte, Texas 77571

Express Laboratories, Inc.

(713) 471-0951 • 1 (800) 880-0156 • FAX (713) 471-5821

Environ ID: 36159

Customer: ENSR C & E	Attn: DAVID BAHNER
Sample ID: MW-1	Matrix: LIQUID
Prj. Info: EXXON HOBBS HOBBS, NM	Prj No: 1009-006-105
Sampled: 05-31-95	Received: 06-01-95
	Reported: 06-06-95

Analysis Report

EPA SW846 3051/6010 (Total)	Results mg/l	Detection Limit mg/l	Date Analyzed
Dissolved Manganese (Mn)	0.24	0.02	06-02-95

John Keller

 JOHN E. KELLER, Ph.D.
 Laboratory Director



401 North 11th • La Porte, Texas 77571

Express Laboratories, Inc.

(713) 471-0951

• 1 (800) 880-0156

• FAX (713) 471-5821

Customer: ENSR

Sample ID: MW - 1

Environ ID: 36159

Project: Exxon Hobbs, Hobbs NM, Proj. # 1009-006-105

Matrix: Liquid

Date Sampled: 5/31/95

Date Received: 6/1/95

Date/Time Analyzed: 6/2/95 17:05

EPA SW-846 Method 8240 - Total Volatiles

COMPOUNDS	CONCENTRATION (ug/l)	PQL (ug/l)	CAS #
Acetone	< 50	50	67-64-1
Benzene	< 5	5	71-43-2
Bromodichloromethane	< 5	5	75-27-4
Bromoform	< 5	5	75-25-2
Bromomethane	< 10	10	75-83-9
2-Butanone	< 50	50	78-93-3
Carbon disulfide	< 5	5	75-15-0
Carbon Tetrachloride	< 5	5	56-23-5
Chlorobenzene	< 5	5	108-90-7
Chloroethane	< 10	10	75-00-3
2-Chloroethyl vinyl ether	< 10	10	110-75-8
Chloroform	13	5	67-66-3
Chloromethane	< 10	10	74-87-3
Dibromochloromethane	< 5	5	124-48-1
1,1-Dichloroethane	< 5	5	75-34-3
1,2-Dichloroethane	< 5	5	107-06-2
1,1-Dichloroethene	< 5	5	75-35-4
1,2-Dichloroethene (total)	< 5	5	540-59-0
1,2-Dichloropropane	< 5	5	78-87-5
cis-1,3-Dichloropropene	< 5	5	10061-01-5
trans-1,3-Dichloropropene	< 5	5	10061-02-6
Ethylbenzene	< 5	5	100-41-4
2-Hexanone	< 25	25	591-78-6
4-Methyl-2-Pentanone	< 25	25	108-10-1
Methylene Chloride	< 10	10	75-09-2
Styrene	< 5	5	100-42-5
1,1,2,2-Tetrachloroethane	< 5	5	79-34-5
Tetrachloroethene	< 5	5	127-18-4
Toluene	< 5	5	108-88-3
1,1,1-Trichloroethane	< 5	5	71-55-6
1,1,2-Trichloroethane	< 5	5	79-00-5
Trichloroethene	< 5	5	79-01-6
Vinyl acetate	< 10	10	108-05-4
Vinyl chloride	< 10	10	75-01-4
m&p-Xylene	< 10	10	1330-20-7
o-Xylene	< 5	5	1330-20-7
SURROGATE RECOVERIES			
SURROGATE	CONCENTRATION	% RECOVERY	RANGE
1,2-Dichloroethane-d4 (surr)	46	92	76-114
Toluene-d8 (surr)	48	96	88-110
4-Bromofluorobenzene (surr)	46	92	86-115


Carl Degner, GC/MS Analyst


John Keller, Laboratory Director



401 North 11th • La Porte, Texas 77571

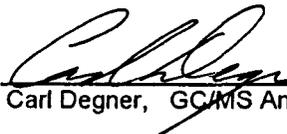
Express Laboratories, Inc.

(713) 471-0951 • 1 (800) 880-0156 • FAX (713) 471-5821

Customer: **ENSR** Sample ID: **MW - 1** Environ ID: **36159**
Project: **Exxon Hobbs, Hobbs NM, Proj. # 1009-006-105** Matrix: **Soil**
Date Sampled: **5/31/95** Date Received: **6/1/95** Date Extracted: **6/1/95**
Concentration Factor: **30/1** Date/Time Analyzed: **6/2/95 17:57**

EPA SW-846 Method 8270 - PAHs

COMPOUNDS	CONCENTRATION (ug/Kg)	PQL (ug/Kg)	CAS #
Acenaphthene	< 6.6	6.6	83-32-9
Acenaphthylene	< 6.6	6.6	208-96-8
Anthracene	< 6.6	6.6	120-12-7
Benzo(a)anthracene	< 6.6	6.6	56-55-3
Benzo(b)fluoranthene	< 6.6	6.6	205-99-2
Benzo(k)fluoranthene	< 6.6	6.6	207-08-9
Benzo(g,h,i)perylene	< 6.6	6.6	191-24-2
Benzo(a)pyrene	< 6.6	6.6	50-32-8
Chrysene	< 6.6	6.6	218-01-9
Dibenz(a,h)anthracene	< 6.6	6.6	53-70-3
Fluoranthene	< 6.6	6.6	206-44-0
Fluorene	< 6.6	6.6	86-73-7
Indeno(1,2,3-cd)pyrene	< 6.6	6.6	193-39-5
Naphthalene	< 6.6	6.6	91-20-3
Phenanthrene	< 6.6	6.6	85-01-8
Pyrene	< 6.6	6.6	129-00-0
SURROGATE RECOVERIES			
SURROGATE	CONCENTRATION	% RECOVERY	RANGE
Nitrobenzene-d5	36	72	35-114
2-Fluorobiphenyl	41	82	43-116
Terphenyl-d14	42	84	33-141


Carl Degner, GC/MS Analyst


John Keller, Laboratory Director

ENVIRON EXPRESS QUALITY CONTROL REPORT

ANALYSIS: METALS - TOTAL | METHOD: EPA SW846 3015/6010/7470 | MATRIX: LIQUID

ANALYSTS: A.R. | DATE: 06/02/95 | UNITS: PPM (mg/l) | NO.SAMPLES: 7

SAMPLES: 36146 - 36151, 36159

MATRIX SPIKE & MATRIX SPIKE DUPLICATE ANALYSIS

SAMPLE 36151	SAMPLE RESULTS	SPIKE ADDED	SPIKE RESULTS	RECOVERY %	RECOVERY DUP. %	RELATIVE DIFF.	CONT. CALIB.	QC LIMITS	
								REC. RANGE	REL. DIF.
ARSENIC	0.00	5	5.44	109	112	3	102	75 - 125	20
BARIUM	0.00	5	4.91	98	100	2	102	75 - 125	20
CADMIUM	0.00	5	4.89	98	99	1	100	75 - 125	20
CHROMIUM	0.00	5	4.91	98	100	2	103	75 - 125	20
LEAD	0.00	5	4.81	96	98	2	101	75 - 125	20
MERCURY	0.000	0.200	0.19	94	94	0	94	75 - 125	20
SELENIUM	0.00	5	6.00	120	122	2	101	75 - 125	20
SILVER	0.00	5	4.53	91	92	2	96	75 - 125	20


 JOHN KELLER, Ph.D
 Laboratory Director

Baytown Chemical Plant
Raymond C. Floyd
SITE MANAGER

March 17, 1995

Mr. William C. Olson
Hydrogeologist - Environmental Bureau
New Mexico Oil Conservation Division
P.O. Box 2088
Santa Fe, New Mexico

RECEIVED

MAR 21 1995

Environmental Bureau
Oil Conservation Division

**RE: Quarterly Sampling
Former Exxon Service Facility - Dal Paso
Hobbs, New Mexico**

Dear Mr. Olson:

ENSR Consulting and Engineering (ENSR), on behalf of Exxon Chemical Company (Exxon) has completed the third quarterly sampling event of monitor well DP-1 on Exxon's facility located at 1715 Dal Paso Street in Hobbs, New Mexico. The sampling was performed in accordance with the The Mexico Oil Conservation Division (OCD) letter dated June 17, 1994. The OCD directed that the groundwater be sampled and analyzed on a quarterly basis for aromatic volatile organics, halogenated volatile organics, and polynuclear aromatic hydrocarbons (PAH), and dissolved manganese. The quarterly sampling event was conducted on March 1, 1995.

Proir to collecting the groundwater samples, three well volumes were removed from the well using a PVC bailer. Groundwater was then retrieved with a disposable bailer and poured directly from the bailer into the appropriate sample containers. The samples were properly preserved, labeled, and placed in a cooler of ice. Chain-of-custody documentation was filled out and sent with the samples to ENVIRON EXPRESS Laboratories in La Porte, Texas for analysis.

The analytical results are outlined in Table 1, and a complete laboratory report along with chain-of-custody documentation are provided as Attachment A.

All organic constituent concentrations are below the New Mexico Water Quality Standards. Dissolved manganese concentration is slightly above the standard at 0.025 mg/l.

TABLE 1. Groundwater Analytical Results

Constituent	Analytical Results DP-1 (mg/l)	New Mexico Groundwater Standard (mg/l)
Manganese	0.25	0.2
Benzene	< 0.005	0.01
Chloroform	0.016	0.1
1,1-Dichloroethane	< 0.005	0.025
Ethylbenzene	< 0.005	0.75
Xylenes	< 0.015	0.62

Quarterly sampling will continue as outlined in the OCD letter dated June 17, 1994.

If you have any questions or if I can be of further assistance, please call me at (713) 425-1237 or Shawn Eubanks of ENSR at (713) 520-9900.

Very Truly Yours,

Paul Reed / STE

Paul Reed
Environmental Projects Coordinator
Environmental Affairs Department

Attachment

xc: Wayne Price, OCD Hobbs District Office
Shawn Eubanks, ENSR Consulting and Engineering

ATTACHMENT A

Laboratory Report

ANALYTICAL RESULTS

PREPARED FOR:

SHAWN EUBANKS

OF

ENSR

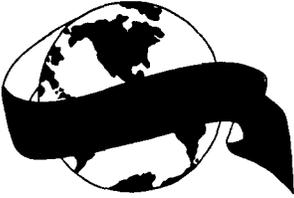
3000 Richmond
Houston, Texas 77098

PRESENTED BY:

ENVIRON EXPRESS LABORATORIES
401 N. 11th ST.
LA PORTE, TEXAS 77571-3115

1-713-471-0951 1-800-880-0156 (FAX): 1-713-471-5821

The test results contained herein are for the confidential use of the above client. The test results contained in this report relate only to the samples analyzed herein, and Environ Express Laboratories hereby grants permission to reproduce each page only in total.



401 North 11th • La Porte, Texas 77571

Express Laboratories

(713) 471-0951 • 1 (800) 880-0156 • FAX (713) 471-5821

Customer: ENSR Sample ID: DP-1 Attn: S. EUBANKS

Client: EXXON-DAL PASO Proj. No: 2620-155-300

Proj. Location: HOBBS, NM Environ ID: 34354

Sample Matrix: WATER Sample Depth: _____ Sampled: 03/ 01 / 95

Received: 03/ 02 / 95 Reported: 03/ 08 / 95 Invoice No.: 6937

~~~~~  
TOTAL PAH (EPA 8100)

| Compounds                  | Results<br>mg/l | Detection<br>Limit mg/l |
|----------------------------|-----------------|-------------------------|
| Acenaphthene               | < 1.0           | 1.0                     |
| Acenaphthylene             | < 1.0           | 1.0                     |
| Anthracene                 | < 1.0           | 1.0                     |
| Benzo (a) anthracene       | < 1.0           | 1.0                     |
| Benzo (a) pyrene           | < 1.0           | 1.0                     |
| Benzo (b) fluoranthene     | < 1.0           | 1.0                     |
| Benzo (k) fluoranthene     | < 1.0           | 1.0                     |
| Benzo (ghi) perylene       | < 1.0           | 1.0                     |
| Chrysene                   | < 1.0           | 1.0                     |
| Dibenzo (a, h) anthracene  | < 1.0           | 1.0                     |
| Fluoranthene               | < 1.0           | 1.0                     |
| Fluorene                   | < 1.0           | 1.0                     |
| Indeno (1, 2, 3-cd) pyrene | < 1.0           | 1.0                     |
| Naphthalene                | < 1.0           | 1.0                     |
| Phenanthrene               | < 1.0           | 1.0                     |
| Pyrene                     | < 1.0           | 1.0                     |

Analyst: J.M. Date Extracted: 03/02/95 Date Analyzed: 03/02/95 @ 13:50

*John Keller*  
\_\_\_\_\_  
John E. Keller, Ph.D.



401 North 11th • La Porte, Texas 77571

Express Laboratories  
Customer:

**ENSR**

(713) 471-0951 • 1 (800) 880-0156 • FAX (713) 471-5821

Sample ID: **DP-1**

Environ ID: **34354**

Project:

**Exxon - DAI PASO, Hobbs NM, Proj. # 2620-155-300**

Matrix: **Liquid**

Date Sampled: **3/1/95**

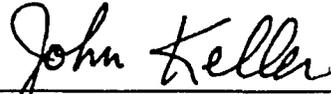
Date Received: **3/2/95**

Date/Time Analyzed: **3/2/95 14:18**

**EPA SW-846 Method 8240 - Total Volatiles**

| COMPOUNDS                    | CONCENTRATION<br>(ug/l) | PQL<br>(ug/l) | CAS #      |
|------------------------------|-------------------------|---------------|------------|
| Acetone                      | < 50                    | 50            | 67-64-1    |
| Benzene                      | < 5                     | 5             | 71-43-2    |
| Bromodichloromethane         | < 5                     | 5             | 75-27-4    |
| Bromoform                    | < 5                     | 5             | 75-25-2    |
| Bromomethane                 | < 10                    | 10            | 75-83-9    |
| 2-Butanone                   | < 50                    | 50            | 78-93-3    |
| Carbon disulfide             | < 5                     | 5             | 75-15-0    |
| Carbon Tetrachloride         | < 5                     | 5             | 56-23-5    |
| Chlorobenzene                | < 5                     | 5             | 108-90-7   |
| Chloroethane                 | < 10                    | 10            | 75-00-3    |
| 2-Chloroethyl vinyl ether    | < 10                    | 10            | 110-75-8   |
| Chloroform                   | 16                      | 5             | 67-66-3    |
| Chloromethane                | < 10                    | 10            | 74-87-3    |
| Dibromochloromethane         | < 5                     | 5             | 124-48-1   |
| 1,1-Dichloroethane           | < 5                     | 5             | 75-34-3    |
| 1,2-Dichloroethane           | < 5                     | 5             | 107-06-2   |
| 1,1-Dichloroethene           | < 5                     | 5             | 75-35-4    |
| 1,2-Dichloroethene (total)   | < 5                     | 5             | 540-59-0   |
| 1,2-Dichloropropane          | < 5                     | 5             | 78-87-5    |
| cis-1,3-Dichloropropene      | < 5                     | 5             | 10061-01-5 |
| trans-1,3-Dichloropropene    | < 5                     | 5             | 10061-02-6 |
| Ethylbenzene                 | < 5                     | 5             | 100-41-4   |
| 2-Hexanone                   | < 25                    | 25            | 591-78-6   |
| 4-Methyl-2-Pentanone         | < 25                    | 25            | 108-10-1   |
| Methylene Chloride           | < 5                     | 5             | 75-09-2    |
| Styrene                      | < 5                     | 5             | 100-42-5   |
| 1,1,2,2-Tetrachloroethane    | < 5                     | 5             | 79-34-5    |
| Tetrachloroethene            | < 5                     | 5             | 127-18-4   |
| Toluene                      | < 5                     | 5             | 108-88-3   |
| 1,1,1-Trichloroethane        | < 5                     | 5             | 71-55-6    |
| 1,1,2-Trichloroethane        | < 5                     | 5             | 79-00-5    |
| Trichloroethene              | < 5                     | 5             | 79-01-6    |
| Vinyl acetate                | < 10                    | 10            | 108-05-4   |
| Vinyl chloride               | < 10                    | 10            | 75-01-4    |
| m&p-Xylene                   | < 10                    | 10            | 1330-20-7  |
| o-Xylene                     | < 5                     | 5             | 1330-20-7  |
| SURROGATE RECOVERIES         |                         |               |            |
| SURROGATE                    | CONCENTRATION           | % RECOVERY    | RANGE      |
| 1,2-Dichloroethane-d4 (surr) | 47                      | 94            | 76-114     |
| Toluene-d8 (surr)            | 47                      | 94            | 88-110     |
| 4-Bromofluorobenzene (surr)  | 53                      | 106           | 86-115     |

  
Carl Degner, GC/MS Analyst

  
John Keller, Laboratory Director



401 North 11th • La Porte, Texas 77571

Express Laboratories

(713) 471-0951 • 1 (800) 880-0156 • FAX (713) 471-5821

Customer: ENSR Sample ID: DP-1 Attn: S. EUBANKS  
Client: EXXON - DAL PASO Proj. No: 12620155300  
Proj. Location: HOBBS, NEW MEXICO Environ ID: 34354  
Sample Matrix: LIQUID Sample Depth: \_\_\_\_\_ Sampled: 03/ 01 / 95  
Received: 03/ 02 / 95 Reported: 03/ 08 / 95 Invoice No.: 6937

TOTAL METALS (EPA SW846)

| Metals Dissolved | Method | Results mg/l | Detection Limit mg/l |
|------------------|--------|--------------|----------------------|
| Manganese        | 6010   | 0.25         | 0.02                 |

Analyst: A.R. Date Extracted: 03/03/95 Date Analyzed: 03/03/95 @ 13:20

*John Keller*  
\_\_\_\_\_  
John E. Keller, Ph.D.

# ENVIRON EXPRESS QUALITY CONTROL REPORT

ANALYSIS: METALS - TOTAL | METHOD: EPA SW846 3015/6010/7470 | MATRIX: LIQUID

ANALYSTS: A.R./J.L. | DATE: 03/03/95 | UNITS: PPM (mg/l) | NO.SAMPLES: 6

SAMPLES: 34338 - 34342, 34354

## MATRIX SPIKE & MATRIX SPIKE DUPLICATE ANALYSIS

| SAMPLE<br>34342 | SAMPLE<br>RESULTS | SPIKE<br>ADDED | SPIKE<br>RESULTS | RECOVERY<br>% | RECOVERY<br>DUP. % | RELATIVE<br>DIFF. | CONT.<br>CALIB. | QC LIMITS  |           |
|-----------------|-------------------|----------------|------------------|---------------|--------------------|-------------------|-----------------|------------|-----------|
|                 |                   |                |                  |               |                    |                   |                 | REC. RANGE | REL. DIF. |
| ARSENIC         | 0.0               | 5              | 4.89             | 98            | 94                 | 4                 | 99              | 75 - 125   | 20        |
| BARIUM          | 0.0               | 5              | 4.46             | 89            | 86                 | 4                 | 97              | 75 - 125   | 20        |
| CADMIUM         | 0.0               | 5              | 4.44             | 89            | 85                 | 4                 | 97              | 75 - 125   | 20        |
| CHROMIUM        | 0.0               | 5              | 4.49             | 90            | 86                 | 4                 | 96              | 75 - 125   | 20        |
| LEAD            | 0.0               | 5              | 4.43             | 89            | 85                 | 4                 | 97              | 75 - 125   | 20        |
| MERCURY         | 0.00              | 0.20           | 0.19             | 95            | 95                 | 0                 | 100             | 75 - 125   | 20        |
| SELENIUM        | 0.0               | 5              | 5.33             | 107           | 103                | 3                 | 98              | 75 - 125   | 20        |
| SILVER          | 0.0               | 5              | 4.45             | 89            | 85                 | 5                 | 95              | 75 - 125   | 20        |

  
 \_\_\_\_\_  
 JOHN KELLER, Ph.D  
 Laboratory Director



Baytown Chemical Plant  
Raymond C. Floyd  
SITE MANAGER

December 19, 1994

Mr. William C. Olson  
Hydrogeologist - Environmental Bureau  
New Mexico Oil Conservation District  
Post Office Box 2088  
Santa Fe, New Mexico 87504

**RE: Quarterly Sampling  
Former Exxon Dal Paso Service Facility  
Hobbs, New Mexico**

Dear Mr. Olson:

ENSR Consulting and Engineering (ENSR), on behalf of Exxon Chemical Company (Exxon) has completed the second quarterly sampling event of monitor well DP-1 on Exxon's facility located at 1715 Dal Paso Street, in Hobbs, New Mexico. The sampling was performed in accordance with the New Mexico Oil Conservation Division (OCD) letter dated June 17, 1994. The OCD directed that the groundwater be sampled and analyzed on a quarterly basis for aromatic volatile organics, halogenated volatile organics, polynuclear aromatic hydrocarbons (PAHs), and manganese. The quarterly sampling event was conducted on November 23, 1994.

Prior to collecting the groundwater samples, three well volumes were removed from the well using a PVC bailer. Groundwater was then retrieved with a disposable bailer and poured directly from the bailer into the appropriate sample containers. The samples were properly preserved, labeled, and placed on ice. Chain-of-custody documentation was filled out and sent with the samples to ENVIRON EXPRESS Laboratories in La Porte, Texas for analysis.

As outlined in item 1 of the OCD letter, groundwater was analyzed for aromatic volatile organics, halogenated volatile organics, polynuclear aromatic hydrocarbons (PAHs), and manganese. The analytical results are summarized in Table 1. The complete laboratory report and chain-of-custody documentation are provided as Attachment A.

All of the results are below the New Mexico Water Quality Control Commission ground water standards except for manganese.

Mr. W.C. Olson  
December 19, 1994  
Page 2

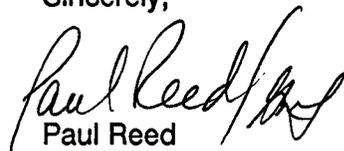
TABLE 1. Groundwater Analytical Results

| Constituent        | Analytical Results<br>DP-1 (mg/L) | New Mexico<br>Groundwater Standard<br>(mg/L) |
|--------------------|-----------------------------------|----------------------------------------------|
| Manganese          | 0.5                               | 0.2                                          |
| Benzene            | 0.005                             | 0.01                                         |
| Chloroform         | 0.012                             | 0.1                                          |
| 1,1-Dichloroethane | 0.017                             | 0.025                                        |
| Ethylbenzene       | 0.010                             | 0.75                                         |
| Xylenes            | 0.029                             | 0.62                                         |

Quarterly sampling will continue as outlined in the OCD letter dated June 17, 1994.

If there are any questions or if I can be of further assistance, please feel free to call me at (713) 425-1237 or Gil Long of ENSR at (713) 520-9900.

Sincerely,



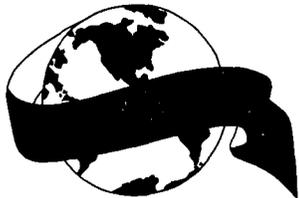
Paul Reed  
Environmental Projects Coordinator  
Environmental Affairs Department

PR:gml

Attachment

cc: Wayne Price, OCD Hobbs District Office  
Trish Carls, Brown McCarroll and Oaks Hartline  
Gil Long, ENSR Consulting and Engineering  
Master File

**ATTACHMENT A**  
**LABORATORY RESULTS**



401 North 11th • La Porte, Texas 77571

Express Laboratories

(713) 471-0951 • 1 (800) 880-0156 • FAX (713) 471-5821

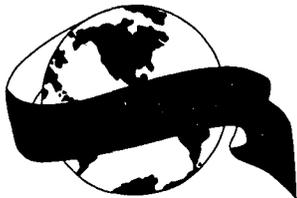
Customer: ENSR Sample ID: DP-1 Attn: S. EUBANKS  
 Client: EXXON - HOBBS Proj. No: 1009005105  
 Proj. Location: HOBBS, NEW MEXICO Environ ID: 31919  
 Sample Matrix: LIQUID Sample Depth: \_\_\_\_\_ Sampled: 11/ 23 / 94  
 Received: 11/ 28 / 94 Reported: 12/ 02 / 94 Invoice No.: 6378

TOTAL METALS (EPA SW846)

| Metals Dissolved | Method        | Results mg/l | Detection Limit mg/l |
|------------------|---------------|--------------|----------------------|
| Manganese        | 3015/<br>6010 | 0.5          | 0.1                  |

Analyst: A.R. Date Extracted: 11/30/94 Date Analyzed: 11/30/94 @ 10:20

*John E. Keller*  
\_\_\_\_\_  
John E. Keller, Ph.D.



401 North 11th • La Porte, Texas 77571

Express Laboratories

(713) 471-0951 • 1 (800) 880-0156 • FAX (713) 471-5821

Customer: ENSR Sample ID: DP-1 Attn: S. EUBANKS

Client: EXXON-HOBBS Proj. No: 1009005105

Proj. Location: HOBBS, NEW MEXICO Environ ID: 31919

Sample Matrix: SOIL Sample Depth: \_\_\_\_\_ Sampled: 11/ 23 / 94

Received: 11/ 28 / 94 Reported: 12/ 02 / 94 Invoice No.: 6378

~~~~~  
TOTAL PAH (EPA 8100)

Compounds	Results mg/kg	Detection Limit mg/kg
Acenaphthene	< 1.0	1.0
Acenaphthylene	< 1.0	1.0
Anthracene	< 1.0	1.0
Benzo (a) anthracene	< 1.0	1.0
Benzo (a) pyrene	< 1.0	1.0
Benzo (b) fluoranthene	< 1.0	1.0
Benzo (k) fluoranthene	< 1.0	1.0
Benzo (ghi) perylene	< 1.0	1.0
Chrysene	< 1.0	1.0
Dibenzo (a, h) anthracene	< 1.0	1.0
Fluoranthene	< 1.0	1.0
Fluorene	< 1.0	1.0
Indeno (1, 2, 3-cd) pyrene	< 1.0	1.0
Naphthalene	< 1.0	1.0
Phenanthrene	< 1.0	1.0
Pyrene	< 1.0	1.0

Analyst: J.K. Date Extracted: 12/02/94 Date Analyzed: 12/02/94 @ 05:23

John E. Keller

John E. Keller, Ph.D.



401 North 11th • La Porte, Texas 77571

Express Laboratories

(713) 471-0951 • 1 (800) 880-0156 • FAX (713) 471-5821

Customer: **ENSR** Sample ID: **DP-1** Environ ID: **31919**

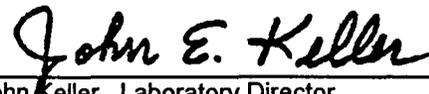
Project: **Exxon, Hobbs, New Mexico, Proj. # 1009-005-105** Matrix: **Liquid**

Date Sampled: **11/23/94** Date Received: **11/28/94** Date/Time Analyzed: **11/29/94 4:46**

EPA SW-846 Method 8240 - Total Volatiles

COMPOUNDS	CONCENTRATION (ug/l)	PQL (ug/l)	CAS #
Acetone	< 25	25	67-64-1
Benzene	5	5	71-43-2
Bromodichloromethane	< 5	5	75-27-4
Bromoform	< 5	5	75-25-2
Bromomethane	< 10	10	75-83-9
2-Butanone	< 10	10	78-93-3
Carbon disulfide	< 5	5	75-15-0
Carbon Tetrachloride	< 5	5	56-23-5
Chlorobenzene	< 5	5	108-90-7
Chloroethane	< 10	10	75-00-3
2-Chloroethyl vinyl ether	< 10	10	110-75-8
Chloroform	12	5	67-66-3
Chloromethane	< 10	10	74-87-3
Dibromochloromethane	< 5	5	124-48-1
1,1-Dichloroethane	17	5	75-34-3
1,2-Dichloroethane	< 5	5	107-06-2
1,1-Dichloroethene	< 5	5	75-35-4
1,2-Dichloroethene (total)	< 5	5	540-59-0
1,2-Dichloropropane	< 5	5	78-87-5
cis-1,3-Dichloropropene	< 5	5	10061-01-5
trans-1,3-Dichloropropene	< 5	5	10061-02-6
Ethylbenzene	10	5	100-41-4
2-Hexanone	< 10	10	591-78-6
4-Methyl-2-Pentanone	< 10	10	108-10-1
Methylene Chloride	< 5	5	75-09-2
Styrene	< 5	5	100-42-5
1,1,2,2-Tetrachloroethane	< 5	5	79-34-5
Tetrachloroethene	< 5	5	127-18-4
Toluene	< 5	5	108-88-3
1,1,1-Trichloroethane	< 5	5	71-55-6
1,1,2-Trichloroethane	< 5	5	79-00-5
Trichloroethene	< 5	5	79-01-6
Vinyl acetate	< 10	10	108-05-4
Vinyl chloride	< 10	10	75-01-4
m&p-Xylene	10	10	1330-20-7
o-Xylene	19	5	1330-20-7
SURROGATE RECOVERIES			
SURROGATE	CONCENTRATION	% RECOVERY	RANGE
1,2-Dichloroethane-d4 (surr)	51	102	70-121
Toluene-d8 (surr)	51	102	81-117
4-Bromofluorobenzene (surr)	53	106	74-121


Carl Degner, GC/MS Analyst


John Keller, Laboratory Director

ENVIRON EXPRESS QUALITY CONTROL REPORT

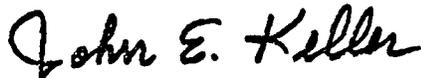
ANALYSIS: METALS - TOTAL | METHOD: EPA SW846 3015/6010/7470 | MATRIX: LIQUID

ANALYSTS: A.R./J.L. | DATE: 11/30/94 | UNITS: PPM (mg/l) | NO.SAMPLES: 6

SAMPLES: 31919 - 31924, 31952

MATRIX SPIKE & MATRIX SPIKE DUPLICATE ANALYSIS

SAMPLE MATRIX	SAMPLE RESULTS	SPIKE ADDED	SPIKE RESULTS	RECOVERY %	RECOVERY DUP. %	RELATIVE DIFF.	CONT. CALIB.	QC LIMITS	
								REC. RANGE	REL. DIF.
ARSENIC	0.0	5	5.0	100	101	1	102	80 - 120	20
BARIUM	0.0	5	5.0	101	102	1	98	80 - 120	20
CADMIUM	0.0	5	5.1	101	102	1	98	80 - 120	20
CHROMIUM	0.0	5	5.1	102	103	1	99	80 - 120	20
LEAD	0.0	5	5.1	102	101	1	99	80 - 120	20
MERCURY	0.00	0.10	0.10	100	90	11	90	80 - 120	20
SELENIUM	0.0	5	5.2	103	102	1	102	80 - 120	20
SILVER	0.0	5	4.9	98	101	3	95	80 - 120	20



 JOHN KELLER, Ph.D
 Laboratory Director



STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION
HOBBS DISTRICT OFFICE

BRUCE KING
GOVERNOR

POST OFFICE BOX 1980
HOBBS, NEW MEXICO 88241-1980
(505) 393-6161

NMOCD Inter-Correspondence

To: Bill Olson-Hydrogeologist Environmental Bureau

From: Wayne Price-Environmental Engineer District I

Date: November 23, 1994

Reference: Former Exxon Dal Paso Service Facility

Subject: Quarterly Sampling of Monitor Well

Comments:

Dear Bill,

On November 23, 1994, I witnessed the sampling of the monitor well at the facility listed above in Hobbs, NM. Shawn Eubanks of the ENSR Co. performed the sampling. Please note there is a considerable difference in the olfactory smells of the monitor well this time than from last time. Mr. Eubanks also noticed a change. The water has a significant increased hydrocarbon smell. I checked it using a 40ml vol headspace method above the liquid level with my PID. The PID read over 150 ppm of volatiles. The water has about .5 % of solids or less. The solids will settle out after a period of time. From a field observation it appears that the hydrocarbon is attached more so to the solids than in the water phase, which might effect the results if only the water phase is tested.

I recommend that if the analytical results do not reflect an increase in volatiles, then we should ask for a spilt sample next time to verify the results.

If you need any further information please don't hesitate to call or write.

Thanks!

cc: Jerry Sexton-District I Supervisor
Roger Anderson-Environmental Bureau Chief



Baytown Chemical Plant
Raymond C. Floyd
SITE MANAGER

September 27, 1994

RECEIVED
SEP 30 1994
OIL CONSERVATION DIV.
SANTA FE

Mr. William C. Olson
Hydrogeologist - Environmental Bureau
New Mexico Oil Conservation District
Post Office Box 2088
Santa Fe, New Mexico 87504

**RE: Quarterly Sampling
Former Exxon Dal Paso Service Facility
Hobbs, New Mexico**

Dear Mr. Olson:

ENSR Consulting and Engineering (ENSR), on behalf of Exxon Chemical Company (Exxon) has completed the first quarterly sampling event of monitor well DP-1 on Exxon's facility located at 1715 Dal Paso Street, in Hobbs, New Mexico. The sampling was performed in accordance with the New Mexico Oil Conservation Division (OCD) letter dated June 17, 1994. The OCD directed that the groundwater be sampled and analyzed on a quarterly basis for aromatic volatile organics, halogenated volatile organics, polynuclear aromatic hydrocarbons (PAHs), and manganese. The first quarterly sampling event was conducted on August 30, 1994.

Prior to collecting the groundwater samples, three well volumes were removed from the well using a PVC bailer. Groundwater was then retrieved with a disposable bailer and poured directly from the bailer into the appropriate sample containers. The samples were properly preserved, labeled, and placed on ice. Chain-of-custody documentation was filled out and sent with the samples to ENVIRON EXPRESS Laboratories in La Porte, Texas for analysis.

As outlined in item 1 of the OCD letter, groundwater was analyzed for aromatic volatile organics, halogenated volatile organics, polynuclear aromatic hydrocarbons (PAHs), and manganese. The analytical results are summarized in Table 1. The complete laboratory report and chain-of-custody documentation are provided as Attachment A.

1009L005.01

Mr. W.C. Olson
September 27, 1994
Page 2

TABLE 1. Groundwater Analytical Results

Constituent	Analytical Results DP-1 (mg/L)	New Mexico Groundwater Standard (mg/L)
Manganese	0.7	0.2
Benzene	0.005	0.01
Chloroform	0.009	0.1
1,1,-Dichloroethane	0.019	0.025
Ethylbenzene	0.008	0.75
Xylenes	0.065	0.62

All these results are below the New Mexico Water Quality Control Commission ground water standards except for manganese.

Quarterly sampling will continue as outlined in the OCD letter dated June 17, 1994.

If there are any questions or if I can be of further assistance, please feel free to call me or Jay Swindle of ENSR at (713) 520-9900.

Sincerely,



Paul Reed
Environmental Projects Coordinator
(713) 425-1237

PR:wah

Attachment

cc: Wayne Price, OCD Hobbs District Office
Trish Carls, Brown McCarroll and Oaks Hartline
Jay Swindle, ENSR Consulting and Engineering
Master File

ATTACHMENT A
LABORATORY RESULTS



401 North 11th • La Porte, Texas 77571

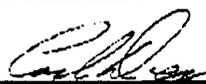
Express Laboratories

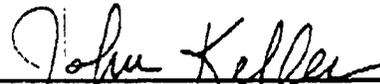
(713) 471-0951 • 1 (800) 880-0156 • FAX (713) 471-5821

Customer: **ENSR** Sample ID: **DP - 1** Environ ID: **29566**
 Project: **ENSR - Exxon, Hobbs, NM, Proj. # 1009-005-105** Matrix: **Liquid**
 Date Sampled: **8/30/94** Date Received: **8/31/94** Date/Time Analyzed: **8/31/94 17:31**

EPA Method 624 - Priority Pollutants + Xylenes

COMPOUNDS	CONCENTRATION (ug/l)	PQL (ug/l)	CAS #
Acrolein	< 50	50	107-02-8
Acrylonitrile	< 20	20	107-13-1
Benzene	< 5	5	71-43-2
Bromodichloromethane	< 5	5	75-27-4
Bromoform	< 5	5	75-25-2
Bromomethane	< 10	10	75-83-9
Carbon Tetrachloride	< 5	5	56-23-5
Chlorobenzene	< 5	5	108-90-7
Chloroethane	< 10	10	75-00-3
2-Chloroethyl vinyl ether	< 10	10	110-75-8
Chloroform	9	5	67-68-3
Chloromethane	< 10	10	74-87-3
Dibromochloromethane	< 5	5	124-48-1
Dichlorodifluoromethane	< 10	10	75-71-8
1,1-Dichloroethane	19	5	75-34-3
1,2-Dichloroethane	< 5	5	107-06-2
1,1-Dichloroethene	< 5	5	75-35-4
trans-1,2-Dichloroethene	< 5	5	540-59-0
1,2-Dichloropropane	< 5	5	78-87-5
cis-1,3-Dichloropropene	< 5	5	10061-01-5
trans-1,3-Dichloropropene	< 5	5	10061-02-8
Ethylbenzene	8	5	100-41-4
Methylene Chloride	< 5	5	75-09-2
1,1,2,2-Tetrachloroethane	< 5	5	79-34-5
Tetrachloroethene	< 5	5	127-18-4
Toluene	< 5	5	108-88-3
1,1,1-Trichloroethane	< 5	5	71-55-6
1,1,2-Trichloroethane	< 5	5	79-00-5
Trichloroethene	< 5	5	79-01-8
Vinyl chloride	< 10	10	75-01-4
m&p-Xylene	< 10	10	1330-20-7
o-Xylene	22	5	1330-20-7
SURROGATE RECOVERIES			
SURROGATE	CONCENTRATION	% RECOVERY	RANGE
1,2-Dichloroethane-d4 (surr)	43	86	70-121
Toluene-d8 (surr)	52	104	81-117
4-Bromofluorobenzene (surr)	50	100	74-121


 Carl Degner, GC/MS Analyst


 John Keller, Laboratory Director



401 North 11th • La Porte, Texas 77571

Express Laboratories

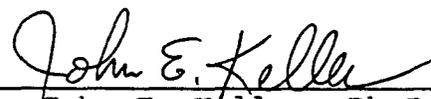
(713) 471-0951 • 1 (800) 880-0156 • FAX (713) 471-5821

Customer: ENSR Sample ID: DP-1 Attn: S. EUBANKS
 Client: ENSR-EXXON Proj. No: 1009005105
 Proj. Location: HOBBS, NM Environ ID: 29556
 Sample Matrix: LIQUID Sample Depth: _____ Sampled: 08/ 30 / 94
 Received: 08/ 31 / 94 Reported: 09/ 06 / 94 Invoice No.: 5840

TOTAL PAH (EPA 8100)

Compounds	Results mg/l	Detection Limit mg/l
Acenaphthene	< 0.5	0.5
Acenaphthylene	< 0.5	0.5
Anthracene	< 0.5	0.5
Benzo (a) anthracene	< 0.5	0.5
Benzo (a) pyrene	< 0.5	0.5
Benzo (b) fluoranthene	< 0.5	0.5
Benzo (k) fluoranthene	< 0.5	0.5
Benzo (ghi) perylene	< 0.5	0.5
Chrysene	< 0.5	0.5
Dibenzo (a, h) anthracene	< 0.5	0.5
Fluoranthene	< 0.5	0.5
Fluorene	< 0.5	0.5
Indeno (1, 2, 3-cd) pyrene	< 0.5	0.5
Naphthalene	< 0.5	0.5
Phenanthrene	< 0.5	0.5
Pyrene	< 0.5	0.5

Analyst: J.K. Date Extracted: 08/30/94 Date Analyzed: 08/30/94 @ 17:27


 John E. Keller, Ph.D.



Express Laboratories

401 North 11th • La Porte, Texas 77571

(713) 471-0951 • 1 (800) 880-0156 • FAX (713) 471-5821

Customer: ENSR Sample ID: DP-2 Attn: S. EUBANKS
Client: EXXON Proj. No: 1009005105
Proj. Location: HOBBS, N.M. Environ ID: 29556
Sample Matrix: WATER Sample Depth: _____ Sampled: 08/ 30 / 94
Received: 08/ 30 / 94 Reported: 09/ 07 / 94 Invoice No.: 5840

TOTAL METAL

Metals	Method	Results mg/l	Detection Limit mg/l
Dissolved Manganese	6010	0.7	0.1

Analyst: A.R. Date Extracted: 09/06/94 Date Analyzed: 09/06/94 @ 15:01

John E. Keller

John E. Keller, Ph.D.

ENVIRON EXPRESS QUALITY CONTROL REPORT

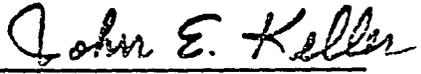
ANALYSIS: METALS - TOTAL | METHOD: EPA SW846 3015/6010/7470 | MATRIX: LIQUID

ANALYSTS: A.R./J.L. | DATE: 09/06/94 | UNITS: PPM (mg/l) | NO. SAMPLES: 5

SAMPLES: 29556, 29586 - 29587, 29709, 29719

MATRIX SPIKE & MATRIX SPIKE DUPLICATE ANALYSIS

SAMPLE MATRIX	SAMPLE RESULTS	SPIKE ADDED	SPIKE RESULTS	RECOVERY %	DUPLICATE RESULTS	RELATIVE DIFF.	CONT. CALIB.	QC LIMITS	
								REC. RANGE	REL. DIF.
ARSENIC	0.0	5	4.6	92	4.5	1	98	80 - 120	20
CHROMIUM	0.0	5	4.6	92	4.5	2	98	80 - 120	20
MANGANESE	0.0	5	4.6	92	4.6	0	97	80 - 120	20
ZINC	0.0	5	4.6	92	4.5	1	96	80 - 120	20



JOHN KELLER, Ph.D
Laboratory Director



STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION



BRUCE KING
GOVERNOR

ANITA LOCKWOOD
CABINET SECRETARY

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87504
(505) 827-5800

June 17, 1994

CERTIFIED MAIL
RETURN RECEIPT NO. P-111-334-133

Mr. J. Paul Reed
Environmental Project Coordinator
Baytown Chemical Plant
Exxon Chemical
P.O. Box 4004
Baytown, Texas 77522-4004

**RE: GROUND WATER INVESTIGATION
FORMER DAL PASO SERVICE FACILITY
HOBBS, NEW MEXICO**

Dear Mr. Reed:

The New Mexico Oil Conservation Division (OCD) has completed a review of Exxon Chemical Americas' May 1994 "INITIAL GROUNDWATER ASSESSMENT REPORT, FORMER EXXON CHEMICAL FACILITY 1715 DAL PASO STREET, HOBBS, NEW MEXICO" which was received by the OCD on May 25, 1994. This report presents the results of Exxon's ground water investigation at Exxon's former Dal Paso service facility located in Hobbs, New Mexico.

The investigation activities performed are satisfactory. However, the sampling results show that elevated levels of 1,1 dichloroethane, xylene, naphthalene and manganese are present in the dissolved phase in ground water from the site monitor well. Since these contaminants are at or below the New Mexico Water Quality Control Commission ground water standards, the OCD defers comment on the need for additional investigations at this time. Instead, the OCD requires that Exxon:

1. Sample the ground water from the monitor well for aromatic volatile organics, halogenated volatile organics, polynuclear aromatic hydrocarbons and manganese on a quarterly basis.

Mr. J. Paul Reed
June 17, 1994
Page 2

2. Submit reports to the OCD Santa Fe Office with copies sent to the OCD Hobbs Office which contain the results of the quarterly sampling by October 1, January 1, April 1 and July 1 of each respective year. The first quarterly report will be due on October 1, 1994.
3. Notify the OCD at least one week in advance of all scheduled sampling events such that the OCD has the opportunity to witness the events and/or split samples.

If you have any questions, please contact me at (505) 827-5885.

Sincerely,



William C. Olson
Hydrogeologist
Environmental Bureau

xc: Jerry Sexton, OCD Hobbs District Supervisor
Wayne Price, OCD Hobbs District Office
Jay Swindle, ENSR

P 111 334 133

PS Form **3800**, June 1991

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Baytown Chemical Plant
Raymond C. Floyd
SITE MANAGER

VIA OVERNIGHT MAIL

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May 24, 1994

MAK 25 1994

OIL CONSERVATION DIV.
SANTA FE

Monitor Well Installation and Sampling
Results - Former Exxon Dal Paso and
West Marland Service Facilities
Hobbs, New Mexico

Mr. William C. Olson
State of New Mexico
Energy, Minerals and Natural Resources Dept.
Oil Conservation Division
State Land Office Building
Santa Fe, New Mexico 87504

Dear Mr. Olson:

As per the Monitor Well Installation Work Plan approved by your office on January 31, 1994, please find attached the Well Installation and Sampling Reports for the above mentioned sites. Groundwater samples from the West Marland facility were collected in March and April 1994, and no contamination above the New Mexico groundwater cleanup standards was detected. However, the Dal Paso facility samples, also collected in March and April 1994, indicated a manganese concentration ranging from 0.3 ppm to 0.5 ppm which is slightly above the New Mexico standards of 0.2 ppm.

In order to ensure adequate reporting, the initial Dal Paso sampling data was sent to Roger Anderson at OCD via telefax on March 31, 1994. The wells at both facilities were sampled again on April 25, 1994. The Dal Paso results were sent to you via telefax on May 5, 1994.

To the best of Exxon's knowledge, neither Exxon nor the previous owner used or managed products containing manganese. Exxon believes that the manganese may be native to the area soils. Therefore, Exxon recommends that the background concentrations of manganese be determined to confirm that operational activities have not impacted the groundwater.

Please let me know your thoughts regarding this recommendation. Please feel free to call if you have questions regarding the reports.

Very truly yours,

Paul Reed by Shawn Roberts
Paul Reed
Env. Projects Coordinator
(713) 425-1237

Enclosures

TELEFAX

TO: Bill Olson
Company: New Mexico OCD
FAX Number: (505) 827 5741

Date: May 5, 1994
No. of Pages: 1
Urgent: Yes

From: Paul Reed
Exxon Chemical Americas
(713) 425 1237
(713) 425 5788 FAX

Notes:

Bill,

We resampled the monitor wells at both the Marland Street and Dal Paso Street sites in Hobbs and analyzed the metals on a dissolved metals basis. The Marland Street sample was clean again. The Dal Paso Street sample showed the following for **Manganese - 0.3 ppm**. The New Mexico standard for Manganese is 0.2 ppm. We are putting together our formal report and have it to you by June 1.

Please call me if you have questions. I look forward to discussing the Manganese issue with you after you have read the report or earlier if you wish. Thanks.

EXXON CHEMICAL AMERICAS

Baytown Chemical Plant
Raymond C. Floyd
SITE MANAGER

VIA TELEFAX

March 31, 1994

**Notification of Potential Ground Water
Contamination - Exxon Chemical Facility
1715 Dal Paso in Hobbs, New Mexico**

Mr. Roger Anderson
State of New Mexico
Energy, Minerals and Natural Resources Department
Oil Conservation Division

Dear Mr. Anderson:

As per the Oil Conservation Division (OCD) approved monitor well installation plan at the above facility, the monitor well was installed, developed and sampled during the week of March 14, 1994. The ground water sample analytical data is attached for your review. As you can see the sample contained elevated levels of iron, manganese, and uranium.

Over the past two days Exxon's consultant, ENSR Consulting & Engineering, and I have been in telephone contact with your office regarding this data. Please note that the data is based on total metals rather than dissolved metals. We are following OCD's guidance and re-running the analysis for the metals on a dissolved metals basis. Exxon has asked the laboratory to re-run the sample and will provide your office with this data as soon as it is available. If the "re-run" sample cannot be adequately analyzed then Exxon will resample the well and notify OCD.

This letter serves as notice that the ground water at this site is potentially contaminated with the above metals. Please call Mr. Jay Swindle of ENSR at (713) 520 9900 or me if you have questions.

Very truly yours,

A handwritten signature in cursive script that reads "Paul Reed".

Paul Reed
Env. Projects Coordinator
(713) 425 1237

JPR1015

P.O. BOX 4004, Baytown, Texas 77522-4004
A Division of Exxon Chemical Company. A Division of Exxon Corporation





Express Laboratories

401 North 11th • La Porte, Texas 77571

(713) 471-0951 • (800) 880-0156 • FAX (713) 471-5831

1009-005-103
 DP-100
 PAGE 1 of 1

Customer: ENSR Sample ID: DP-100* Attn: S. SURANCE
 Client: EXXON - DAL PASO Proj. No: 1009005103
 Proj. Location: HOERS, NM Environ ID: 25305
 Sample Matrix: LIQUID Sample Depth: _____ Sampled: 03/18/94
 Received: 03/21/94 Reported: 03/28/94 Invoice No.: 4888

TOTAL RCRA METALS

Metals	Method	Results mg/l	Detection Limit mg/l
Aluminum	6010	92.0	0.1
Arsenic	6010	< 0.1	0.1
Barium	6010	0.6	0.1
Boron	6010	0.4	0.1
Cadmium	6010	< 0.1	0.1
Chromium	6010	< 0.1	0.1
Cobalt	6010	< 0.1	0.1
Copper	6010	< 0.1	0.1
Iron	6010	57.1	0.1
Lead	6010	< 0.1	0.1
Manganese	7470	0.9	0.01
Mercury	7470	< 0.01	0.01
Nickel	6010	< 0.1	0.1
Selenium	6010	< 0.1	0.1
Silver	6010	< 0.1	0.1
Uranium	6010	24.1	0.1
Zinc	6010	0.7	0.1

Analyst: A.R. Date Extracted: 03/25/94 Date Analyzed: 03/29/94 8:14:12

* DUPLICATE OF DP-1

John E. Keller
 JOHN E. KELLER, Ph.D.

03-31-1994 13:17 713 522 4815 ENSR ESSE HOU, TX, PH (713) 520-8800 P.03/03

MAR-28-94 10:08 FROM: ENVIRON EXPRESS LABS

ID: 713 471 8851

PAGE 2

1009-005-105

DP-1

PAGE 1 of 1



401 North 11th • La Porte, Texas 77571

Service Laboratories

(713) 471-0951

1 (800) 880-0154

FAX (713) 471-5821

Totals

Customer: EXXON Sample ID: DP-1 Attn: S. FORANKE
 Client: EXXON - DAL PASO Proj. No: 1009005105
 Proj. Location: ROBBS, NM Environ ID: 25304
 Sample Matrix: LIQUID Sample Depth: _____ Sampled: 03/18/94
 Received: 03/21/94 Reported: 03/28/94 Invoice No.: 4885

TOTAL RCRA METALS

Metals	Method	Results mg/l	Detection Limit mg/l
Aluminum	6010	55.2	0.1
Arsenic	6010	< 0.1	0.1
Barium	6010	0.5	0.1
Boron	6010	0.4	0.1
Cadmium	6010	< 0.1	0.1
Chromium	6010	< 0.1	0.1
Cobalt	6010	< 0.1	0.1
Copper	6010	< 0.1	0.1
Iron	6010	34.1	0.1
Lead	6010	< 0.1	0.1
Manganese	7470	0.6	0.01
Mercury	7470	< 0.01	0.01
Nickel	6010	< 0.1	0.1
Selenium	6010	< 0.1	0.1
Silver	6010	< 0.1	0.1
Uranium	6010	14.6	0.1
Zinc	6010	0.6	0.1

Analyst: A.R. Date Extracted: 03/25/94 Date Analyzed: 03/28/94 8 14:12

John E. Keller
John E. Keller, Ph.D.

EXXON CHEMICAL AMERICAS

Baytown Chemical Plant
Raymond C. Floyd
SITE MANAGER

March 4, 1994

Monitor Well Installation and Sampling
Exxon Chemical Facilities
Dal Paso & West Marland Streets, Hobbs, NM

Mr. William C. Olson
Hydrogeologist - Environmental Bureau
New Mexico Oil Conservation Division
Post Office Box 2088
State Land Office Building
Santa Fe, New Mexico 87504

Dear Mr. Olson:

The purpose of this letter is to notify the New Mexico Oil Conservation Division (OCD) of upcoming field activities at the above-referenced facilities. Scheduled activities include the installation of one monitor well at each site and subsequent groundwater sampling as described in the "Monitor Well Installation and Sampling Work Plans" submitted to the OCD in January 1994.

The work will be performed by a state-licensed drilling subcontractor under the supervision of Exxon Chemical Americas (Exxon) and ENSR Consulting and Engineering (ENSR) personnel. The work is scheduled to begin at the West Marland Street facility on Tuesday March 15, 1994. You or any of your staff are welcome to observe the field activities and to take split samples.

If you have any questions concerning this matter, please contact me at your convenience.

Sincerely,

A handwritten signature in cursive script that reads "Alice E. McHugh for".

J. Paul Reed
Environmental Project Coordinator
Baytown Chemical Plant - W435
Safety and Environmental Department
(713) 425-1237

cc: Patricia Carls - Brown McCarroll & Oaks Hartline
Jay Swindle - ENSR Consulting and Engineering
Master File

AEM\B:hobbmw.ltr



Baytown Chemical Plant
Raymond C. Floyd
SITE MANAGER

January 21, 1994

Former Exxon Chemical Facilities
Dal Paso and West Marland Sites, Hobbs, NM

Mr. William C. Olson
State of New Mexico
Energy, Minerals and Natural Resources Department
Oil Conservation Division
State Land Office Building
Santa Fe, New Mexico 87504

RECEIVED

JAN 26 1994

OIL CONSERVATION DIV
SANTA FE

VIA OVERNIGHT DELIVERY

Dear Mr. Olson:

As requested in your November 18, 1993 letter, enclosed for your review and approval are two copies each of the Monitor Well Installation and Sampling Draft Work Plans for the former Exxon facilities located in Hobbs, New Mexico.

If you have any questions or comments concerning this matter, please call me at any time.

Sincerely,

for Alice E. McHugh

J. Paul Reed
Environmental Project Coordinator
(713) 425-1237

Enclosures

cc: Ms. Trish Carls - Brown McCarroll & Oaks Hartline
Mr. Jay Swindle - ENSR Consulting and Engineering
Master File

AEM\B:hobbs\hobbspln.ltr

ENSR

RECEIVED

APR 29 1993

**OIL CONSERVATION DIV.
SANTA FE**

**ENSR Consulting
and Engineering**

3000 Richmond Avenue
Houston, Texas 77098
(713) 520-9900
(713) 520-6802 (FAX)

April 28, 1993

Mr. William C. Olson
Hydrogeologist - Environmental Bureau
Oil Conservation Division
Land Office Building, State of New Mexico
P. O. Box 2088
Santa Fe, New Mexico 87504-2088

Re: Response to Comments, Removal Action Workplans
Former Exxon Dal Paso and West Marland Service Facilities
Hobbs, New Mexico

Dear Mr. Olson,

On behalf of Exxon Chemical Company, ENSR Consulting and Engineering (ENSR) is submitting this response to your letter dated March 29, 1993. The responses to your individual comments are as follows:

COMMENT 1

"The hazardous waste characteristics for contaminated soils from both facilities, with the exception of soils around the septic tank at the Dal Paso facility, were composites of different source areas. The OCD requires that composite samples for determining hazardous waste characteristics be taken of representative contaminated soils from each individual source area. Please sample representative contaminated soils from each source area, analyze the soils for hazardous waste characteristics and provide the results to OCD."

RESPONSE

Dal Paso Street Location:

The area of contaminated soil at the Dal Paso facility is restricted to one small area in the facility yard. This area was the former waste oil storage area and is shown on the attached figure taken from the Phase II Site Inspection Report (Figure 2-3). The contaminated area represents less than 100 cubic yards of soil and was sampled as a discrete sample during the Phase II Investigation and later as a composite sample for waste disposal analysis.

The discrete sample (Sample MBA-2A, Figure 3-2) was analyzed for Target Compound List (TCL) volatile and semi-volatile organic compounds and total metals. As reported in the Phase II report, the analytical results did not reveal the presence of any toxic constituents at levels that would require regulation under RCRA's Toxicity Characteristic (TC) Rule (ie. hazardous). The analytical laboratory report for the discrete sample collected from the waste oil storage area, sample MBA-2A, is attached along with a summary table taken from the Phase II report.



Page 2
Mr. William C. Olson
April 28, 1993

A composite sample was collected from the same area for waste classification. As reported in our letter dated February 4, 1993, the laboratory analytical results did not indicate the presence of TC constituents at levels that would render the soil as hazardous waste upon disposal and confirms the earlier sampling. A summary of the previously submitted waste characterization analytical results is also attached for your review.

Based on analytical results from both discrete and composite samples, the soil which is to be removed from the facility is classified as non-hazardous. After careful review, it appears that existing analytical data is sufficient to properly classify the waste soils as non-hazardous.

West Marland Street Location:

The contamination at the inactive West Marland Street facility appears to have resulted from spilled diesel fuel from a former above ground diesel storage tank and from leaking diesel fuel from heavy construction equipment parked on site. A site plan is provided on the attached figure taken from the Phase II Site Inspection Report (Figure 2-2).

Discrete soil sampling of the site revealed three areas of contamination which include the former diesel storage tank area (Samples DT-1A, DT-2A, DT-2B), the septic tank area (Sample TR-1A) and in the yard area directly south of the tanks (Sample YS-4A). The sample locations are provided in Figure 3-1. The three areas of contamination on site represent less than 100 cubic yards of soil in total. The physical and analytical characteristics of the contamination at each of the three contaminated areas are very similar and all appear to be the result of diesel fuel contamination.

As reported in the Phase II Report, laboratory analysis indicated that all three areas contain elevated total petroleum hydrocarbon concentrations. In addition, TCL volatile and semi-volatile compounds detected in grab samples collected at the former location of the above ground diesel tank and in the initial trenching activities near the septic tank are nearly identical and do not indicate the presence of TC constituents that would require regulation under RCRA. The third petroleum contaminated area, sample YS-4A, was not sampled for volatile, semi-volatile or metals because it appears to be a small surface stain which will account for less than two cubic yards of contaminated soil. The analytical laboratory reports for the discrete samples collected from the three area of contamination are attached along with a summary table taken from the Phase II report.

A composite sample was collected from the three areas for waste classification. As reported in our letter dated February 4, 1993, the laboratory analytical results did not indicate the presence of TC constituents at levels that would render the soil as hazardous waste upon disposal and confirms the earlier sampling. A summary of the previously submitted waste characterization analytical results is also attached for your review.



Page 3
Mr. William C. Olson
April 28, 1993

No physical or analytical evidence exists from discrete or composite samples collected from these three areas that would indicate disposal as a hazardous waste. In addition, it appears that existing analytical data is sufficient to properly classify the waste soils as non-hazardous.

COMMENT 2

"The total lead concentrations in some of the contaminated soils samples were relatively high. However, the TCLP lead analyses for these areas show concentrations at the detection limit for the analysis. Please explain these discrepancies in the analytical results."

RESPONSE

Total lead contamination was shown by grab sample analysis to exist in the waste oil storage area and the truck washing area at the Dal Paso facility (lead contamination was not found at the West Marland facility). TCLP metals sampling of the same areas did not indicate the presence of lead contamination. The discrepancy between the total lead concentrations and the TCLP concentrations from the samples collected at the Dal Paso facility is most likely due to a lead source that is not leachable under TCLP analytical methods. Although the nature of the lead source is not known, ENSR does not believe that additional sampling for this area should be required.

ENSR understands your concerns over the possibility of sending hazardous waste to an inappropriate facility. However, we believe that the existing analytical data is sufficient to properly classify the waste soils as non-hazardous. Based on the information provided in this letter and our letter dated February 4, 1993, ENSR is requesting (on behalf of EXXON) authorization for disposal of the contaminated soils in the CRI landfill near Hobbs, New Mexico.

If you have any questions or comments, please contact us at (713) 520-9900.

Sincerely,

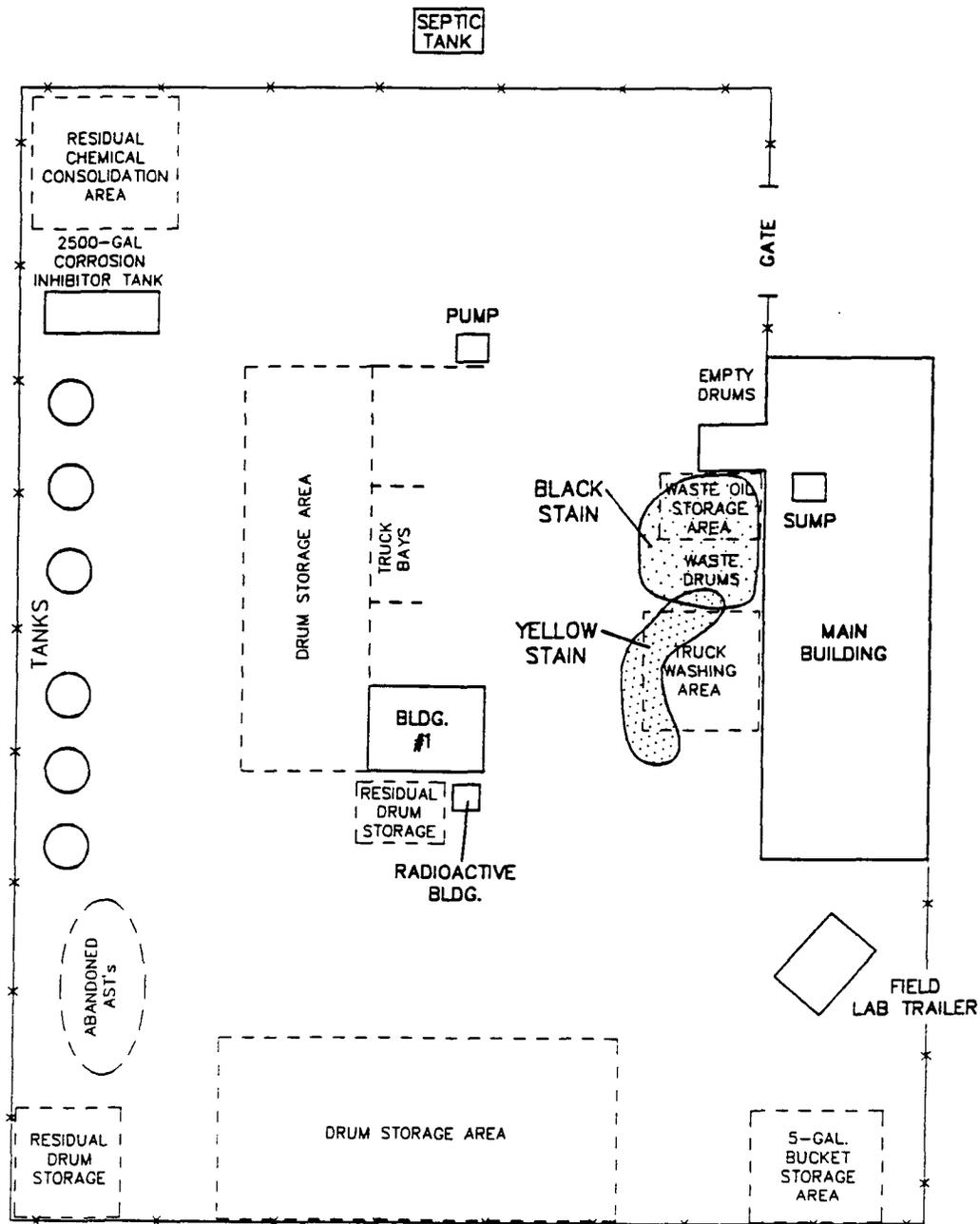

J. Scott Kuykendall
Staff Geologist


Jay L. Swindle, P.E.
Project Manager

Attachments

cc: Paul Reed - Exxon Chemical Company
Keith Hopson - Brown McCarroll and Oaks Hartline

FIGURES AND TABLES
FORMER EXXON CHEMICAL FACILITY
DAL PASO STREET, HOBBS NEW MEXICO



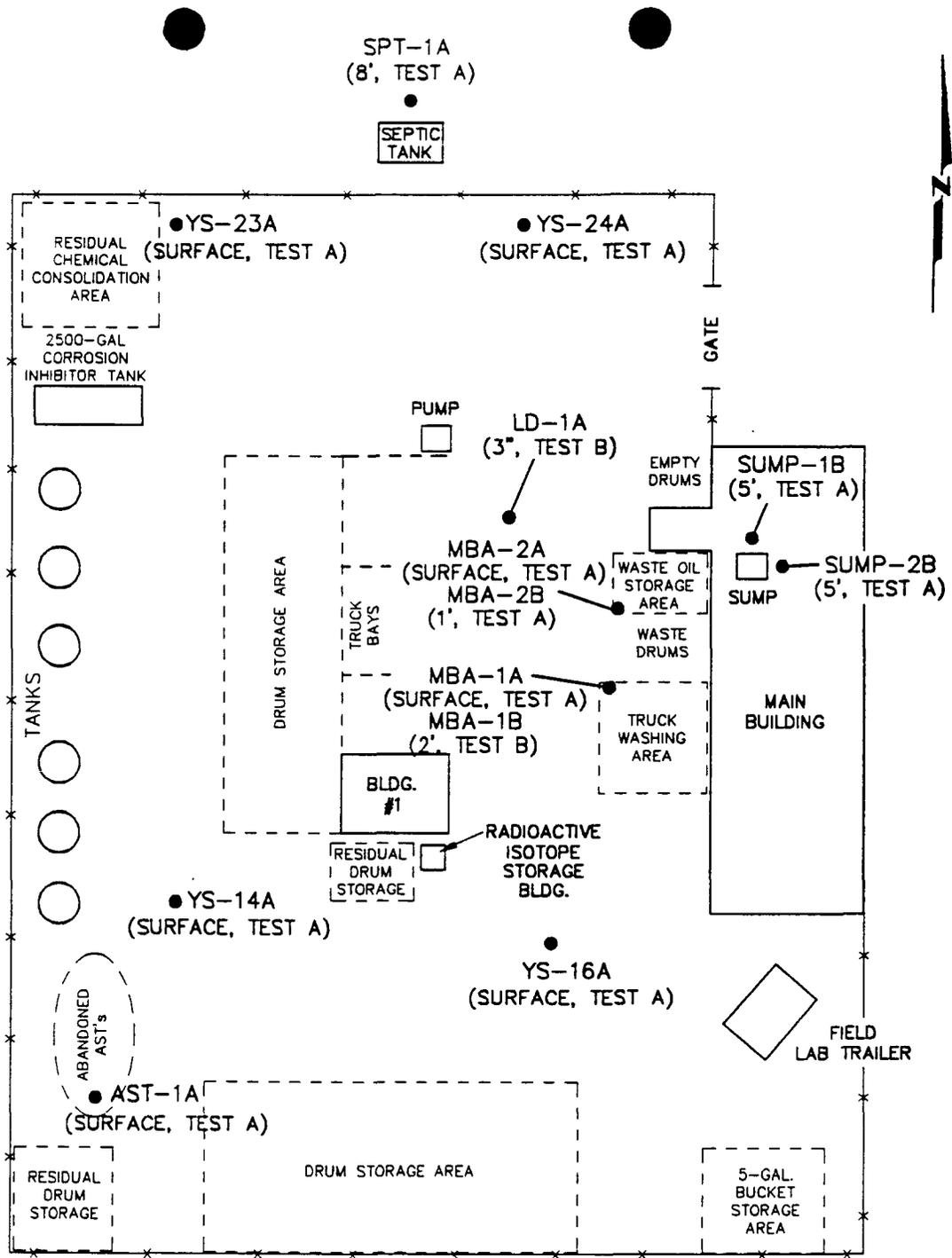
ENSRTM
ENSR CONSULTING & ENGINEERING

FIGURE 2-3
FENCED YARD AREA PLOT PLAN
CHEMICAL DISTRIBUTION FACILITY
HOBBS, NEW MEXICO

DRAWN: SJF	DATE: 6-9-92	PROJECT NUMBER:
APPVD:	REVISED:	1009-001-150

NOT TO SCALE

CE100920



LEGEND

● - SAMPLE LOCATION

NOTE: SURFACE SAMPLES COLLECTED BENEATH CALICHE PAD.
 TEST A - TPH, ph, RCRA METALS.
 TEST B - TPH, ph, RCRA METALS, TOTAL VOLATILES, TOTAL SEMI-VOLATILES.

NOT TO SCALE

ENSR TM		
ENSR CONSULTING & ENGINEERING		
FIGURE 3-2		
FENCED YARD SAMPLE LOCATIONS		
CHEMICAL DISTRIBUTION FACILITY		
HOBBS, NEW MEXICO		
DRAWN: SJF	DATE: 3-10-92	PROJECT NUMBER:
APP'VD:	REVISED:	1009-001-150

CE100910

Table 6.1
Analytical Test Results
Site Inspection
Exxon Chemical Americas
Hobbs, NM
Dal Paso Site

Sample I.D.	Location	Depth	TPH 8015 (M) (mg/kg)	Total Metals (mg/kg)										pH	Detected Total Volatiles Code(ug/kg)	Detected Total Semivolatiles Code(ug/kg)
				Ag	As	Ba	Cd	Cr	Hg	Pb	Se					
YS-1A	Yard Grid Sample	Surface	BDL	BDL	9.8	89	BDL	8.0	BDL	31	BDL	0.3	7.99			
YS-2A	Yard Grid Sample	Surface	BDL	9.9	120	BDL	7.0	BDL	BDL	BDL	BDL	BDL	8.12			
YS-3A	Yard Grid Sample	Surface	BDL	3.1	120	BDL	6.2	BDL	24	BDL	24	BDL	7.84			
YS-4A	Yard Grid Sample	Surface	BDL	2.4	110	BDL	15	BDL	9.9	BDL	8	BDL	7.85			
YS-5A	Yard Grid Sample	Surface	BDL	1.1	73	BDL	7.8	BDL	8	BDL	21	BDL	7.87			
YS-6A	Yard Grid Sample	Surface	BDL	1.1	110	BDL	6.6	BDL	21	BDL	6	BDL	7.72			
YS-7A	Yard Grid Sample	Surface	BDL	1.2	63	BDL	7.9	BDL	6	BDL	BDL	BDL	7.98			
YS-8A	Yard Grid Sample	Surface	BDL	1.0	58	BDL	7.6	BDL	BDL	BDL	BDL	BDL	7.99			
YS-9A	Yard Grid Sample	Surface	BDL	1.6	100	BDL	6.1	BDL	8.4	BDL	8.4	BDL	7.84			
YS-10A	Yard Grid Sample	Surface	BDL	0.8	71	BDL	5.9	BDL	8.2	BDL	8.2	BDL	8.07			
YS-11A	Yard Grid Sample	Surface	BDL	0.8	91	BDL	5.7	BDL	14	BDL	14	BDL	7.97			
YS-12A	Yard Grid Sample	Surface	BDL	4.0	3600	BDL	15	BDL	37	0.4	7.77					
YS-13A	Yard Grid Sample	Surface	BDL	2.0	330	BDL	16	BDL	110	BDL	110	BDL	7.57			
YS-14A	Yard Grid Sample	Surface	BDL	1.4	140	BDL	8.1	BDL	21	BDL	21	BDL	7.96			
YS-15A	Yard Grid Sample	Surface	BDL	1.2	130	BDL	7.4	BDL	24	BDL	24	BDL	7.79			
YS-16A	Yard Grid Sample	Surface	BDL	12	110	BDL	10	BDL	120	BDL	120	BDL	7.78			
YS-17A	Yard Grid Sample	Surface	BDL	1.3	160	BDL	8	BDL	35	BDL	35	BDL	7.83			
YS-18A	Yard Grid Sample	Surface	BDL	4.1	3100	BDL	24	0.6	110	BDL	110	BDL	7.85			
YS-19A	Yard Grid Sample	Surface	BDL	1.8	140	BDL	10	BDL	21	BDL	21	BDL	7.92			
YS-20A	Yard Grid Sample	Surface	BDL	2.1	170	BDL	8.4	BDL	38	BDL	38	BDL	7.79			
YS-21A	Yard Grid Sample	Surface	BDL	1.7	220	BDL	9.8	BDL	96	BDL	96	BDL	8.01			
YS-22A	Yard Grid Sample	Surface	BDL	2.4	180	BDL	14	BDL	45	BDL	45	BDL	7.80			
YS-23A	Yard Grid Sample	Surface	BDL	2.4	130	BDL	12	BDL	19	BDL	19	BDL	8.18			
YS-24A	Yard Grid Sample	Surface	BDL	2.1	82	BDL	9.8	BDL	9.9	BDL	9.9	BDL	8.08			
LD-1A	Loading Dock Area	Surface	BDL	2.7	250	BDL	7.0	BDL	130	0.3	8.99					
AST-1A	Above Ground Storage Tank Area	Surface	BDL	BDL	1.2	94	BDL	7.9	BDL	8.3	BDL	8.3	7.59			
SPT-1A	Septic Tank Area	8'	BDL	BDL	2.2	96	BDL	9.5	BDL	BDL	BDL	BDL	8.31			
MBA-1A		Surface	BDL	1.5	6.0	380	3.6	59	0.3	1500	0.8	8.47				
MBA-1B		1'	BDL	BDL	2.7	190	BDL	5.1	BDL	BDL	BDL	BDL	8.76			
MBA-2A		Surface	191	BDL	4.4	350	BDL	32	BDL	1300	BDL	BDL	8.71	1(30)(B), 2(16), 3(34), 5(18)	None Detected	
MBA-2B		2'	BDL	BDL	1.5	62	BDL	10	BDL	10	BDL	10	8.20			
Sump 1B	Sump Area	5'	BDL	BDL	6.5	95	BDL	13	BDL	BDL	BDL	BDL	8.05			
Sump 2B	Sump Area	5'	BDL	BDL	4.3	96	BDL	12	BDL	BDL	BDL	BDL	8.22			
YS-15X	QA/QC Samples	Surface	BDL	BDL	1.2	110	BDL	8	BDL	20	BDL	20	7.80			
YS-22X	QA/QC Samples	Surface	BDL	BDL	2.5	180	BDL	14	BDL	46	BDL	46	7.82			
Trip Blank	QA/QC Sample			BDL	0.005	0.002	BDL	0.2	BDL	0.02	BDL	0.02	1.84	1(22)(B), 2(6)	None Detected	
Equipment Blank	QA/QC Sample													1(7)(B), 4(10)	None Detected	

LEGEND

BDL = Below analytical detection limit
Blank cells indicate that the sample was not analyzed for that parameter.

COMPOUND CODE FOR VOLATILES

- 1) Acetone
- 2) Methylene Chloride
- 3) Xylene (total)
- 4) Bromoform
- 5) 4-methyl-2-pentanone

Summary of Analytical Results
Exxon Chemical Company Facility
1715 Dal Paso Street
Hobbs, New Mexico
Date Sampled: 9-3-92

Analytical Parameters	Regulatory Threshold Limit	Sample ID: DP-1 Depth: 0'-2'		Sample ID: DP-2... Depth: 6'-8'	
		Level Detected	Detection Limit	Level Detected	Detection Limit
TCLP Metals (mg/l)					
Arsenic	5.0	<0.2	0.2	<0.2	0.2
Barium	100.0	1.2	0.5	1.2	0.5
Cadmium	1.0	<0.010	0.010	<0.010	0.010
Chromium	5.0	<0.05	0.05	<0.05	0.05
Lead	5.0	0.1	0.02	0.02	0.02
Mercury	0.2	<0.001	0.001	<0.001	0.001
Selenium	1.0	<0.2	0.2	<0.2	0.2
Silver	5.0	<0.01	0.01	<0.01	0.01
TCLP Volatiles (µg/l)					
Pyridine	5,000	<13	13	<10	10
Vinyl Chloride	200	<10	10	<10	10
1,1-Dichloroethene	700	<5	5	<5	5
Chloroform	6,000	<5	5	<5	5
1,2-Dichloroethane	500	<5	5	<5	5
Methyl Ethyl Ketone	200,000	<10	10	<10	10
Carbon Tetrachloride	500	<5	5	<5	5
Trichloroethene	500	<5	5	<5	5
Benzene	500	<5	5	<5	5
Tetrachloroethene	700	<5	5	<5	5
Chlorobenzene	100,000	<5	5	<5	5
TCLP Semivolatiles (µg/l)		Level Detected	Detection Limit	Level Detected	Detection Limit
1,4-Dichlorobenzene	7,500	<13	13	<10	10
2-Methylphenol	200,000	<13	13	<10	10
4-Methylphenol	200,000	<13	13	<10	10
3-Methylphenol	200,000	<13	13	<10	10

Summary of Analytical Results
Exxon Chemical Company Facility
1715 Dal Paso Street
Hobbs, New Mexico
Date Sampled: 9-3-92

Analytical Parameters	Regulatory Threshold Limit	Sample ID: DP-1 Depth: 0'-2'		Sample ID: DP-2 Depth: 6'-8'	
Hexachloroethane	3,000	<13	13	<10	10
Nitrobenzene	2,000	<13	13	<10	10
Hexachlorobuta-diene	500	<13	13	<10	10
2,4,6-Trichlorophenol	2,000	<13	13	<10	10
2,4,5-Trichlorophenol	400,000	<66	66	<50	50
2,4-Dinitrotoluene	130	<13	13	<10	10
Hexachlorobenzene	130	<13	13	<10	10
Pentachlorophenol	100,000	<66	66	<50	50
RCRA Characteristics					
pH	2 < pH < 12.5	8.57 units	0.01 units	8.13 units	0.01 units
Corrosivity	>6.35 MMPY	Unable to analyze due to matrix		Unable to analyze due to matrix	
Ignitability	<140°F	Unable to analyze due to matrix		Unable to analyze due to matrix	
Reactivity - HCN - H ₂ S	250 mg/kg 500 mg/kg	<0.40 mg/kg 245 mg/kg	0.40 mg/kg 20 mg/kg	<0.40 mg/kg 146 mg/kg	0.40 mg/kg 20 mg/kg

LABORATORY REPORTS
FORMER EXXON CHEMICAL FACILITY
DAL PASO STREET, HOBBS, NEW MEXICO



401 North 11th • La Porte, Texas 77571

Express Laboratories

(713) 471-0951 • 1 (800) 880-0156 • FAX (713) 471-5821

Customer: ENSR Sample ID: MBA-2A Attn: C. OVERTON
Client: BROWN MARONEY (EXXON) Proj. No: 1009001154
Location: HOBBS - DAL PASO Environ ID: 09805
Sample Matrix: SOIL Sample Depth: _____ Sampled: 01/ 28 / 92
Received: 01/ 30 / 92 Reported: 02/ 05 / 92 Invoice No.: 2118

Test Method	Result	Blank	Detection Limit
<u>8015(M)</u>	<u>PPM (mg/kg)</u>	<u>PPM (mg/kg)</u>	<u>PPM (mg/kg)</u>
Petroleum Extractables	<u>* 191</u>	<u>< 25</u>	<u>25</u>

Analyst: J.M. Date Extracted: 02/02/92 Date Analyzed: 02/03/92 @ 18:16
Standard: DIESEL

NOTE: * This sample contains some heavy material that may not be suitable for analysis by Method 8015M. (TPH by G.C.)

John E. Keller
John E. Keller, Ph.D.

AnalytiKEM-Houston

Analytical Report

02/14/92 13:42

Maroney-Hobbs-Dal Paso	Field ID: MBA-2A	Date Sampled: 01/28/92		
No.: 1009-001-154	Lab ID: 33	Time Sampled: 1145		
No.: A7864	Matrix: SOIL (GRAB)	Date Received: 01/30/92		
(Test Code) Parameter (Test Name) (Test Method)	Concentration	Units	Method Detection Limit	Date/Time Analysis Performed
-S- -HOU LEAD ON SOLID EPA SW-846: 3050, 7760, AA	<1.1	MG/KG	1.1	02/05/92 915
-S-GFA-HOU CADMIUM ON SOLID EPA SW-846: 7060, GRAPHITE FURNACE	4.4	MG/KG	0.3	02/05/92 645
-S- -HOU SEMIVOLATILE ORGANICS/SOLID EPA SW-846: 3550, 8270, SON., GC/MS	ATTACHED *1	UG/KG		Ext.: 02/10/92 Anal.: 02/11/92
-S-ICP-HOU STRONTIUM ON SOLID EPA SW-846: 3050, 6010, ICP	350	MG/KG	2.2	02/04/92 659
-S-ICP-HOU CADMIUM ON SOLID EPA SW-846: 3050, 6010, ICP	2.3	MG/KG	2.2	02/04/92 659
-S-ICP-HOU CHROMIUM ON SOLID EPA SW-846: 3050, 6010, ICP	32	MG/KG	2.2	02/04/92 659
-S- -HOU MERCURY ON SOLID EPA SW-846: 7471, COLD VAPOR	0.09	MG/KG	0.05	02/06/92 1040
-S-ICP-HOU LEAD ON SOLID EPA SW-846: 3050, 6010, ICP	1300	MG/KG	5.4	02/04/92 659
-S-GFA-HOU SELENIUM ON SOLID EPA SW-846: 7740, GRAPHITE FURNACE	<0.3	MG/KG	0.3	02/05/92 634

*1 SEE ANALYTIKEM ID #A7864-33

***** CONTINUED *****

AnalytiKEM-Houston

Analytical Report

02/14/92 13:42

Maroney-Hobbs-Dal Paso
 No.: 1009-001-154
 No.: A7864

Field ID: MBA-2A
 Lab ID: 33
 Matrix: SOIL (GRAB)

Date Sampled: 01/28/92
 Time Sampled: 1145
 Date Received: 01/30/92

(Test Code) Parameter (Test Name) (Test Method)	Concentration	Units	Method Detection Limit	Date/Time Analysis Performed
-S- -HOU ATILE ORGANICS ON SOLID SW-846: 8240, GC/MS	ATTACHED *1	UG/KG		02/07/92
-S- -HOU ON SOLID SW-846: 9045	8.71	UNITS	0.01	01/31/92 935

*1 SEE ANALYTIKEM ID #A7864-33

VOLATILE ORGANICS ANALYSIS DATA SHEET

Sample Name: <u>AnalytiKEM-Hou</u>	Concentration: <u>LOW</u>	Date Extracted: <u>02/07/92</u>
Sample ID: <u>A7864-33</u>	Sample Matrix: <u>SOIL</u>	Date Analyzed: <u>02/07/92</u>
Sample ID: <u>MBA-2A</u>	Percent Moisture: <u>5.8</u>	Dilution Factor: <u>1.0</u>

VOLATILE COMPOUNDS

Number		ug/Kg		CAS Number		ug/Kg
2-3	Chloromethane	11	<	78-87-5	1,2-Dichloropropane . . .	5 <
2-9	Bromomethane	11	<	10061-01-5	cis-1,3-Dichloropropene .	5 <
2-4	Vinyl Chloride	11	<	79-01-6	Trichloroethene	5 <
2-3	Chloroethane	11	<	124-48-1	Dibromochloromethane . . .	5 <
2-2	Methylene Chloride	16		79-00-5	1,1,2-Trichloroethane . .	5 <
2-1	Acetone	30	B	71-43-2	Benzene	5 <
2-0	Carbon Disulfide	5	<	10061-02-6	Trans-1,3-Dichloropropene	5 <
2-4	1,1-Dichloroethene	5	<	110-75-8	2-Chloroethylvinyl ether .	11 <
2-4-3	1,1-Dichloroethane	5	<	75-25-2	Bromoform	5 <
2-0-5	trans-1,2-Dichloroethene .	5	<	108-10-1	4-Methyl-2-Pentanone . . .	18
2-3	Chloroform	5	<	591-78-6	2-Hexanone	11 <
2-06-2	1,2-Dichloroethane	5	<	127-18-4	Tetrachloroethene	5 <
2-3-3	2-Butanone	11	<	79-34-5	1,1,2,2-Tetrachloroethane	5 <
2-5-6	1,1,1-Trichloroethane . .	5	<	108-88-3	Toluene	5 <
2-3-5	Carbon Tetrachloride . . .	5	<	108-90-7	Chlorobenzene	5 <
2-05-4	Vinyl Acetate	11	<	100-41-4	Ethylbenzene	5 <
2-27-4	Bromodichloromethane . . .	5	<	100-42-5	Styrene	5 <
				1330-20-7	Xylene (total)	34

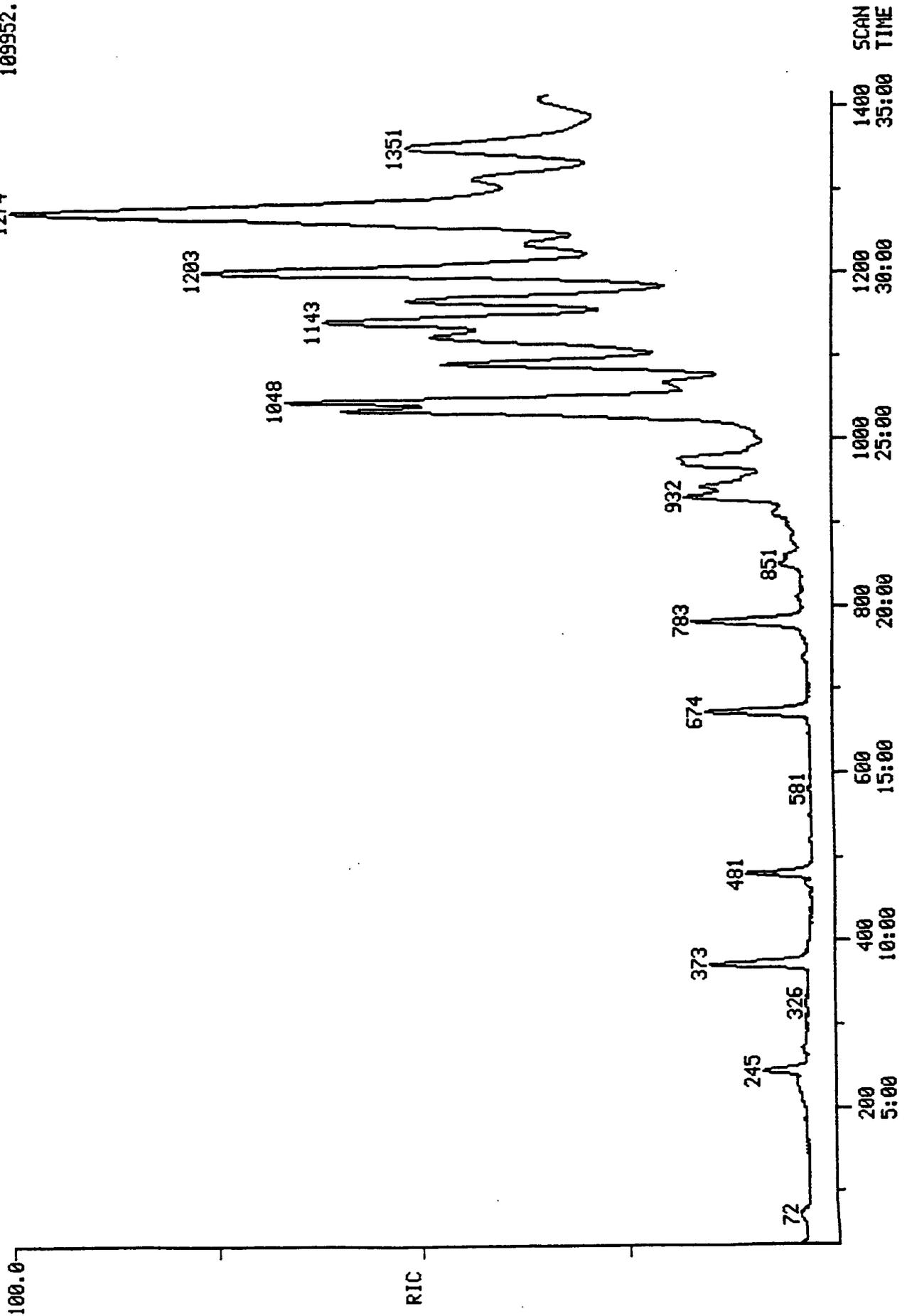
The Lab ID for data on this page is A786433VA.

- Compound was detected in the QC blank.
- Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

02/07/92 13:01:00
SAMPLE: MBA-2A
CONDS.: 150C
RANGE: G 1.1420

LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

109952.



00004

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Laboratory Name: AnalytiKEM-Hou Concentration: LOW Date Extracted: 02/10/92
 Sample ID: A7864-33 Sample Matrix: SOIL Date Analyzed: 02/11/92
 Test Sample ID: MBA-2A Percent Moisture: 6.0 Dilution Factor: 20

SEMIVOLATILE COMPOUNDS

Number		ug/Kg		CAS Number		ug/Kg
5-2	Phenol	7000	<	606-20-2	2,6-Dinitrotoluene	7000 <
3-3	Aniline	7000	<	99-09-2	3-Nitroaniline	34000 <
4-4	bis(2-Chloroethyl)Ether	7000	<	83-32-9	Acenaphthene	7000 <
7-8	2-Chlorophenol	7000	<	51-28-5	2,4-Dinitrophenol	34000 <
73-1	1,3-Dichlorobenzene	7000	<	100-02-7	4-Nitrophenol	34000 <
46-7	1,4-Dichlorobenzene	7000	<	132-64-9	Dibenzofuran	7000 <
51-6	Benzyl Alcohol	7000	<	121-14-2	2,4-Dinitrotoluene	7000 <
0-1	1,2-Dichlorobenzene	7000	<	84-66-2	Diethylphthalate	7000 <
8-7	2-Methylphenol	7000	<	7005-72-3	4-Chlorophenyl phenyl ether	7000 <
8-32-9	bis(2-Chloroisopropyl)Ether	7000	<	86-73-7	Fluorene	7000 <
44-5	4-Methylphenol	7000	<	100-01-6	4-Nitroaniline	34000 <
64-7	N-Nitroso-Di-n-Propylamine	7000	<	534-52-1	4,6-Dinitro-2-Methylphenol	34000 <
2-1	Hexachloroethane	7000	<	86-30-6	N-Nitrosodiphenylamine (1)	7000 <
5-3	Nitrobenzene	7000	<	101-55-3	4-Bromophenyl phenyl ether	7000 <
9-1	Isophorone	7000	<	118-74-1	Hexachlorobenzene	7000 <
5-5	2-Nitrophenol	7000	<	87-86-5	Pentachlorophenol	34000 <
67-9	2,4-Dimethylphenol	7000	<	85-01-8	Phenanthrene	7000 <
5-0	Benzoic Acid	34000	<	120-12-7	Anthracene	7000 <
91-1	bis(2-Chloroethoxy)Methane	7000	<	84-74-2	Di-n-Butylphthalate	7000 <
83-2	2,4-Dichlorophenol	7000	<	206-44-0	Fluoranthene	7000 <
82-1	1,2,4-Trichlorobenzene	7000	<	129-00-0	Pyrene	7000 <
20-3	Naphthalene	7000	<	85-68-7	Butylbenzylphthalate	7000 <
47-8	4-Chloroaniline	7000	<	91-94-1	3,3'-Dichlorobenzidine	14000 <
68-3	Hexachlorobutadiene	7000	<	56-55-3	Benzo(a)Anthracene	7000 <
30-7	4-Chloro-3-Methylphenol	7000	<	117-81-7	bis(2-Ethylhexyl)Phthalate	7000 <
57-6	2-Methylnaphthalene	7000	<	218-01-9	Chrysene	7000 <
47-4	Hexachlorocyclopentadiene	7000	<	117-84-0	Di-n-Octyl Phthalate	7000 <
06-2	2,4,6-Trichlorophenol	7000	<	205-99-2	Benzo(b)Fluoranthene	7000 <
95-4	2,4,5-Trichlorophenol	34000	<	207-08-9	Benzo(k)Fluoranthene	7000 <
58-7	2-Chloronaphthalene	7000	<	50-32-8	Benzo(a)Pyrene	7000 <
74-4	2-Nitroaniline	34000	<	193-39-5	Indeno(1,2,3-cd)Pyrene	7000 <
11-3	Dimethyl Phthalate	7000	<	53-70-3	Dibenz(a,h)Anthracene	7000 <
96-8	Acenaphthylene	7000	<	191-24-2	Benzo(g,h,i)Perylene	7000 <

The Lab ID for data on this page is A786433S.

< - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

RIC

02/11/92 0:28:00

SAMPLE: CLP, A7864, A7864, MBA-2A, LOM, SOIL, A7864-33, BNA, EPA

CONDS.: 150B

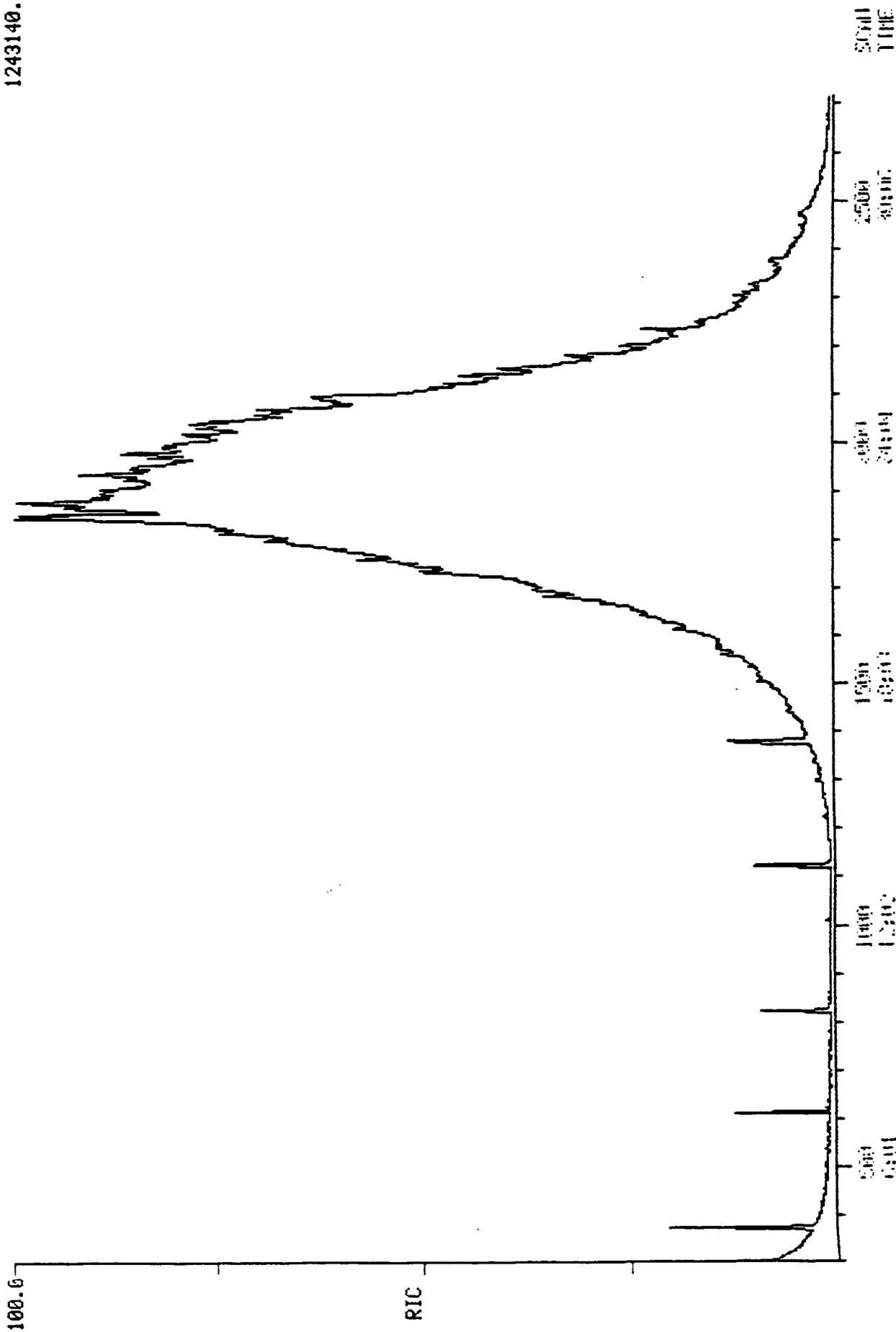
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SCANS 300 TO 2717

DATA: A7864335 #1

CALI: A7864335 #3

1243140.



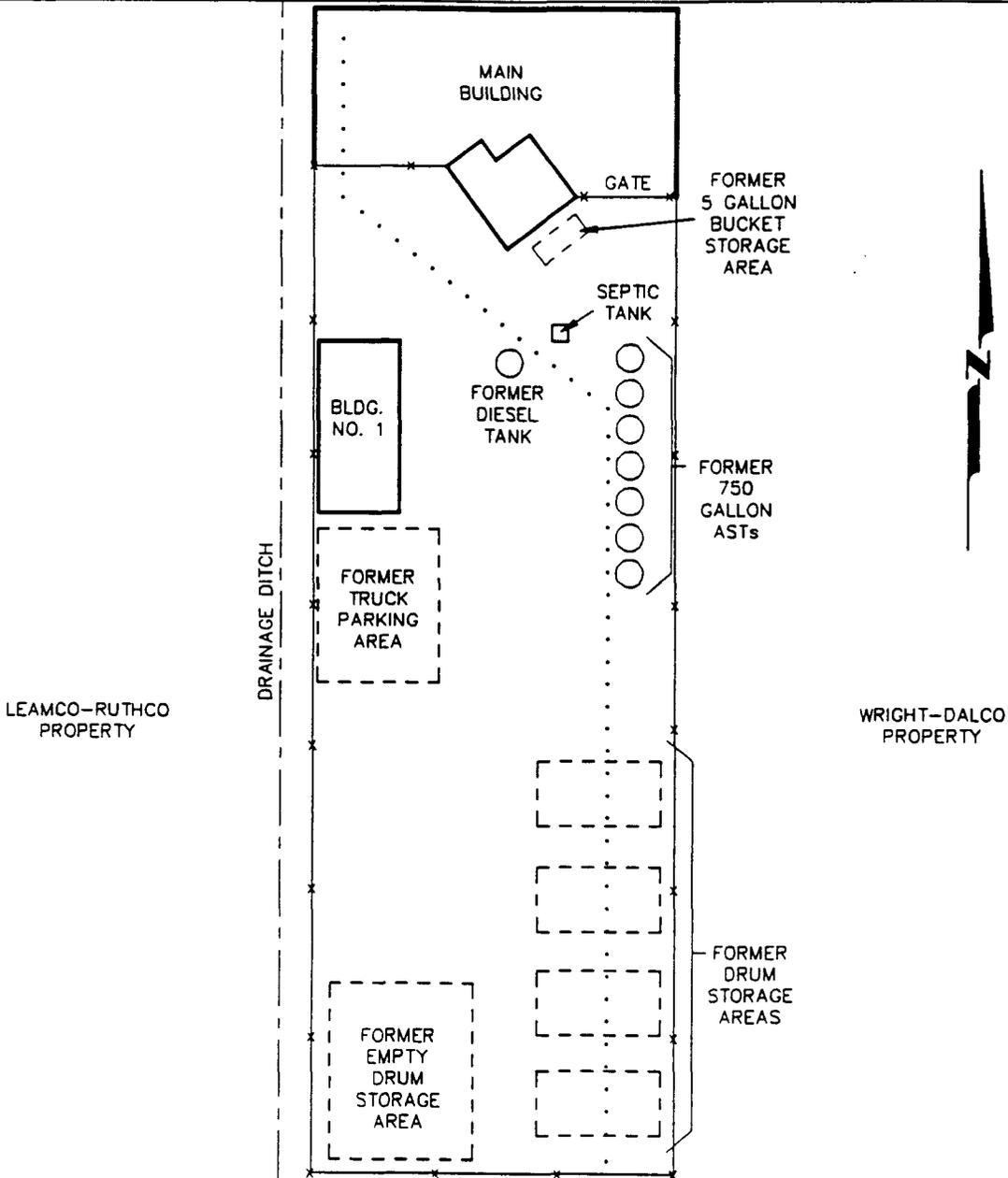
00002

FIGURES AND TABLES
FORMER EXXON CHEMICAL FACILITY
WEST MARLAND STREET, HOBBS NEW MEXICO

UNDEVELOPED
LAND

RAVEN PUMP CO.
PROPERTY

WEST MARLAND BOULEVARD



LEAMCO-RUTHCO
PROPERTY

WRIGHT-DALCO
PROPERTY

AMOCO
PROPERTY

NOT TO SCALE

LEGEND

— EXISTING STRUCTURE

—x— FENCE

... GAS PIPELINE

ENSRTM

ENSR CONSULTING & ENGINEERING

FIGURE 2-2
SITE PLOT PLAN
CHEMICAL DISTRIBUTION COMPANY
HOBBS, NEW MEXICO

DRAWN: L.GAMBLE

DATE: 3-2-92

PROJECT
NUMBER:

APPVD:

REVISED:

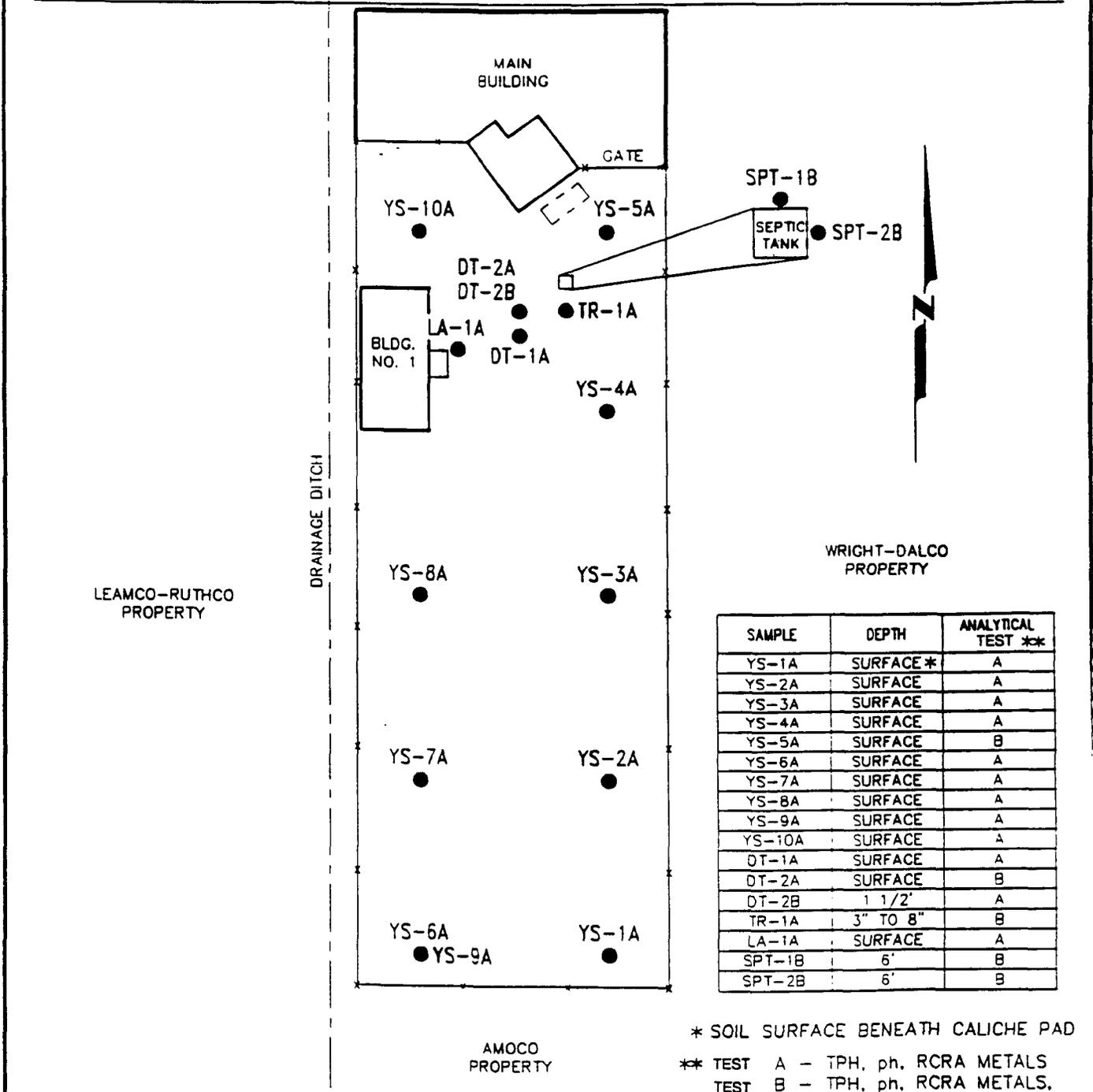
1009-001-160

CE100907

UNDEVELOPED
LAND

FAVEN PUMP CO.
PROPERTY

WEST MARLAND BOULEVARD



LEAMCO-RUTHCO
PROPERTY

WRIGHT-DALCO
PROPERTY

AMOCO
PROPERTY

SAMPLE	DEPTH	ANALYTICAL TEST **
YS-1A	SURFACE *	A
YS-2A	SURFACE	A
YS-3A	SURFACE	A
YS-4A	SURFACE	A
YS-5A	SURFACE	B
YS-6A	SURFACE	A
YS-7A	SURFACE	A
YS-8A	SURFACE	A
YS-9A	SURFACE	A
YS-10A	SURFACE	A
DT-1A	SURFACE	A
DT-2A	SURFACE	B
DT-2B	1 1/2'	A
TR-1A	3" TO 8"	B
LA-1A	SURFACE	A
SPT-1B	6'	B
SPT-2B	6'	B

* SOIL SURFACE BENEATH CALICHE PAD

** TEST A - TPH, ph, RCRA METALS
TEST B - TPH, ph, RCRA METALS,
TOTAL VOLATILES, SEMIVOLATILES

NOT TO SCALE

LEGEND

- EXISTING STRUCTURE
- - - FENCE
- SAMPLE LOCATION

11100908

ENSRTM

ENSR CONSULTING & ENGINEERING

FIGURE 3-1
SOIL SAMPLE LOCATIONS
CHEMICAL DISTRIBUTION COMPANY
HOBBS, NEW MEXICO

DRAWN: L. GAMBLE	DATE: 3-2-92	PROJECT NUMBER:
APP'VD:	REVISED:	1009-001-160

Summary of Analytical Results
Former Exxon Chemical Company Facility
2607/2609 West Marland Facility
Hobbs, New Mexico
Date Sampled: 9-3-92

Analytical Parameters	Regulatory Threshold Limit	Sample ID: MR-1 Depth: 0'-3'	
TCLP Metals (mg/l)		Level Detected	Detection Limit
Arsenic	5.0	<0.2	0.2
Barium	100.0	1.2	0.5
Cadmium	1.0	<0.010	0.010
Chromium	5.0	<0.05	0.05
Lead	5.0	<0.02	0.02
Mercury	0.2	<0.001	0.001
Selenium	1.0	<0.2	0.2
Silver	5.0	<0.01	0.01
TCLP Volatiles (µg/l)			
Pyridine	5,000	<11	11
Vinyl Chloride	200	<10	10
1,1-Dichloroethene	700	<5	5
Chloroform	6,000	<5	5
1,2-Dichloroethane	500	<5	5
Methyl Ethyl Ketone	200,000	<10	10
Carbon Tetrachloride	500	<5	5
Trichloroethene	500	<5	5
Benzene	500	<5	5
Tetrachloroethene	700	<5	5
Chlorobenzene	100,000	<5	5
TCLP Semivolatiles (µg/l)		Level Detected	Detection Limit
1,4-Dichlorobenzene	7,500	<11	11
2-Methylphenol	200,000	<11	11
4-Methylphenol	200,000	<11	11
3-Methylphenol	200,000	<11	11

Summary of Analytical Results
Former Exxon Chemical Company Facility
2607/2609 West Marland Facility
Hobbs, New Mexico
Date Sampled: 9-3-92

Analytical Parameters	Regulatory Threshold Limit	Sample ID: MR-1 Depth: 0'-3'	
Hexachloroethane	3,000	<11	11
Nitrobenzene	2,000	<11	11
Hexachlorobuta- diene	500	<11	11
2,4,6-Trichlorophenol	2,000	<11	11
2,4,5-Trichlorophenol	400,000	<54	54
2,4-Dinitrotoluene	130	<11	11
Hexachlorobenzene	130	<11	11
Pentachlorophenol	100,000	<54	54
RCRA Characteristics			
pH	2 < pH < 12.5	8.06 units	0.01 units
Corrosivity	> 6.35 MMPY	Unable to analyze due to matrix	Unable to analyze due to matrix
Ignitability	< 140°F	Unable to analyze due to matrix	Unable to analyze due to matrix
Reactivity - HCN - H ₂ S	250 mg/kg 500 mg/kg	<0.40 mg/kg 241 mg/kg	0.40 mg/kg 20 mg/kg
B - Below Method Detection Limit			

LABORATORY REPORTS
FORMER EXXON CHEMICAL FACILITY
WEST MARLAND STREET, HOBBS, NEW MEXICO



Express Laboratories

401 North 11th • La Porte, Texas 77571

(713) 471-0951 • 1 (800) 880-0156 • FAX (713) 471-5821

Customer: ENSR Sample ID: TR-1A Attn: C. OVERTON
Client: BROWN MARONEY (EXXON) Proj. No: 1009001164
Proj. Location: HOBBS - MARLAND Environ ID: 09809
Sample Matrix: SOIL Sample Depth: _____ Sampled: 01/ 28 / 92
Received: 01/ 30 / 92 Reported: 02/ 05 / 92 Invoice No.: 2119

<u>Test Method</u>	<u>Result</u>	<u>Blank</u>	<u>Detection Limit</u>
<u>8015(M)</u>	<u>PPM (mg/kg)</u>	<u>PPM (mg/kg)</u>	<u>PPM (mg/kg)</u>
Petroleum Extractables	<u>9,558</u>	<u>< 25</u>	<u>25</u>

Analyst: J.M. Date Extracted: 02/02/92 Date Analyzed: 02/03/92 @ 19:15
Standard : DIESEL

John E. Keller

John E. Keller, Ph.D.



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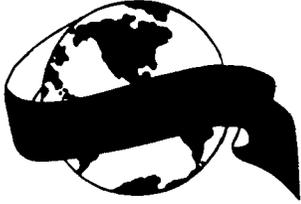
Customer: ENSR Sample ID: YS-4A Attn: C. OVERTON
 Client: EXXON Proj. No: 1009001164
 Proj. Location: HOBBS-MARLAND Environ ID: 09596
 Sample Matrix: SOIL Sample Depth: _____ Sampled: 01/ 21 / 92
 Received: 01/ 24 / 92 Reported: 01/ 29 / 92 Invoice No.: 2098

Test Method	Result	Blank	Detection Limit
<u>8015(M)</u>	<u>PPM (mg/kg)</u>	<u>PPM (mg/kg)</u>	<u>PPM (mg/kg)</u>
Petroleum Extractable	<u>1,710</u>	<u>< 25</u>	<u>25</u>

Analyst: J.M. Date Extracted: 01/28/92 Date Analyzed: 01/28/92 @ 23:32
 Standard : DIESEL

John E. Keller

 John E. Keller, Ph.D.



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401 North 11th • La Porte, Texas 77571

(713) 471-0951 • 1 (800) 880-0156 • FAX (713) 471-5821

Customer: ENSR Sample ID: DT-1A Attn: C. OVERTON

Client: EXXON Proj. No: 1009001164

Proj. Location: HOBBS-MARLAND Environ ID: 09603

Sample Matrix: SOIL Sample Depth: _____ Sampled: 01/ 21 / 92

Received: 01/ 24 / 92 Reported: 01/ 29 / 92 Invoice No.: 2098

Test Method	Result	Blank	Detection Limit
<u>8015(M)</u>	<u>PPM (mg/kg)</u>	<u>PPM (mg/kg)</u>	<u>PPM (mg/kg)</u>

Petroleum Extractable	<u>100</u>	<u>< 25</u>	<u>25</u>
-----------------------	------------	----------------	-----------

Analyst: J.M. Date Extracted: 01/29/92 Date Analyzed: 01/29/92 @ 11:17
Standard : DIESEL

John E. Keller
John E. Keller, Ph.D.



401 North 11th • La Porte, Texas 77571

Express Laboratories

(713) 471-0951 • 1 (800) 880-0156 • FAX (713) 471-5821

Customer: ENSR Sample ID: DT-2A Attn: C. OVERTON
 Client: EXXON Proj. No: 1009001164
 Proj. Location: HOBBS-MARLAND Environ ID: 09604
 Sample Matrix: SOIL Sample Depth: _____ Sampled: 01/ 21 / 92
 Received: 01/ 24 / 92 Reported: 01/ 29 / 92 Invoice No.: 2098

Test Method	Result	Blank	Detection Limit
<u>8015(M)</u>	<u>PPM (mg/kg)</u>	<u>PPM (mg/kg)</u>	<u>PPM (mg/kg)</u>
Petroleum Extractable	<u>406</u>	<u>< 25</u>	<u>25</u>

Analyst: J.M. Date Extracted: 01/29/92 Date Analyzed: 01/29/92 @ 10:53
 Standard : DIESEL

John E. Keller
 John E. Keller, Ph.D.



Express Laboratories

401 North 11th • La Porte, Texas 77571

(713) 471-0951 • 1 (800) 880-0156 • FAX (713) 471-5821

Customer: ENSR Sample ID: DT-2B Attn: C. OVERTON
Client: EXXON Proj. No: 1009001164
Proj. Location: HOBBS-MARLAND Environ ID: 09605
Sample Matrix: SOIL Sample Depth: _____ Sampled: 01/ 21 / 92
Received: 01/ 24 / 92 Reported: 01/ 29 / 92 Invoice No.: 2098

Test Method	Result	Blank	Detection Limit
<u>8015(M)</u>	<u>PPM (mg/kg)</u>	<u>PPM (mg/kg)</u>	<u>PPM (mg/kg)</u>
Petroleum Extractable	<u>100</u>	<u>< 25</u>	<u>25</u>

Analyst: J.M. Date Extracted: 01/29/92 Date Analyzed: 01/29/92 @ 11:41
Standard : DIESEL

John E. Keller
John E. Keller, Ph.D.

AnalytiKEM-Houston

Analytical Report

02/13/92 09:12

Brown Maroney Hobbs-Marland	Field ID: TR-1A	Date Sampled: 01/28/92
Proj. No.: 1009-001-164	Lab ID: 1	Time Sampled: 900
Lab No.: A7861	Matrix: SOIL (GRAB)	Date Received: 01/30/92

(Test Code) Parameter (Test Name) (Test Method)	Concentration	Units	Method Detection Limit	Date/Time Analysis Performed
Ag -S- -HOU SILVER ON SOLID EPA SW-846: 3050, 7760, AA	<1.1	MG/KG	1.1	02/05/92 915
As -S-GFA-HOU ARSENIC ON SOLID EPA SW-846: 7060, GRAPHITE FURNACE	3.1	MG/KG	0.3	02/05/92 645
BNA -S- -HOU SEMIVOLATILE ORGANICS/SOLID EPA SW-846: 3550,8270, SON.,GC/MS	ATTACHED *1	UG/KG		Ext.: 02/02/92 Anal.: 02/11/92
Ba -S-ICP-HOU BARIUM ON SOLID EPA SW-846: 3050,6010, ICP	210	MG/KG	2.2	02/03/92 858
Cd -S-ICP-HOU CADMIUM ON SOLID EPA SW-846: 3050,6010, ICP	<2.2	MG/KG	2.2	02/03/92 858
Cr -S-ICP-HOU CHROMIUM ON SOLID EPA SW-846: 3050,6010, ICP	4.8	MG/KG	2.2	02/03/92 858
Hg -S- -HOU MERCURY ON SOLID EPA SW-846: 7471, COLD VAPOR	<0.05	MG/KG	0.05	02/03/92 825
Pb -S-ICP-HOU LEAD ON SOLID EPA SW-846: 3050,6010, ICP	70	MG/KG	5.4	02/03/92 858
Se -S-GFA-HOU SELENIUM ON SOLID EPA SW-846: 7740, GRAPHITE FURNACE	<0.3	MG/KG	0.3	02/04/92 650

SEE ANALYTICAL ID #A7861-1

***** CONTINUED *****

VOLATILE ORGANICS ANALYSIS DATA SHEET

Laboratory Name: AnalytiKEM-Hou
 Lab Sample ID: A7861-1
 Client Sample ID: TR-1A

Concentration: MED
 Sample Matrix: SOIL
 Percent Moisture: 10.4

Date Extracted: 01/30/92
 Date Analyzed: 01/30/92
 Dilution Factor: 4.0

VOLATILE COMPOUNDS

CAS Number		ug/Kg		CAS Number		ug/Kg
74-87-3	Chloromethane	5600	<	78-87-5	1,2-Dichloropropane . . .	2800 <
74-83-9	Bromomethane	5600	<	10061-01-5	cis-1,3-Dichloropropene .	2800 <
75-01-4	Vinyl Chloride	5600	<	79-01-6	Trichloroethene	2800 <
75-00-3	Chloroethane	5600	<	124-48-1	Dibromochloromethane . . .	2800 <
75-09-2	Methylene Chloride	2800	<	79-00-5	1,1,2-Trichloroethane . .	2800 <
67-64-1	Acetone	5600	<	71-43-2	Benzene	2800 <
75-15-0	Carbon Disulfide	2800	<	10061-02-6	Trans-1,3-Dichloropropene	2800 <
75-35-4	1,1-Dichloroethene	2800	<	110-75-8	2-Chloroethylvinyl ether .	5600 <
75-34-3	1,1-Dichloroethane	2800	<	75-25-2	Bromoform	2800 <
156-60-5	trans-1,2-Dichloroethene .	2800	<	108-10-1	4-Methyl-2-Pentanone . . .	7900
67-66-3	Chloroform	2800	<	591-78-6	2-Hexanone	33000
107-06-2	1,2-Dichloroethane	2800	<	127-18-4	Tetrachloroethene	2800 <
78-93-3	2-Butanone	5600	<	79-34-5	1,1,2,2-Tetrachloroethane	2800 <
71-55-6	1,1,1-Trichloroethane . .	2800	<	108-88-3	Toluene	13000
56-23-5	Carbon Tetrachloride . . .	2800	<	108-90-7	Chlorobenzene	2800 <
108-05-4	Vinyl Acetate	5600	<	100-41-4	Ethylbenzene	11000
75-27-4	Bromodichloromethane . . .	2800	<	100-42-5	Styrene	2800 <
				1330-20-7	Xylene (total)	370000

The Lab ID for data on this page is A78611V.

< - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

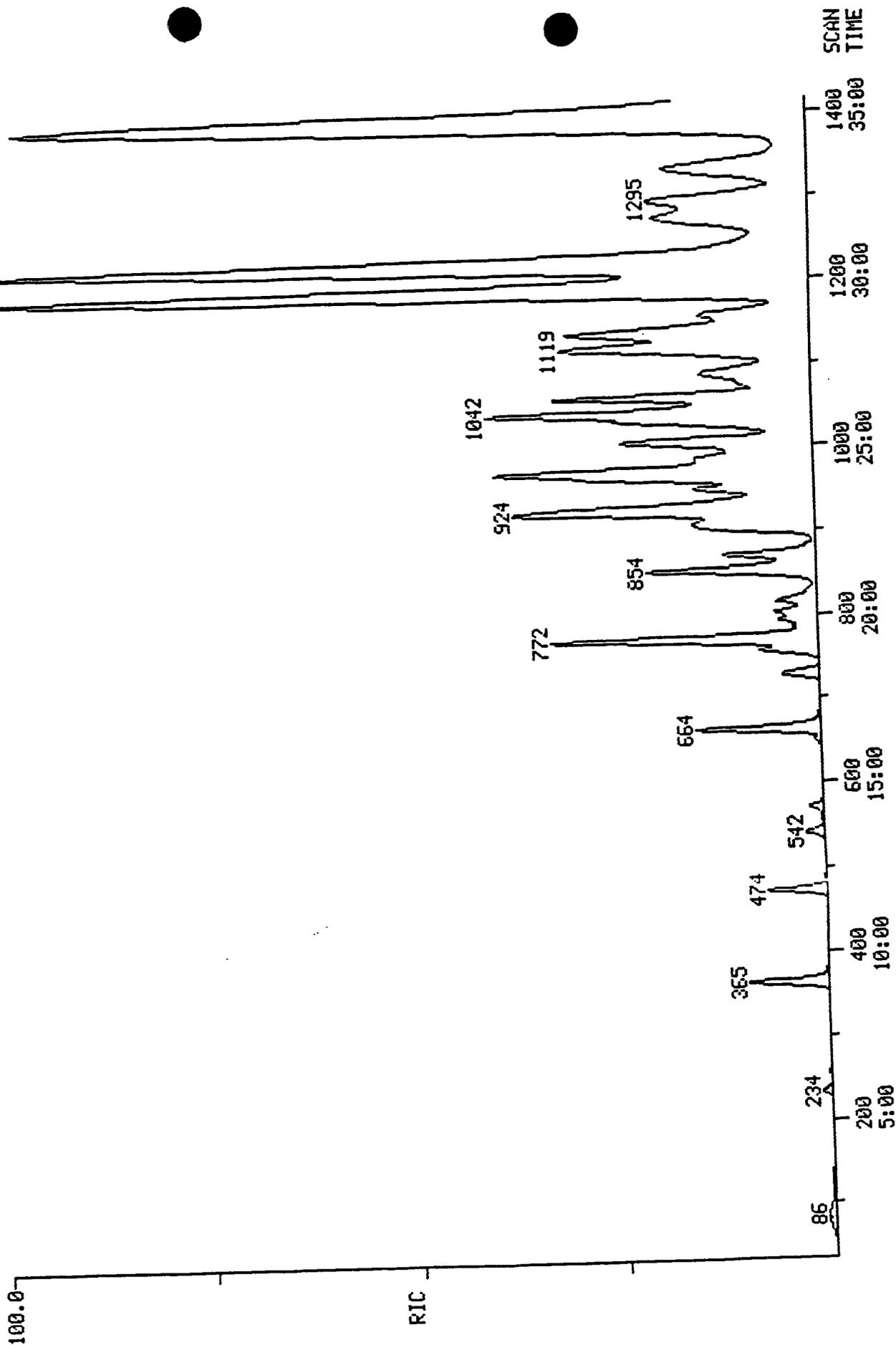
SCANS 35 TO 1415

DATA: A78611U #1
CALI: A78611U #3

RIC
01/30/92 16:33:00
SAMPLE: TR-1A
CONDS.: I500
RANGE: G 1.1420

LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

1221 225280.



SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Laboratory Name: AnalytiKEM-Hou Concentration: LOW Date Extracted: 02/02/92
 Lab Sample ID: A7861-1 Sample Matrix: SOIL Date Analyzed: 02/11/92
 Client Sample ID: TR-1A Percent Moisture: 10.0 Dilution Factor: 20

SEMIVOLATILE COMPOUNDS

CAS Number	ug/Kg	CAS Number	ug/Kg
08-95-2	Phenol 7300 <	606-20-2	2,6-Dinitrotoluene 7300 <
62-53-3	Aniline 7300 <	99-09-2	3-Nitroaniline 35000 <
111-44-4	bis(2-Chloroethyl)Ether . 7300 <	83-32-9	Acenaphthene 7300 <
5-57-8	2-Chlorophenol 7300 <	51-28-5	2,4-Dinitrophenol 35000 <
41-73-1	1,3-Dichlorobenzene . . . 7300 <	100-02-7	4-Nitrophenol 35000 <
106-46-7	1,4-Dichlorobenzene . . . 7300 <	132-64-9	Dibenzofuran 4400 %
100-51-6	Benzyl Alcohol 7300 <	121-14-2	2,4-Dinitrotoluene 7300 <
5-50-1	1,2-Dichlorobenzene . . . 7300 <	84-66-2	Diethylphthalate 7300 <
75-48-7	2-Methylphenol 7300 <	7005-72-3	4-Chlorophenyl phenyl ether 7300 <
39638-32-9	bis(2-Chloroisopropyl)Ether 7300 <	86-73-7	Fluorene 7300 <
06-44-5	4-Methylphenol 7300 <	100-01-6	4-Nitroaniline 35000 <
21-64-7	N-Nitroso-Di-n-Propylamine 7300 <	534-52-1	4,6-Dinitro-2-Methylphenol 35000 <
67-72-1	Hexachloroethane 7300 <	86-30-6	N-Nitrosodiphenylamine (1) 7300 <
98-95-3	Nitrobenzene 7300 <	101-55-3	4-Bromophenyl phenyl ether 7300 <
8-59-1	Isophorone 7300 <	118-74-1	Hexachlorobenzene 7300 <
88-75-5	2-Nitrophenol 7300 <	87-86-5	Pentachlorophenol 35000 <
105-67-9	2,4-Dimethylphenol 7300 <	85-01-8	Phenanthrene 7300 <
65-85-0	Benzoic Acid 35000 <	120-12-7	Anthracene 7300 <
111-91-1	bis(2-Chloroethoxy)Methane 7300 <	84-74-2	Di-n-Butylphthalate 7300 <
120-83-2	2,4-Dichlorophenol 7300 <	206-44-0	Fluoranthene 7300 <
120-82-1	1,2,4-Trichlorobenzene . . 7300 <	129-00-0	Pyrene 7300 <
91-20-3	Naphthalene 100000	85-68-7	Butylbenzylphthalate 7300 <
106-47-8	4-Chloroaniline 7300 <	91-94-1	3,3'-Dichlorobenzidine . . . 15000 <
87-68-3	Hexachlorobutadiene 7300 <	56-55-3	Benzo(a)Anthracene 7300 <
59-50-7	4-Chloro-3-Methylphenol . 7300 <	117-81-7	bis(2-Ethylhexyl)Phthalate 7300 <
91-57-6	2-Methylnaphthalene 7300 <	218-01-9	Chrysene 7300 <
77-47-4	Hexachlorocyclopentadiene 7300 <	117-84-0	Di-n-Octyl Phthalate 7300 <
88-06-2	2,4,6-Trichlorophenol . . . 7300 <	205-99-2	Benzo(b)Fluoranthene 7300 <
95-95-4	2,4,5-Trichlorophenol . . . 35000 <	207-08-9	Benzo(k)Fluoranthene 7300 <
91-58-7	2-Chloronaphthalene 7300 <	50-32-8	Benzo(a)Pyrene 7300 <
88-74-4	2-Nitroaniline 35000 <	193-39-5	Indeno(1,2,3-cd)Pyrene . . . 7300 <
131-11-3	Dimethyl Phthalate 7300 <	53-70-3	Dibenz(a,h)Anthracene 7300 <
208-96-8	Acenaphthylene 7300 <	191-24-2	Benzo(g,h,i)Perylene 7300 <

The Lab ID for data on this page is A78611SC.
 % - Reported value is less than the detection limit.
 < - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

RIC

02/11/92 1:47:00

SAMPLE: CLP, A7861, TR-1A, LON, SOIL, A7861-1, BHA, EPA

COND.: 1508

RANGE: G 1,2717 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

SCANS 300 TO 2717

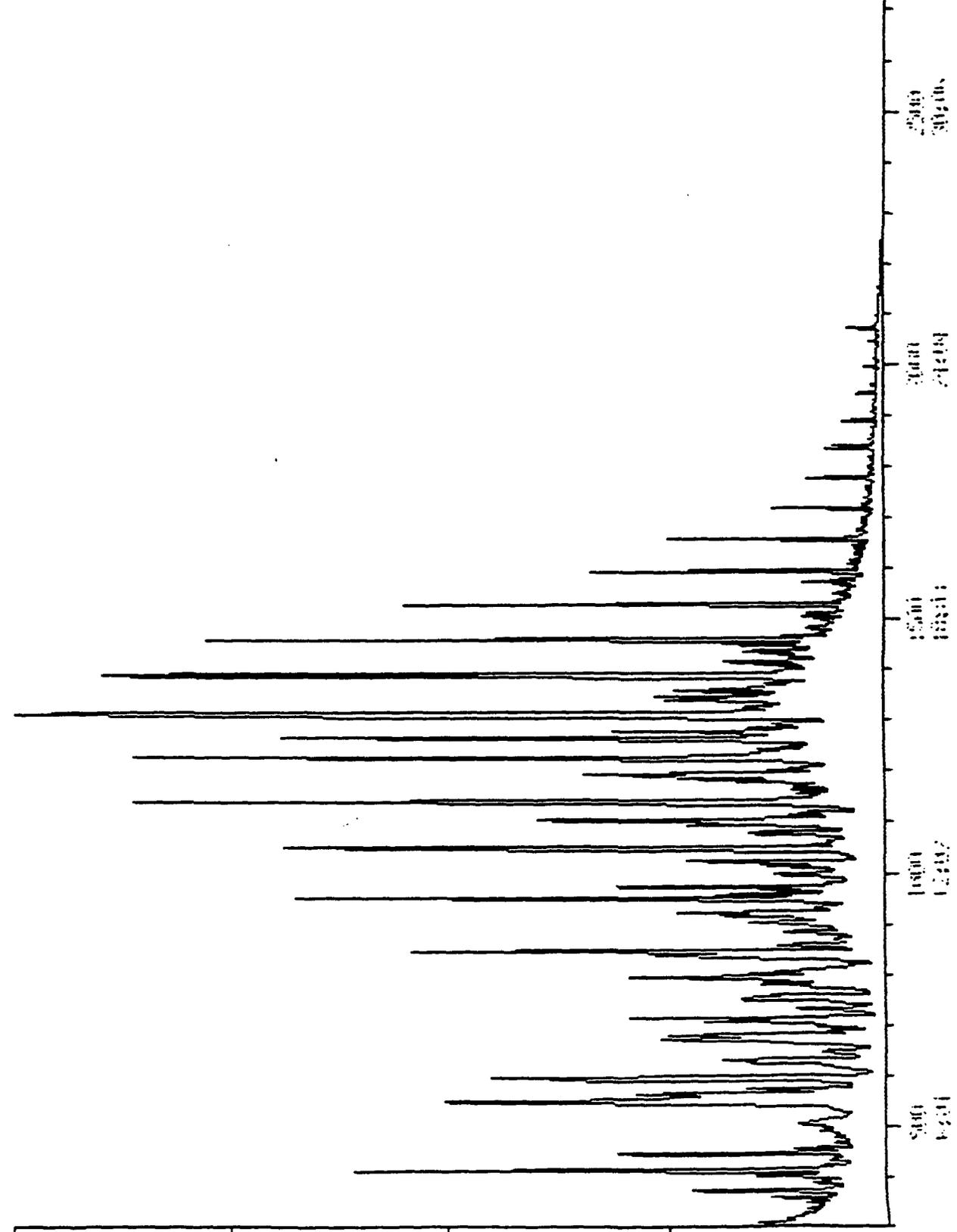
DATA: A786115C #1

CALI: A786115C #3

100.0

RIC

00002



TIME

2500
3000

5000
10000

15000
20000

25000
30000

5000
10000

AnalytiKEM-Houston

Analytical Report

02/10/92 12:19

Brown Maroney Hobbs-Marland Proj. No.: 1009-001-164 Lab No.: A7846		Field ID: YS-4A Lab ID: 4 Matrix: SOIL (GRAB)		Date Sampled: 01/21/92 Time Sampled: 1115 Date Received: 01/24/92	
(Test Code) Parameter (Test Name) (Test Method)	Concentration	Units	Method Detection Limit	Date/Time Analysis Performed	
Ag -S- -HOU SILVER ON SOLID EPA SW-846: 3050, 7760, AA	<1.1	MG/KG	1.1	01/30/92 1630	
As -S-GFA-HOU ARSENIC ON SOLID EPA SW-846: 7060, GRAPHITE FURNACE	3.1	MG/KG	0.3	01/30/92 650	
Ba -S-ICP-HOU BARIUM ON SOLID EPA SW-846: 3050,6010, ICP	220	MG/KG	2.2	01/30/92 752	
Cd -S-ICP-HOU CADMIUM ON SOLID EPA SW-846: 3050,6010, ICP	<2.2	MG/KG	2.2	01/30/92 752	
Cr -S-ICP-HOU CHROMIUM ON SOLID EPA SW-846: 3050,6010, ICP	6.8	MG/KG	2.2	01/30/92 752	
Hg -S- -HOU MERCURY ON SOLID EPA SW-846: 7471, COLD VAPOR	<0.06	MG/KG	0.06	02/03/92 825	
Pb -S-ICP-HOU LEAD ON SOLID EPA SW-846: 3050,6010, ICP	18	MG/KG	5.6	01/30/92 752	
Se -S-GFA-HOU SELENIUM ON SOLID EPA SW-846: 7740, GRAPHITE FURNACE	<0.3	MG/KG	0.3	01/30/92 650	
pH -S- -HOU pH ON SOLID EPA SW-846: 9045	8.06	UNITS	0.01	01/28/92 800	

AnalytiKEM-Houston

Analytical Report

02/10/92 12:21

Brown Maroney Hobbs-Marland	Field ID: DT-1A	Date Sampled: 01/22/92
Proj. No.: 1009-001-164	Lab ID: 11	Time Sampled: 900
Lab No.: A7846	Matrix: SOIL (GRAB)	Date Received: 01/24/92

(Test Code) Parameter (Test Name) (Test Method)	Concentration	Units	Method Detection Limit	Date/Time Analysis Performed
Ag -S- -HOU SILVER ON SOLID EPA SW-846: 3050, 7760, AA	<1.1	MG/KG	1.1	01/30/92 1630
As -S-GFA-HOU ARSENIC ON SOLID EPA SW-846: 7060, GRAPHITE FURNACE	3.5	MG/KG	0.3	01/30/92 650
Ba -S-ICP-HOU BARIUM ON SOLID EPA SW-846: 3050,6010, ICP	250	MG/KG	2.2	01/30/92 752
Cd -S-ICP-HOU CADMIUM ON SOLID EPA SW-846: 3050,6010, ICP	<2.2	MG/KG	2.2	01/30/92 752
Cr -S-ICP-HOU CHROMIUM ON SOLID EPA SW-846: 3050,6010, ICP	2.8	MG/KG	2.2	01/30/92 752
Hg -S- -HOU MERCURY ON SOLID EPA SW-846: 7471, COLD VAPOR	<0.05	MG/KG	0.05	02/03/92 825
Pb -S-ICP-HOU LEAD ON SOLID EPA SW-846: 3050,6010, ICP	6.8	MG/KG	5.4	01/30/92 752
Se -S-GFA-HOU SELENIUM ON SOLID EPA SW-846: 7740, GRAPHITE FURNACE	<0.3	MG/KG	0.3	01/30/92 650
pH -S- -HOU pH ON SOLID EPA SW-846: 9045	8.51	UNITS	0.01	01/28/92 800

AnalytiKEM-Houston

Analytical Report

02/10/92 12:21

Brown Maroney Hobbs-Marland Proj. No.: 1009-001-164 Lab No.: A7846		Field ID: DT-2A Lab ID: 12 Matrix: SOIL	(GRAB)	Date Sampled: 01/22/92 Time Sampled: 1000 Date Received: 01/24/92
(Test Code) Parameter (Test Name) (Test Method)	Concentration	Units	Method Detection Limit	Date/Time Analysis Performed
Ag -S- -HOU SILVER ON SOLID EPA SW-846: 3050, 7760, AA	<1.1	MG/KG	1.1	01/30/92 1630
As -S-GFA-HOU ARSENIC ON SOLID EPA SW-846: 7060, GRAPHITE FURNACE	3.5	MG/KG	0.3	01/30/92 650
BNA -S- -HOU SEMIVOLATILE ORGANICS/SOLID EPA SW-846: 3550,8270, SON.,GC/MS	ATTACHED *1	UG/KG		Ext.: 01/31/92 Anal.: 02/04/92
Ba -S-ICP-HOU BARIUM ON SOLID EPA SW-846: 3050,6010, ICP	200	MG/KG	2.2	01/30/92 752
Cd -S-ICP-HOU CADMIUM ON SOLID EPA SW-846: 3050,6010, ICP	<2.2	MG/KG	2.2	01/30/92 752
Cr -S-ICP-HOU CHROMIUM ON SOLID EPA SW-846: 3050,6010, ICP	5.2	MG/KG	2.2	01/30/92 752
Hg -S- -HOU MERCURY ON SOLID EPA SW-846: 7471, COLD VAPOR	<0.05	MG/KG	0.05	02/03/92 825
Pb -S-ICP-HOU LEAD ON SOLID EPA SW-846: 3050,6010, ICP	13	MG/KG	5.4	01/30/92 752
Se -S-GFA-HOU SELENIUM ON SOLID EPA SW-846: 7740, GRAPHITE FURNACE	<0.3	MG/KG	0.3	01/30/92 650

*1 SEE ANALYTIKEM ID #A7846-12

***** CONTINUED *****

AnalytiKEM-Houston

Analytical Report

02/10/92 12:21

Brown Maroney Hobbs-Marland
 Proj. No.: 1009-001-164
 Lab No.: A7846

Field ID: DT-2A
 Lab ID: 12
 Matrix: SOIL (GRAB)

Date Sampled: 01/22/92
 Time Sampled: 1000
 Date Received: 01/24/92

Parameter (Test Code) (Test Name) (Test Method)	Concentration	Units	Method Detection Limit	Date/Time Analysis Performed
VOA -S- -HOU VOLATILE ORGANICS ON SOLID EPA SW-846: 8240, GC/MS	ATTACHED *1	UG/KG		Ext.: 02/04/92 Anal.: 02/04/92
pH -S- -HOU pH ON SOLID EPA SW-846: 9045	8.24	UNITS	0.01	01/28/92 800

*1 SEE ANALYTIKEM ID #A7846-12

AnalytiKEM-Houston

Analytical Report

02/10/92 12:21

Brown Maroney Hobbs-Marland
 Proj. No.: 1009-001-164
 Lab No.: A7846

Field ID: DT-2B
 Lab ID: 13
 Matrix: SOIL (GRAB)

Date Sampled: 01/22/92
 Time Sampled: 1145
 Date Received: 01/24/92

(Test Code) Parameter (Test Name) (Test Method)	Concentration	Units	Method Detection Limit	Date/Time Analysis Performed
Ag -S- -HOU SILVER ON SOLID EPA SW-846: 3050, 7760, AA	<1.1	MG/KG	1.1	01/30/92 1630
As -S-GFA-HOU ARSENIC ON SOLID EPA SW-846: 7060, GRAPHITE FURNACE	4.6	MG/KG	0.3	01/30/92 650
Ba -S-ICP-HOU BARIUM ON SOLID EPA SW-846: 3050,6010, ICP	300	MG/KG	2.2	01/30/92 752
Cd -S-ICP-HOU CADMIUM ON SOLID EPA SW-846: 3050,6010, ICP	<2.2	MG/KG	2.2	01/30/92 752
Cr -S-ICP-HOU CHROMIUM ON SOLID EPA SW-846: 3050,6010, ICP	2.4	MG/KG	2.2	01/30/92 752
Hg -S- -HOU MERCURY ON SOLID EPA SW-846: 7471, COLD VAPOR	<0.05	MG/KG	0.05	02/03/92 825
Pb -S-ICP-HOU LEAD ON SOLID EPA SW-846: 3050,6010, ICP	9.2	MG/KG	5.4	01/30/92 752
Se -S-GFA-HOU SELENIUM ON SOLID EPA SW-846: 7740, GRAPHITE FURNACE	<0.3	MG/KG	0.3	01/30/92 650
pH -S- -HOU pH ON SOLID EPA SW-846: 9045	8.29	UNITS	0.01	01/28/92 800

VOLATILE ORGANICS ANALYSIS DATA SHEET

Laboratory Name: AnalytikEM-Hou
 Lab Sample ID: A7846-12
 Client Sample ID: DT-2A

Concentration: LOW
 Sample Matrix: SOIL
 Percent Moisture: 3.0

Date Extracted: 02/04/92
 Date Analyzed: 02/04/92
 Dilution Factor: 5.0

VOLATILE COMPOUNDS

CAS Number		ug/Kg		CAS Number		ug/Kg
74-87-3	Chloromethane	52	<	78-87-5	1,2-Dichloropropane . . .	26 <
74-83-9	Bromomethane	52	<	10061-01-5	cis-1,3-Dichloropropene .	26 <
75-01-4	Vinyl Chloride	52	<	79-01-6	Trichloroethene	26 <
75-00-3	Chloroethane	52	<	124-48-1	Dibromochloromethane . . .	26 <
75-09-2	Methylene Chloride	26	<	79-00-5	1,1,2-Trichloroethane . .	26 <
67-64-1	Acetone	75		71-43-2	Benzene	26 <
75-15-0	Carbon Disulfide	26	<	10061-02-6	Trans-1,3-Dichloropropene	26 <
75-35-4	1,1-Dichloroethene	26	<	110-75-8	2-Chloroethylvinyl ether .	52 <
75-34-3	1,1-Dichloroethane	26	<	75-25-2	Bromoform	26 <
156-60-5	trans-1,2-Dichloroethene .	26	<	108-10-1	4-Methyl-2-Pentanone . . .	730
67-66-3	Chloroform	26	<	591-78-6	2-Hexanone	670
107-06-2	1,2-Dichloroethane	26	<	127-18-4	Tetrachloroethene	26 <
78-93-3	2-Butanone	52	<	79-34-5	1,1,2,2-Tetrachloroethane	26 <
71-55-6	1,1,1-Trichloroethane . .	26	<	108-88-3	Toluene	720
56-23-5	Carbon Tetrachloride . . .	26	<	108-90-7	Chlorobenzene	26 <
108-05-4	Vinyl Acetate	52	<	100-41-4	Ethylbenzene	220
75-27-4	Bromodichloromethane . . .	26	<	100-42-5	Styrene	26 <
				1330-20-7	Xylene (total)	2400

The Lab ID for data on this page is A784612VA.

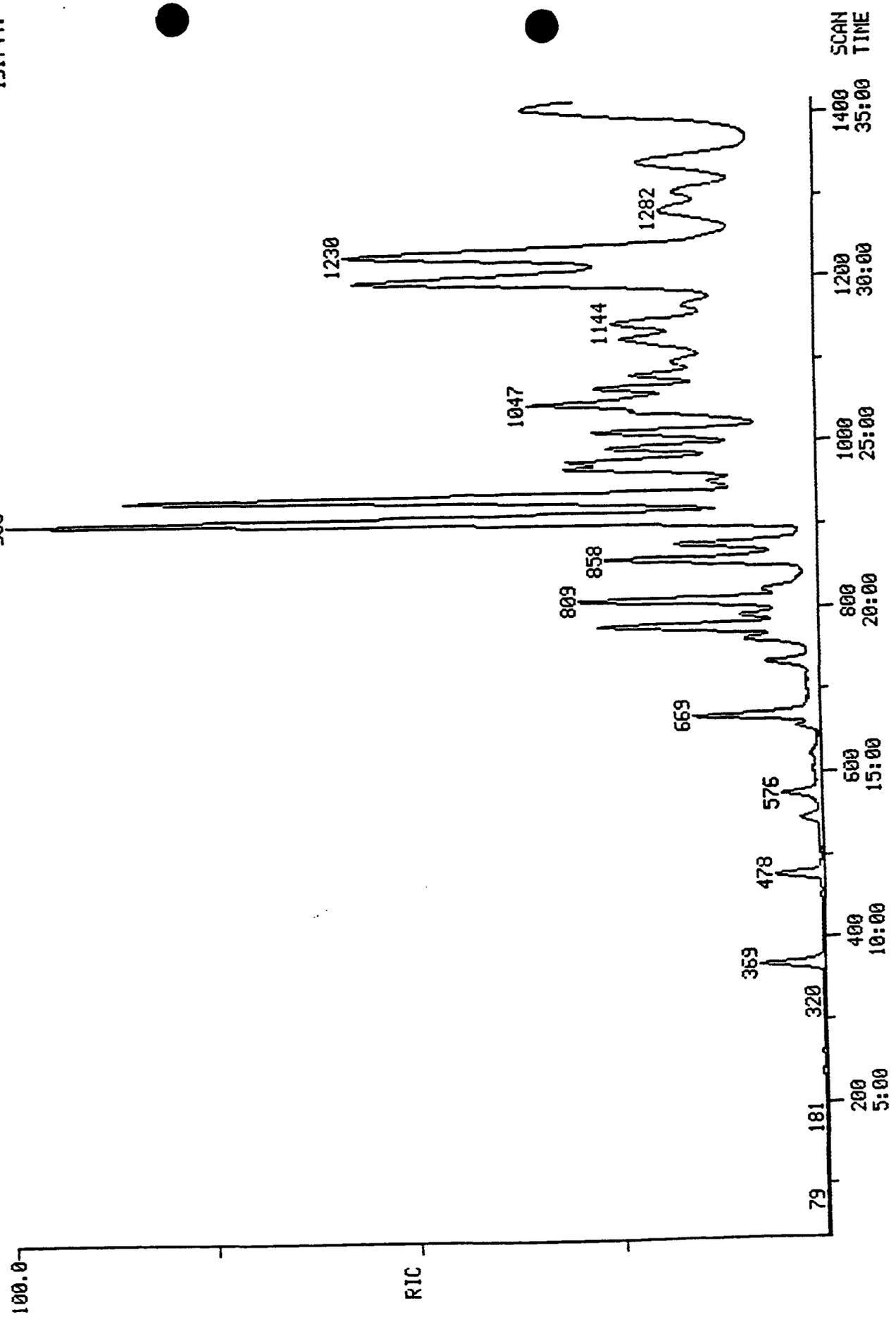
< - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

SCANS 35 TO 1415

DATA: A784612VA #1
CALI: A784612VA #3

RIC
02/04/92 15:59:00
SAMPLE: DT-2A
CONDS.: 1500
RANGE: G 1.1420 LABEL: N 0, 4.0 QJAN: A 0, 1.0 J 0 BASE: U 20, 3

191744.



00004

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Laboratory Name: AnalytikEM-Hou
 Lab Sample ID: A7846-12
 Client Sample ID: DT-2A

Concentration: LOW
 Sample Matrix: SOIL
 Percent Moisture: 5.0

Date Extracted: 01/31/92
 Date Analyzed: 02/04/92
 Dilution Factor: 25

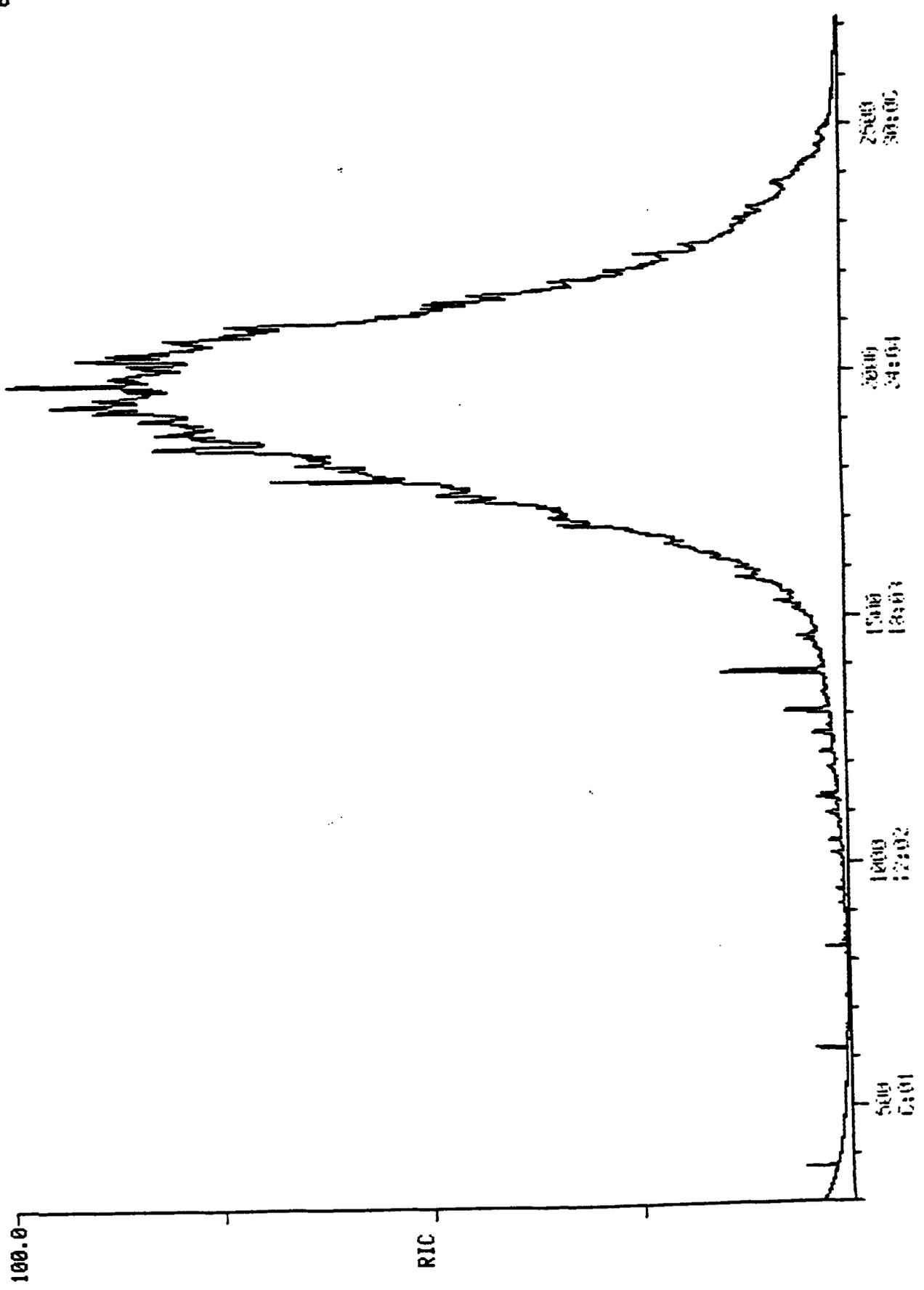
SEMIVOLATILE COMPOUNDS

CAS Number	ug/Kg	CAS Number	ug/Kg
08-95-2	Phenol 8600 <	606-20-2	2,6-Dinitrotoluene 8600 <
02-53-3	Aniline 8600 <	99-09-2	3-Nitroaniline 42000 <
111-44-4	bis(2-Chloroethyl)Ether . 8600 <	83-32-9	Acenaphthene 8600 <
05-57-8	2-Chlorophenol 8600 <	51-28-5	2,4-Dinitrophenol 42000 <
041-73-1	1,3-Dichlorobenzene . . . 8600 <	100-02-7	4-Nitrophenol 42000 <
006-46-7	1,4-Dichlorobenzene . . . 8600 <	132-64-9	Dibenzofuran 8600 <
100-51-6	Benzyl Alcohol 8600 <	121-14-2	2,4-Dinitrotoluene 8600 <
05-50-1	1,2-Dichlorobenzene . . . 8600 <	84-66-2	Diethylphthalate 8600 <
05-48-7	2-Methylphenol 8600 <	7005-72-3	4-Chlorophenyl phenyl ether 8600 <
39638-32-9	bis(2-Chloroisopropyl)Ether 8600 <	86-73-7	Fluorene 8600 <
106-44-5	4-Methylphenol 8600 <	100-01-6	4-Nitroaniline 42000 <
021-64-7	N-Nitroso-Di-n-Propylamine 8600 <	534-52-1	4,6-Dinitro-2-Methylphenol 42000 <
017-72-1	Hexachloroethane 8600 <	86-30-6	N-Nitrosodiphenylamine (1) 8600 <
098-95-3	Nitrobenzene 8600 <	101-55-3	4-Bromophenyl phenyl ether 8600 <
018-59-1	Isophorone 8600 <	118-74-1	Hexachlorobenzene 8600 <
018-75-5	2-Nitrophenol 8600 <	87-86-5	Pentachlorophenol 42000 <
105-67-9	2,4-Dimethylphenol 8600 <	85-01-8	Phenanthrene 8600 <
065-85-0	Benzoic Acid 42000 <	120-12-7	Anthracene 8600 <
011-91-1	bis(2-Chloroethoxy)Methane 8600 <	84-74-2	Di-n-Butylphthalate 8600 <
020-83-2	2,4-Dichlorophenol 8600 <	206-44-0	Fluoranthene 8600 <
120-82-1	1,2,4-Trichlorobenzene . . 8600 <	129-00-0	Pyrene 8600 <
011-20-3	Naphthalene 8600 <	85-68-7	Butylbenzylphthalate 8600 <
006-47-8	4-Chloroaniline 8600 <	91-94-1	3,3'-Dichlorobenzidine . . . 17000 <
087-68-3	Hexachlorobutadiene 8600 <	56-55-3	Benzo(a)Anthracene 8600 <
059-50-7	4-Chloro-3-Methylphenol . . 8600 <	117-81-7	bis(2-Ethylhexyl)Phthalate 8600 <
011-57-6	2-Methylnaphthalene 8600 <	218-01-9	Chrysene 8600 <
017-47-4	Hexachlorocyclopentadiene 8600 <	117-84-0	Di-n-Octyl Phthalate 8600 <
088-06-2	2,4,6-Trichlorophenol . . . 8600 <	205-99-2	Benzo(b)Fluoranthene 8600 <
005-95-4	2,4,5-Trichlorophenol . . . 42000 <	207-08-9	Benzo(k)Fluoranthene 8600 <
011-58-7	2-Chloronaphthalene 8600 <	50-32-8	Benzo(a)Pyrene 8600 <
088-74-4	2-Nitroaniline 42000 <	193-39-5	Indeno(1,2,3-cd)Pyrene . . . 8600 <
131-11-3	Dimethyl Phthalate 8600 <	53-70-3	Dibenz(a,h)Anthracene 8600 <
008-96-8	Acenaphthylene 8600 <	191-24-2	Benzo(g,h,i)Perylene 8600 <

The Lab ID for data on this page is A784612SA.
 < - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

RIC
02/04/92 20:07:00
SAMPLE: CLP,A7846,A7846.DT-2A,LOW,SOIL,A7846-12,BNA,EPA
COND5.: 1508
RANGE: G 1,2717 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3
SCANS 300 TO 2717

637952.



00002

STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION



BRUCE KING
GOVERNOR

ANITA LOCKWOOD
CABINET SECRETARY

March 29, 1993



POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87504
(505) 827-5800

CERTIFIED MAIL
RETURN RECEIPT NO. P-667-242-329

Mr. J.P. Reed
Env. Tech. Services Section-CN-461
Baytown Chemical Plant
Exxon Chemical
Baytown, Texas 77522

**RE: REMOVAL ACTION WORKPLAN
EXXON DAL PASO AND WEST MARLAND SERVICE FACILITIES
HOBBS, NEW MEXICO**

Dear Mr. Reed:

The New Mexico Oil Conservation Division (OCD) is in the process of reviewing Exxon's February 1993 "REMOVAL ACTION WORKPLAN FOR FACILITY OWNED BY EXXON CHEMICAL COMPANY IN HOBBS, NEW MEXICO (1715 DAL PASO STREET) and Exxon's February 1993 "REMOVAL ACTION WORKPLAN FOR FACILITY FORMERLY LEASED BY EXXON CHEMICAL COMPANY IN HOBBS, NEW MEXICO (2607/2609 WEST MARLAND BOULEVARD). These documents were submitted to OCD on Exxon's behalf by Exxon's consultant ENSR Consulting and Engineering.

The OCD needs to receive the following information in order to complete a review of the proposed removal actions:

1. The hazardous waste characteristics for contaminated soils from both facilities, with the exception of soils around the septic tank at the Dal Paso facility, were composites of different source areas. The OCD requires that composite samples for determining hazardous waste characteristics be taken of representative contaminated soils from each individual source area. Please sample representative contaminated soils from each source area, analyze the soils for hazardous waste characteristics and provide the results to OCD.

Mr. J.P. Reed
March 29, 1993
Page 2

2. The total lead concentrations in some of the contaminated soils samples were relatively high. However, the TCLP lead analyses for these areas show concentrations at the detection limit for the analysis. Please explain these discrepancies in the analytic results.

Receipt of this information will allow OCD to complete a review of these workplans. If you have any questions, please contact me at (505) 827-5885.

Sincerely,



William C. Olson
Hydrogeologist
Environmental Bureau

xc: Jerry Sexton, OCD Hobbs District Supervisor
Jay Swindle, ENSR

OIL CONSERVATION DIVISION
RECEIVED



'93 MAR 19 AM 9 00

Baytown Chemical Plant
Raymond C. Floyd
MANAGER

March 15, 1993

Change of Mailing Address and Phones

Mr. Roger C. Anderson
Bureau Chief, Environmental Bureau
Oil Conservation Division
Land Office Building, State of New Mexico
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

Dear Mr. Anderson:

My role at Exxon Chemical has changed recently. I am now associated with the Environmental Affairs Department at Exxon Chemical's Baytown, Texas facility. I am still working on the various site closures around the country associated with Exxon's acquisition of NL Treating Chemicals in 1987. I ask that you direct your correspondence to Exxon Chemical regarding the clean up activities at the two Hobbs, New Mexico sites to me at the following address:

J. P. Reed
Env. Tech. Services Section - CN-461
Baytown Chemical Plant
Exxon Chemical
P.O. Box 4004
Baytown, Texas 77522

Phone: (713) 425 1237
FAX: (713) 425 5788
Beeper: (713) 841 0386

Beeper Instructions:

1. Dial number and listen for 3 beeps.
2. Punch in your phone number followed by # sign.
3. Listen for 5 beeps.
4. Hang up.

Thank you for bearing with me as I make this transition to Baytown.

Very truly yours,

Paul Reed

JPR705

cc: Ms. Jo-Christy Brown - BMOH
Mr. David Sigman - ECA Legal
Mr. Jay Swindle - ENSR C&E



February 4, 1993

RECEIVED

FEB 16 1993

OIL CONSERVATION DIV.
SANTA FE

Mr. Roger C. Anderson
Bureau Chief
Environmental Bureau
Oil Conservation Division
Land Office Building, State of New Mexico
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

ENSR Consulting
and Engineering

3000 Richmond Avenue
Houston, Texas 77098
(713) 520-9900
(713) 520-6802 (FAX)

Re: Waste Classification of Contaminated Soils from the former Exxon Chemical Company Facility at 2607/2609 West Marland Boulevard and Exxon Chemical Company Facility at 1715 Dal Paso, Hobbs, New Mexico

Dear Mr. Anderson:

The purpose of this letter is to:

- Notify the New Mexico Oil Conservation Division (OCD) that the requested samples have been collected and that the contaminated soils from the Exxon Chemical facilities referenced above, should be classified as non-hazardous based on the attached data,
- Submit work plans for the clean up of contaminated soils at the two sites, and
- Request authorization for disposal of the contaminated soils in the Controlled Recovery Incorporated (CRI) landfill near Hobbs, New Mexico.

Waste Classification

As discussed in our meeting on July 31, 1992 OCD requested that a waste classification of the contaminated soils at each of the two Hobbs sites be made prior to submittal of the removal action work plans to OCD. Pursuant to this request, three composite samples were collected from the areas of concern at the sites as discussed in our meeting. Each sample was composited from at least five sample points within known or suspected areas of soil contamination. Samples DP-1 (from the Dal Paso site) and MR-1 (from the Marland site) were collected from trenches through areas of known hydrocarbon and/or lead soil contamination. These contaminated areas had been identified through previous sampling conducted by ENSR in January 1992. In addition, sample DP-2 (from the Dal Paso site) was collected from a trench at the base of the collapsed septic tank as ODC requested. The soil surrounding the septic tank was suspected to have contained oily wastes prior to the tanks decommissioning in 1984. As shown by the attached analytical data, as well as past analytical data, the soils from the septic tank area at the Dal Paso site do not appear to be contaminated with metals or hydrocarbons and therefore are not addressed in the removal action work plan.



February 4, 1993
Mr. Roger C. Anderson
Page 2

The sample results indicate that the soils at the Dal Paso and Marland Street sites are not characteristically hazardous, so the soil can be disposed of as non-hazardous waste.

The volume of contaminated soil from the two sites has been estimated to be approximately 100-200 cubic yards.

Work Plans

Work plans are attached for your review and approval. After obtaining OCD approval, ENSR expects to begin field work within 60 days, weather permitting.

Disposal Authorization Request

Exxon is requesting authorization from the OCD for disposal of the non-hazardous contaminated waste soils at the following waste management facility:

Controlled Recovery Inc., Landfill
P.O. Box 369
Hobbs, New Mexico 88241

Attached is the generator certificate and analytical data stating that the contaminated material described in this letter is not listed as a RCRA hazardous waste in 40 CFR 261.31, nor is it characteristically toxic.

We appreciate your prompt review of the attached work plans and issuance of the disposal authorization. Please return a copy of the written authorization to me at the address below.

If you have any comments or require additional information, please contact me or Scott Kuykendall at 713/520-9900.

Sincerely,

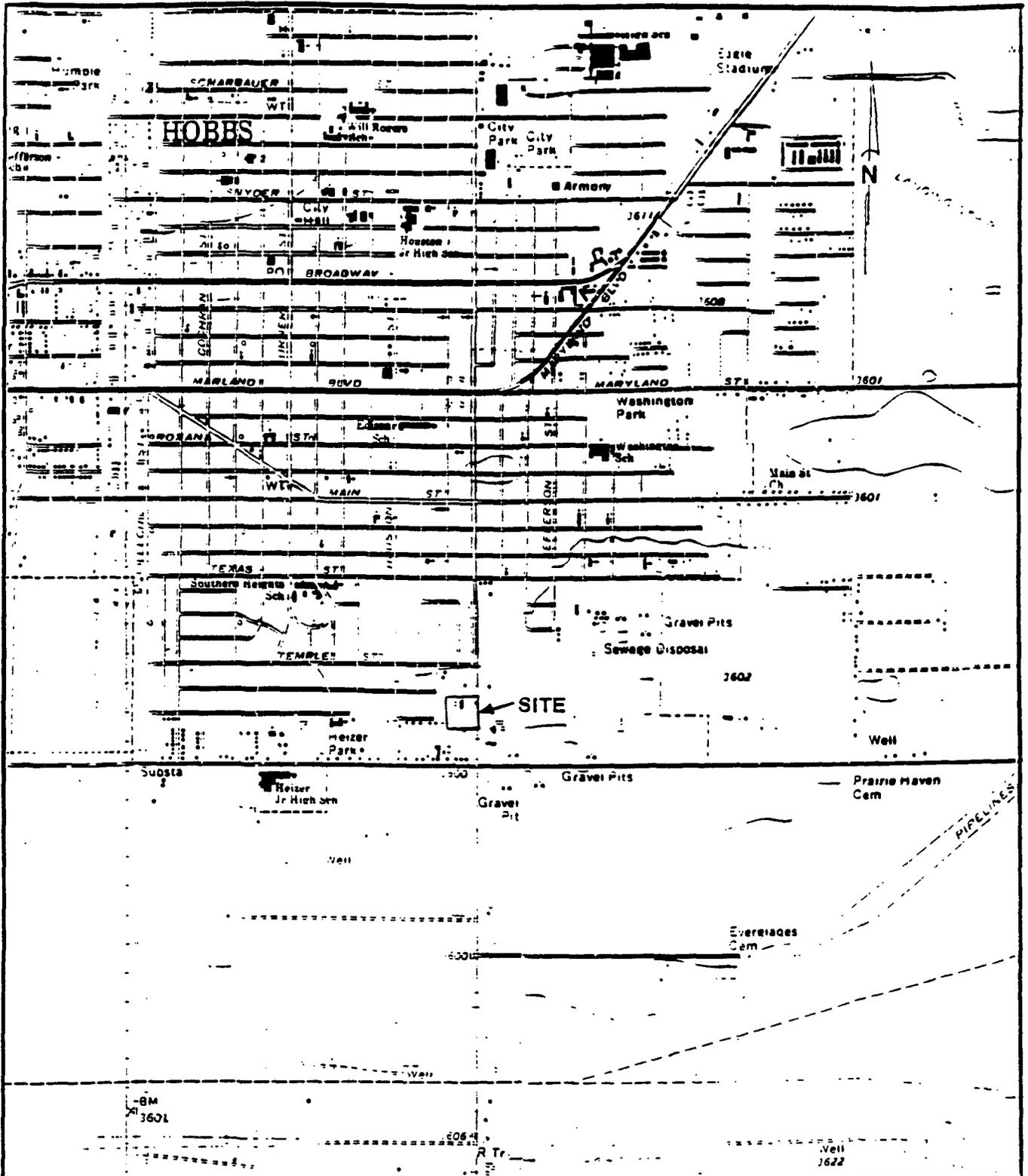
Jay Swindle, P.E.
Project Manager

J. Scott Kuykendall
Staff Geologist

JS:JSK/db

Reference No. 1009-006-120

cc: Keith Hopson, Brown McCarroll and Oaks Hartline
Paul Reed, Exxon



REFERENCE: U.S.G.S. Quadrangle Map for
Hobbs, New Mexico
1979.

ENSRTM

ENSR CONSULTING AND ENGINEERING

PROPERTY LOCATION
1715 DAL PASO STREET
HOBBS, NEW MEXICO

DRAWN BY: S. GHANI

DATE: 10-19-92

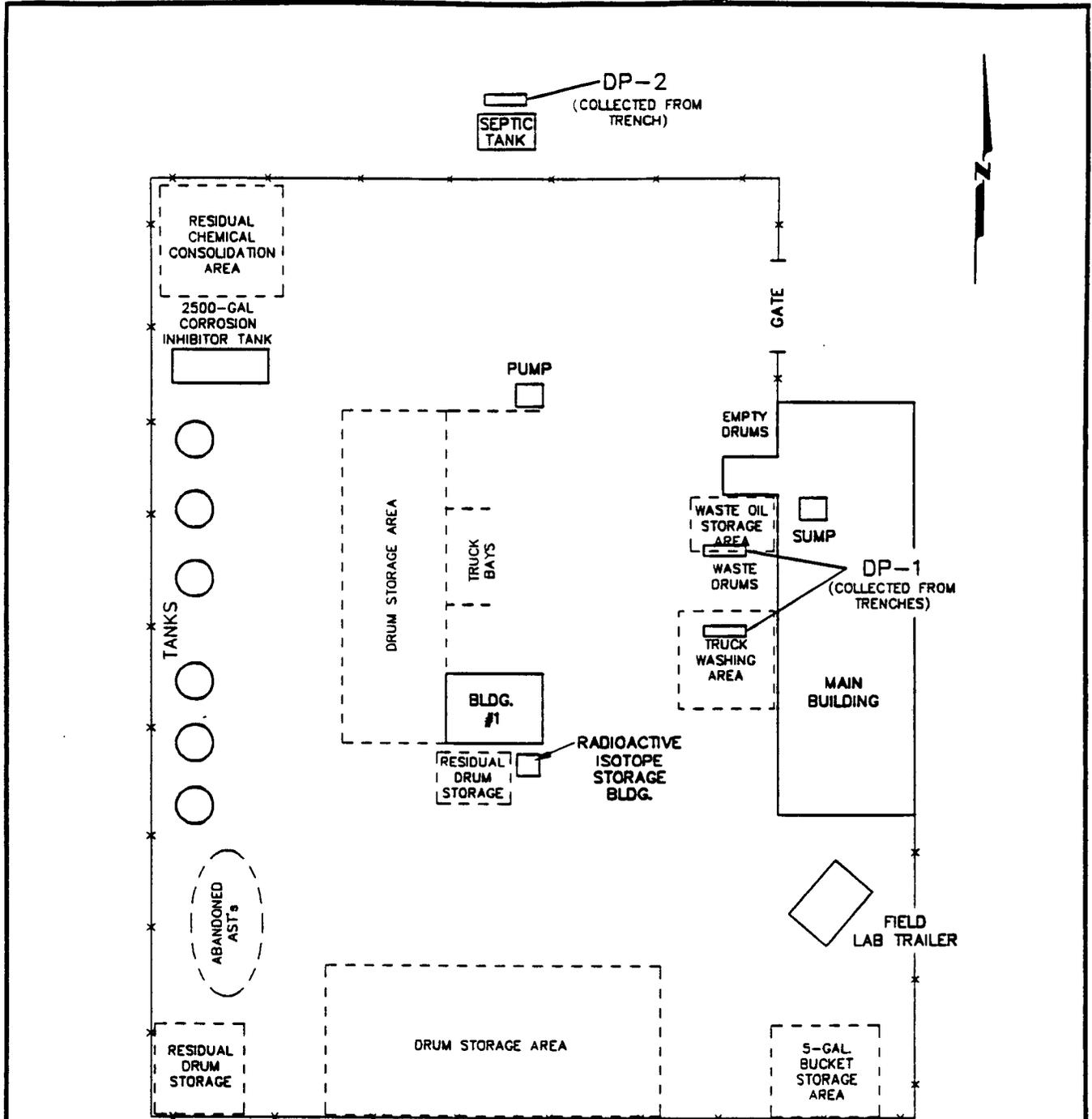
PROJECT
NUMBER:

CHK'D BY:

REVISED:

'009-001-150

10P0



CE100949

NOT TO SCALE

ENSR TM		
ENSR CONSULTING & ENGINEERING		
SITE PLOT PLAN WITH SAMPLE LOCATIONS 1715 DAL PASO STREET HOBBS, NEW MEXICO		
DRAWN: SJF/SG	DATE: 11-12-92	PROJECT NUMBER:
APPV'D:	REVISED:	1009-001-150

**GENERATORS CERTIFICATE PREPARED FOR THE
STATE OF NEW MEXICO, OIL CONSERVATION DIVISION**

"I certify that the waste described in this and attached documents is not a listed hazardous waste as described by 40 CFR 261 Subpart D and that the waste described is not contaminated with a listed hazardous waste. I further certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment."

Signature: _____

Paul Reed

Date Signed: _____

1-26-93

Name and Official Title (Type or Print):

Paul Reed
Environmental Coordinator
Econ Chemical Company
8280 Steadman
Houston, Texas 77029

Generators Name and Location:

Econ Chemical Co.
1715 Dal Paso St.
Hobbs, New Mexico

Econ Chemical Co.
2807/2809 W. Marland Blvd.
Hobbs, New Mexico

Type and Quantity of Waste:

There are approximately 50 to 100 cubic yards of non-hazardous contaminated soils at the Dal Paso street location and approximately 50 to 100 cubic yards at the West Marland Street location.

Summary of Analytical Results
Exxon Chemical Company Facility
1715 Dal Paso Street
Hobbs, New Mexico
Date Sampled: 9-3-92

Analytical Parameters	Regulatory Threshold Limit	Sample ID: DP-1 Depth: 0'-2'		Sample ID: DP-2 Depth: 6'-8'	
		Level Detected	Detection Limit	Level Detected	Detection Limit
TCLP Metals (mg/l)					
Arsenic	5.0	<0.2	0.2	<0.2	0.2
Barium	100.0	1.2	0.5	1.2	0.5
Cadmium	1.0	<0.010	0.010	<0.010	0.010
Chromium	5.0	<0.05	0.05	<0.05	0.05
Lead	5.0	0.1	0.02	0.02	0.02
Mercury	0.2	<0.001	0.001	<0.001	0.001
Selenium	1.0	<0.2	0.2	<0.2	0.2
Silver	5.0	<0.01	0.01	<0.01	0.01
TCLP Volatiles (µg/l)					
Pyridine	5,000	<13	13	<10	10
Vinyl Chloride	200	<10	10	<10	10
1,1-Dichloroethene	700	<5	5	<5	5
Chloroform	6,000	<5	5	<5	5
1,2-Dichloroethane	500	<5	5	<5	5
Methyl Ethyl Ketone	200,000	<10	10	<10	10
Carbon Tetrachloride	500	<5	5	<5	5
Trichloroethene	500	<5	5	<5	5
Benzene	500	<5	5	<5	5
Tetrachloroethene	700	<5	5	<5	5
Chlorobenzene	100,000	<5	5	<5	5
TCLP Semivolatiles (µg/l)					
1,4-Dichlorobenzene	7,500	<13	13	<10	10
2-Methylphenol	200,000	<13	13	<10	10
4-Methylphenol	200,000	<13	13	<10	10
3-Methylphenol	200,000	<13	13	<10	10

Summary of Analytical Results
Exxon Chemical Company Facility
1715 Dal Paso Street
Hobbs, New Mexico
Date Sampled: 9-3-92

Analytical Parameters	Regulatory Threshold Limit	Sample ID: DP-1 Depth: 0'-2'		Sample ID: DP-2 Depth: 6'-8'	
Hexachloroethane	3,000	<13	13	<10	10
Nitrobenzene	2,000	<13	13	<10	10
Hexachlorobuta- diene	500	<13	13	<10	10
2,4,6-Trichlorophenol	2,000	<13	13	<10	10
2,4,5-Trichlorophenol	400,000	<66	66	<50	50
2,4-Dinitrotoluene	130	<13	13	<10	10
Hexachlorobenzene	130	<13	13	<10	10
Pentachlorophenol	100,000	<66	66	<50	50
RCRA Characteristics					
pH	2 < pH < 12.5	8.57 units	0.01 units	8.13 units	0.01 units
Corrosivity	> 6.35 MMPY	Unable to analyze due to matrix		Unable to analyze due to matrix	
Ignitability	< 140°F	Unable to analyze due to matrix		Unable to analyze due to matrix	
Reactivity - HCN - H ₂ S	250 mg/kg 500 mg/kg	<0.40 mg/kg 245 mg/kg	0.40 mg/kg 20 mg/kg	<0.40 mg/kg 146 mg/kg	0.40 mg/kg 20 mg/kg

AnalytiKEM

An American NuKEM Company

AnalytiKEM Inc.
2925 Richmond Avenue
Houston, TX 77098
713/520-1495
713/520-9900
Fax: 713/523-7107

October 2, 1992

ENSR
3000 Richmond
Houston, TX 77098

Attention: Scott Kuykendall

Attached are reports of chemical analyses of samples received
September 9, 1992. These analyses are:

Count	Test Code	Test Name	Test Method	Sampled	Matrix
3	Ag - -TCL-HOU	TCLP SILVER	EPA SW-846: 7760, ATOMIC ABSORPTION		TCLP_EXT
3	As - -TCI-HOU	TCLP ARSENIC	EPA SW-846: 6010, ICP		TCLP_EXT
3	BNA - - -HOU	SEMIVOLATILE ORGANICS	EPA SW-846: 3520,8270, LLE,GC/MS		TCLP_EXT
3	Ba - -TCL-HOU	TCLP BARIUM	EPA SW-846: 6010, ICP		TCLP_EXT
3	CORR -S- -HOU	CORROSIVITY ON SOLID	EPA SW-846: 1110, NACE STEEL COUPON	09/03/92	SOIL
3	Cd - -TCL-HOU	TCLP CADMIUM	EPA SW-846: 6010, ICP		TCLP_EXT
3	Cr - -TCL-HOU	TCLP CHROMIUM	EPA SW-846: 6010, ICP		TCLP_EXT
3	FP -S- -HOU	IGNITABILITY ON SOLID	EPA SW-846: 1010, PENSKY MARTIN	09/03/92	SOIL
3	H2S -S-REA-SWL	HYDROGEN SULFIDE, REACTIVE/SLD	EPA SW-846: 7.3.4.2, 9030	09/03/92	SOIL
3	HCN -S-REA-SWL	HYDROCYANIC ACID, REACTIVE/SLD	EPA SW-846: 7.3.3.2, 9010	09/03/92	SOIL
3	Hg - -TCL-HOU	TCLP MERCURY	EPA SW-846: 7470, COLD VAPOR		TCLP_EXT
3	Pb - -TCL-HOU	TCLP LEAD	EPA SW-846: 6010, ICP		TCLP_EXT
3	Se - -TCI-HOU	TCLP SELENIUM	EPA SW-846: 6010, ICP		TCLP_EXT
3	VOA - - -HOU	VOLATILE ORGANIC ANALYSES	EPA SW-846: 8240, GC/MS		TCLP_EXT
3	pH -S-COR-HOU	pH CORROSION ON SOLID	EPA SW-846: 9045	09/03/92	SOIL

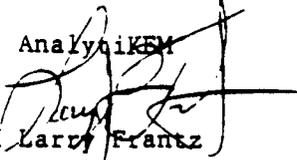
Data contained in this report reflect a full quality control review and have met all applicable standards established by AnalytiKEM. AnalytiKEM quality assurance protocols are in accordance with EPA guidelines.

Should you have any questions, do not hesitate to contact me at
(713) 520-1495.

LAB NO. A8972 CONT.

Very Truly Yours,

ANALYTIKEM



Larry Frantz
Lab Director

LF/lis

Enclosures: Analytical Summary, Analytical Report, Chain of Custody, Sample Receipt Checklist, Quality Control Logs, ANALYTIKEM ID #A8972-1T, ANALYTIKEM ID #A8972-2T, ANALYTIKEM ID #A8972-3T, SWL CERT. #92-09-118-01, SWL CERT. #92-09-118-02, SWL CERT. #92-09-118-03

LAB NO. A8972
PROJECT 1009-001-150 EXXON

AnalytiKEM An American NuKEM Company

SAMPLE DISPOSAL LETTER

AnalytiKEM Inc.
2925 Richmond Avenue
Houston, TX 77098
713/520-1495
713/520-9900
Fax: 713/523-7107

DATE: 10/02/92

TO: Scott Kuykendall

FROM: Larry Frantz, Lab Director

PROJ. NO.: 1009-001-150 LAB NO.: A8972 RECEIVED:09/09/92
EXXON

It is the policy of AnalytiKEM Laboratories to dispose of unanalyzed portions of samples thirty days following submittal of the hard copy data package. Samples from lab number A8972 are due for disposal on November 6, 1992.

Please indicate your preference for disposal below and return this form to Lab Receiving personnel by October 23, 1992. No response will be interpreted as permission to dispose of the samples on November 6, 1992 and charge your project accordingly.

() A. AnalytiKEM's preferred policy for disposal is to dispose of unused samples, including samples not analyzed, by drumming and transporting by a federally licensed hazardous waste transportation firm at a cost of \$6.50/Field ID. In an effort to present all relative charges in a timely manner, disposal charges will appear upon this project's billing summary unless this letter is returned with instructions indicating otherwise.

() B. AnalytiKEM will return remaining samples, including samples not authorized for analysis to the originating site at our expense.

ADDRESS OF THE
ORIGINATING SITE: _____

() C. AnalytiKEM will hold your sample at a cost of \$20.00/Field ID per quarter for refrigerated storage or \$6.50/Field ID per quarter for ambient storage. The project will be billed in advance each quarter based upon the number of samples in storage at the beginning of the quarter. The minimum storage fee per project will be \$50.00 to cover administrative costs.

() Refrigerated () Ambient _____ Number of Samples or ALL

Should you have any questions, do not hesitate to contact me at (713) 520-1495.

SIGNATURE: _____

LF/lis

LAB NO. A8972
PROJECT 1009-001-150 EXXON

800 21A3B13

AnalytikEM

An American NuKEM Company

2925 RICHMOND AVENUE HOUSTON, TX 77098 (713) 520-1495 FAX: (713) 523-7107

Analysis Request and Chain of Custody Record

Project No.		Client/Project Name		Project Location		ANALYSIS REQUESTED	LABORATORY REMARKS
A009-001-150.160		Exxon		DALLAS / MARLAND			
Lab ID No	Field Sample No / Identification	Date and Time	Sample Container (Size/Mat'l)	Sample Type (Liquid Sludge, Etc.)	Preservative		
1 DR-1		9-3-92	4oz	Soil	UPC	TCLP Volatiles	
1 DR-1		9-3-92	16oz	Soil		TCLP Semi Volatiles	
1 DR-1		9-3-92	16oz	Soil		TCLP Metals	
1 DR-1		9-3-92	55um	Soil		TPH (GC)	
1 DR-1		9-3-92	55um	Soil		Reactivity	
1 DR-1		9-3-92	amb	Soil		ph, corrosivity, flashpoint	
1 DR-1		9-3-92	8oz	Soil		TCLP Volatiles	
2 DR-2		9-3-92	4oz	Soil		TCLP Semi Volatiles	
2 DR-2		9-3-92	16oz	Soil		TCLP Metals	
2 DR-2		9-3-92	amb	Soil		TPH (GC)	
2 DR-2		9-3-92	16oz	Soil			
2 DR-2		9-3-92	55um	Soil			
2 DR-2		9-3-92	8oz	Soil			
2 DR-2		9-3-92	55um	Soil			

Relinquished by (Signature)	Date: 9-3-92	Received by (Signature)	Date: 9-9-92
Relinquished by (Signature)	Time: 3:00	Received by (Signature)	Time: 5:00
Relinquished by (Signature)	Date:	Received by (Signature)	Date: 9-9-92
Relinquished by (Signature)	Time:	Received by (Signature)	Time: 5:00

CO Seal No. _____

LABORATORY No. A8972

REMARKS: 1. Jay Swindle

AnalytiKEM

An American NUKEM Company

2925 RICHMOND AVENUE HOUSTON, TX 77098 (713) 520-1495 FAX: (713) 523-7107

Analysis Request and Chain of Custody Record

Project no.		Client/Project Name		Project Location		LABORATORY REMARKS
1009-001-150160		EXXON		Del Rio / Moreland		
Lab ID No	Field Sample No / Identification	Date and Time	Sample Container (Size/Mat'l)	Sample Type (Liquid Sludge, Etc.)	Preservative	ANALYSIS REQUESTED
2DR-2	802	9-3-92	AMB	Soil	4°C	Reactivity
2DR-2	802	9-3-92	SSUN	Soil	4°C	gh, curvity, flashpoint
3MR-1	802	9-3-92	AMB	Soil	4°C	TCLP VOA
3MR-1	802	9-3-92	SSUN	Soil	4°C	TCLP Semi VOA - <i>open broken</i>
3MR-1	802	9-3-92	SSUN	Soil	4°C	TCLP Metals
3MR-1	802	9-3-92	SSUN	Soil	4°C	TPH (6C)
3MR-1	802	9-3-92	AMB	Soil	4°C	Reactivity
3MR-1	802	9-3-92	SSUN	Soil	4°C	gh, curvity, flashpoint

Relinquished by: (Signature) <i>[Signature]</i>	Date: 9-3-92	Received by: (Signature) <i>[Signature]</i>	Date: 9-5-92
Relinquished by: (Signature)	Time: 1200	Received by: (Signature)	Time: 9:02
Relinquished by: (Signature)	Date:	Received by: (Signature)	Date:
Affiliation		Received by: (Signature)	Time:

REMARKS: 1. FAR Swindle

Laboratory No. A8972

ANAL 'TIKEM LABORATORIES
SAMPLE RECEIPT CHECKLIST

Client Eikon Project Number 009-001-150160 Laboratory Number 78973

- 1. Shipped
 Hand Delivered
Notes: Fed Ex #946353132
No Ticket
- 2. COC Present on Receipt
 No COC
Notes: _____
- 3. COC Tape on Shipping Container
 No COC Tape on Shipping Container
Notes: _____
- 4. Samples Broken/Leaking
 Sample Intact on Receipt
 Other (See Notes)
Notes: See Below
Rest of Samples
- 5. Ambient on Receipt
 Chilled on Receipt
Notes: See Below
- 6. Samples Preserved Correctly
 Improper Preservatives
 N/A (None Recommended)
 Other (See Notes)
Notes: _____
- 7. Received Within Holding Time
 Not Received Within Holding Time
 N/A (None Recommended)
 Other (See Notes)
Notes: _____
- 8. COC Tapes on Samples
 No COC Tapes on Samples
Notes: _____
- 9. Discrepancies Between COC and Sample Labels
 No Discrepancies Noted
 N/A (No COC Received)
Notes: See Below

Inspected and Logged in by: Sal Duro Date/Time 9-9-92 9:02

Additional Comments: Samples should have arrived Friday 9-4-92 but samples didn't get there because there were no labels Scott K called on 9-8-92 & said the samples would be met & ambient to maintain one of the 40g Tally on TCEP vials should not have

AnalytiKEM-Houston

Analytical Summary

10/13/92 11:12

Lab Number: A8972						
Project: 1009-001-150						
EXXON						
Lab ID	1	2	3	1T	2T	3T
Field ID	DP-1	DP-2	MR-1	DP-1/ TCLP	DP-2/ TCLP	MR-1/ TCLP
Test /Matrix	SOIL	SOIL	SOIL	TCLP_EXT	TCLP_EXT	TCLP_EXT
Ag - -TCL-HOU	--	--	--	<0.01* MG/L (0.01)*	<0.01* MG/L (0.01)*	<0.01* MG/L (0.01)*
(MDL)						
As - -TCI-HOU	--	--	--	<0.2* MG/L (0.2)*	<0.2* MG/L (0.2)*	<0.2* MG/L (0.2)*
(MDL)						
BNA - - -HOU	--	--	--	ATTACHED UG/L ()*	ATTACHED UG/L ()*	ATTACHED UG/L ()*
(MDL)						
Ba - -TCL-HOU	--	--	--	1.2* MG/L (0.5)*	1.2* MG/L (0.5)*	1.2* MG/L (0.5)*
(MDL)						
CORR -S- -HOU	SEE REM* ()*	SEE REM* ()*	SEE REM* ()*	--	--	--
(MDL)						
Cd - -TCL-HOU	--	--	--	<0.010* MG/L (0.010)*	<0.010* MG/L (0.010)*	<0.010* MG/L (0.010)*
(MDL)						
Cr - -TCL-HOU	--	--	--	<0.05* MG/L (0.05)*	<0.05* MG/L (0.05)*	<0.05* MG/L (0.05)*
(MDL)						
FP -S- -HOU	SEE REM* ()*	SEE REM* ()*	SEE REM* ()*	--	--	--
(MDL)						
H2S -S-REA-SWL	ATTACHED PPM ()*	ATTACHED PPM ()*	ATTACHED PPM ()*	--	--	--
(MDL)						

* Please see attached Analytical Report for remarks.

Signatures of approval indicate quality assurance-quality control verification of analytical results, billing and enclosed documentation.

Approvals: [Signature] Date: 10/13/92 [Signature] Date: 10/13/92

***** CONTINUED *****

AnalytiKEM-Houston

Analytical Summary

10/13/92 11:12

Lab Number: A8972						
Project: 1009-001-150						
EXXON						
Lab ID	1	2	3	1T	2T	3T
Field ID	DP-1	DP-2	MR-1	DP-1/ TCLP	DP-2/ TCLP	MR-1/ TCLP
Test /Matrix	SOIL	SOIL	SOIL	TCLP_EXT	TCLP_EXT	TCLP_EXT
HCN -S-REA-SWL	ATTACHED	ATTACHED	ATTACHED	--	--	--
(MDL)	(*)	(*)	(*)			
Hg - -TCL-HOU	--	--	--	<0.001* MG/L	<0.001* MG/L	<0.001* MG/L
(MDL)				(0.001)*	(0.001)*	(0.001)*
Pb - -TCL-HOU	--	--	--	0.1* MG/L	0.02 MG/L	0.02 MG/L
(MDL)				(0.02)*	(0.02)*	(0.02)*
Se - -TCI-HOU	--	--	--	<0.2* MG/L	<0.2* MG/L	<0.2* MG/L
(MDL)				(0.2)*	(0.2)*	(0.2)*
TPH -S-GC -HOU	34	<25	270J*	--	--	--
(MDL)	MG/KG (25)	MG/KG (25)	MG/KG (460)*			
VOA - - -HOU	--	--	--	ATTACHED UG/L	ATTACHED UG/L	ATTACHED UG/L
(MDL)				(*)	(*)	(*)
pH -S-COR-HOU	8.57	8.13	8.06	--	--	--
(MDL)	UNITS (0.01)	UNITS (0.01)	UNITS (0.01)			

* Please see attached Analytical Report for remarks.

Signatures of approval indicate quality assurance-quality control verification of analytical results, billing and enclosed documentation.

Approvals: Bill Davis

Date: 10/13/92

Date: 10/13/92

AnalytiKEM-Houston

Analytical Report

10/13/92 11:10

EXXON	Field ID: DP-1	Date Sampled: 09/03/92
Proj. No.: 1009-001-150	Lab ID: 1	Time Sampled: 830
Lab No.: A8972	Matrix: SOIL	(COMPOSITE) Date Received: 09/09/92

(Test Code) Parameter (Test Name) (Test Method)	Concentration	Units	Method Detection Limit	Date/Time Analysis Performed
CORR -S- -HOU CORROSIVITY ON SOLID EPA SW-846: 1110, NACE STEEL COUPON	SEE REM* *1			/ /
FP -S- -HOU IGNITABILITY ON SOLID EPA SW-846: 1010, PENSKY MARTIN	SEE REM* *2,3			/ /
H2S -S-REA-SWL HYDROGEN SULFIDE, REACTIVE/SLD EPA SW-846: 7.3.4.2, 9030	ATTACHED *4	PPM		09/14/92
HCN -S-REA-SWL HYDROCYANIC ACID, REACTIVE/SLD EPA SW-846: 7.3.3.2, 9010	ATTACHED *4	PPM		09/14/92
TPH -S-GC -HOU PETROLEUM HYDROCARBON BY GC EPA SW-846: 8015 MOD, GC	34	MG/KG	25	Ext.: 09/15/92 Anal.: 09/16/92
pH -S-COR-HOU pH CORROSION ON SOLID EPA SW-846: 9045	8.57	UNITS	0.01	09/16/92 1620

- *1 *UNABLE TO ANALYZE DUE TO SOLID MATRIX
- *2 ABSORPTION OF WATER OR MANUAL FRICTION
- *3 FLASHPOINT N/A, NON-LIQUID MATRIX NO FIRE CAUSED BY IGNITION
- *4 SEE SWL CERT. #92-09-118-01

Analytical Report - Houston

Analytical Report

10/13/92 11:11

(Test Code) Parameter (Test Name) (Test Method)	Concentration	Units	Method Detection Limit	Date/Time Analysis Performed
EXXON Proj. No.: 1009-001-150 Lab No.: A8972	Field ID: DP-2 Lab ID: 2 Matrix: SOIL		Date Sampled: 09/03/92 Time Sampled: 930 Date Received: 09/09/92	
CORR -S- -HOU CORROSIVITY ON SOLID EPA SW-846: 1110, NACE STEEL COUPON	SEE REM* *1			/ /
FP -S- -HOU IGNITABILITY ON SOLID EPA SW-846: 1010, PENSKEY MARTIN	SEE REM* *2,3			/ /
H2S -S-REA-SWL HYDROGEN SULFIDE, REACTIVE/SLD EPA SW-846: 7.3.4.2, 9030	ATTACHED *4	PPM		09/14/92
HCN -S-REA-SWL HYDROCYANIC ACID, REACTIVE/SLD EPA SW-846: 7.3.3.2, 9010	ATTACHED *4	PPM		09/14/92
TPH -S-GC -HOU PETROLEUM HYDROCARBON BY GC EPA SW-846: 8015 MOD, GC	<25	MG/KG	25	Ext.: 09/15/92 Anal.: 09/16/92
pH -S-COR-HOU pH CORROSION ON SOLID EPA SW-846: 9045	8.13	UNITS	0.01	09/16/92 1620

- *1 *UNABLE TO ANALYZE DUE TO SOLID MATRIX
- *2 ABSORPTION OF WATER OR MANUAL FRICTION
- *3 FLASHPOINT N/A, NON-LIQUID MATRIX NO FIRE CAUSED BY IGNITION
- *4 SEE SWL CERT. #92-09-118-02

AnalytiKEM-Houston

Analytical Report

10/13/92 11:11

EXXON	Field ID: MR-1	Date Sampled: 09/03/92		
Proj. No.: 1009-001-150	Lab ID: 3	Time Sampled: 1100		
Lab No.: A8972	Matrix: SOIL (COMPOSITE)	Date Received: 09/09/92		
(Test Code) Parameter (Test Name) (Test Method)	Concentration	Units	Method Detection Limit	Date/Time Analysis Performed
CORR -S- -HOU CORROSIVITY ON SOLID EPA SW-846: 1110, NACE STEEL COUPON	SEE REM* *1			/ /
FP -S- -HOU IGNITABILITY ON SOLID EPA SW-846: 1010, PENSKY MARTIN	SEE REM* *2,3			/ /
H2S -S-REA-SWL HYDROGEN SULFIDE, REACTIVE/SLD EPA SW-846: 7.3.4.2, 9030	ATTACHED *4	PPM		09/14/92
HCN -S-REA-SWL HYDROCYANIC ACID, REACTIVE/SLD EPA SW-846: 7.3.3.2, 9010	ATTACHED *4	PPM		09/14/92
TPH -S-GC -HOU PETROLEUM HYDROCARBON BY GC EPA SW-846: 8015 MOD, GC	270J* *5	MG/KG	460	Ext.: 09/15/92 Anal.: 09/16/92
pH -S-COR-HOU pH CORROSION ON SOLID EPA SW-846: 9045	8.06	UNITS	0.01	09/16/92 1620

- *1 *UNABLE TO ANALYZE DUE TO SOLID MATRIX
- *2 ABSORPTION OF WATER OR MANUAL FRICTION
- *3 FLASHPOINT N/A, NON-LIQUID MATRIX NO FIRE CAUSED BY IGNITION
- *4 SEE SWL CERT. #92-09-118-03
- *5 RESULT DETECTED BELOW MDL

AnalytiKEM-Houston

Analytical Report

10/13/92 11:11

EXXON	Field ID: DP-1/TCLP	Date Sampled: / /		
Proj. No.: 1009-001-150	Lab ID: 1T	Time Sampled:		
Lab No.: A8972	Matrix: TCLP_EXT	Date Received: 09/09/92		
(Test Code) Parameter (Test Name) (Test Method)	Concentration	Units	Method Detection Limit	Date/Time Analysis Performed
Ag - -TCL-HOU TCLP SILVER EPA SW-846: 7760, ATOMIC ABSORPTION	<0.01* *1	MG/L	0.01	09/21/92 1350
As - -TCI-HOU TCLP ARSENIC EPA SW-846: 6010, ICP	<0.2* *1	MG/L	0.2	09/24/92 853
BNA - - -HOU SEMIVOLATILE ORGANICS EPA SW-846: 3520,8270, LLE,GC/MS	ATTACHED *2,1	UG/L		Ext.: 09/18/92 Anal.: 09/23/92
Ba - -TCL-HOU TCLP BARIUM EPA SW-846: 6010, ICP	1.2* *1	MG/L	0.5	09/24/92 853
Cd - -TCL-HOU TCLP CADMIUM EPA SW-846: 6010, ICP	<0.010* *1	MG/L	0.010	09/24/92 853
Cr - -TCL-HOU TCLP CHROMIUM EPA SW-846: 6010, ICP	<0.05* *1	MG/L	0.05	09/24/92 853
Hg - -TCL-HOU TCLP MERCURY EPA SW-846: 7470, COLD VAPOR	<0.001* *1	MG/L	0.001	09/22/92 1600
Pb - -TCL-HOU TCLP LEAD EPA SW-846: 6010, ICP	0.1* *1	MG/L	0.02	09/24/92 853

*1 *RESULT IS NOT SPIKE CORRECTED

*2 SEE ANALYTIKEM ID #A8972-1T

***** CONTINUED *****

AnalytiKEM-Houston

Analytical Report

10/13/92 11:11

EXXON	Field ID: DP-1/TCLP	Date Sampled: / /		
Proj. No.: 1009-001-150	Lab ID: 1T	Time Sampled:		
Lab No.: A8972	Matrix: TCLP_EXT	Date Received: 09/09/92		
(Test Code)	Concentration	Units	Method Detection Limit	Date/Time Analysis Performed
Parameter (Test Name) (Test Method)				
Se - -TCI-HOU TCLP SELENIUM EPA SW-846: 6010, ICP	<0.2* *1	MG/L	0.2	09/24/92 853
VOA - - -HOU VOLATILE ORGANIC ANALYSES EPA SW-846: 8240, GC/MS	ATTACHED *2,1	UG/L		Ext.: 09/17/92 Anal.: 09/17/92

*1 *RESULT IS NOT SPIKE CORRECTED

*2 SEE ANALYTIKEM ID #A8972-1T

AnalytiKEM-Houston

Analytical Report

10/13/92 11:11

EXXON	Field ID: DP-2/TCLP	Date Sampled: / /		
Proj. No.: 1009-001-150	Lab ID: 2T	Time Sampled:		
Lab No.: A8972	Matrix: TCLP_EXT	Date Received: 09/09/92		
(Test Code) Parameter (Test Name) (Test Method)	Concentration	Units	Method Detection Limit	Date/Time Analysis Performed
Ag - -TCL-HOU TCLP SILVER EPA SW-846: 7760, ATOMIC ABSORPTION	<0.01* *1	MG/L	0.01	09/21/92 1350
As - -TCI-HOU TCLP ARSENIC EPA SW-846: 6010, ICP	<0.2* *1	MG/L	0.2	09/24/92 853
BNA - - -HOU SEMIVOLATILE ORGANICS EPA SW-846: 3520,8270, LLE,GC/MS	ATTACHED *2,1	UG/L		Ext.: 09/18/92 Anal.: 09/23/92
Ba - -TCL-HOU TCLP BARIUM EPA SW-846: 6010, ICP	1.2* *1	MG/L	0.5	09/24/92 853
Cd - -TCL-HOU TCLP CADMIUM EPA SW-846: 6010, ICP	<0.010* *1	MG/L	0.010	09/24/92 853
Cr - -TCL-HOU TCLP CHROMIUM EPA SW-846: 6010, ICP	<0.05* *1	MG/L	0.05	09/24/92 853
Hg - -TCL-HOU TCLP MERCURY EPA SW-846: 7470, COLD VAPOR	<0.001* *1	MG/L	0.001	09/22/92 1600
Pb - -TCL-HOU TCLP LEAD EPA SW-846: 6010, ICP	0.02 *1	MG/L	0.02	09/24/92 853

*1 *RESULT IS NOT SPIKE CORRECTED

*2 SEE ANALYTIKEM ID #A8972-2T

***** CONTINUED *****

AnalytiKEM-Houston

Analytical Report

10/13/92 11:11

EXXON	Field ID: DP-2/TCLP	Date Sampled: / /		
Proj. No.: 1009-001-150	Lab ID: 2T	Time Sampled:		
Lab No.: A8972	Matrix: TCLP_EXT	Date Received: 09/09/92		
(Test Code)	Concentration	Units	Method Detection Limit	Date/Time Analysis Performed
Parameter (Test Name) (Test Method)				
Se - -TCI-HOU TCLP SELENIUM EPA SW-846: 6010, ICP	<0.2* *1	MG/L	0.2	09/24/92 853
VOA - - -HOU VOLATILE ORGANIC ANALYSES EPA SW-846: 8240, GC/MS	ATTACHED *2,1	UG/L		Ext.: 09/17/92 Anal.: 09/17/92

*1 *RESULT IS NOT SPIKE CORRECTED
 *2 SEE ANALYTIKEM ID #A8972-2T

AnalytiKEM-Houston

Analytical Report

10/13/92 11:11

EXXON Proj. No.: 1009-001-150 Lab No.: A8972	Field ID: MR-1/TCLP Lab ID: 3T Matrix: TCLP_EXT	Date Sampled: / / Time Sampled: Date Received: 09/09/92		
(Test Code) Parameter (Test Name) (Test Method)	Concentration	Units	Method Detection Limit	Date/Time Analysis Performed
Ag - -TCL-HOU TCLP SILVER EPA SW-846: 7760, ATOMIC ABSORPTION	<0.01* *1	MG/L	0.01	09/21/92 1350
As - -TCI-HOU TCLP ARSENIC EPA SW-846: 6010, ICP	<0.2* *1	MG/L	0.2	09/24/92 853
BNA - - -HOU SEMIVOLATILE ORGANICS EPA SW-846: 3520,8270, LLE,GC/MS	ATTACHED *2,1	UG/L		Ext.: 09/18/92 Anal.: 09/23/92
Ba - -TCL-HOU TCLP BARIUM EPA SW-846: 6010, ICP	1.2* *1	MG/L	0.5	09/24/92 853
Cd - -TCL-HOU TCLP CADMIUM EPA SW-846: 6010, ICP	<0.010* *1	MG/L	0.010	09/24/92 853
Cr - -TCL-HOU TCLP CHROMIUM EPA SW-846: 6010, ICP	<0.05* *1	MG/L	0.05	09/24/92 853
Hg - -TCL-HOU TCLP MERCURY EPA SW-846: 7470, COLD VAPOR .	<0.001* *1	MG/L	0.001	09/22/92 1600
Pb - -TCL-HOU TCLP LEAD EPA SW-846: 6010, ICP	0.02 *1	MG/L	0.02	09/24/92 853

*1 *RESULT IS NOT SPIKE CORRECTED

*2 SEE ANALYTIKEM ID #A8972-3T

***** CONTINUED *****

AnalytiKEM-Houston

Analytical Report

10/13/92 11:12

EXXON	Field ID: MR-1/TCLP	Date Sampled: / /		
Proj. No.: 1009-001-150	Lab ID: 3T	Time Sampled:		
Lab No.: A8972	Matrix: TCLP_EXT	Date Received: 09/09/92		
(Test Code)	Concentration	Units	Method Detection Limit	Date/Time Analysis Performed
Parameter (Test Name) (Test Method)				
Se - -TCI-HOU TCLP SELENIUM EPA SW-846: 6010, ICP	<0.2* *1	MG/L	0.2	09/24/92 853
VOA - - -HOU VOLATILE ORGANIC ANALYSES EPA SW-846: 8240, GC/MS	ATTACHED *2,1	UG/L		Ext.: 09/17/92 Anal.: 09/17/92

*1 *RESULT IS NOT SPIKE CORRECTED

*2 SEE ANALYTIKEM ID #A8972-3T

ORGANICS ANALYSIS DATA SHEET

Laboratory Name: AnalytiKEM-Hou
Lab Sample ID: A8972-1T
Client Sample ID: DP-1-TCLP

Concentration: LOW
Sample Matrix: WATER
Percent Moisture: 100.0

Date Extracted: 09/17/92
Date Analyzed: 09/17/92
Dilution Factor: 1.0

TCLP VOLATILE COMPOUNDS

<u>CAS Number</u>		<u>ug/L</u>		<u>CAS Number</u>		<u>ug/L</u>
75-01-4	Vinyl Chloride	10	<	79-01-6	Trichloroethene	5 <
75-35-4	1,1-Dichloroethene	5	<	71-43-2	Benzene	5 <
67-66-3	Chloroform	5	<	127-18-4	Tetrachloroethene	5 <
107-06-2	1,2-Dichloroethane	5	<	108-90-7	Chlorobenzene	5 <
78-93-3	2-Butanone	10	<			
56-23-5	Carbon Tetrachloride	5	<			

The Lab ID for data on this page is A89721TV.

< - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

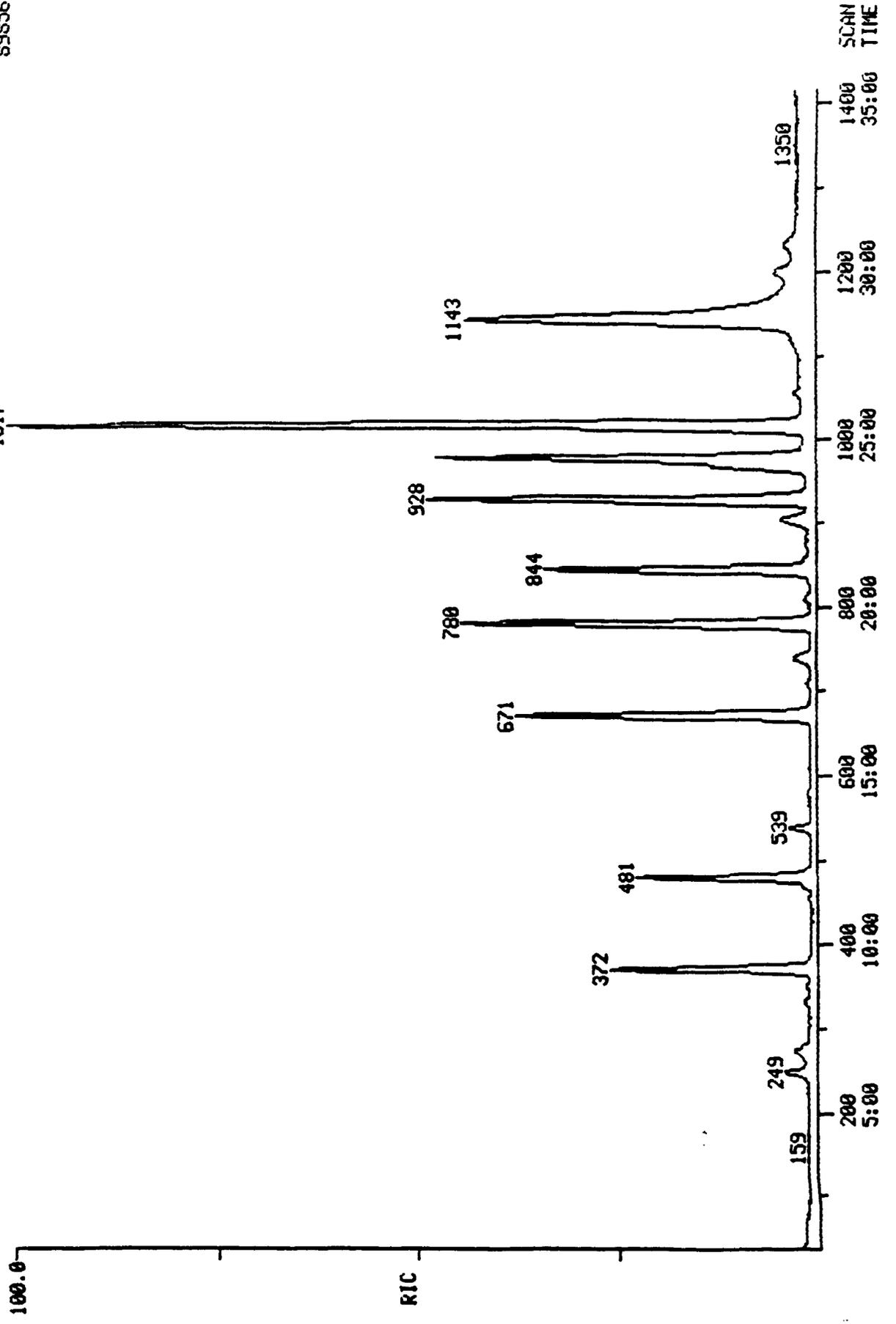
Data not spike corrected.

RIC
09/17/92 16:38:00
SAMPLE: DP-1/TCLP
CONDS.: I50C
RANGE: G 1.1420

DATA: A89721TU #1
CALI: A89721TU #3
SCANS 35 TO 1415

LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3
1017

89856.



000000

ORGANICS ANALYSIS DATA SHEET

Laboratory Name: AnalytikEM-Hau
 Lab Sample ID: A8972-2T
 Client Sample ID: MR-1-TCLP

Concentration: LOW
 Sample Matrix: WATER
 Percent Moisture: 100.0

Date Extracted: 09/17/92
 Date Analyzed: 09/17/92
 Dilution Factor: 1.0

TCLP VOLATILE COMPOUNDS

CAS Number		ug/L		CAS Number		ug/L
75-01-4	Vinyl Chloride	10	<	79-01-6	Trichloroethene	5 <
75-35-4	1,1-Dichloroethene	5	<	71-43-2	Benzene	5 <
67-66-3	Chloroform	5	<	127-18-4	Tetrachloroethene	5 <
107-06-2	1,2-Dichloroethane	5	<	108-90-7	Chlorobenzene	5 <
78-93-3	2-Butanone	10	<			
56-23-5	Carbon Tetrachloride	5	<			

The Lab ID for data on this page is A89722TV.

< - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

Data not spike corrected.

RIC

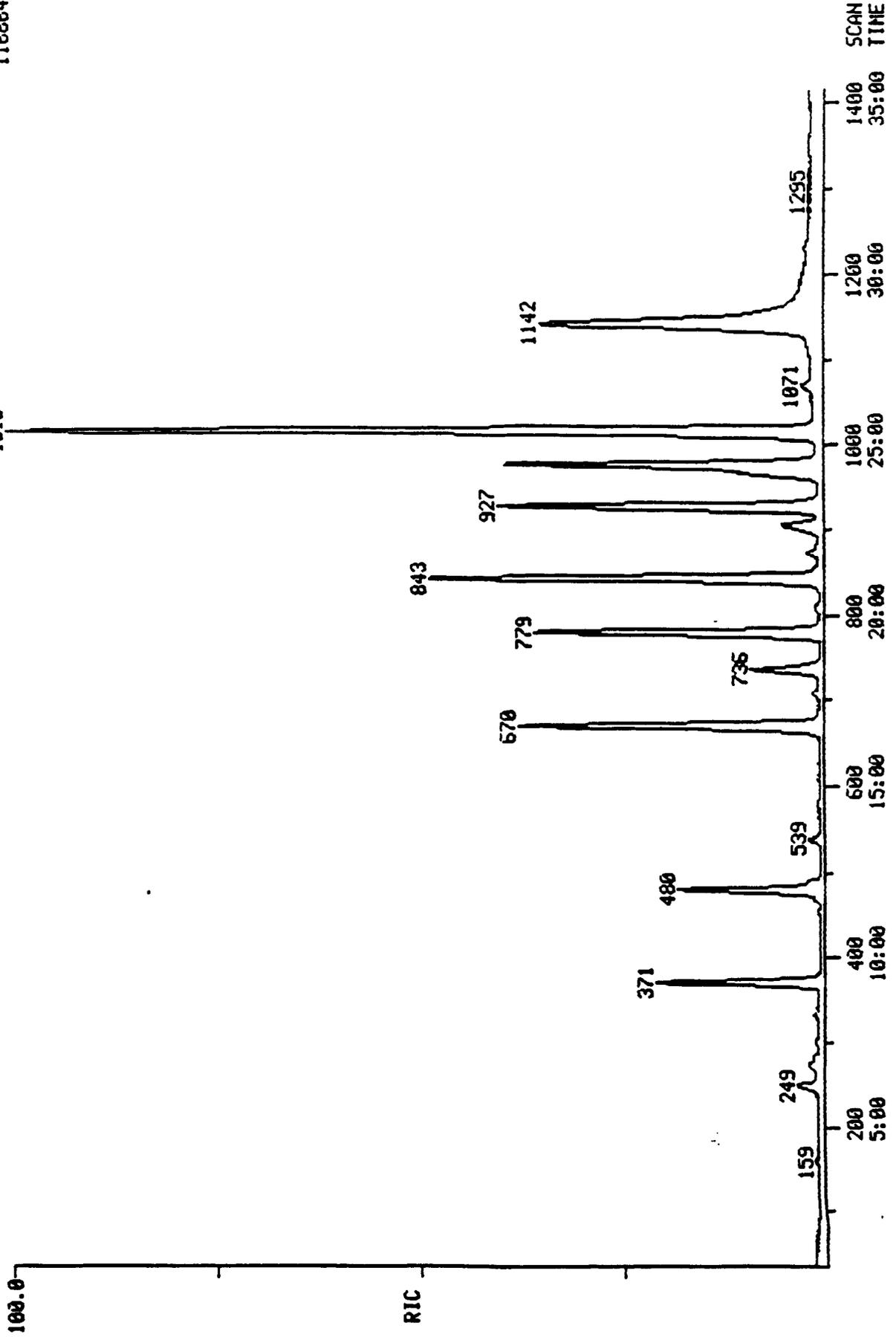
09/17/92 17:11:00
SAMPLE: HR-1/ICLP
CONDS.: 150C
RANGE: G 1.1420

LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

SCANS 35 TO 1415

DATA: A89722TU #1
CALI: A89722TU #3

116864.



ORGANICS ANALYSIS DATA SHEET

Laboratory Name: AnalytiKEM-Hou
 Lab Sample ID: A8972-3T
 Client Sample ID: DP-2-TCLP

Concentration: LOW
 Sample Matrix: WATER
 Percent Moisture: 100.0

Date Extracted: 09/17/92
 Date Analyzed: 09/17/92
 Dilution Factor: 1.0

TCLP VOLATILE COMPOUNDS

CAS Number		ug/L		CAS Number		ug/L
75-01-4	Vinyl Chloride	10	<	79-01-6	Trichloroethene	5
75-35-4	1,1-Dichloroethene	5	<	71-43-2	Benzene	5
67-66-3	Chloroform	5	<	127-18-4	Tetrachloroethene	5
107-06-2	1,2-Dichloroethane	5	<	108-90-7	Chlorobenzene	5
78-93-3	2-Butanone	10	<			
56-23-5	Carbon Tetrachloride	5	<			

The Lab ID for data on this page is A89723TV.

< - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

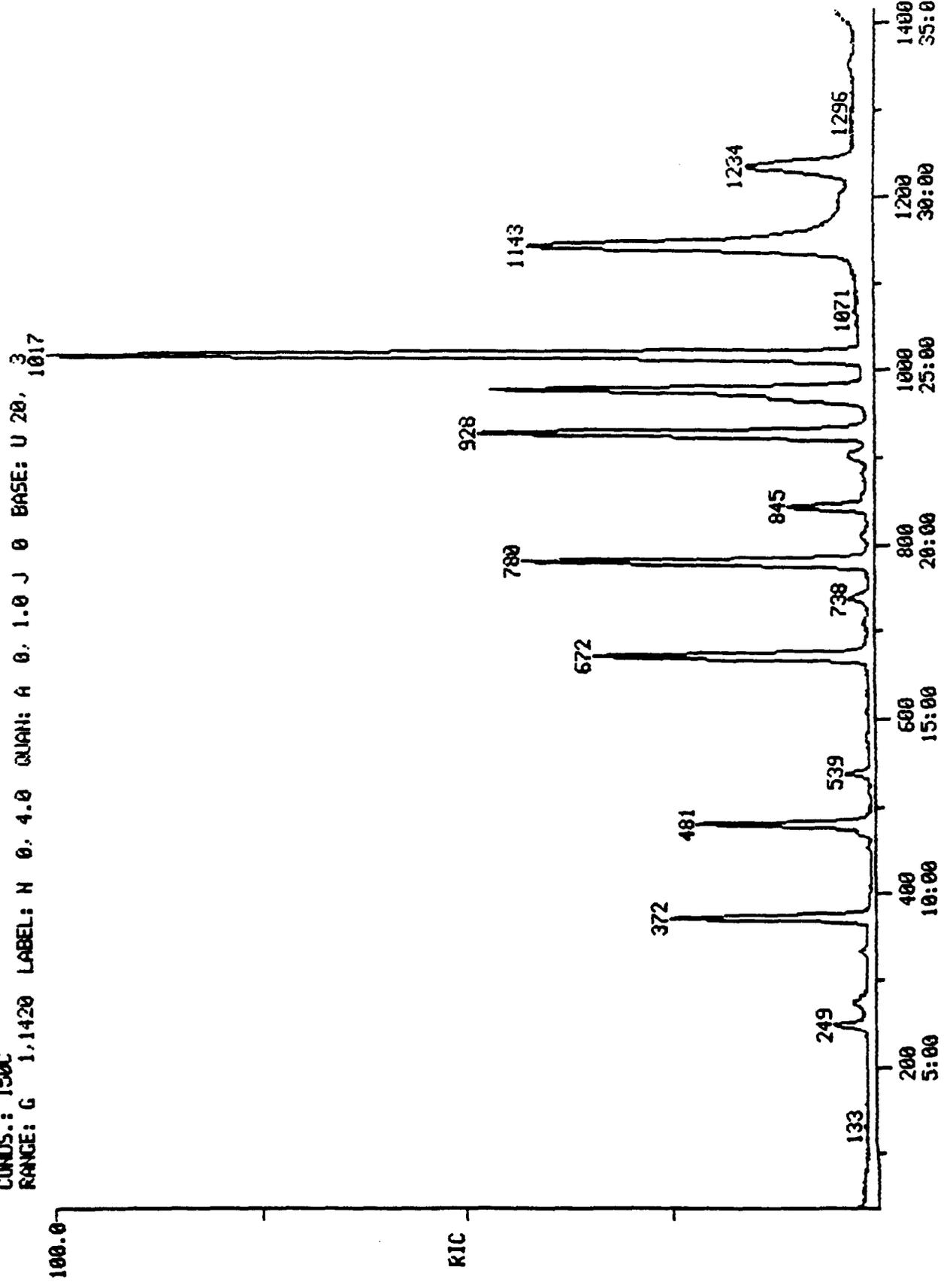
Data not spike corrected.

SCANS 35 TO 1415

DATA: A89723TV #1
CALI: A89723TV #3

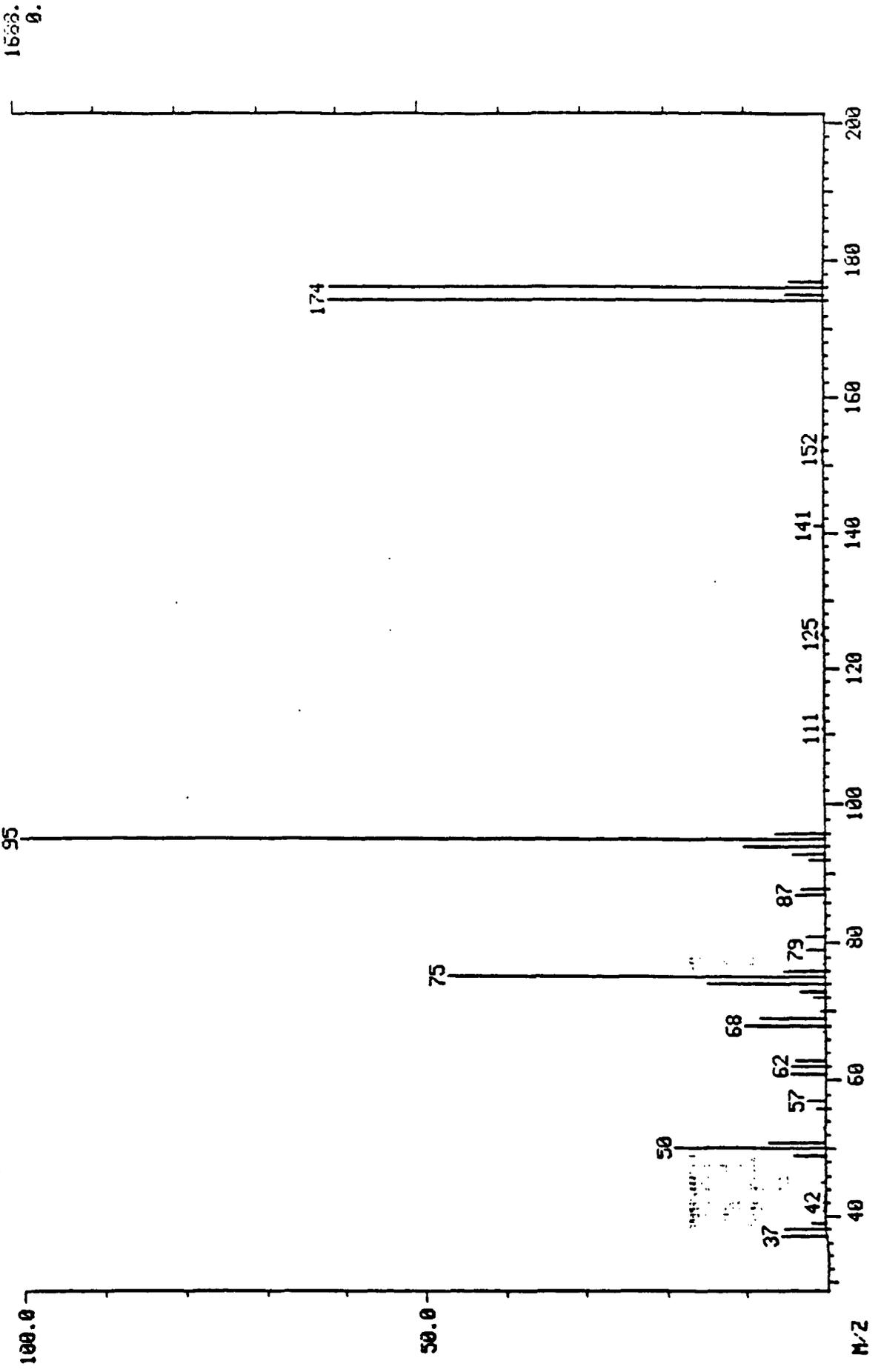
RIC
09/17/92 17:52:00
SAMPLE: DP-2/TCLP
CONDS.: 150C
RANGE: G 1.1420 LABEL: N 0. 4.0 QUAN: A 0. 1.0 J 0 BASE: U 20. 3

84992.



MASS SPECTRUM
09/17/92 12:05:00 + 7:00
SAMPLE: BFB CALIBRATION
CONDS.: 150C
TEMP: 225 DEG. C
#273 TO #287 AVERAGED - #367 TO #318 - #255 TO #260

DATA: BF091792C1 #260
CALI: BF091792C1 #3
BASE M/Z: 95
RIC: 7000.



Mass List
 09/17/92 12:05:00 + 7:00
 Sample: BFB CALIBRATION
 Conds.: 150C

Data: BF091792C1 # 280
 Cali: BF091792C1 # 3

Base m/z: 95
 RIC: 7000.

#273 to #287 averaged - #307 to #318 - #255 to #260

Mass	% RA	Inten.	Minima	Min Inten:	Maxima
36	0.00	0.			
177					
36?	S 0.12	2.			
37?	S 3.51	93.			
38?	S 5.09	86.			
39?	S 1.66	28.			
41?	S 0.18	3.			
42?	S 0.18	3.			
45?	S 0.59	10.			
49?	S 3.91	66.			
50?	S 18.78	317.			
51?	S 6.93	117.			
53?	S 0.18	3.			
56?	S 1.13	19.			
57?	S 2.13	36.			
60?	S 0.06	1.			
61?	S 4.03	68.			
62?	S 4.03	68.			
63?	S 3.50	59.			
67?	S 0.18	3.			
68?	S 10.01	169.			
69	S 8.12	137.			
70	S 0.65	11.			
72	S 1.36	23.			
73	S 3.14	53.			
74	S 14.57	246.			
75	S 47.10	795.			
76	S 4.86	82.			
77	S 0.24	4.			
79	S 2.31	39.			
81	S 2.07	35.			
84	S 0.12	2.			
86	S 0.18	3.			
87	S 3.67	62.			
88	S 2.67	45.			
92	S 2.01	34.			
93	S 3.97	67.			
94	S 9.83	166.			
95	S 100.00	1688.			
96	S 6.16	104.			
111	S 0.24	4.			
113	S 0.06	1.			
125	S 0.18	3.			
129	S 0.06	1.			
141	S 1.01	17.			
152	S 0.18	3.			
155	S 0.12	2.			
174	S 61.14	1032.			
175	S 4.80	81.			
176	S 60.66	1024.			
177	S 4.21	71.			

**CONTINUING CALIBRATION CHECK
VOLATILE HSL COMPOUNDS**

Case No: STAND Region: _____ Calibration Date: 09/17/92
 Contractor: AnalytiKEM-Hou Time: 12:27
 Contract No: _____ Laboratory ID: CCJ91792C1
 Instrument ID: I50C Initial Cali. Date: 09/15/92

Minimum RF for SPCC is 0.300 (1) Maximum %D for CCC is 25%

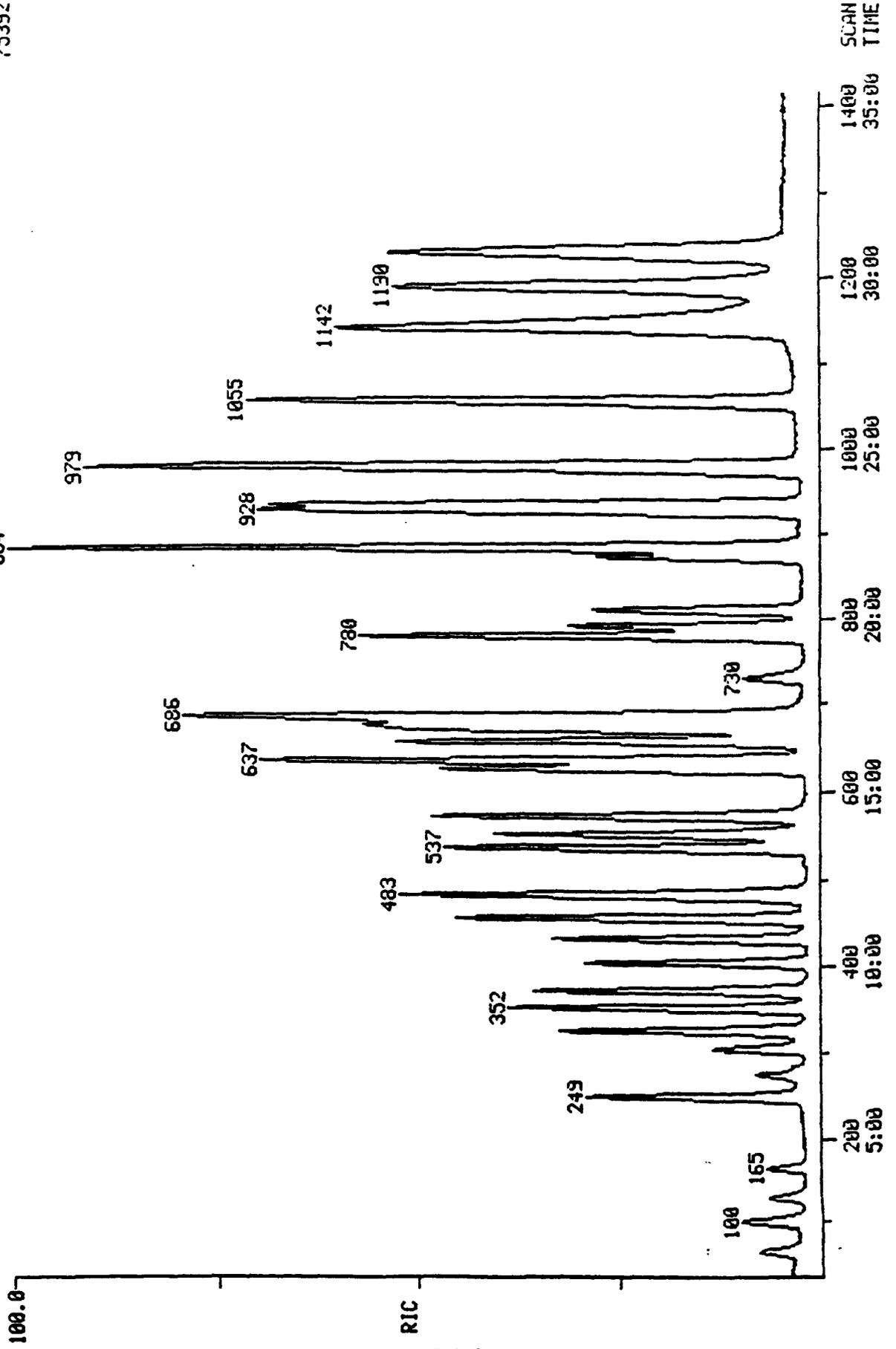
Compound	AVE RF	RF(50)	% D	CCC	SPCC
Chloromethane	0.985	0.770	21.8		* *
Bromomethane	0.988	0.840	15.0		
Vinyl Chloride	0.998	0.777	22.1	*	
Chloroethane	0.640	0.474	25.9		
Methylene Chloride	1.380	1.168	15.4		
Acetone	0.279	0.714	-155.9		
Carbon Disulfide	1.959	2.150	-9.7		
1,1-Dichloroethene	1.425	1.316	7.6	*	
1,1-Dichloroethane	3.633	3.118	14.2		* *
trans-1,2-Dichloroethene	1.663	1.447	13.0		
Chloroform	4.353	3.833	11.9	*	
1,2-Dichloroethane	3.140	2.821	10.2		
2-Butanone	0.026	0.057	-119.2		
1,1,1-Trichloroethane	0.694	0.671	3.3		
Carbon Tetrachloride	0.522	0.496	5.0		
Vinyl Acetate	0.090	0.091	-1.1		
Bromodichloromethane	0.717	0.706	1.5		
1,2-Dichloropropane	0.439	0.413	5.9	*	
cis-1,3-Dichloropropene	0.588	0.578	1.7		
Trichloroethene	0.394	0.377	4.3		
Dibromochloromethane	0.512	0.505	1.4		
1,1,2-Trichloroethane	0.335	0.319	4.8		
Benzene	0.934	0.906	3.0		
Trans-1,3-Dichloropropene	0.523	0.498	4.8		
Bromoform	0.348	0.333	4.3		* *
4-Methyl-2-Pentanone	0.469	0.548	-16.8		
2-Hexanone	0.332	0.572	-72.3		
Tetrachloroethene	0.376	0.363	3.5		
1,1,2,2-Tetrachloroethane	0.654	0.657	-0.5		* *
Toluene	0.785	0.744	5.2	*	
Chlorobenzene	0.974	0.897	7.9		* *
Ethylbenzene	0.542	0.525	3.1	*	
Styrene	0.921	1.046	-13.6		
Xylene (total)	0.581	0.651	-12.0		

- RF(50) - Response Factor from daily standard file at 50 ug/l
- AVE RF - Average Response Factor from initial calibration Form VI
- %D - - - Percent Difference
- CCC - - Calibration Check Compounds (*)
- SPCC - - System Performance Check Compounds (**)
- (1) - - Minimum RF for Bromoform is 0.250

Form VII

RIC
 09/17/92 12:27:00
 SAMPLE: CLP,CALIB,CALIB,,LOW,WATER,,VOA,EPA
 CONDOS.: I50C
 RANGE: G 1.1420 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3
 DATA: CC091792C1 #1
 CALI: CC091792C1 #3
 SCANS 35 TO 1415

75392.



000011

VOLATILE ORGANICS ANALYSIS DATA SHEET

Laboratory Name: AnalytiKEM-Hou Concentration: LOW Date Extracted: 09/17/92
 Lab Sample ID: MB091792C1 Sample Matrix: WATER Date Analyzed: 09/17/92
 Client Sample ID: MB091792C1 Percent Moisture: 100.0 Dilution Factor: 1.0

VOLATILE COMPOUNDS

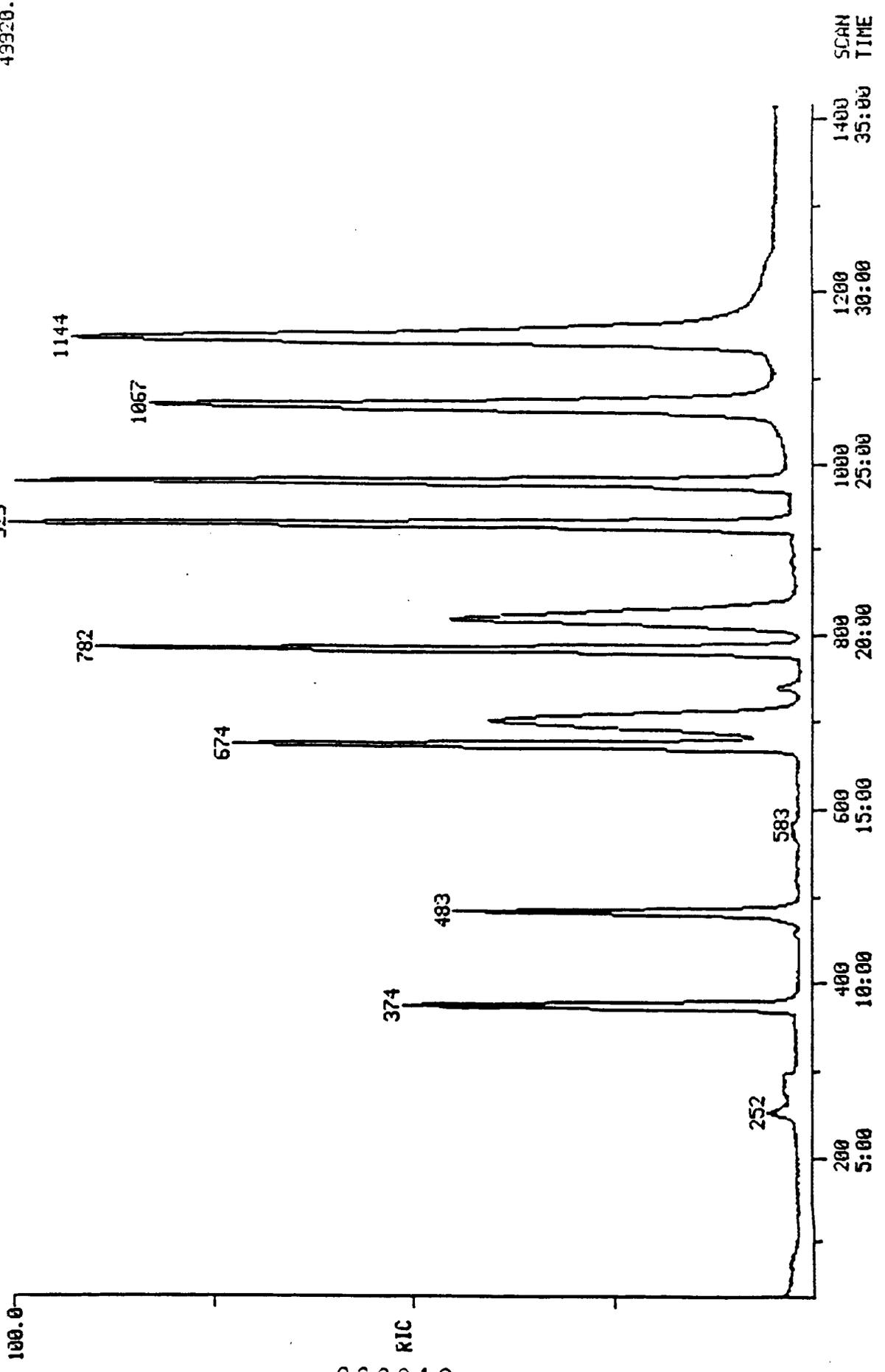
CAS Number		ug/L	CAS Number		ug/L
74-87-3	Chloromethane	10 <	78-87-5	1,2-Dichloropropane . . .	5 <
74-83-9	Bromomethane	10 <	10061-01-5	cis-1,3-Dichloropropene .	5 <
75-01-4	Vinyl Chloride	10 <	79-01-6	Trichloroethene	5 <
75-00-3	Chloroethane	10 <	124-48-1	Dibromochloromethane . . .	5 <
75-09-2	Methylene Chloride	6	79-00-5	1,1,2-Trichloroethane . . .	5 <
67-64-1	Acetone	5 =	71-43-2	Benzene	5 <
75-15-0	Carbon Disulfide	5 <	10061-02-6	Trans-1,3-Dichloropropene	5 <
75-35-4	1,1-Dichloroethene	5 <	110-75-8	2-Chloroethylvinyl ether .	10 <
75-34-3	1,1-Dichloroethane	5 <	75-25-2	Bromoform	5 <
156-60-5	trans-1,2-Dichloroethene .	5 <	108-10-1	4-Methyl-2-Pentanone . . .	10 <
67-66-3	Chloroform	5 <	591-78-6	2-Hexanone	10 <
107-06-2	1,2-Dichloroethane	5 <	127-18-4	Tetrachloroethene	5 <
78-93-3	2-Butanone	10 <	79-34-5	1,1,2,2-Tetrachloroethane	5 <
71-55-6	1,1,1-Trichloroethane . . .	5 <	108-88-3	Toluene	5 <
56-23-5	Carbon Tetrachloride	5 <	108-90-7	Chlorobenzene	5 <
108-05-4	Vinyl Acetate	5 <	100-41-4	Ethylbenzene	5 <
75-27-4	Bromodichloromethane	5 <	100-42-5	Styrene	5 <
			1330-20-7	Xylene (total)	5 <

The Lab ID for data on this page is MB091792C1.

- = - Reported value is less than the detection limit.
- < - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.

RIC
09/17/92 14:38:00
SAMPLE: CLP,BLANK,BLANK,,LOW,WATER,,VOA,EPA
CONDS.: 150C
RANGE: G 1.1420 LABEL: N 0. 4.0 QUAN: A 0. 1.0 J 0 BASE: U 20, 3
SCANS 35 TO 1415

49920.



RIC

SCAN TIME
200 5:00
400 10:00
600 15:00
800 20:00
1000 25:00
1200 30:00
1400 35:00

ORGANICS ANALYSIS DATA SHEET

Laboratory Name: AnalytiKEM-Hou
 Lab Sample ID: MB5249Z
 Client Sample ID: TCLP BLANK

Concentration: LOW
 Sample Matrix: WATER
 Percent Moisture: 100.0

Date Extracted: 09/17/92
 Date Analyzed: 09/17/92
 Dilution Factor: 1.0

TCLP VOLATILE COMPOUNDS

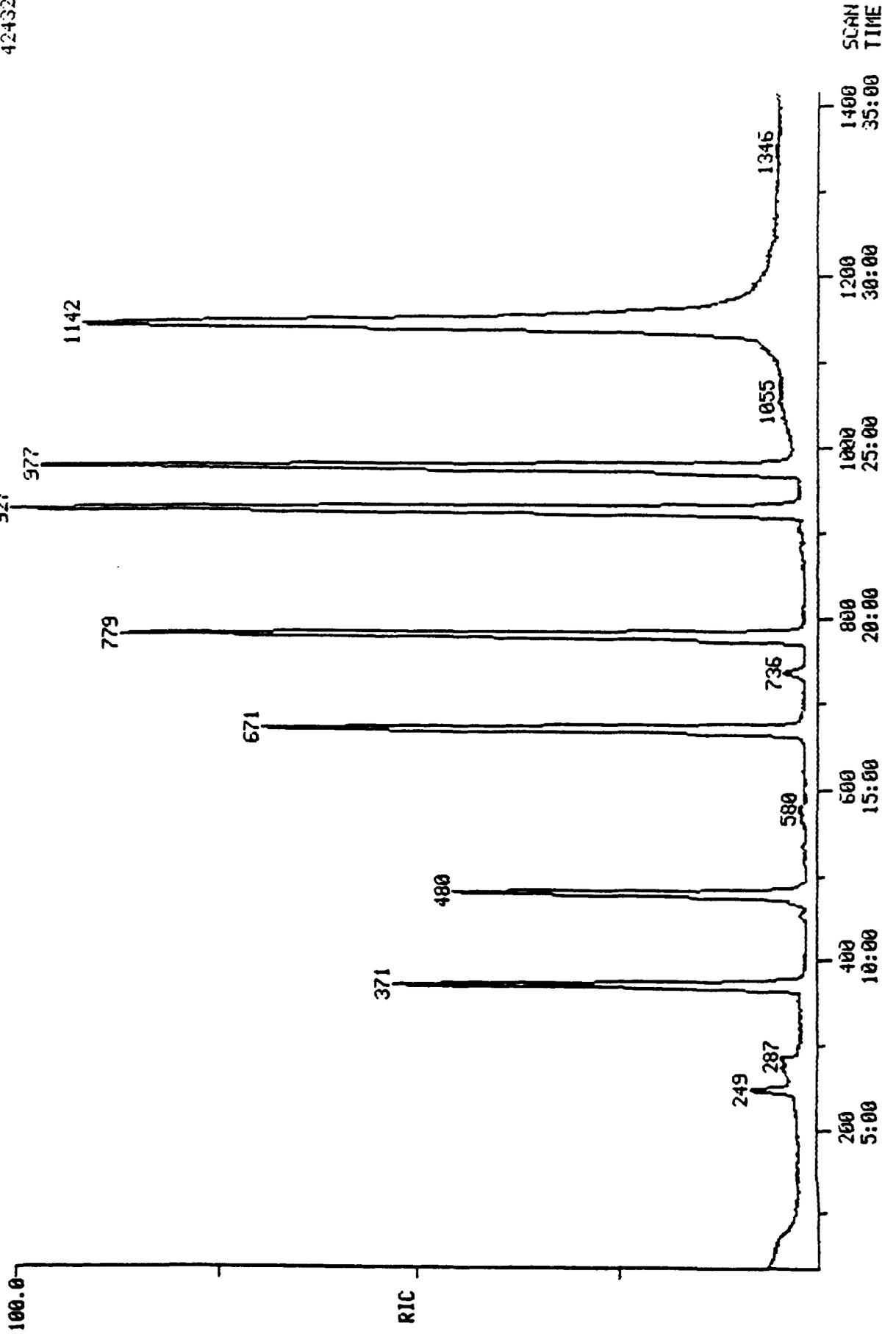
<u>CAS Number</u>		<u>ug/L</u>	<u>CAS Number</u>		<u>ug/L</u>
75-01-4	Vinyl Chloride	10 <	79-01-6	Trichloroethene	5 <
75-35-4	1,1-Dichloroethene	5 <	71-43-2	Benzene	5 <
67-66-3	Chloroform	5 <	127-18-4	Tetrachloroethene	5 <
107-06-2	1,2-Dichloroethane	5 <	108-90-7	Chlorobenzene	5 <
78-93-3	2-Butanone	10 <			
56-23-5	Carbon Tetrachloride	5 <			

The Lab ID for data on this page is MB5249Z.
 < - Compound analyzed for but not detected. The reported value is the minimum attainable detection limit for the sample.
 Data not spike corrected.

DATA: MB5249Z #1
CALI: MB5249Z #3

RIC
09/17/92 15:43:00
SAMPLE: TCLP BLANK
CONDS.: 150C
RANGE: G 1.1420 LABEL: N 0.4.0 QUAN: A 0.1.0 J 0 BASE: U.20. 3

42432.



2A
 WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: ANALYTIKEM-HOU Contract: _____

Lab Code: HOUSTON Case No.: A8972 SAS No.: _____ SDG No.: A8972

	EPA SAMPLE NO.	SMC1 (TOL) #	SMC2 (BFB) #	SMC3 (DCE) #	OTHER	TOT OUT
01	DP-1-TCLP	101	101	112	109	0
02	DP-1-TCLP-MS	100	103	112	103	0
03	DP-2-TCLP	102	100	110	106	0
04	MR-1-TCLP	96	97	113	109	0
05	TCLP BLANK	102	98	109	109	0
06	MB091792C1	100	98	111	111	0

QC LIMITS

SMC1 (TOL) = Toluene-d8 (88-110)
 SMC2 (BFB) = Bromofluorobenzene (86-115)
 SMC3 (DCE) = 1,2-Dichloroethane-d4 (76-114)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

ORGANICS ANALYSIS DATA SHEET

Laboratory Name: AnalytiKEM-Hou
 Lab Sample ID: A8972-1TMS
 Client Sample ID: DP-1-TCLP-MS

Concentration: LOW
 Sample Matrix: WATER
 Percent Moisture: 100.0

Date Extracted: 09/17/92
 Date Analyzed: 09/17/92
 Dilution Factor: 1.0

TCLP VOLATILE COMPOUNDS

CAS Number		ug/L	%R	CAS Number		ug/L	%R
75-01-4	Vinyl Chloride	43	86	79-01-6	Trichloroethene	49	98
75-35-4	1,1-Dichloroethene	43	86	71-43-2	Benzene	49	93
67-66-3	Chloroform	47	94	127-18-4	Tetrachloroethene	54	103
107-06-2	1,2-Dichloroethane	48	96	108-90-7	Chlorobenzene	50	100
78-93-3	2-Butanone	57	114				APB
56-23-5	Carbon Tetrachloride	54	103				

The Lab ID for data on this page is A89721TVMS.
 Data not spike corrected.

**INITIAL CALIBRATION DATA
VOLATILE ESL COMPOUNDS**

Case No: STAND Region: _____ Instrument ID: 150C
 Contractor: AnalytiKEM-Hou Calibration Date: 09/15/92
 Contract No: _____

Min AVE RF for SPCC is 0.300 (1) Max %RSD for CCC is 30%

Laboratory ID	IC0915020C1		IC0915100C1		IC0915200C1		AVE RF	% RSD	CCC*
	CC091592C1		IC0915150C1						
Compound	RF(20)	RF(50)	RF(100)	RF(150)	RF(200)				SPCC**
Chloromethane	1.281	1.110	0.718	0.832	0.983	0.985	22.6	*	*
Bromomethane	1.232	1.036	1.054	0.835	0.781	0.988	18.4		
Vinyl Chloride	1.243	0.985	0.953	0.912	0.895	0.998	14.2	*	
Chloroethane	0.766	0.636	0.633	0.572	0.593	0.640	11.8		
Methylene Chloride	1.676	1.292	1.333	1.308	1.291	1.380	12.1		
Acetone	0.470	0.531	0.140	0.136	0.120	0.279	72.7		
Carbon Disulfide	1.344	1.164	2.426	2.579	2.284	1.959	33.5		
1,1-Dichloroethene	1.717	1.420	1.363	1.365	1.259	1.425	12.2	*	
1,1-Dichloroethane	4.142	3.466	3.670	3.519	3.370	3.633	8.4	*	*
trans-1,2-Dichloroethene	2.030	1.636	1.649	1.544	1.458	1.663	13.2		
Chloroform	5.051	4.191	4.463	4.166	3.895	4.353	10.1	*	
1,2-Dichloroethane	3.589	3.025	3.321	2.945	2.821	3.140	9.9		
2-Butanone	0.041	0.040	0.019	0.017	0.015	0.026	49.1		
1,1,1-Trichloroethane	0.781	0.761	0.670	0.660	0.598	0.694	10.9		
Carbon Tetrachloride	0.563	0.543	0.504	0.519	0.483	0.522	6.0		
Vinyl Acetate	0.071	0.041	0.129	0.120	0.087	0.090	40.2		
Bromodichloromethane	0.767	0.767	0.723	0.691	0.639	0.717	7.6		
1,2-Dichloropropane	0.488	0.433	0.454	0.417	0.403	0.439	7.6	*	
cis-1,3-Dichloropropene	0.675	0.619	0.599	0.540	0.508	0.588	11.2		
Trichloroethene	0.467	0.392	0.387	0.366	0.357	0.394	11.0		
Dibromochloromethane	0.518	0.496	0.557	0.502	0.489	0.512	5.3		
1,1,2-Trichloroethane	0.389	0.311	0.363	0.313	0.300	0.335	11.5		
Benzene	1.101	0.982	0.930	0.858	0.798	0.934	12.5		
Trans-1,3-Dichloropropene	0.612	0.522	0.532	0.487	0.462	0.523	10.9		
2-Chloroethylvinyl ether	0.259	0.062	0.276	0.252	0.246	0.219	40.4		
Bromoform	0.313	0.322	0.379	0.364	0.362	0.348	8.3	*	*
4-Methyl-2-Pentanone	0.437	0.351	0.521	0.526	0.511	0.469	16.0		
2-Hexanone	0.376	0.363	0.314	0.313	0.293	0.332	10.8		
Tetrachloroethene	0.466	0.392	0.340	0.353	0.330	0.376	14.7		
1,1,2,2-Tetrachloroethane	0.709	0.647	0.696	0.639	0.577	0.654	8.0	*	*
Toluene	0.907	0.831	0.760	0.752	0.677	0.785	11.1	*	
Chlorobenzene	1.054	0.981	0.992	0.952	0.893	0.974	6.0	*	*
Ethylbenzene	0.634	0.564	0.535	0.511	0.467	0.542	11.5	*	
Styrene	0.856	0.746	1.044	1.037	0.922	0.921	13.7		
Xylene (total)	0.562	0.489	0.647	0.639	0.569	0.581	11.1		
Toluene-d8	1.391	1.375	1.354	1.386	1.353	1.372	1.3		
Bromofluorobenzene	0.947	0.957	1.014	1.022	1.003	0.989	3.5		
1,2-Dichloroethane-d4	2.958	2.707	3.155	2.943	3.156	2.984	6.2		
Benzene-d6	1.043	0.998	0.979	0.941	0.937	0.980	4.5		

Response Factor (number is the amount of ug/L)
 AVE RF - Average Response Factor
 %RSD - - Percent Relative Standard Deviation
 CCC - - Calibration Check Compounds (*)
 SPCC - - System Performance Check Compounds (**)
 (1) - - Minimum AVE RF for Bromoform is 0.250

Form VI

000010

Order # 92-09-11d
09/16/92 13:54
Client: ANALTIKEM

TEST RESULTS BY SAMPLE

Sample: 01A A8972-1
Job: RE REACTIVITY

Collected: 09/03/92

<u>Test Name</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Detection Date</u>		
				<u>Limit</u>	<u>Started</u>	<u>Analyst</u>
REACTIVITY CYANIDE	SW-846 7 3.3	<0.40	ppm	0.40	09/14/92	JA
REACTIVITY SULFIDE	SW-846 7 3.4	245	ppm	20	09/14/92	SJ

Sample: 02A A8972-2
Job: RE REACTIVITY

Collected: 09/03/92

<u>Test Name</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Detection Date</u>		
				<u>Limit</u>	<u>Started</u>	<u>Analyst</u>
REACTIVITY CYANIDE	SW-846 7 3.3	<0.40	ppm	0.40	09/14/92	JA
REACTIVITY SULFIDE	SW-846 7 3.4	146	ppm	20	09/14/92	SJ

Sample: 03A A8972-3
Job: RE REACTIVITY

Collected: 09/03/92

<u>Test Name</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Detection Date</u>		
				<u>Limit</u>	<u>Started</u>	<u>Analyst</u>
REACTIVITY CYANIDE	SW-846 7 3.3	<0.40	ppm	0.40	09/14/92	JA
REACTIVITY SULFIDE	SW-846 7 3.4	241	ppm	20	09/14/92	SJ

SOUTHWESTERN LABORATORIES QUALITY CONTROL LOG

NDL

METHOD OF ANALYSIS 376.1 PARAMETER Substrate ANALYST Substrate DATE 7/1/70 TIME 7:00

CALIBRATION STANDARDS/BLANK	ABSORBANCE	STANDARDS	THEORETICAL CONCENTRATION	MEASURED CONCENTRATION	% RECOVERY
BLANK					
700		449.574		411.9	73.9%

L.R. () =

LAB NUMBERS/SAMPLE ID NUMBERS IN THIS RUN:

92-09-131-1A, 92-09-108-1A-3A, 92-09-132-1A, 92-09-131-1A,
 92-09-159-1A-117, 92-09-099-1B

QUALITY CONTROL DUPLICATES AND SPIKES

PERCENT RECOVERY CALCULATION: SPIKED SAMPLE / SAMPLE + THEORETICAL * 100

LAB # - SAMPLE ID #	FIRST CONC.	DIL. FACTOR	REPL. CONC.	DIL. FACTOR	SPIKED SAMPLE			% RECOVERY
					RANGE	ZPRECISION	CONC.	
92-09-159-2A	153		152		1	0		

SOUTHWESTERN LABORATORIES QUALITY CONTROL LOG

1111

SW 89C
 R&KN
 CN-W MATRIX 120 ANALYST JAL DATE 17 SEP 08 TIME 0800

METHOD OF ANALYSIS EPA 3353 PARAMETER ABSORBANCE

CALIBRATION STANDARDS/BLANK THEORETICAL CONCENTRATION MEASURED CONCENTRATION % RECOVERY

STANDARDS	THEORETICAL CONCENTRATION	MEASURED CONCENTRATION	% RECOVERY
STD 0.02	0.02	0.02	101
0.05	0.05	0.05	102
0.10	0.10	0.10	
0.50	0.50	0.50	
L.R. (0) = .99975			

LAB NUMBERS/SAMPLE ID NUMBERS IN THIS RUN:

R&KN 82-09-099-1 ; 92-09-118-(2,3) ; 92-09-137-1 ; 92-09-133-1
 92-09-159-(4,3,4) CN-W 92-09-096-(3,4)

QUALITY CONTROL DUPLICATES AND SPIKES

PERCENT RECOVERY CALCULATION: SPIKED SAMPLE / SAMPLE * THEORETICAL * 100

LAB # - SAMPLE ID #	FIRST CONC.	DIL. FACTOR	REPL. CONC.	DIL. FACTOR	RANGE	% PRECISION	SPIKED SAMPLE CONC.	SAMPLE CONC.	THEO. CONC.	% RECOVERY
92-09-159-2	<0.02	12.5 ml / 25 ml	<0.02	12.5 ml / 25 ml	0	—	250	0	250	104
92-09-159-4	<0.02	12.5 ml / 25 ml	<0.02	12.5 ml / 25 ml	0	—	250	0	250	105

ANALYTIKEM - HOUSTON

SILVER QUALITY CONTROL LAB

EPA SW-846:7760, AA

DATE/TIME OF ANALYSIS: 21 Sep 92 / 1350

PAGE 1 OF 2

LAB NUMBER-SAMPLE	COMMENTS	CHECK STANDARDS	CONCENTRATION FOUND/TRUE
A9007(12)	Method blank for ^{IT} A9027 was < 2 mg/kg.	SAMPLE BLANK	
A8931-(1-5)		METHOD BLANK	
A9027-(1-6)		PEA2 RE STD	1.012 / 1.0
A9007A-6T		INTERNAL STD.	
A8972-(1T-3T)			
A9021-1			

LAB NUMBER-SAMPLE	PRECISION			MS DUPLICATE		ACCURACY			
	MS % REC.	MSD % REC.	% RPD	SPIKE AMOUNT	MS RESULT	% REC.	MSD RESULT	% REC.	
A9007-mB	107	-	-	0.1	0.107	107	-	-	
A9007-2	112	106	5.5	0.1	0.112	112	0.106	106	
(S) A8931-mB	115	-	-	↓	0.115	115	-	-	
↓ A8931-1	107	90	17.2	↓	0.107	107	0.090	90	
↓ A9027-mB	86	-	-	0.2	0.172	86	-	-	
↓ A9027-6	88	90	2.2	↓	0.176	88	0.179	90	
A9007A-mB	88	-	-	0.1	0.088	88	-	-	
A9007A-Extract All	82	↓	↓		0.082	82	↓	↓	
A9007A-6T	72	↓	↓		0.072	72	↓	↓	
A8972-mB	72	↓	↓		0.072	72	↓	↓	
-Extract All	84	↓	↓		0.084	84	↓	↓	
-1T	85	↓	↓		0.085	85	↓	↓	
-2T	87	↓	↓		0.087	87	↓	↓	

CONTROL LIMITS: AQUEOUS, 9-12 %RPD, 78-116 %REC.
 SOLIDS, SAME %RPD, SAME %REC.

1 OUT OF 3 DUPLICATES WERE OUTSIDE OF QC LIMITS

0 OUT OF 16 SPIKE RECOVERIES WERE OUTSIDE OF QC LIMITS

ANALYST: Eric McAdams/PWL Q/ACC: Jam - [Signature]

ANALYTIKEM - HOUSTON

SILVER QUALITY CONTROL LOG

EPA SW-846:7760, AA

DATE/TIME OF ANALYSIS: 21 Sep 92 / 1350

PAGE 2 OF 2

LAB NUMBER-SAMPLE	COMMENTS	CHECK STANDARDS	CONCENTRATION FOUND/TRUE
		SAMPLE BLANK	
		METHOD BLANK	
		P.E. STD.	
		INTERNAL STD.	

LAB NUMBER-SAMPLE	PRECISION			SPIKE AMOUNT	ACCURACY			
	MS % REC.	MSD % REC.	MS DUPLICATE % RPD		MS RESULT	% REC.	MSD RESULT	% REC.
A8972-3T	86	-	-	0.1	0.086	86	-	-
A9021-mB	88	↓	↓	↓	0.088	88	↓	↓
A9021-1	87	91	4.5	↓	0.087	87	0.091	91

CONTROL LIMITS: AQUEOUS, 9-12 %RPD, 78-116 %REC.
 SOLIDS, SAME %RPD, SAME %REC.

0 OUT OF 1 DUPLICATES WERE OUTSIDE OF QC LIMITS

0 OUT OF 4 SPIKE RECOVERIES WERE OUTSIDE OF QC LIMITS

ANALYST: [Signature]

QA/QC: [Signature]

**ANALYTICAL - HOUSTON
ICAP QUALITY CONTROL LOG**

DATE/TIME: 24 SEPT 92 / 0853		EPA SW-846:6010			PAGE 1 OF 3	
LAB ID	A8972 - (1T-3T)	A9021 - 1	A9041 - (1-10) DS	A9041 - (1-10) TTE	A9062 - 1, 3, 5, 6	
NOS						

PARAMETER	As	Se	Zn	Pb	Cd	Ni	Cr	Be	Cu	Ba
PE	ERA-3	1.08	9.08	0.994	0.985	1.01	0.994	0.994	1.00	1.00
STDS		1.00	10.0	1.00	1.00	1.00	1.00	1.00	1.00	1.00

A8972-MS										
MS/MSD %REC	106	98		108	107		100			104
%RPD										
SPIKE AMT.	2.0	2.0		1.0	0.1		0.2			2.0
A8972-EB										
MS/MSD %REC	102	99		97	99		97			116
%RPD										
SPIKE AMT.	2.0	2.0		1.0	0.1		0.2			2.0
A8972-1T										
MS/MSD %REC	96	97		76	100		93			78
%RPD										
SPIKE AMT.	2.0	2.0		1.0	0.1		0.2			2.0
A8972-2T										
MS/MSD %REC	111	96		77	80		78			80
%RPD										
SPIKE AMT.	2.0	2.0		1.0	0.1		0.2			2.0

CONTROL LIMITS:

AQUEOUS	%RPD.								
	%REC.								
SOLIDS	%RPD.								
	%REC.								

$\frac{-0-}{0}$ OUT OF $\frac{-0-}{29}$ DUPLICATES WERE OUTSIDE OF QC LIMITS
 $\frac{-0-}{0}$ OUT OF $\frac{-0-}{29}$ SPIKE RECOVERIES WERE OUTSIDE OF QC LIMITS

COMMENTS: _____

ANALYST: James Mathis / JAM

QA/QC: LeDell McKelvey / LM

SEP 24 1992

ANALYTICAL - HOUSTON
ICAP QUALITY CONTROL LOG

DATE/TIME: 24 SEPT 92 / 0853

EPA SW-846:6010

PAGE 2 OF 3

	As	Se	zn	Pb	cd	Ni	Cr	Be	Cu	Ba
48972-3T										
MS/MSD %REC	112	112		82	78		70			62
%RPD										
SPIKE AMT.	2.0	2.0		1.0	0.1		0.2			2.0
A9021-MB										
MS/MSD %REC			88	88	90	88	86		99	
%RPD										
SPIKE AMT.			1.0	1.0	0.1	1.0	0.2		0.2	
A9021-1										
MS/MSD %REC			88 / 86	93 / 92	88 / 86	91 / 90	88 / 89		92 / 91	
%RPD			2.30	1.08	2.30	1.10	1.13		1.09	
SPIKE AMT.			1.0	1.0	0.1	1.0	0.2		0.2	
A9041-MB										
MS/MSD %REC			93	93	92	94	91		104	94
%RPD										
SPIKE AMT.			1.0	1.0	0.1	1.0	0.2		0.2	2.0
A9041-3										
MS/MSD %REC			77 / 88	79 / 83	65 / 72	84 / 88	84 / 89		* / *	85 / 85
%RPD			13.33	4.94	10.22	4.65	5.78		2.43	0
SPIKE AMT.			1.0	1.0	0.1	1.0	0.2		0.2	2.0
A9041-MB										
MS/MSD %REC			89	91	87	88	120		104	94
%RPD										
SPIKE AMT.			1.0	1.0	0.1	1.0	0.2		0.2	2.0

CONTROL LIMITS:

AQUEOUS	%RPD									
	%REC.									
SOLIDS	%RPD									
	%REC.									

0 OUT OF 13 DUPLICATES WERE OUTSIDE OF QC LIMITS
2 OUT OF 52 SPIKE RECOVERIES WERE OUTSIDE OF QC LIMITS

COMMENTS:

ANALYST: James Mathis / SM QA/QC: LeOR McKeown TM

ANALYTICAL - HOUSTON
 CAP QUALITY CONTROL LOG

DATE/TIME: 24 SEPT 92/0853

EPA SW-346:6010

PAGE 3 OF 3

	Zn	Pb	Cd	Ni	Cr	Be	Cu	Ba
A9041-10	84	88	87	89	*		92	81
MS/MSD %REC TOTAL	77	84	95	88	*		92	82
%RPD	8.70	4.65	8.79	1.13	0.66		0	1.23
SPIKE AMT.	1.0	1.0	0.1	1.0	0.2		0.2	2.0
A9062-MB								
MS/MSD %REC		86			88		82	
%RPD								
SPIKE AMT.		1.0			0.2		0.2	
A9062-1								
MS/MSD %REC		81			66		72	
		81			71		74	
%RPD		0			7.30		2.74	
SPIKE AMT.		1.0			0.2		0.2	
MS/MSD %REC								
%RPD								
SPIKE AMT.								
MS/MSD %REC								
%RPD								
SPIKE AMT.								
MS/MSD %REC								
%RPD								
SPIKE AMT.								

CONTROL LIMITS:

AQUEOUS	%RPD								
	%REC.								
SOLIDS	%RPD								
	%REC.								

0 OUT OF 10 - DUPLICATES WERE OUTSIDE OF QC LIMITS
2 OUT OF 23 SPIKE RECOVERIES WERE OUTSIDE OF QC LIMITS

COMMENTS: * spike lost to high analyte concentrations

ANALYST: James Miller / SW

QA/QC: Ted McKelvey / TM

ANALYTIKEM - HOUSTON
MERCURY QUALITY CONTROL LOG
 EPA SW-846:7470, 7471 AA

DATE/TIME OF ANALYSIS: 9/22/92 / 16:00 PAGE 1 OF 1

LAB NUMBER-SAMPLE	COMMENTS	CHECK STANDARDS	CONCENTRATION FOUND/TRUE
A8972-1T		SAMPLE BLANK	—
A9007A-6T		METHOD BLANK	—
A9027-1-6		EPA 1085-1 P.E. STD.	0.0105 / 0.010
A9003-1		CVS INTERNAL STD.	0.0075 / 0.0075

LAB NUMBER-SAMPLE	PRECISION			SPIKE AMOUNT	ACCURACY			
	MS % REC.	MSD % REC.	% RPD		MS RESULT	% REC.	MSD RESULT	% REC.
A8972-extract blk	106	—	—	0.005	0.0053	106	—	—
A8972-1T	98	—	—	↓	0.0049	98	—	—
A8972-2T	102	—	—		0.0051	102	—	—
A8972-3T	98	—	—		0.0049	98	—	—
A9007A-extract blk	98	—	—		0.0079	98	—	—
A9007A-6T	100	—	—		0.0050	100	—	—
S A9027-4	98	98	0		0.0049	98	0.0049	98
A9003-1	90	90	0		0.0045	90	0.0045	90
METHOD BLANK	102	—	—	0.0051	102	—	—	

CONTROL LIMITS: AQUEOUS, 11-15 %RPD, 81-123 %REC
 SOLIDS, SAME %RPD, SAME %REC

0 OUT OF 2 DUPLICATES WERE OUTSIDE OF QC LIMITS
0 OUT OF 10 SPIKE RECOVERIES WERE OUTSIDE OF QC LIMITS

ANALYST: Sammy Loure / 10/92 QA/QC: John R. McHenry / TM

ANALYTICAL KEM LABORATORIES HOUSTON
 QUALITY CONTROL LOG- MATRIX SPIKE RECOVERY AND PRECISION
 SW-846: METHOD 8 48972
 MATRIX: SOIL SAMPLE: 48972-1

COMPOU	SPIKE	SAMPLE	MS	MSD			QC LIMITS		
	ADDED		RESULT	REC%	RESULT	REC%	RPD	RPD	REC%
DIESEL	250	34	299	106	446	165	39	20.00	20-150
<i>Nanda Metz</i>		<i>9/30/92</i>		<i>Brenda R. Saville</i>			<i>9/30/92</i>		
ANALYST		DATE		QA/QC APPROVAL			DATE		

ANALYTIKEM LABORATORIES
QUALITY CONTROL LOG-FORTIFIED BLANK AND METHOD BLANK
TPH ANALYSIS
LAB NO. A8972

BLANK EXTRACTION DATE: 9/15/92

NO TPH DETECTED AT STATED
METHOD DETECTION LIMIT MB5243LS

FORTIFIED METHOD BLANK FB5244LS

AMOUNT(MG/L) ^{Kg}	AMOUNT(MG/L) ^{Kg}	PERCENT
SPIKED	RECOVERED	RECOVERY

250	290	116
-----	-----	-----

COMMENTS:

Brenda P. Davis 9/20/92
ANALYST SIGNATURE DATE

Brenda P. Davis 9/29/92
QAQC COORDINATOR DATE

AnalytiKEM-Houston

Billing Summary

10/02/92 14:22

EXXON				
Project No.: 1009-001-150		Lab Number: A8972		
Test Code	Description	Number	Cost	Total
1. Ag - -TCL-HOU	TCLP SILVER	3	15.62	46.86
2. As - -TCI-HOU	TCLP ARSENIC	3	15.62	46.86
3. BNA - - -HOU	SEMIVOLATILE ORGANICS	3	450.00	1350.00
4. Ba - -TCL-HOU	TCLP BARIUM	3	15.62	46.86
5. CORR -S- -HOU	CORROSIVITY ON SOLID	3	65.00	195.00
	No Charge-Unable to Analyze	3	-65.00	-195.00
6. Cd - -TCL-HOU	TCLP CADMIUM	3	15.62	46.86
7. Cr - -TCL-HOU	TCLP CHROMIUM	3	15.63	46.89
8. FP -S- -HOU	IGNITABILITY ON SOLID	3	35.00	105.00
9. H2S -S-REA-SWL	HYDROGEN SULFIDE, REACTIVE/SLD	3	35.00	105.00
10. HCN -S-REA-SWL	HYDROCYANIC ACID, REACTIVE/SLD	3	35.00	105.00
11. Hg - -TCL-HOU	TCLP MERCURY	3	15.63	46.89
12. Pb - -TCL-HOU	TCLP LEAD	3	15.63	46.89
13. Se - -TCI-HOU	TCLP SELENIUM	3	15.63	46.89
14. TCLP -S- -HOU	TOXICITY CHAR. LEACH. PROC.	3	100.00	300.00
15. TPH -S-GC -HOU	PETROLEUM HYDROCARBON BY GC	3	100.00	300.00
16. VOA - - -HOU	VOLATILE ORGANIC ANALYSES	3	225.00	675.00
17. ZHE -S- -HOU	ZERO HEADSPACE EXTRACTION/SLD	3	150.00	450.00
18. pH -S-COR-HOU	pH CORROSION ON SOLID	3	10.00	30.00
19.	Sample Disposal Charge		\$ 6.50	32.50
Total:				3827.50



November 18, 1992

ENSR Consulting
and Engineering
3000 Richmond Avenue
Houston, Texas 77098
(713) 520-9900
(713) 520-6802 (FAX)

Mr. Roger C. Anderson
Bureau Chief
Environmental Bureau
Oil Conservation Division
Land Office Building, State of New Mexico
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

Re: Waste Classification of Contaminated Soils from the former Exxon Chemical Company Facility at 2607/2609 West Marland Boulevard and Exxon Chemical Company Facility at 1715 Dal Paso, Hobbs, New Mexico

Dear Mr. Anderson:

As discussed in our meeting on July 31, 1992 you requested that a waste classification of the contaminated soils be made prior to submittal of a work plan to the OCD for a removal action. ENSR collected samples from both sites on September 3, 1992 in the areas of concern, as discussed in our meeting. Therefore, the purpose of this letter is to notify the New Mexico Oil Conservation Division (OCD) that contaminated soils from the Exxon Chemical facilities, referenced above, should be classified as non-hazardous for disposal purposes based on the attached analytical data.

Samples, DP-1 from the Dal Paso site and MR-1 from the Marland site, were collected from trenches through areas of known hydrocarbon and/or lead soil contamination. These contaminated areas had been identified through previous sampling conducted by ENSR in January 1992. Sample DP-2 was collected from the Dal Paso site in a trench at the base of the collapsed septic tank, as you requested. The soil surrounding the septic tank was suspected to have contained oily wastes prior to its being taken out of service in 1984. As shown by the attached analytical data, as well as past analytical data, the soils from the septic tank area do not appear to be contaminated with metals or hydrocarbons and therefore will not be addressed in the work plan for a removal action.

All three samples were collected as composite samples, as requested. Each was composited from at least five sample points within the known or suspected contaminated soil areas.

We expect to submit work plans to your offices by December 23, 1992 for your approval. After obtaining OCD approval ENSR expects to begin field work within 30 days, weather permitting.

ENSR is currently considering disposal of the contaminated soils at the CRI landfill near Hobbs. ENSR will request OCD authorization for disposal when the work plan is submitted.



November 18, 1992
Mr. Roger C. Anderson
Page 2

If you have any questions or comments please contact me at (713) 520-9900.

Sincerely,

A handwritten signature in cursive script that reads "J. Scott Kuykendall".

J. Scott Kuykendall
Staff Geologist

A handwritten signature in cursive script that reads "Jay Swindle".

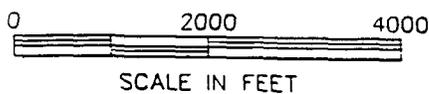
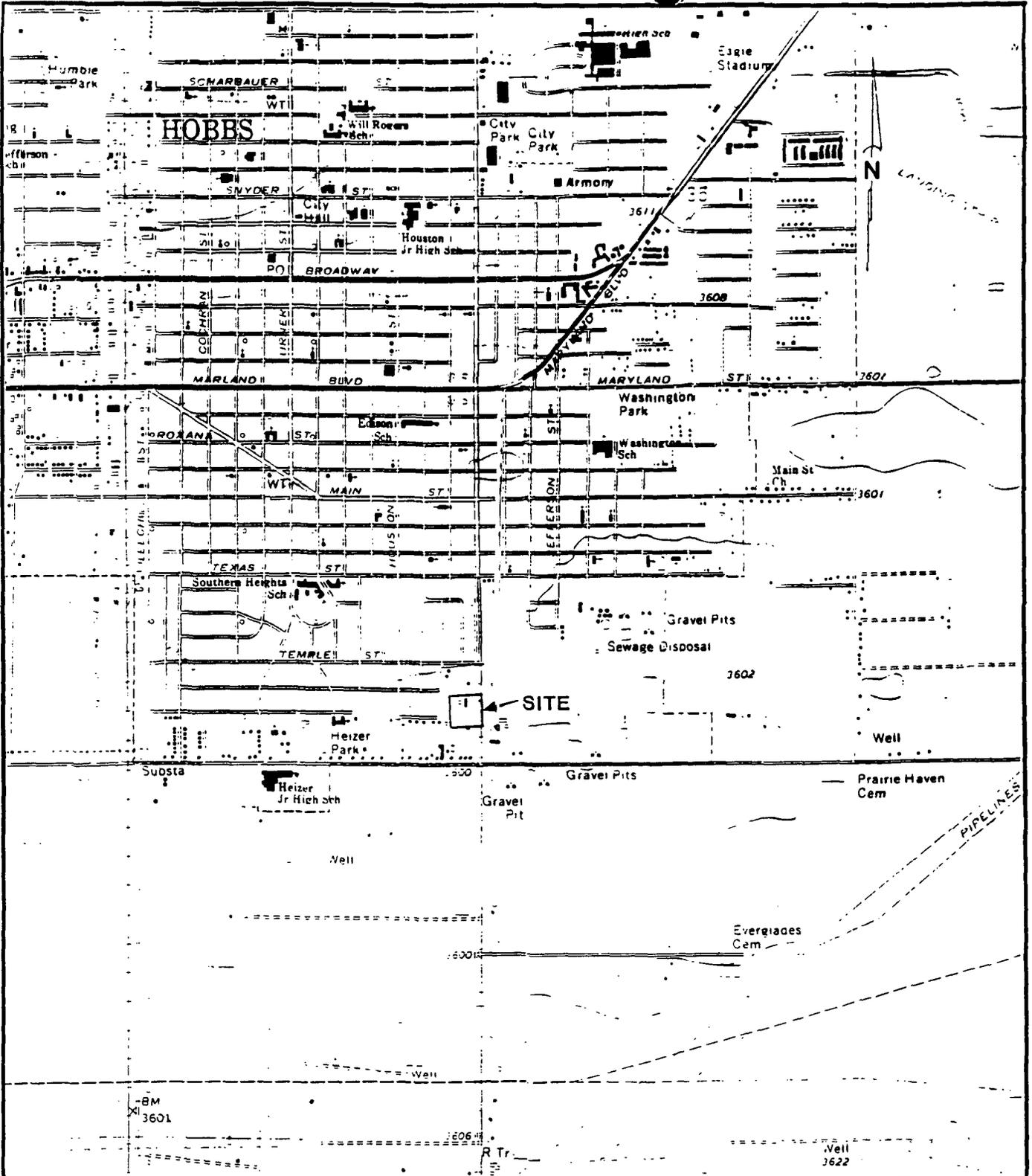
Jay Swindle
Project Manager

JSK:JS/db

Attachments

Reference No. 1009-001-150

cc: Brown McCarroll and Oaks Hartline



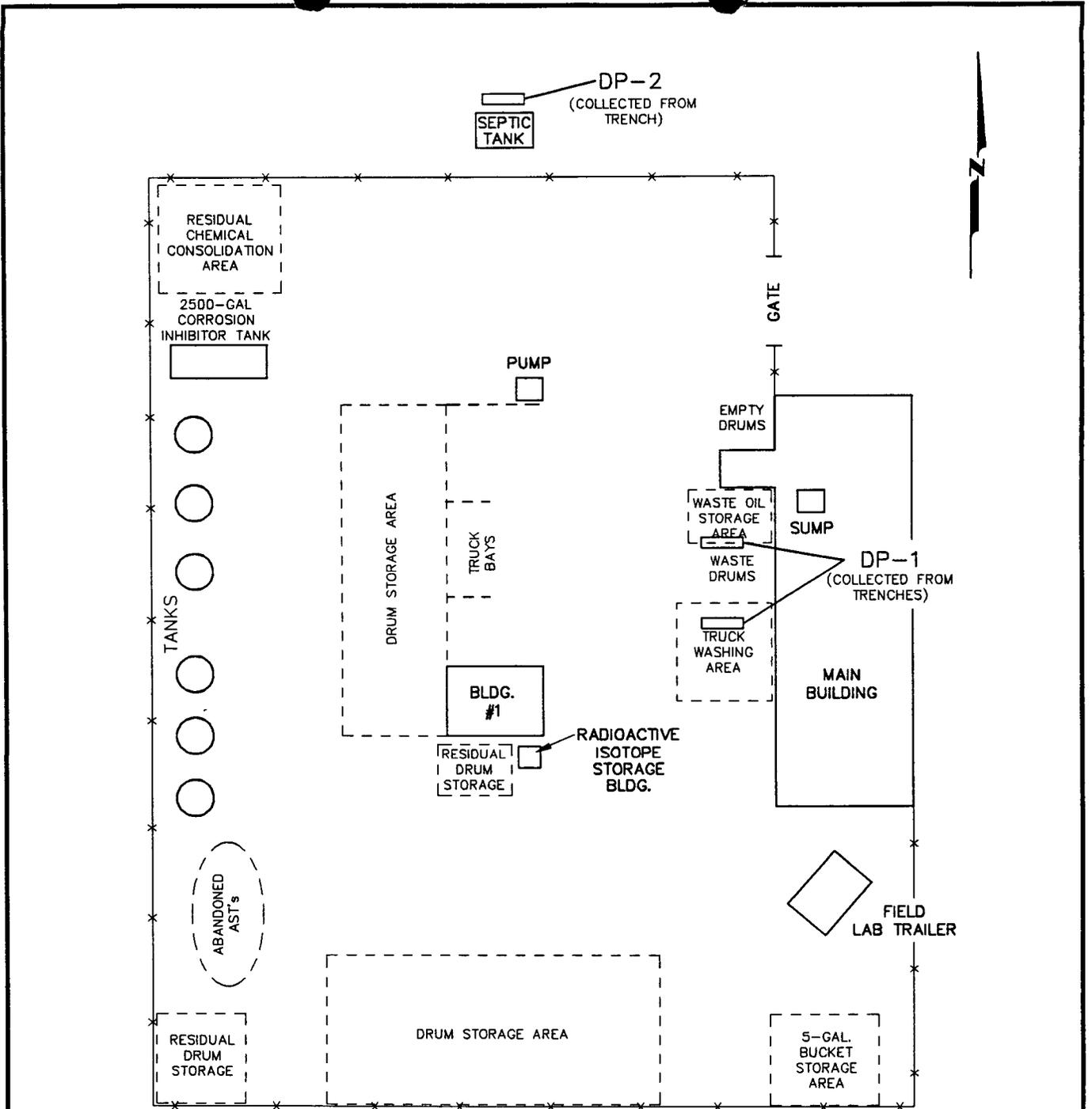
REFERENCE: U.S.G.S. Quadrangle Map for Hobbs, New Mexico 1979.

TOPO

ENSRTM
ENSR CONSULTING AND ENGINEERING

PROPERTY LOCATION
1715 DAL PASO STREET
HOBBS, NEW MEXICO

DRAWN BY: S. GHANI	DATE: 10-19-92	PROJECT NUMBER: 1009-001-150
CHK'D BY:	REVISED:	



CE100949

NOT TO SCALE

 ENSR TM ENSR CONSULTING & ENGINEERING		
SITE PLOT PLAN WITH SAMPLE LOCATIONS 1715 DAL PASO STREET HOBBS, NEW MEXICO		
DRAWN: SJF/SG	DATE: 11-12-92	PROJECT NUMBER:
APPV'D:	REVISED:	1009-001-150

Summary of Analytical Results
Exxon Chemical Company Facility
1715 Dal Paso Street
Hobbs, New Mexico
Date Sampled: 9-3-92

Analytical Parameters	Regulatory Threshold Limit	Sample ID: DP-1 Depth: 0'-2'		Sample ID: DP-2 Depth: 6'-8'	
		Level Detected	Detection Limit	Level Detected	Detection Limit
TCLP Metals (mg/l)					
Arsenic	5.0	<0.2	0.2	<0.2	0.2
Barium	100.0	1.2	0.5	1.2	0.5
Cadmium	1.0	<0.010	0.010	<0.010	0.010
Chromium	5.0	<0.05	0.05	<0.05	0.05
Lead	5.0	0.1	0.02	0.02	0.02
Mercury	0.2	<0.001	0.001	<0.001	0.001
Selenium	1.0	<0.2	0.2	<0.2	0.2
Silver	5.0	<0.01	0.01	<0.01	0.01
TCLP Volatiles (µg/l)					
Pyridine	5,000	<13	13	<10	10
Vinyl Chloride	200	<10	10	<10	10
1,1-Dichloroethene	700	<5	5	<5	5
Chloroform	6,000	<5	5	<5	5
1,2-Dichloroethane	500	<5	5	<5	5
Methyl Ethyl Ketone	200,000	<10	10	<10	10
Carbon Tetrachloride	500	<5	5	<5	5
Trichloroethene	500	<5	5	<5	5
Benzene	500	<5	5	<5	5
Tetrachloroethene	700	<5	5	<5	5
Chlorobenzene	100,000	<5	5	<5	5
TCLP Semivolatiles (µg/l)					
1,4-Dichlorobenzene	7,500	<13	13	<10	10
2-Methylphenol	200,000	<13	13	<10	10
4-Methylphenol	200,000	<13	13	<10	10
3-Methylphenol	200,000	<13	13	<10	10

Summary of Analytical Results
Exxon Chemical Company Facility
1715 Dal Paso Street
Hobbs, New Mexico
Date Sampled: 9-3-92

Analytical Parameters	Regulatory Threshold Limit	Sample ID: DP-1 Depth: 0'-2'		Sample ID: DP-2 Depth: 6'-8'	
Hexachloroethane	3,000	<13	13	<10	10
Nitrobenzene	2,000	<13	13	<10	10
Hexachlorobuta- diene	500	<13	13	<10	10
2,4,6-Trichlorophenol	2,000	<13	13	<10	10
2,4,5-Trichlorophenol	400,000	<66	66	<50	50
2,4-Dinitrotoluene	130	<13	13	<10	10
Hexachlorobenzene	130	<13	13	<10	10
Pentachlorophenol	100,000	<66	66	<50	50
RCRA Characteristics					
pH	2 < pH < 12.5	8.57 units	0.01 units	8.13 units	0.01 units
Corrosivity	> 6.35 MMPY	Unable to analyze due to matrix		Unable to analyze due to matrix	
Ignitability	< 140°F	Unable to analyze due to matrix		Unable to analyze due to matrix	
Reactivity - HCN - H ₂ S	250 mg/kg 500 mg/kg	< 0.40 mg/kg 245 mg/kg	0.40 mg/kg 20 mg/kg	< 0.40 mg/kg 146 mg/kg	0.40 mg/kg 20 mg/kg

BROWN McCARROLL & OAKS HARTLINE

Attorneys

A Registered Limited Liability Partnership Including Professional Corporations

300 Crescent Court
Suite 1400
Dallas, Texas 75201-6929
(214)999-6100
Fax (214)999-6170

1400 Franklin Plaza
111 Congress Avenue
Austin, Texas 78701-4043
(512)472-5456
Fax (512)479-1101

1300 Wortham Tower
2727 Allen Parkway
Houston, Texas 77019-2100
(713)529-3110
Fax (713)529-4639

November 12, 1992

Writer's Direct Number:

(512) 479-9752

RECEIVED

NOV 13 1992

Mr. Carl Baldwin
County Commissioner
Lee County Courthouse
Lovington, New Mexico 88240

OIL CONSERVATION DIV
SANTA FE

VIA FEDERAL EXPRESS

Re: Cleanup of Facilities Owned or Formerly Operated by Exxon Corporation

Dear Mr. Baldwin:

As we discussed on Tuesday, November 10, 1992, Exxon Chemical Company, a division of Exxon Corporation, (Exxon) is working with the New Mexico Oil Conservation Division (OCD) to conduct a cleanup of two properties that were owned or operated by Exxon in the City of Hobbs. The purpose of this letter is to (1) briefly review the history of the sites; (2) briefly describe the proposed cleanup plan; and (3) advise you of an opportunity to review and comment on the proposed plans.

The first property is located at 1715 Dal Paso Street in the City of Hobbs (see enclosed maps). Exxon acquired the property in 1987 from NL Industries, Inc. (NLI). The property is currently used as office space only. When Exxon first acquired the property in 1987, it used the facility to store and distribute oil field chemicals. NLI also used the property for storing and distributing oil field chemicals. Dry chemicals were stored inside the buildings on the site; liquid chemicals were stored in above-ground tanks and drums in the yard area. The chemicals were used for the maintenance of oil wells and included paraffin solvents, corrosion inhibitors, scale inhibitors, emulsion breakers, desalting compounds, microbiocides, surfactants, defoamers, and water clarifiers. Soils at the facility became contaminated as a result of periodic product spills and leaks over many years of facility usage.

The second property is located at 2607/2609 West Marland Street in the City of Hobbs (see enclosed maps). It is currently owned by Electro-Support Systems, Inc. Exxon acquired the lease to the property from NLI in 1987 and terminated the lease in 1989. During the period of Exxon's operations, the facility was used for the storage and distribution of oil field chemicals similar to those described above. The products were

Mr. Carl Baldwin
November 12, 1992
Page 2

stored in above-ground tanks and drums in the yard area. Soils at this site are also contaminated with constituents from the oil field products.

As required by the laws of the State of New Mexico, Exxon notified the OCD regarding the contaminated soils at the properties and have been working with that agency to develop appropriate cleanup plans. Toward that end, Exxon has prepared an Engineering Evaluation/Cost Analysis, which discusses several cleanup alternatives. A copy of the Engineering Evaluation/Cost Analysis for each site is enclosed. To allow public participation in the remedy selection process, Exxon intends to publish a notice in the Hobbs News Sun on November 16, 1992. Exxon hereby invites the County to review these documents and to call me or Mr. J. Paul Reed, Exxon's Environmental Coordinator, at (713) 671-8676 for more information.

Very truly yours,



Patricia E. Carls

I:\PS\CARLST\140995.1
13232.68180

Enclosures

cc: (via Federal Express)
✓ R. Anderson, OCD
R. Littleton, County Commissioner
B. Goff, County Commissioner
M. Hughes, County Commissioner
I. Azisky, County Commissioner
S. Vincent, County Commissioner

BROWN McCARROLL & OAKS HARTLINE

Attorneys

A Registered Limited Liability Partnership Including Professional Corporations

300 Crescent Court
Suite 1400
Dallas, Texas 75201-6929
(214) 999-6100
Fax (214) 999-6170

1400 Franklin Plaza
111 Congress Avenue
Austin, Texas 78701-4043
(512) 472-5456
Fax (512) 479-1101

1300 Wortham Tower
2727 Allen Parkway
Houston, Texas 77019-2100
(713) 529-3110
Fax (713) 529-4639

November 12, 1992

Writer's Direct Number:

(512) 479-9752

RECEIVED

NOV 13 1992

OIL CONSERVATION DIV.
SANTA FE

VIA FEDERAL EXPRESS

Mr. Robert Love
Mayor
City of Hobbs
City Hall
300 North Turner
Hobbs, New Mexico 88240

Re: Cleanup of Facilities Owned or Formerly Operated by Exxon Corporation

Dear Mr. Love:

As we discussed on Tuesday, November 10, 1992, Exxon Chemical Company, a division of Exxon Corporation, (Exxon) is working with the New Mexico Oil Conservation Division (OCD) to conduct a cleanup of two properties that were owned or operated by Exxon in the City of Hobbs. The purpose of this letter is to (1) briefly review the history of the sites; (2) briefly describe the proposed cleanup plan; and (3) advise you of an opportunity to review and comment on the proposed plans.

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The second property is located at 2607/2609 West Marland Street in the City of Hobbs (see enclosed maps). It is currently owned by Electro-Support Systems, Inc. Exxon acquired the lease to the property from NLI in 1987 and terminated the lease in 1989. During the period of Exxon's operations, the facility was used for the storage and

Mr. Robert Love
November 12, 1992
Page 2

distribution of oil field chemicals similar to those described above. The products were stored in above-ground tanks and drums in the yard area. Soils at this site are also contaminated with constituents from the oil field products.

As required by the laws of the State of New Mexico, Exxon notified the OCD regarding the contaminated soils at the properties and have been working with that agency to develop appropriate cleanup plans. Toward that end, Exxon has prepared an Engineering Evaluation/Cost Analysis, which discusses several cleanup alternatives. A copy of the Engineering Evaluation/Cost Analysis for each site is enclosed. To allow public participation in the remedy selection process, Exxon intends to publish a notice in the Hobbs News Sun on November 16, 1992. Exxon hereby invites the City to review these documents and to call me or Mr. J. Paul Reed, Exxon's Environmental Coordinator, at (713) 671-8676 for more information.

Very truly yours,



Patricia E. Carls

I:\PS\CARLST\140966.1
13232.68180

Enclosures

cc: (via Federal Express)
R. Gallagher, City Manager
R. Doss, City Engineer
M. Gray, Fire Chief
✓ R. Anderson, OCD

BROWN MCCARROLL & OAKS HARTLINE

Attorneys

A Registered Limited Liability Partnership Including Professional Corporations

300 Crescent Court
Suite 1400
Dallas, Texas 75201-6929
(214)999-6100
Fax (214)999-6170

1400 Franklin Plaza
111 Congress Avenue
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(512)472-5456
Fax (512)479-1101

1300 Wortham Tower
2727 Allen Parkway
Houston, Texas 77019-2100
(713)529-3110
Fax (713)529-4639

November 12, 1992

Writer's Direct Number:

(512) 479-9752

RECEIVED

NOV 13 1992

Ms. Cris Adams
Hobbs Public Library
509 North Shipp
Hobbs, New Mexico 88240

OIL CONSERVATION DIV
SANTA FE

VIA FEDERAL EXPRESS

Re: Exxon Chemical Company; Public Document Repository

Dear Ms. Adams:

As we discussed last week, I am the attorney for Exxon Chemical Company, a division of Exxon Corporation (Exxon), on an environmental matter involving property located in the City of Hobbs. Federal law requires Exxon to make certain documents available for public review for a period of thirty days. Accordingly, I am enclosing one copy of each of the following documents: Engineering Evaluation/Cost Analysis (Dal Paso Street); Engineering Evaluation/Cost Analysis (West Marland Street).

These documents must be made available for public review from November 16, 1992 through December 16, 1992. I understand that you and your staff can accommodate Exxon's needs by making the documents available at the Reference Desk.

Thank you for your cooperation and assistance in this matter. Please feel free to call me collect if you have any questions or need additional information.

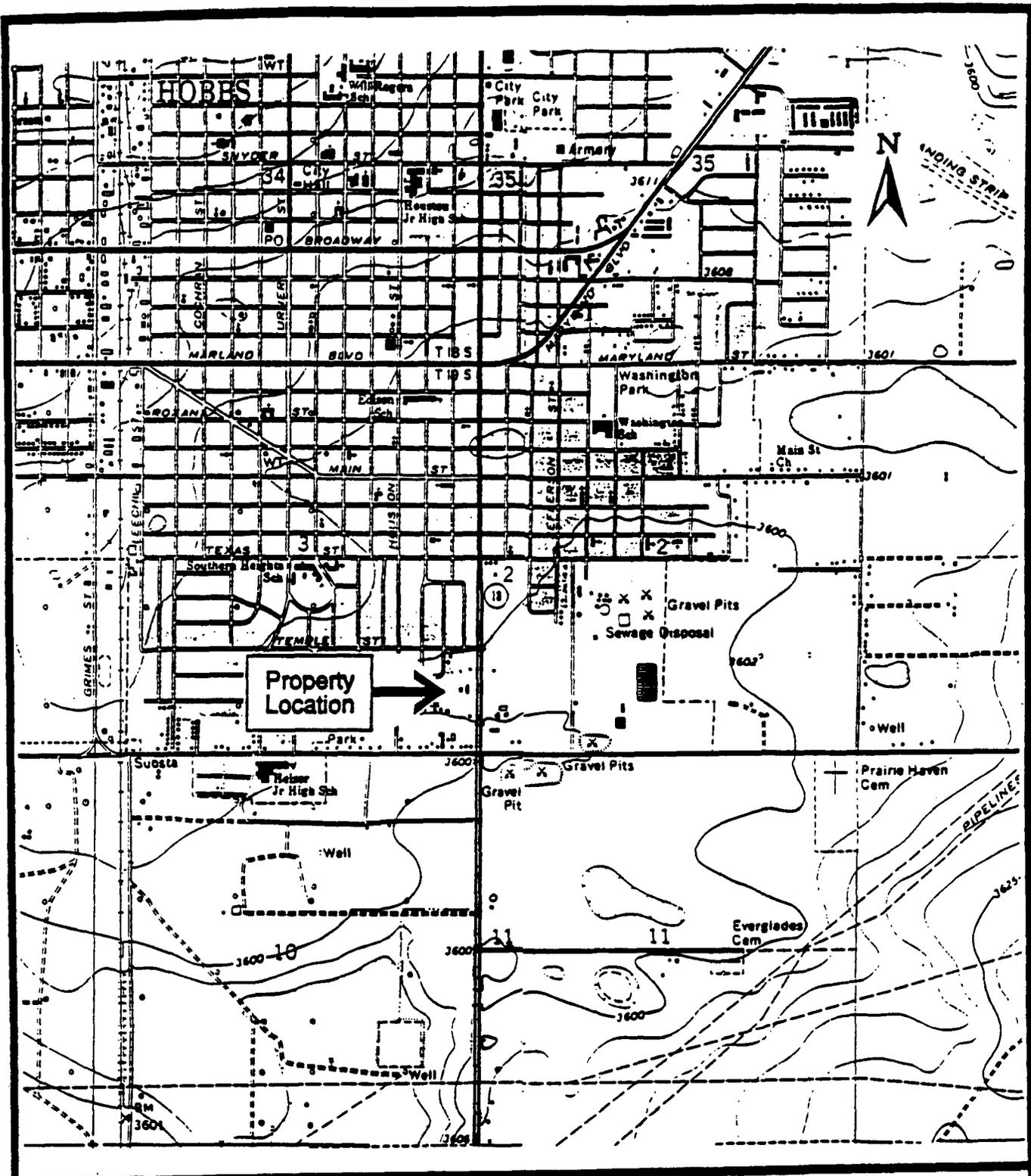
Very truly yours,


Patricia E. Carls

I:\PS\CARLST\141360.1
13232.68180

Enclosure

cc: ✓ R. Anderson, OCD (via Federal Express)



Source: USGS, Hobbs, West, N. Mex. quadrangle, 1969. Photo Revised 1979.



QUADRANGLE LOCATION

Scale



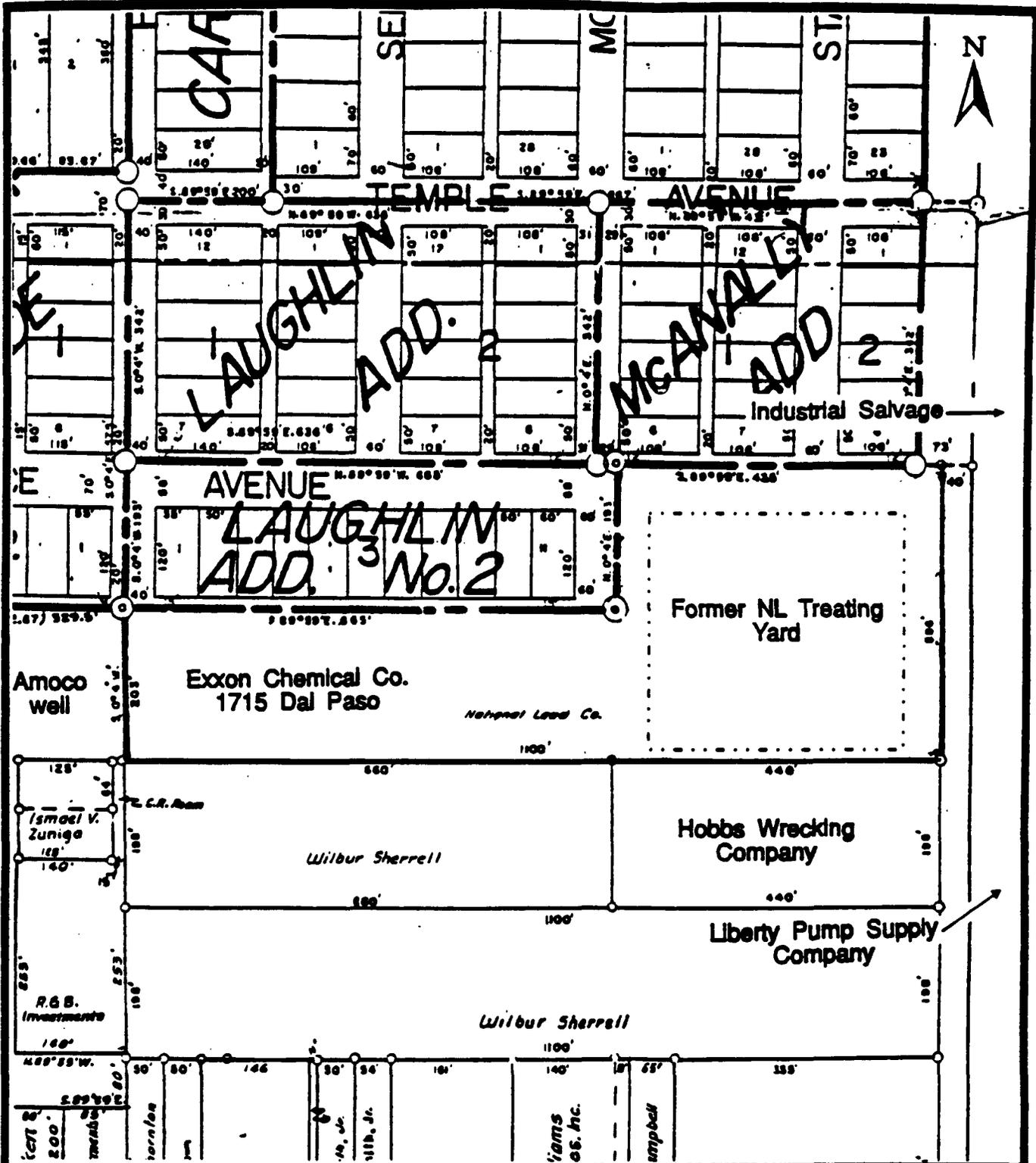
ENSR
Consulting and Engineering

Figure 1
Property Location
1715 Dal Paso
Hobbs, NM

DRAWN: ERS

DATE: 9-5-91

P.L. NO.: 2620-092-517



Source: Commercial Appraisal Report
for Exxon Company, U.S.A. May 9,
1989.

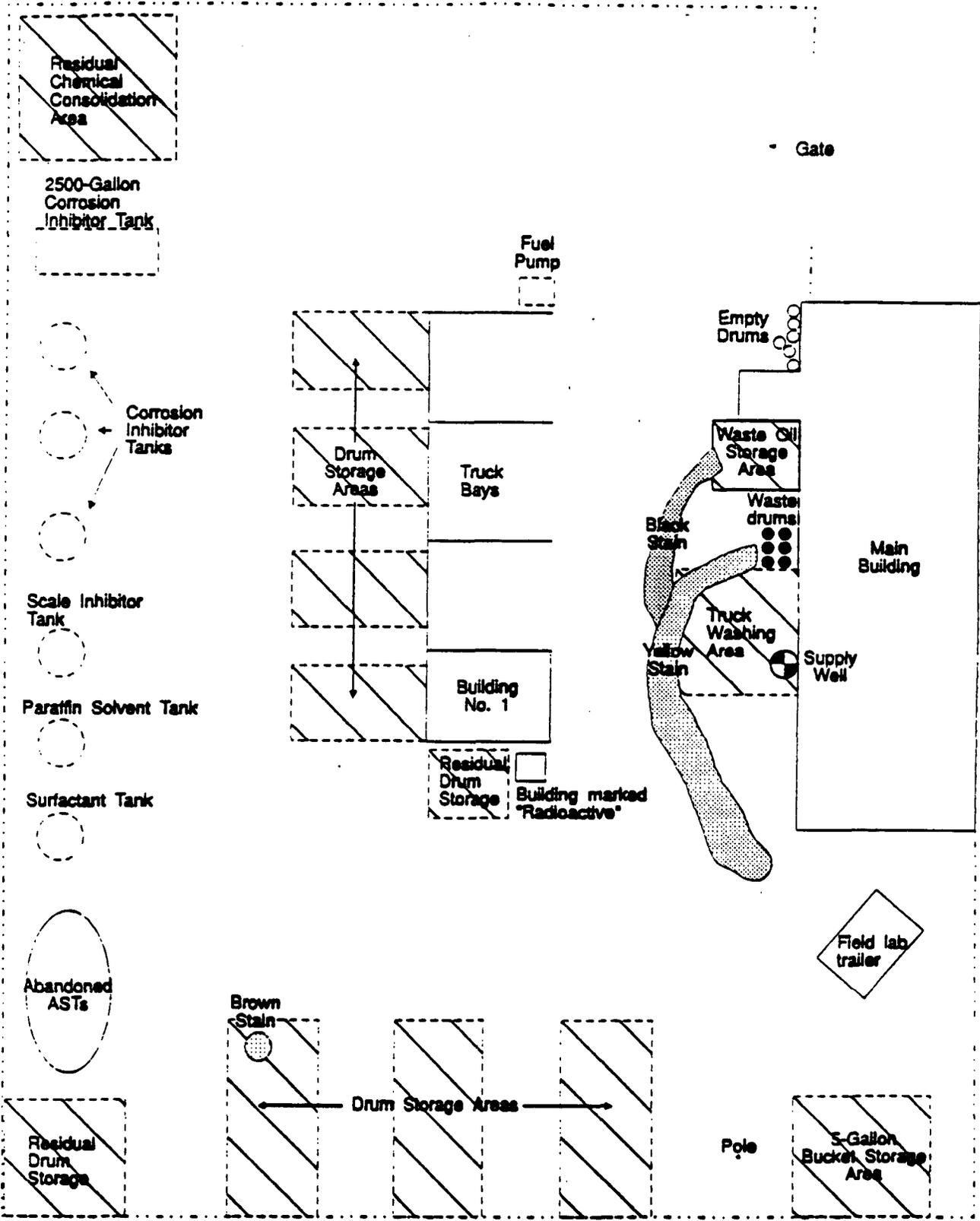
Scale: 1 inch = 200 feet

ENSR

Consulting and Engineering

Figure 2
Property Boundaries
1715 Dal Paso, Hobbs, NM

Septic Tank (abandoned)

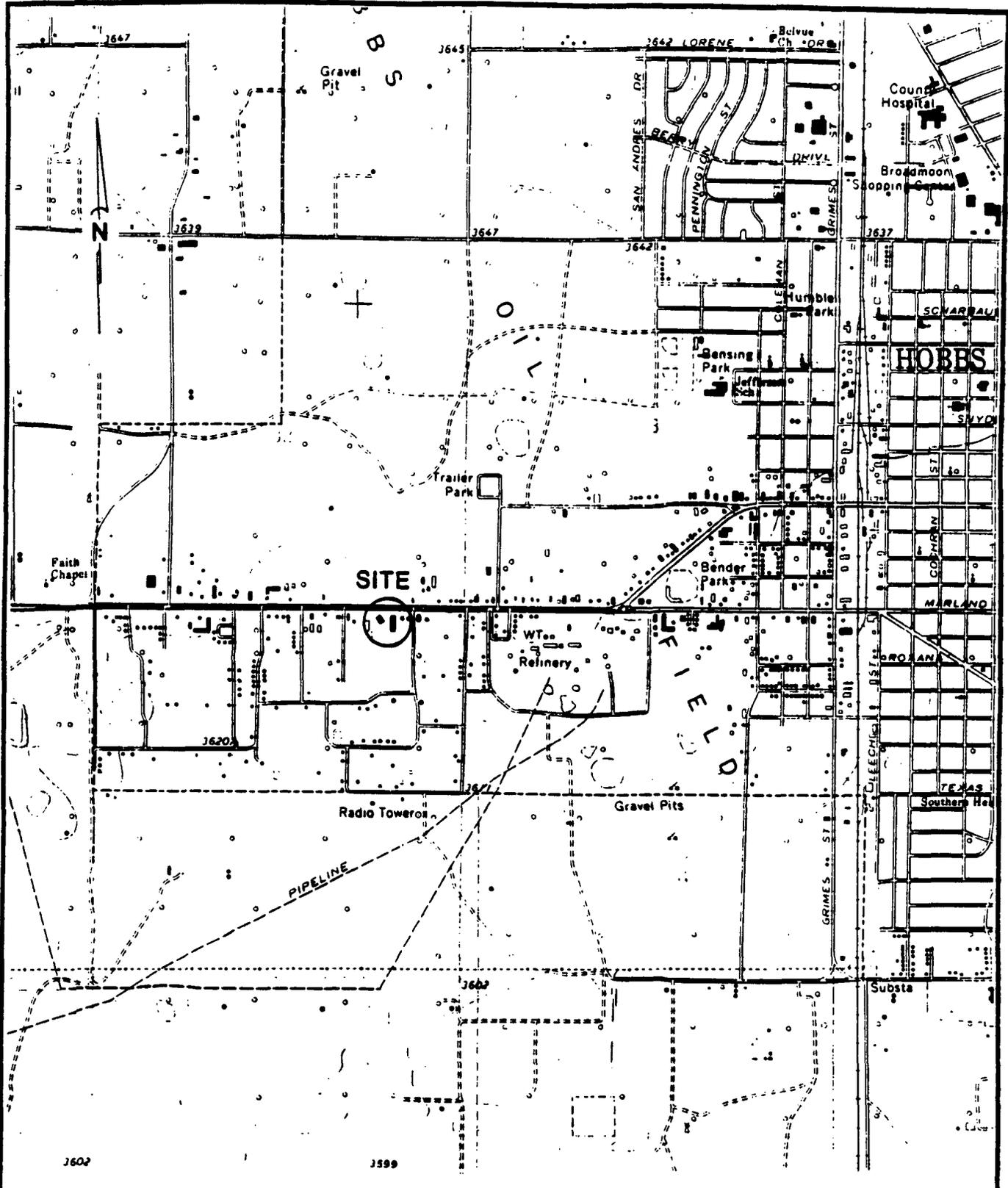


- Corrosion Inhibitor Tanks
- Scale Inhibitor Tank
- Paraffin Solvent Tank
- Surfactant Tank
- Abandoned ASTs

- Fence
- Existing structure
- - - Approximate location of structure
- /// Approximate area location

NOT TO SCALE

ENSR Consulting and Engineering
 Figure 3
 Property Details
 1715 Dal Paso, Hobbs, New Mexico
 DATE: 11/19/01 FILE: 233-001-117



ENSRTM
 ENSR CONSULTING & ENGINEERING

FIGURE 2-1
SITE LOCATION MAP
CHEMICAL DISTRIBUTION COMPANY
HOBBS, NEW MEXICO

DRAWN: L.GAMBLE	DATE: 3-2-92	PROJECT NUMBER:
APPV'D:	REVISED:	1009-001-160

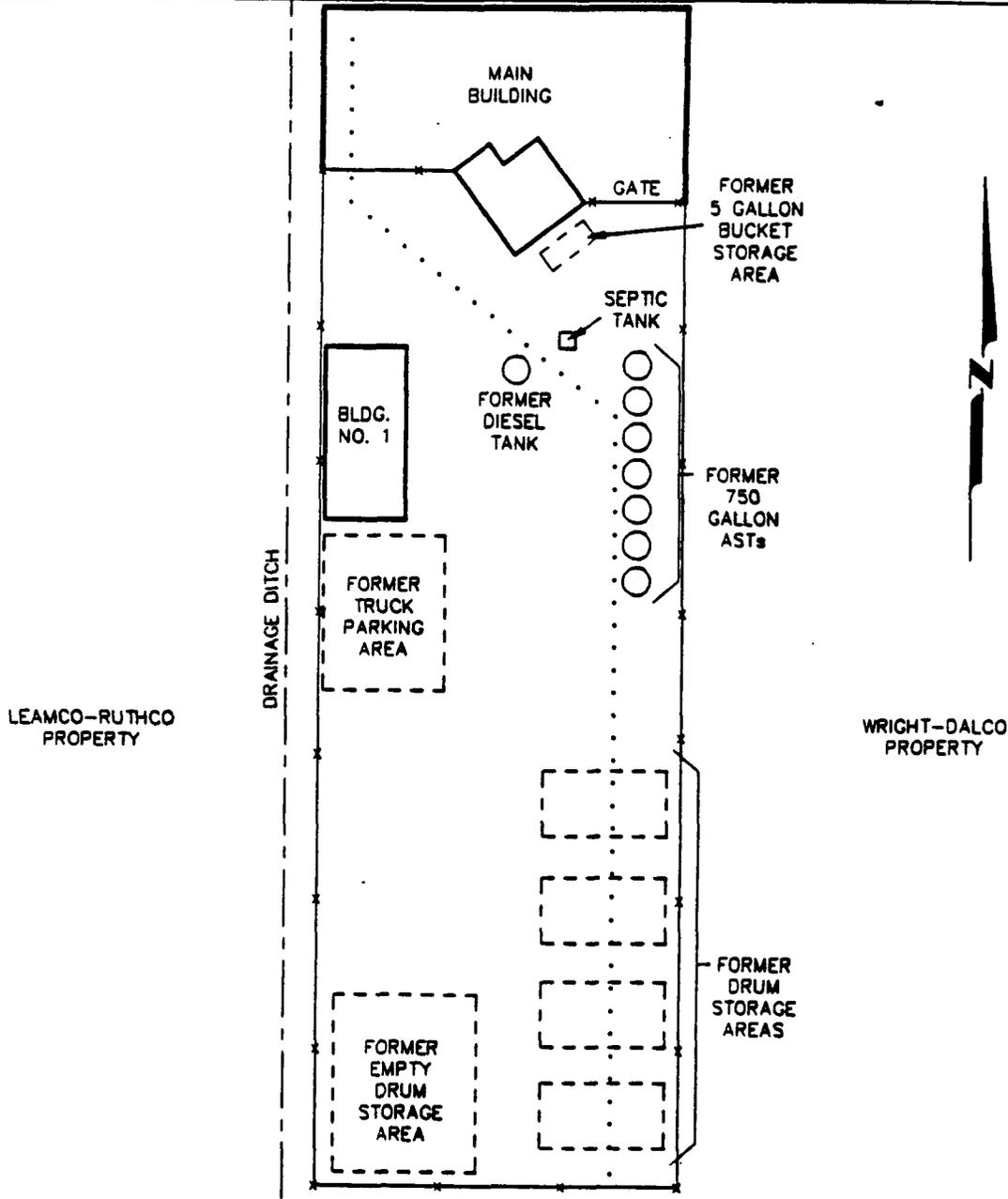
Ref.: USGS, Hobbs West, New Mexico
 Quadrangle Map, 1979

1009TOPO

UNDEVELOPED
LAND

RAVEN PUMP CO.
PROPERTY

WEST MARLAND BOULEVARD



LEAMCO-RUTHCO
PROPERTY

WRIGHT-DALCO
PROPERTY

AMOCO
PROPERTY

NOT TO SCALE

LEGEND

— EXISTING STRUCTURE

— FENCE

... GAS PIPELINE

ENSRTM

ENSR CONSULTING & ENGINEERING

FIGURE 2-2
SITE PLOT PLAN
CHEMICAL DISTRIBUTION COMPANY
HOBBS, NEW MEXICO

DRAWN: L.GAMBLE

DATE: 3-2-92

PROJECT
NUMBER:

APPYD:

REVISED:

1009-001-160

CE100907

BROWN McCARROLL & OAKS HARTLINE CONSERVATION DIVISION
Attorneys RECEIVED

A Registered Limited Liability Partnership Including Professional Corporations

'92 NOV 13 AM 8 45

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Dallas, Texas 75201-6929
(214)999-6100
Fax (214)999-6170

1400 Franklin Plaza
111 Congress Avenue
Austin, Texas 78701-4043
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1300 Wortham Tower
2727 Allen Parkway
Houston, Texas 77019-2100
(713)529-3110
Fax (713)529-4639

November 10, 1992

Writer's Direct Number:
(512) 479-9752

Hobbs News Sun
201 North Thort
Hobbs, New Mexico 88240

RECEIVED

NOV 13 1992

VIA FEDERAL EXPRESS
(Standard Overnight)

Attn: Marcella Joyce

OIL CONSERVATION
SANTA FE

Re: Public Notice

Dear Ms. Joyce:

Enclosed is a Public Notice item to be published in the Monday, November 16, 1992 edition of the Hobbs News Sun. Because this is a legal notice, I will need a Publisher's Affidavit confirming that the notice was indeed published on November 16, 1992. The affidavit should include a clipping of the notice as it appeared in the newspaper. Please send any bill for this service to me at the above address.

Thank you for your cooperation in this matter. Please feel free to call me if you have any questions or need additional information.

Very truly yours,



Patricia E. Carls

\\PS\CARLST\141365.1
13232.68180

Enclosure

✓cc: R. Anderson, OCD

NOTICE

Exxon Chemical Company, a division of Exxon Corporation ("Exxon") plans to conduct Removal Action Activities at two sites located in the City of Hobbs. The sites are located at 1765 Dal Paso Street, and at 2607/2609 West Marland Boulevard. An Engineering Evaluation/Cost Analysis has been prepared. This document is available for review at:

Hobbs Public Library
509 North Shipp
Hobbs, New Mexico 88240.

The soils at the two properties are contaminated with constituents from chemicals used in oil field production and drilling that were spilled or leaked onto the ground. Exxon intends to (1) remove the contaminated soils as per State requirements; (2) dispose of the soils on an authorized off-site landfill; and (3) backfill the property with clean soil from an off-site source.

Written comments on the Engineering Evaluation/Cost Analysis may be submitted on or before December 16, 1992 to:

Mr. J. Paul Reed
Environmental Coordinator
Exxon Chemical Company
8230 Stedman
Houston, Texas 77029.

7/31/92 Exxon Hobbs Chemical Facility 9:30am

participants Roger Anderson

Bill Olson

Chris Eustice

Keith Hopson - Brown, McCarroll & Oates Hartline

Patricia Carls - " " " "

Jay Swingle - EUSR

Paul Reed - Exxon

P.R. Review site investigation report
2 sites in Hobbs

J.S. Site Del Paso south of Hobbs on Eunice Hwy

Phase I & II investigation

Metals (Totals) above TC levels

Need to

- 1.) check for TCLP on metals at surface
- 2.) check " " " " " septic tank
prior to closure

Exxon will submit work plan for remediation

2.) West Merland site

BROWN MCCARROLL & OAKS HARTLINE

Attorneys

A Registered Limited Liability Partnership Including Professional Corporations

300 Crescent Court
Suite 1400
Dallas, Texas 75201-6929
(214) 999-6100
Fax (214) 999-6170

1400 Franklin Plaza
111 Congress Avenue
Austin, Texas 78701-4043
(512) 472-5456
Fax (512) 479-1101

1300 Wortham Tower
2727 Allen Parkway
Houston, Texas 77019-2100
(713) 529-3110
Fax (713) 529-4639

July 2, 1992

Writer's Direct Number:

(512) 479-9752

Mr. Roger Anderson
Energy, Minerals & Natural
Resources Department
Oil Conservation Division
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

RECEIVED
JUL 07 1992
OIL CONSERVATION DIV.
SANTA FE

Re: Exxon Chemical Company Sites in Hobbs, New Mexico

Dear Mr. Anderson:

Thank you for taking the time on Tuesday, June 30, 1992 to discuss the referenced matter. As I mentioned, Exxon Chemical Company (Exxon) has completed Phase I and Phase II environmental audits of two oil field service satellite facilities in Hobbs, New Mexico. As is detailed in the enclosed reports, the contaminated soils discovered at these sites may require remediation. Therefore, we would like to meet with you at 9:30 a.m. on Friday, July 31, 1992 to discuss this matter.

The enclosed reports describe the sites' current use, former uses, and present condition. In brief, Exxon acquired the sites in Hobbs from NL Industries, Inc. in November 1987. Exxon took title to the site on Dal Paso Street and assumed the lease to the site on West Marland Street. The Dal Paso Street site is still an active facility. However, the lease on the West Marland Street has been terminated. The property on Dal Paso Street was used by Exxon and NL Industries, Inc. for storing and distributing oil field chemicals. The chemicals were stored in drums and in above-ground storage tanks. The property on West Marland Street was used by Exxon and NL Industries, Inc. primarily for office space, but the yard area may have been used intermittently for chemical storage. Exxon and NL Industries, Inc. are currently discussing certain issues relating to the cleanup of these properties.

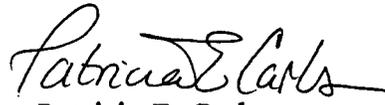
The meeting on July 31, 1992 will be attended by a representative of Exxon Chemical Company, Paul Reed; a representative of ENSR Consulting and Engineering, Jay Swindle; myself and Keith Hopson from this firm; and perhaps representatives from NL Industries, Inc. Now that site data has been developed, we need to explore what may

Mr. Roger Anderson
July 2, 1992
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be necessary. We would appreciate the agency's input on appropriate action and cleanup levels as well as other aspects possibly involved in such a project.

We look forward to meeting with you on Friday, July 31, 1992. In the meantime, please do not hesitate to call if you have any questions or need additional information.

Very truly yours,


Patricia E. Carls

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13232.68180

Enclosures

icc: K. Hopson
S. Oaks

BROWN McCARROLL & OAKS HARTLINE

Attorneys

A Registered Limited Liability Partnership Including Professional Corporations

300 Crescent Court
Suite 1400
Dallas, Texas 75201-6929
(214) 999-6100
Fax (214) 999-6170

1400 Franklin Plaza
111 Congress Avenue
Austin, Texas 78701-4043
(512) 472-5456
Fax (512) 479-1101

1304 Wortham Tower
2727 Allen Parkway
Houston, Texas 77019-2100
(713) 529-3110
Fax (713) 529-4639

OIL CONSERVATION DIVISION
RECEIVED
92 SEP 14 AM 8:44

September 9, 1992

Writer's Direct Number:

(512) 479-9752

Mr. Roger C. Anderson
Chief, Environmental Bureau
Oil Conversation Division
State of New Mexico
Energy, Minerals & Natural Resources Department
P. O. Box 2088
Land Office Building
Santa Fe, New Mexico 87504-2088

Re: Cleanup of Properties in Hobbs, New Mexico by Exxon Corporation

Dear Mr. Anderson:

On behalf of Exxon Corporation (Exxon), I would like to express our thanks to you and your staff for taking the time to meet with us on July 31, 1992 to discuss the cleanup of two sites owned or formerly operated by Exxon. The sites are on Marland Street and Dal Paso Street in Hobbs, New Mexico.

As required by Rule 1-203 of the New Mexico Water Quality Control Commission Regulations, Exxon notified the Oil Conservation Division of discharges at the facilities in Hobbs. As is detailed in the environmental site assessment reports for each of the facilities, Exxon has discovered evidence of soil contamination at the two facilities. Because the Oil Conservation Division does not have jurisdiction over hazardous waste, you requested that Exxon collect in situ representative samples of the contaminated soils at both sites and analyze the samples according to the Toxicity Characteristic Leaching Procedure (TCLP) to verify that the contaminant levels are not greater than the hazardous waste toxicity characteristic levels set forth at 40 C.F.R. § 261.24. Such sampling was conducted on Thursday, September 3, 1992.

We also understood from our meeting that, if the sampling results confirm that no hazardous waste is present at both sites, Exxon must submit brief workplans describing the proposed cleanup activities for your review and approval. We also understood that the cleanup work at the sites would be governed primarily by Rule 1-203 of the New Mexico Water Quality Control Commission Regulations, as well as the October 29, 1991 Guidelines

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for Surface Impoundment Closures (the "Guidelines"). However, we also understood that the agency may use its discretion in interpreting and enforcing the Guidelines. We also understand that submission of the workplans coupled with our July 31, 1992 meeting constitutes compliance with any applicable State notification requirements.

We expect the TCLP sampling results to be available in October 1992. If the sampling results confirm that no hazardous wastes are present at the sites, we intend to prepare workplans for your review and approval. We anticipate that such workplans will be submitted prior to the end of 1992. Upon completion of the OCD-approved workplans, a final report confirming completion of the workplan will be submitted to your Agency.

Please let me know if I have inadvertently misstated our understanding or if you have any questions or need additional information. We look forward to working with you on these projects.

Very truly yours,



Patricia E. Carls

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13232.68180

cc: D. Sigman
P. Reed
J. Smith
J. Young