3R - 98

GENERAL CORRESPONDENCE

YEAR(S):

2001 - 1997

32

ON SITE
TECHNOLOGIES, LTD.

February 27, 2001

RECEIVED
MAR 22 2001
OIL CONSERVATION DIVISION

Mr. Bill Olson
New Mexico Oil Conservation Division
2040 South Pacheco
Santa Fe, New Mexico 87505

RE: Conoco Groundwater Report Summary

On behalf of Conoco ***On Site Technologies Limited Partnership***, is submitting the enclosed 2000 Annual Groundwater report for Ten (10) sites.

LOCATION NAME	LEGAL DESCRIPTION	RECOMMENDATION
Farmington B Com 1	Unit H, S 12, T29N, R12W	WSP-1 still has high BTEX, all other at or below NMWQCC standards, continue monitoring of WSP #1
Nell-Hall#1	Unit M, S 07, T30N, R11W	Continue to monitor as required in NMCOD letter dated September, 1998
Farmington C Com 1	Unit L, S 15, T29N, R13W	Continue to monitor as required in NMCOD letter dated September, 1998
Farmington B Com 1E	Unit O, S 15, T29N, R13W	Free product is still present in MW-1. Sampling stopped at this time IAW NMOCD direction, more aggressive recovery program being investigated.
Salmon # 1	Unit P, S 30, T29N, R11W	DG#2 still has high BTEX, Continue monitoring in accordance with NMOCD letter dated September, 1998.
San Juan 28-7#126	Unit M, S 1, T27N, R7W	Research is being done to complete and submit the Pit closure forms and final reports
San Juan 28-7#219	Unit N, S 20, T28N, R7W	Research is being done to complete and submit the Pit closure forms and final reports
S&K1	Unit L, S 29, T29N, R11W	Research is being done to complete and submit the Pit closure forms and final reports
San Juan 28-7#19	Unit G, S 25, T28N, R7W	research is being done to complete and submit the Pit closure forms and final reports
San Juan 28-7#47	Unit A, S 20, T28N, R7W	Research is being done to complete and submit the Pit closure forms and final reports
Farmington Com #1	Unit P, Sec 11, T29N, R13W	Monitoring wells and piezometer plug and abandoned IAW NMOCD Letter dated December 13, 2000
Shephard & Kelsey #1E	Unit D, Sec. 29, T29N, R11W	Monitoring wells plug and abandoned IAW NMOCD Letter dated December 14, 2000

PO Box 2606
Farmington, NM 87499

505-325-5667 FAX: 505-327-1496

If there are any questions or concerns on this matter, feel free to contact me at (505) 325-5667.

Thank you for your time and considerations.

Respectfully submitted,

Larry Trujillo, CHMM
Environmental Specialist
On Site Technologies Limited Partnership

CC:
Gary Ledbetter, SHEAR, Conoco Inc., 3315 Bloomfield HWY, Farmington, NM 87401
John Cofer, Sr. Environmental Specialist, Conoco Inc., 3315 Bloomfield HWY, Farmington, NM 874
Denny Foust, NMOCD 1000 Rio Brazos, Aztec, NM 87410
Bill Liess, BLM 1235 La Plata HWY, Farmington, NM 87401
File

ON SITE
TECHNOLOGIES, LTD.

February 14, 2000

Mr. Wm. "Bill" Olsen, Hydrologist
NMOCD
P. O. Box 2088
Santa Fe, NM, 87504 - 2088

RE: Conoco Groundwater Report Summary

On behalf of Conoco ***On Site Technologies Limited Partnership***, is submitting the enclosed 1999 Annual Groundwater report for twelve (12) sites.

LOCATION NAME	LEGAL DESCRIPTION	RECOMMENDATION
Farmington B Com 1	Unit H, S 12, T29N, R12W	WSP-1 still has high BTEX, all other at or below NMWQCC standards, continue monitoring of WSP #1
San Juan 28-7#19	Unit G, S 25, T28N, R7W	Sample well in March, 2000, if below NMWQCC standard, discontinue sampling and complete pit closure report.
San Juan 28-7#47	Unit A, S 20, T28N, R7W	Sample well in March, 2000, if below NMWQCC standard, discontinue sampling and complete pit closure report.
Nell-Hall#1	Unit M, S 07, T30N, R11W	Continue to monitor as required in NMCOD letter dated September, 1998
Farmington C Com 1	Unit L, S 15, T29N, R13W	Continue to monitor as required in NMCOD letter dated September, 1998
Farmington B Com 1E	Unit O, S 15, T29N, R13W	Free product is still present in MW-1. ORC socks are saturated and appear to have become ineffective (refer to enclosed report).
Salmon # 1	Unit P, S 30, T29N, R11W	DG#2 still has high BTEX, Continue monitoring in accordance with NMOCD letter dated September, 1998, ASTs installed on the location by the landowner (refer to enclosed report) up gradient of DG#2.
San Juan 28-7#126	**Unit M, S 1, T27N, R7W**	**4 quarters of sampling below NMWQCC standards, recommend closure, pit closure report enclosed.**
San Juan 28-7#219	**Unit N, S 20, T28N, R7W**	**4 quarters of sampling below NMWQCC standards, recommend closure, pit closure report enclosed.**
S&K1	**Unit L, S 29, T29N, R11W**	**4 quarters of sampling below NMWQCC standards recommend closure, pit closure report enclosed.**
Farmington Com 1	**Unit P, S 11, T29N, R13W**	**4 quarters of sampling below NMWQCC standards recommend closure, pit closure report enclosed.**
S&K1E	**Unit D, S 29, T29N, R11W**	**4 quarters of sampling below OCD action levels recommend closure, pit closure report enclosed.**

PO Box 2606
Farmington, NM

505-325-5667

FAX: 505-327-1496

If there are any questions or concerns on this matter, feel free to contact me at (505) 325-5667.

Thank you for your time and considerations.

Respectfully submitted,

Larry Trujillo, CHMM
Environmental Specialist
On Site Technologies Limited Partnership

CC:
Shirley Ebert, SHEAR, Conoco Inc., Farmington Office
Neal Goates, Sr. Environmental Specialist, Conoco Inc.
Denny Foust, NMOCD Aztec Office
Bill Liess, BLM Farmington Office
File

NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

September 28, 1999

Ms. Shirley Ebert
Conoco, Inc.
10 Desta Dr., Suite 100W
Midland, Texas 79705-4500

RE: FINAL SAN JUAN BASIN PIT CLOSURE REPORTS

Dear Ms. Ebert:

The New Mexico Oil Conservation Division (OCD) has reviewed Conoco's August 9, 1999 "CONOCO GROUNDWATER REPORT SUMMARY" which was received by the OCD on September 11, 1999. This document which was submitted on behalf of Conoco by their consultant On Site Technologies, Ltd. requests the status of approval of the corrective actions at a number of pit sites in the San Juan Basin.

A review of the case files on these sites shows there have been recommendations from On Site Technologies to Conoco that Conoco seek closure of the remedial actions at some of the sites. However, the OCD has no record of receiving any closure requests from Conoco. If Conoco wishes to seek closure of the pits at these sites, Conoco will need to submit a completed OCD "Pit Remediation and Closure Report" form for each site. The report should include the results of all soil and ground water remediation actions and information on the current operator of the site.

If you have any questions, please call me at (505) 827-7154.

Sincerely,

William C. Olson
Hydrologist
Environmental Bureau

xc: Denny Foust, OCD Aztec District Office
Larry Trujillo, On Site Technologies, Ltd.

ON SITE
TECHNOLOGIES, LTD.

SEP - 1999

August 9, 1999

Mr. Wm. "Bill" Olsen, Hydrologist
NMOCD
2040 S. PACHECO ST
Santa Fe, NM, 87505

RE: Conoco Groundwater Report Summary

On behalf of Conoco Inc., ***On Site Technologies Limited Partnership*** requests a status of approval for the corrective actions on the following list of well locations.

RECOMMEND	CONTINUED	MONITORING
Farmington B Com 1	Unit H, S 12, T29N, R12W	WSP-1 still has high BTEX, all other at or below NMWQCC standards, continue monitoring of WSP #1
San Juan 28-7#19	Unit G, S 25, T28N, R7W	Continue monitoring, BTEX levels still above NMWQCC standards
San Juan 28-7#47	Unit A, S 20, T28N, R7W	Continue monitoring, BTEX levels still above NMWQCC standards
Nell-Hall#1	Unit M, S 07, T30N, R11W	Continue to monitor as required in NMCOD letter dated September, 1998
Farmington C Com 1	Unit L, S 15, T29N, R13W	Continue to monitor as required in NMCOD letter dated September, 1998
Farmington B Com 1E	Unit O, S 15, T29N, R13W	Continue to monitor as required in NMCOD letter dated September, 1998
Salmon # 1	Unit P, S 30, T29N, R11W	DG#2 still has high BTEX, Continue monitoring in accordance with NMOCD letter dated September, 1998
RECOMMEND	**CLOSURE**	
San Juan 28-7#126	**Unit M, S 1, T27N, R7W**	**4 quarters of sampling below NMWQCC standards, recommend closure**
San Juan 28-7#219	**Unit N, S 20, T28N, R7W**	**4 quarters of sampling below NMWQCC standards, recommend closure**
S&K1	**Unit L, S 29, T29N, R11W**	**4 quarters of sampling below NMWQCC standards recommend closure.**
Farmington Com 1	**Unit P, S 11, T29N, R13W**	**Contamination level in MW 1 below OCD action levels for the last four quarters, MW2 and MW3 historically have not had any contamination above NMWQCC standards. Recommend closure of the location.**
S&K1E	**Unit D, S 29, T29N, R11W**	**4 quarters of sampling below OCD action levels recommend closure.**

PO Box 2606
Farmington, NM
505-325-5667
FAX: 505-327-1496

Recommendations listed above were included in the 1997 and 1998 Conoco Annual Ground Water Reports. Please advise ***On Site*** and Conoco of NMOCD's approval, as we are only scheduling the sites requiring continued monitoring.

If there are any questions or concerns on this matter, feel free to contact me at (505) 325-5667.

Thank you for your time and considerations.

Respectfully submitted,

Larry Trujillo CHMM
Senior Environmental Technician
On Site Technologies Limited Partnership

cc:
Shirley Ebert, SHEAR, Conoco Inc., Farmington Office
Neal Goates, Sr. Environmental Specialist, Conoco Inc.

ON SITE
TECHNOLOGIES, LTD.

RECEIVED
FEB 19 1999
ENVIRONMENTAL BUREAU
OIL CONSERVATION DIVISION

Letter of Transmittal

ATTENTION:

DATE: February 17, 1999

Mr. Bill Olson
New Mexico Oil Conservation Division.
2040 South Pacheco
Santa Fe, New Mexico 87505

RE: Conoco's 1998 Annual Groundwater Report

Dear Mr. Olson:
On behalf of Conoco ***On Site Technologies Limited Partnership***, is submitting the enclosed 1998 Annual Groundwater report for ten (10) sites.

Number of Originals	Description
1	Shephard & Kelsey #1E Unit D, Sec. 29, T29N, R11W
1	Shephard & Kelsey #1 Unit L, Sec. 29, T29N, R11W
1	Salmon #1 Unit P, Sec. 30, T29N, R7W
1	Nell-Hall #1 Unit, M, Sec 7, T30N, R11W
1	San Juan 28-7-19 Unit G, Sec. 25, T28N, R7W
1	San Juan 28-7-47 Unit A, Sec. 20, T28N, R7W
1	Farmington Com #1 Unit P, Sec 11, T29N, R13W
1	Farmington B Com #1 Unit H, T29N R13W
1	Farmington C Com 1 Unit L, Sec. 15, T29N, R13W
1	Farmington B Com 1E Unit O, Sec 15, T29, R13W

Thank you,

Larry Trujillo
Sr. Environmental Technician

CC:
Shirley Ebert
Neal Goates
Denny Foust
File

PO Box 2606
Farmington, NM

505-325-5667

FAX: 505-327-1496

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION
2040 S. PACHECO
SANTA FE, NEW MEXICO 87505
(505) 827-7131

June 5, 1998

CERTIFIED MAIL
RETURN RECEIPT NO. Z-235-437-284

Ms. Shirley Ebert
Conoco, Inc.
3315 Bloomfield Hwy.
Farmington, New Mexico 87401

RE: GROUND WATER INVESTIGATIONS
SAN JUAN BASIN PIT CLOSURES

Dear Ms. Ebert:

The New Mexico Oil Conservation Division (OCD) has completed a review of Conoco, Inc.'s (Conoco) February 4, 1998 "CONOCO'S 1997 ANNUAL GROUNDWATER REPORT" which was received by the OCD on February 27, 1998. This document, which was submitted on behalf of Conoco by their consultant On Site Technologies, Ltd., contains the results of Conoco's investigation, remediation and monitoring at 12 unlined oil and gas production pit sites with resulting ground water contamination.

Upon a review of the above referenced documents, the OCD has the following comments and requirements:

1. The data in the reports for the sites listed below show that the complete extent of ground water contamination has not been determined. The OCD requires that Conoco complete the definition of the extent of ground water contamination at these sites pursuant to Conoco's prior approved ground water investigation and remediation plan for the San Juan Basin.

- Farmington B Com #1	Unit H, Sec. 12, T29N, R12W.
- Farmington C Com #1	Unit L, Sec. 15, T29N, R13W.
- Farmington Com #1	Unit P, Sec. 11, T29N, R13W.
- Nell-Hall #1	Unit M, Sec. 07, T30N, R11W.
- Salmon #1	Unit P, Sec. 30, T29N, R11W.

2. The ground water metals data for the site listed below shows that the concentrations of barium, chromium and lead in ground water are above the New Mexico Water Quality Control Commission (WQCC) ground water standards. The OCD requires that Conoco conduct additional metals sampling at this site

- Farmington Com #1	Unit P, Sec. 11, T29N, R13W.

3. Some of the report site maps do not show the former locations of the pits, the excavated areas nor the locations of all monitor wells (former and current) . The OCD requires that Conoco include this information in future reports.

4. Some of the reports do not contain quarterly ground water potentiometric maps. The OCD requires that Conoco's future reports include ground water potentiometric maps for each sampling event. The maps will be created using the water table elevation in all site monitor wells.

5. Some of the report summary tables do not contain the results of all past water quality sampling. It is difficult for the OCD to evaluate remedial progress at a site without this data. The OCD requires that Conoco's future reports include summary tables that contain the results of all past and present water quality sampling.

If you have any questions, please call me at (505) 827-7154.

Sincerely,

William C. Olson
Hydrologist
Environmental Bureau

xc: Denny Foust, OCD Aztec District Office
Larry Trujillo, On Site Technologies, Ltd.

On Site Technologies, Ltd.

RECEIVED

FEB 27 1998

Environmental Bureau
Oil Conservation Division

Letter of Transmittal

ATTENTION: **DATE:** February 4, 1998

Mr. Bill Olson
New Mexico Oil Conservation Division
2040 South Pacheco
Santa Fe, New Mexico 87505

RE: Conoco's 1997 Annual Groundwater Report.

REMARKS:

Dear Mr. Olson:

On behalf of Conoco, ***On Site Technologies Limited Partnership***, is submitting the enclosed 1997 Annual Groundwater report for the twelve (12) sites

We are sending you:

No. Originals	No. Copies	Description
1		Farmington B Com 1, Unit H, Sec. 12, T29N, R12W
1		San Juan 28-7-19, Unit G, Sec. 25, T28N, R7W
1		San Juan 28-7-47, Unit A, Sec.20, T28N, R7W
1		San Juan 28-7-126, Unit M, Sec.1, T27N, R7W
1		San Juan 28-7-219, Unit N, Sec. 20, T28N, R7W
1		Shephard & Kelsey #1, Unit L, Sec. 29, T29N, R11W
1		Nell-Hall #1, Unit , Sec. 1, T30N, R11W
1		Farmington Com #1, Unit P, Sec. 11, T29N, R13W
1		Farmington C Com #1, Unit L, Sec. 15, T29N, R13W
1		Farmington B Com #1E, Unit O, Sec. 15, T29N, R13W
1		Salmon #1, Unit P Sec. 30, T29N, R11W
1		Shephard & Kelsey 1E, Unit D, Sec. 29, T29W, R11W

SIGNATURE:

Larry Trujillo
Sr. Environmental Technician

cc:
Denny Foust
Shirley Ebert
Neal Goates

C. John Coy
SHEAR Specialist
Exploration, Production &
Natural Gas, North America

RECEIVED
AUG 28 1997
Environmental Bureau
Oil Conservation Division

Conoco Inc.
3315 Bloomfield Hwy.
Farmington, NM 87401
Bus. (505) 324-5813
Fax (505) 324-5825

8/29/97 1500 hrs. Verbal approval given to John Coy voice mail William Olson

August 22, 1997

New Mexico Oil Conservation Division
Attn.: Mr. William C. Olson
2040 S. Pacheco
Santa Fe, New Mexico 87505

RE: NMOCD Letter Dated July 28, 1997 Regarding Conoco's Annual Pit Closure Summary and Ground Water Impacts

Dear Mr. Olson:

In response to and acknowledgement of the referenced letter, we offer the following item by item discussion and progress report.

1. General Conditions
   a. Ground water sampling conducted after August 10, 1997 will include analysis for cations/anions and RCRA metals from the well at the source on each location. If a sheen is noted, the water will also be analyzed for Polynuclear Aromatic Hydrocarbons (PAH). If the well at the source exhibits results above regulatory limits, additional wells at the location as well as future sampling events will be analyzed for those parameters. The results of these analyses will be included in subsequent annual reports.

   b. A comprehensive ground water remediation plan and long term ground water monitoring plan will be submitted to NMOCD as required by October 10, 1997.

   c. Future annual ground water reports will be submitted to NMOCD by March 1 of each year. Each site will be treated as a separate case and information presented will include:
      i. A summary of ground water remediation and monitoring activities for the prior calendar year.
      ii. A summary table of all past and present ground water quality analytical results with copies of laboratory analytical results for samples taken during the prior calendar year.
      iii. An updated site map showing the locations of relevant features (i.e. well head, pits, former pits, monitor wells, etc.)
      iv. A quarterly ground water potentiometric map.
      v. A geologic log and well completion diagram for each monitor well.

2. Status report of remedial actions for the Farmington Com #1, Farmington C Com #1, and Farmington B Com #1E; ground water remediation work plan for the Farmington B Com #1:

Conoco, Inc. has contracted with On Site Technologies Limited of Farmington, NM to determine a scope of work, solicit bids, procure and supervise a qualified excavation and hauling subcontractor to remove the impacted soils delineated in the April, 1997 Investigation Reports for each site. However, On Site has experienced considerable difficulty obtaining responses from contractors due to the intense level of activity in the San Juan Basin. Two bids have now been received and a contractor, Consolidated Constructors, selected based on both price and timely availability of equipment. Even so, due to prior commitments, that contractor cannot mobilize until after August 29, 1997. On Site plans to commence work on the Farmington C Com #1 and then the Farmington B Com #1E as soon as the contractor's schedule permits pending access permission from an adjacent landowner outside the C Com #1 location fence.

In addition to the difficulty of obtaining a contractor, we are aware that Merrion Oil, the current operator of these locations, has requested an extension until November, 1997 on the Farmington Com #1 based on a substantial risk to the public due to the proximity of the location to a City-owned public park and recreation area.

For the reasons given above, we request that an extension be granted for the soils remediation at the Farmington C Com #1, and Farmington B Com #1E until September 30, 1997 and at the Farmington Com #1 until the November date requested by Merrion Oil.

Furthermore, on the Farmington B Com #1 where the soil remediation has been completed, another ground water sample event is due in mid-September. We believe that the information from that event will be very helpful in developing an effective ground water remediation plan for the B Com #1. Additionally, the analyses specified in Item 1.a. have not been performed at this location and will be run on the September samples.

Regarding ground water remediation work plans, we request that extensions be granted for each site as noted below:

Farmington Com #1	November 30, 1997
Farmington C Com #1	October 10, 1997
Farmington B Com #1E	October 10, 1997
Farmington B Com #1	October 10, 1997

3. Status of the Sheperd & Kelsey #1E (Separator pit)

On August 19, 1997, On Site Technologies advanced four test holes, using a direct-punch probing system, in the area of the separator pit at the Shepard & Kelsey #1E for the purpose of determining the extent of ground water contamination. Soil samples were taken at the soil/water interface at approximately five feet below ground surface. Field headspace results for those samples ranged from 0.0 to 5.9 units. Cobbles were encountered at eight to ten feet below surface. Monitoring wells were installed in the two test holes with the highest headspace readings of 2.9 and 5.9 units. The wells were then developed and, the next day, sampled. The existing monitor well (MW 1) in the pit proper was also purged, tested for pH and conductivity, and sampled. MW 1 is being analyzed for BTEX, API Water suite, Total RCRA Metals, and Polynuclear Aromatic Hydrocarbons. Samples from MW 2 and MW 3, the new wells, are being analyzed for BTEX only as directed. A report delineating the extent of ground water contamination at this location will be prepared upon receipt of laboratory analytical results.

We hope that the information above meets with your approval and adequately addresses the requirements delineated in your letter of July 28, 1997. We will keep you and Mr. Denny Foust of your Aztec office advised of our progress on the Farmington locations. If you have any questions or need further information, please contact me at (505) 324-5813.

Sincerely,

C John Coy

C John Coy
Field SHEAR Specialist
CONOCO, Inc.

CJC/csg

xc: Neil Goates, Conoco, Inc.
Denny Foust, OCD Aztec District Office
Bill Liess, BLM Farmington District Office
Myke Lane, Cindy Gray, On Site Technologies

file: CONOCOCD.let

ANNUAL SUMMARY

PIT CLOSURES
AND
GROUND WATER IMPACT UPDATES

STATE OF NEW MEXICO
1996

RECEIVED

MAY 2 0 1997

Environmental Bureau
Oil Conservation Division

Each site filed under seperate case files

Midland Division
Exploration Production

Conoco Inc.
10 Desta Drive, Suite 100W
Midland, TX 79705-4500
(915) 686-5400

Certified Mail
P 895 104 872

April 25, 1997

Mr. Denny Fouts
New Mexico Oil Conservation Commission
1000 Rio Brazos Rd.
Aztec, NM 87410

Dear Mr. Fouts:

Re: NMOCD letters P-471-215-177, P-471-215-178 and P-471-215-179

Reference NMOCD letters of February 18, 1997 (P-471-215-177 and P-471-215-178) directed to Conoco Inc. and NMOCD letter of February 18, 1997 (P-471-215-179) directed to Merrion Oil and Gas Corporation.

This letter is intended to update NMOCD on the progress made to date to evaluate the alleged environmental contamination identified in the subject NMOCD letters. Evaluation work was timely commenced at all sites under Conoco's supervision. Initial results are being documented and evaluated. Where appropriate, possible remediation plans are being considered. As you are aware, ownership of the sites have changed hands several times, and we are in the process of developing proposed plans consistent with the contractual obligations of the successive owners. As soon as reasonably possible, NMOCD will be advised of proposed remediation plans where appropriate, to resolve the environmental matters addressed in the subject NMOCD letters.

Regards,

Carl J. Coy
Field SHEAR Specialist

cc: Merrion
Mesa
Bill Olson - NMOCD Santa Fe

Table of Contents

ON SITE
TECHNOLOGIES, LTD.

Revised: May 15, 1997

Conoco, Inc., Midland Division
Exploration and Production, North America
10 Desta Drive, Suite 100W
Midland, Texas 79705-4500

Attn.: Mr. Neal Goates, Senior Environmental Specialist

RE: Transmittal of Information for 1996 Annual NMOCD Reporting

Per your request and at Mr. C. John Coy's (Farmington Office) direction, we have compiled the attached information to assist you with the annual reporting to NMOCD. The information listed in Table 1 is included.

If there are any questions regarding this status report, please contact either Cindy Gray or Myke Lane at On Site Technologies, (505) 325-5667. Thank you for considering On Site to assist you with this matter.

Respectfully submitted,
On Site Technologies Limited Partnership

Michael K. Lane, P.E.
Senior Engineer

Enclosures: Table 1 & Listed Attachments

CC: C. John Coy (w/o attachments)
MKL/mkl

file: 41303.doc

PO Box 2606
Farmington, NM
PHONE: 505-325-5667 FAX: 505-327-1496

TABLE 1: CONOCO SUMMARY
Transmittal of Information for 1996 Annual NMOCD Reporting

On Site Technologies Limited Partnership
May 15, 1997

Project: 4-1303

Well	Date	Documents	Comments
Farmington Com #1	Apr. 18, 97	Site Assessment Brief w/ lab and QA/QC	Corrective Action to address soil and/or ground water contamination pending negotiations with former lease operator.
Farmington C Com #1	Apr. 22, 97	Site Assessment Brief w/ lab and QA/QC	Corrective Action to address soil and/or ground water contamination pending negotiations with former lease operator.
Farmington B Com #1E	Apr. 22, 97	Site Assessment Brief w/ lab and QA/QC	Corrective Action to address soil and/or ground water contamination pending negotiations with former lease operator.
Smith #1 & Drip Pit	Apr. 22, 97	Site Assessment Brief w/ lab and QA/QC	Corrective Action to address soil and/or ground water contamination pending negotiations with former lease operator.
Shepherd & Kelsey #1	Mar. 21, 97 July 18, 96 Mar. 20, 97	Summary of Monitor Well Install & Map Sample Results w/ QA/QC (IML) Sample Results w/ QA/QC (On Site)	Continue ground water monitoring for 3 additional quarters to verify RBCA.
Shepherd & Kelsey #1E (Dehy/Sep Pit)	Apr. 16, 97	Pit Assessment & Remediation Summary w/ lab and QA/QC	No further reclamation efforts recommended, and propose continued ground water monitoring until four consecutive sample events are "clean".
Shepherd & Kelsey #1E (Production Tank Spill)	Apr. 28, 97	Spill Assessment & Remediation Summary w/ lab and QA/QC	No further corrective action, with plug and abandonment of monitor well proposed.
Farmington B Com #1	Apr. 16, 97	Investigation & Remediation Summary w/ lab and QA/QC	No further reclamation efforts recommended, and propose continued ground water monitoring until four consecutive sample events are "clean".
Federal Com #15	Apr. 28,97	Site Assessment Summary	No further action.
Salmon #1	May 12, 97 July 17, 96 Mar. 18, 96 Mar. 26, 97	Corrective Action Proposal (On Site) Lab Reports & QA/QC (IML) Lab Reports & QA/QC (On Site) Lab Reports & QA/QC (On Site)	Additional excavation and treatment of contaminated soil down-gradient of original pit proposed.

TABLE 1: CONOCO SUMMARY
Transmittal of Information for 1996 Annual NMOCD Reporting

On Site Technologies Limited Partnership
May 15, 1997

Project: 4-1303

Well	Date	Documents	Comments
Nell Hall #1	June 14, 97 June 28, 96 July 12, 96 Apr. 1, 97	Lab Reports & QA/QC (IML) Lab Reports & QA/QC (IML) Lab Reports & QA/QC (IML) Letter regarding no water (On Site)	Due to seasonal low water table, propose annual sampling to be scheduled in June to Aug. with closure once two consecutive sample events show "clean".
SJ 28-7 #19	Mar. 12, 96 July 17, 96 Mar. 19, 97 Apr. 21, 97	Lab Reports & QA/QC (IML) Lab Reports & QA/QC (IML) Lab Reports & QA/QC (On Site) Lab Reports & QA/QC (On Site)	Continue ground water monitoring for four additional quarters.
SJ 28-7 #47	Mar. 12, 96 Apr. 15, 96 July 17, 96 Mar. 19, 97 Apr. 21, 97	Lab Reports & QA/QC (IML) Lab Reports & QA/QC (IML) Lab Reports & QA/QC (IML) Lab Reports & QA/QC (On Site) Lab Reports & QA/QC (On Site)	Continue ground water monitoring for four additional quarters.
SJ 28-7 #126	Mar. 12, 96 July 17, 96 Mar. 26, 97	Lab Reports & QA/QC (IML) Lab Reports & QA/QC (IML) Lab Reports & QA/QC (On Site)	Continue ground water monitoring for an additional quarter.
SJ 28-7 #219	Mar. 12, 96 July 17, 96 Mar. 26, 97	Lab Reports & QA/QC (IML) Lab Reports & QA/QC (IML) Lab Reports & QA/QC (On Site)	Continue ground water monitoring for two additional quarters.

'NEW MEXICO PIT DATA
'CONOCO INC.

TYPES OF PITS	
SEP: Separator Pit	BDP: Blowdown Pit
DHP: Dehydrator Pit	FGP: Fiberglass Tank Pit
CSP: CompressorScrubberPit	LDHP: Lined Dehy Pit
TDP: Tank Drip Pit	DRP: Drilling Reserve Pit
LDP: Line Drip Pit	NONE: No Pits

#	WELL NAME AND NUMBER	FEDERAL, STATE INDIAN CONTRACT NO. OR FEE	LOCATION	TYPES OF PITS	PIT SIZE	VULN. AREA	EXPANDED VULN. AREA	NON-VULN. AREA	OTHER PARTY PIT	DATE STOPPED FLOW TO PIT	DATE PIT REMED-IATION STARTED	DATE PIT CLOSED
	SENSITIVE AREA PITS - JICARILLA											
1	Apache No. 1	Contract #98	Unit D, Sec. 18-26N-3W	SEP	30' x 24' x 4'		X			Unknown		05/06/96
2	Apache No. 3E	Contract #98	Unit H, Sec. 19-26N-3W	TDP	18' x 17' x 3'		X			Unknown		04/25/96
3	Apache No. 7	Contract #98	Unit D, Sec. 20-26N-3W	SEP	44' x 30' x 6'		X			Unknown		04/25/96
4	AXI Apache J No. 22	Contract #147	Unit L, Sec. 6-25N-5W	SEP	37' x 36' x 3'		X			09/10/96		09/30/96
5	AXI Apache N No. 14	Contract #121	Unit C, Sec. 1-25N-4W	SEP	19' x 19' x 4'		X			03/27/96		04/15/96
6	AXI Apache N No. 16A	Contract #121	Unit C, Sec.12-25N-4W	DHP	18'X18'X3'		X			03/18/96		03/26/96
7	Jicarilla No. 3	Contract #12	Unit D, Sec. 31-26N-4W	SEP	28' x 22' x 4'		X			Unknown		08/05/96
8	Jicarilla No. 4	Contract #12	Unit L, Sec. 31-26N-4W	TDP	10' x 8' x 3'		X			Unknown		08/05/96
9	Jicarilla No. 8	Contract #12	Unit L, Sec. 32-26N-4W	SEP	35' x 27' x 4'		X			Unknown		08/15/96
10	Jicarilla No. 11	Contract #12	Unit G, Sec. 30-26N-4W	SEP	21' x 20' x 4'		X			Unknown		08/15/96
11	Jicarilla No. 11	Contract #12	Unit G, Sec. 30-26N-4W	TDP	22' x 22' x 4'		X			Unknown		08/15/96
12	Jicarilla No. 13	Contract #12	Unit G, Sec. 31-26N-4W	TDP	18' x 16' x 4'		X			Unknown		08/05/96
13	Jicarilla No. 14	Contract #12	Unit P, Sec. 31-26N-4W	SEP	19' x 18' x 3'		X			Unknown		08/07/96
14	Jicarilla No. 14	Contract #12	Unit P, Sec. 31-26N-4W	TDP	18' x 17' x 4'		X			Unknown		08/15/96
15	Jicarilla No. 17	Contract #12	Unit B, Sec. 32-26N-4W	SEP	17' x 16' x 4'		X			Unknown		08/15/96
16	Jicarilla No. 17	Contract #12	Unit B, Sec. 32-26N-4W	TDP	19' x 17' x 4'		X			Unknown		08/15/96
17	Jicarilla No. 18	Contract #12	Unit I, Sec. 32-26N-4W	SEP	28' x 22' x 4'		X			Unknown		08/15/96
18	Jicarilla No. 18	Contract #12	Unit I, Sec. 32-26N-4W	TDP	25' x 25' x 4'		X			Unknown		08/15/96
19	Jicarilla A No. 8	Contract # 105	Unit E, Sec 23-26N-4W	SEP	20'x20'x3'		X			06/26/96		07/25/96
20	Jicarilla A No. 9	Contract # 105	Unit C, Sec 14-26N-4W	TDP	10'x10'x5'		X			05/15/96		05/22/96
21	Jicarilla A No. 10	Contract # 105	Unit D, Sec 23-26N-4W	SEP	16'x16'x4'		X			06/11/96		06/26/96
22	Jicarilla A No. 13	Contract # 105	Unit E, Sec 13-26N-4W	TDP	16'x16'x4'		X			05/08/96		05/15/96
23	Jicarilla B No. 2	Contract # 106	Unit K, Sec 25-26N-4W	BDP	15'x25'x3'		X			Unknown		07/25/96
24	Jicarilla B No. 8	Contract # 106	Unit K, Sec 25-26N-4W	SEP	10'x15'x3'		X			06/06/96		06/26/96
25	Jicarilla B No. 9	Contract # 106	Unit K, Sec 26-26N-4W	SEP	15'x15'x2'		X			05/22/96		05/31/96
26	Jicarilla B No. 9A	Contract # 106	Unit D, Sec 26-26N-4W	SEP	18'x18'x3'		X			06/10/96		08/15/96
27	Jicarilla B No. 13	Contract # 106	Unit M, Sec 36-26N-4W	SEP	16'x18'x4'		X			03/27/96		03/29/96
28	Jicarilla B No. 15	Contract # 106	Unit J, Sec 36-26N-4W	SEP	12'x12'x2'		X			03/29/96		03/29/96
29	Jicarilla D No. 11	Contract # 100	Unit A, Sec 29-26N-3W	TDP	12'x14'x4'		X			04/04/96		04/15/96
30	Jicarilla D No. 17	Contract # 100	Unit D, Sec 29-26N-3W	TDP	16'x18'x3'		X			04/09/96		04/15/96
31	Jicarilla D No. 18	Contract # 100	Unit A, Sec 30-26N-3W	SEP	15'x15'x2'		X			04/12/96		04/15/96
32	Jicarilla E No. 6	Contract # 104	Unit B, Sec 21-26N-4W	TDP	18'x18'x3'		X			07/29/96		08/15/96
33	Jicarilla E No. 8	Contract # 104	Unit C, Sec 15-26N-4W	TDP	10'x10'x3'		X			06/05/96		06/21/96
34	Jicarilla E No. 14	Contract # 104	Unit D, Sec 15-26N-4W	CSP	10'x12'x3'		X			03/25/96		06/05/96
35	Jicarilla K No. 12E	Contract No. 145	Unit M, Sec 02-25N-5W	SEP	12'x14'x3'		X			Unknown		09/24/96
36	Jicarilla K No. 15	Contract No. 145	Unit I, Sec 01-25N-5W	SEP	14'x16'x2'		X			08/26/96		09/03/96
37	Jicarilla K No. 22	Contract No. 145	Unit M, Sec 02-25N-5W	SEP	12'x14'x4'		X			Unknown		10/02/96
38	Jicarilla K No. 22A	Contract No. 145	Unit O, Sec 02-25N-5W	SEP	10'x10'x01'		X			Unknown		09/24/96

39	Tribal No. 2	Fed. 6090001150	Unit L, Sec. 9-26N-3W	SEP	30' x 24' x 6'		X			Unknown		05/06/96
40	Tribal No. 2	Fed. 6090001150	Unit L, Sec. 9-26N-3W	TDP	24' x 17' x 4'		X			Unknown		05/06/96

NON - SENSITIVE AREA PITS - JICARILLA

1	AXI Apache N No. 11A	Contract #121	Unit B, Sec. 12-25N-4W	SEP	22' x 19' x 3'			X		Unknown		03/22/96
2	AXI Apache N No. 12A	Contract #121	Unit L, Sec. 11-25N-4W	SEP	21' x 21' x 4'			X		03/22/96		03/29/96
3	AXI Apache N No.14A	Contract #121	Unit K, Sec. 1-25N-4W	SEP	19'x19'x3'			X		Unknown		03/22/96
4	AXI Apache N No. 12	Contract #121	Unit C, Sec. 11-25N-4W	SEP	20' x 18' x 3'			X		03/25/96		03/26/96
5	AXI Apache N No. 13	Contract #121	Unit G, Sec. 2-25N-4W	SEP	22' x 21' x 3'			X		03/25/96		03/29/96
6	AXI Apache O No. 10	Contract #122	Unit J, Sec. 3-25N-4W	SEP	23' x 21' x 3'			X		03/20/96		03/25/96
7	Jicarilla D No. 11A	Contract # 100	Unit P, Sec 29-26N-3W	TDP	16'x16'x3'			X		04/19/96		04/22/96
8	Jicarilla D No. 13	Contract # 100	Unit A, Sec 32-26N-3W	TDP	15'x15'x2'			X		04/16/96		04/22/96
9	Jicarilla D No. 13A	Contract # 100	Unit P, Sec 32-26N-3W	SEP	20'x20'x2'			X		04/15/96		04/22/96
10	Jicarilla D No. 19	Contract # 100	Unit I, Sec 31-26N-3W	TDP	25'x28'x2'			X		04/25/96		05/03/96
11	Jicarilla D No. 20	Contract # 100	Unit N, Sec 31-26N-3W	TDP	20'x30'x4'			X		04/25/96		05/03/96

ON SITE
TECHNOLOGIES, LTD.

April 28, 1997

RECEIVED
MAY 20 1997
Environmental Bureau
Oil Conservation Division

Conoco, Inc., Midland Division
Exploration and Production, North America
10 Desta Drive, Suite 100W
Midland, Texas 79705-4500

Attn.: Mr. Neal Goates, Senior Environmental Specialist

RE: Former Production Tank Leak
Assessment and Remediation
Conoco Location Shepherd & Kelsey #1E
Unit D, Sec. 29, T29N, R11W, NMPM, San Juan Co., NM

The following report is intended to continue the documentation of events and activities with regards to a hydrocarbon release at the above location and to inform interested parties of the current status of the remediation, reclamation, and investigation.

INITIAL FIELD INVESTIGATIONS

On November 11, 1996, Mr.Larry Gomez, land owner's representative and Mr. Denny Foust, Oil and Gas Inspector for the New Mexico Oil Conservation Division (NMOCD), noted that the production tank on the referenced well location operated by Conoco had corroded at the base and was leaking water within the bermed impoundment.

At NMOCD's request, Conoco removed the production tank and repiped all produced liquids to a new tank in a different bermed impoundment on the well location.

During the upgrade on November 18, 1996, Cindy Gray of On Site Technologies collected soil samples from exploratory backhoe test holes to project the extent of soil contamination resulting from the tank leak. As a follow-up on November 18, 1996, Mr. Robert Crabb of On Site advanced seven additional test holes by hand auger to complete the assessment. Ground water was not encountered in any of the test holes.

Grab soil samples were collected from each test hole off the backhoe bucket or augered cuttings at three to six feet (the apparent depth of soil contamination). Samples were field tested for volatile hydrocarbons per the NMOCD Field Heated Headspace Method. Selected split samples were also collected in 4 oz. glass containers with Teflon® closures, labeled, and placed on ice for delivery to the

PO Box 2606
Farmington, NM
PHONE: 505-325-5667 FAX: 505-327-1496

laboratory. Lab samples were tested for Total Petroleum Hydrocarbons (TPH) per EPA Method 8015M and for volatile organics (i.e. BTEX) per EPA Method 8020.

Based on the results of the November 1996 sampling, significant soil contamination from hydrocarbons was found and appeared to be limited to the former bermed impoundment.

Figure 1 shows the approximate location of the test holes and Table 1 summarizes the soil and lab testing for the preliminary investigations. The attached laboratory package contains copies of the laboratory reports and QA/QC documentation.

REMEDIAL ACTIONS

Due to the proximity of the site to a residential water supply well, the San Juan River, and shallow depth to groundwater, NMOCD directed that the operator, Conoco, assess and remediate contaminated soils from the tank leak.

On February 12 and 13, 1996, approximately 180 cubic yards of soil were excavated from the former production tank impoundment area. The excavation extended to a maximum depth of six feet in the approximate center of the impoundment and averaged roughly three feet overall. Refer to Figure 2 for the approximate location and dimensions of the excavation.

Myke Lane of On Site monitored the soil removal efforts and collected verification samples for closure. Grab samples were taken from the excavation bottom and sidewalls. Samples were field screened for volatile hydrocarbons using a PID to monitor the progress. When field screening indicated that closure levels of <100 parts per million TPH, < 50 ppm BTEX, and <10 ppm Benzene had been reached in the soils, record samples were taken for laboratory analysis. Table 2 summarizes the results of the remediation effort. The vertical and lateral extent of excavation was carried to the limits of the apparent soil contamination as noted during the excavation efforts. Due to snow and rain on February 13, 1997, the excavation was backfilled before lab verification of the soil samples. Based on the lab results, only a small amount of residual soil contamination above NMOCD standards remains in the area of samples #23.

Earth-moving equipment and personnel were provided by Rosenbaum Construction. Excavated contaminated material was transported for off-site disposal at the Envirotech NMOCD Permitted Landfarm at Hilltop south of Farmington.

Immediately following the remediation effort described above and at the request of NMOCD, a test hole was advanced to fourteen feet with the Trackhoe in the down-gradient portion of the excavated area and a temporary monitor well was installed (Refer to Sheet 2). The well was constructed of 2 inch Sch. 40 PVC with 10 feet of 0.010 inch slotted pipe. The test hole was backfilled with the same clean imported sandy soil used to backfill the excavation. As the monitor well was intended to be temporary, no bentonite seal or permanent surface protector was constructed for the

well. Following installation, the well was developed by removing approximately ten well volumes or until dry, and allowed to stabilize for approximately one month before sampling.

On March 20, 1997, a water sample was collected from the well. Prior to sampling, the well was purged by bailing approximately three well volumes. The sample was placed in 40 ml VOA glass vials, labeled and placed on ice for delivery to the lab. The sample was analyzed for BTEX per EPA Method 8020. Table 2 summarizes monitor well lab results obtained after the remedial activities. The attached laboratory package contains copies of the laboratory reports and QA/QC documentation.

SUMMARY AND CONCLUSIONS:

The following conclusions are based on the aforementioned site investigations and remedial efforts taken in the area of a former production tank leak at the Shepherd and Kelsey #1E well location:

1. Soil contamination from TPH and BTEX was identified immediately adjacent to the production tank.
2. An effort was made to remove heavily impacted soils in the apparent former source area. Soils were excavated to the extent of TPH and BTEX contamination, and only a relatively minor amount of contamination remains. However, since the removal of contaminated source soils, the level of residual soil contamination is anticipated to decrease rapidly. Excavated soils were removed off site for treatment and disposal.
3. Shallow ground water does not appear to have been impacted by the tank leak, based on lab results that indicate no BTEX contamination above the New Mexico Water Quality Control Commission (NMWQCC) standards.

RECOMMENDATIONS:

Further investigation or remedial efforts do not appear to be warranted. The monitor well should be removed and plugged following NMOCD standards to avoid possible migration of surface spills to ground water.

LIMITATIONS AND CLOSURE:

This summary documents visual observations of the site, subsurface conditions encountered during Phase II investigations and soil remediation efforts, and analysis of soil and groundwater samples collected during the various corrective actions. This summary does not reflect subsurface variations which may exist between sampling points, or subsurface changes which may occur due to seasonal variations.

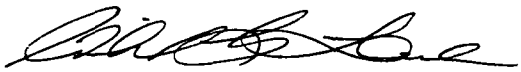
The scope of our services consisted of the performance of a preliminary investigation, project management and sampling during soil remediation efforts, installation of one monitoring well to assess the possible ground water impact, field and lab testing of soil and water for hydrocarbon contamination, and preparation of a summary. All work has

been performed in accordance with generally accepted professional practices in geotechnical, petroleum and environmental engineering, and hydrogeology.

This document has been prepared by On Site Technologies for the exclusive use of Conoco Inc. as it pertains to the referenced well location operated by Conoco.

If there are any questions regarding this status report, please contact either Cindy Gray or Myke Lane at On Site Technologies, (505) 325-5667. Thank you for allowing On Site to assist you with this matter.

Respectfully submitted,
On Site Technologies, Limited Partnership



Michael K. Lane, P.E.
Senior Engineer

Attachments: Table 1: Assessment Results
Table 2: Remediation Results
Figure 1: Site Assessment/Remediation Sketch
Laboratory Package with QA/QC and Chain-of-Custody Forms

CC: C. John Coy, Farmington Office

MKL/mkl

file: 41303-5a.doc

TABLE 1: SUMMARY PRELIMINARY ASSESSMENTS
TANK LEAK
SHEPHERD & KELSEY #1E
Unit D, Sec. 29, T29N, R11W, NMPM
SAN JUAN COUNTY, NM

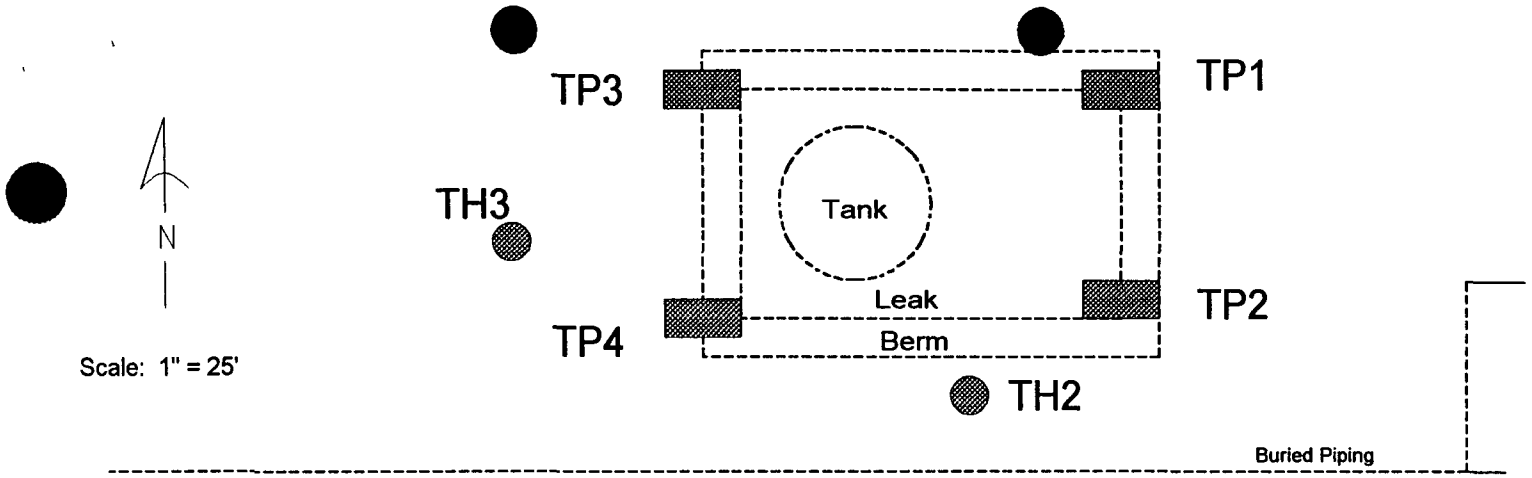
SAMPLE LOCATION	DATE	DEPTH[1] (ft)	PID[2] (units)	Benzene (ppm)	Total BTEX[3] (ppm)	TPH[4] (ppm)
TP-1	11/18/96	4.0	2.3			
TP-2	11/18/96	3.0	>2500			
TP-2	11/18/96	3.5	1.0			
TP-3	11/18/96	6.0	2.3			
TP-4	11/18/96	3.0	55.6			
TH-1	11/20/97	5.0	35.9			
TH-2	11/20/96	3.0	125	0.027	0.049	<5.0
TH-2	11/20/96	5.0	43.7	0.0039	0.011	<5.0
TH-3	11/20/96	5.0	88.6			
TH-4	11/20/96	5.0	65.9			
TH-5	11/20/96	5.0	94.5			
TH-6	11/20/96	5.0	42.2			
TH-7	11/20/96	1.5	3.0		0.017	<5.0
TH-7	11/20/96	3.0	43.7		0.012	<5.0
TH-7	11/20/96	5.0	22.7		0.004	<5.0
NMOCD Action Levels	Feb. 1993	SOIL	100	10	50	100

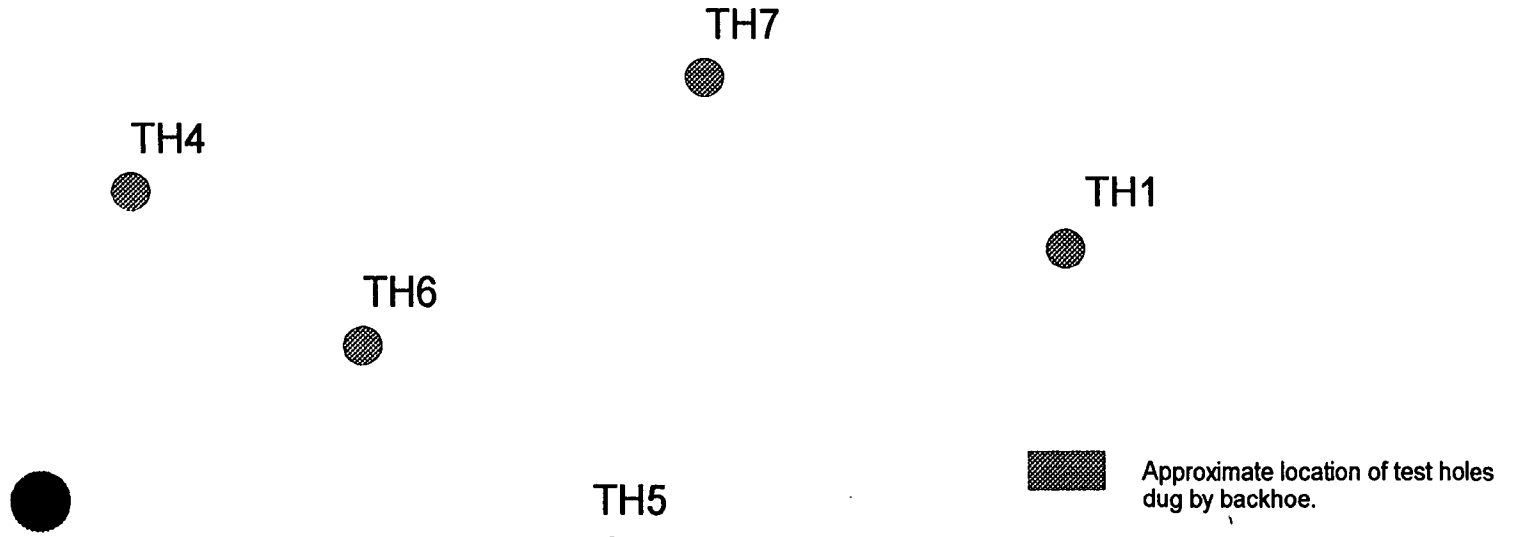
Notes:
(1) Depth below ground surface.
(2) PID: Results of field headspace samples measured with an organic vapor meter equipped with a photoionization detector, and Benzene Response Factor of 0.56.
(3) BTEX: Benzene, Toluene, Ethyl-benzene, and total Xylenes measure by EPA Method 8020.
(4) TPH: Total Petroleum Hydrocarbons as measured by EPA Method 8015 (mod.).
(5) ND: Not detected, NA: Not Applicable.

TABLE 2: SUMMARY TANK LEAK REMEDIATION
SHEPHERD & KELSEY #1E
Unit D, Sec. 29, T29N, R11W, NMPM
SAN JUAN COUNTY, NM

SAMPLE	DATE	DEPTH[1] (ft)	PID[2] (units)	Benzene (ppm)	Total BTEX[3] (ppm)	TPH[4] (ppm)
#1	2/12/97	5.0	ND			<6.0
#2	2/12/97	5.0	ND			
#3	2/12/97	4.5	4.0			
#4	2/12/97	4.0	15.0			
#5	2/12/97	4.0	65.0	<0.0002	0.0385	<6.0
#6	2/12/97	4.0	>2500	Resample	#8	
#7	2/12/97	3.5	>2500	Resample	#9	
#8	2/12/97	5.0	ND			<6.0
#9	2/12/97	5.0	5.8			<6.0
#10	2/12/97	6.0	52.3			<6.0
#11	2/12/97	5.0	8.0			
#12	2/12/97	5.0	17.8	0.208	0.235	<6.0
#13	2/12/97	5.0	5.8			
#14	2/12/97	4.0	9.3			
#15	2/12/97	4.0	24.9			<6.0
#16	2/12/97	4.0	3.5			
#17	2/12/97	1.5	92.2	0.137	1.117	4.9
#18	2/12/97	1.5	2.2			
#19	2/12/97	3.0	45.0			<6.0
#20	2/12/97	10.0	3.0			
#21	2/13/96	2.0	6.9			
#22	2/13/96	2.0	15.9			
#23	2/13/96	2.0	50.9			163.1
#24	2/13/96	2.0	26.7			
MW	3/20/97	WATER	NA	ND	ND	NA
NMOCD Action Levels	Feb. 1993	SOIL WATER	100 --	10 0.010	50 --	100 --

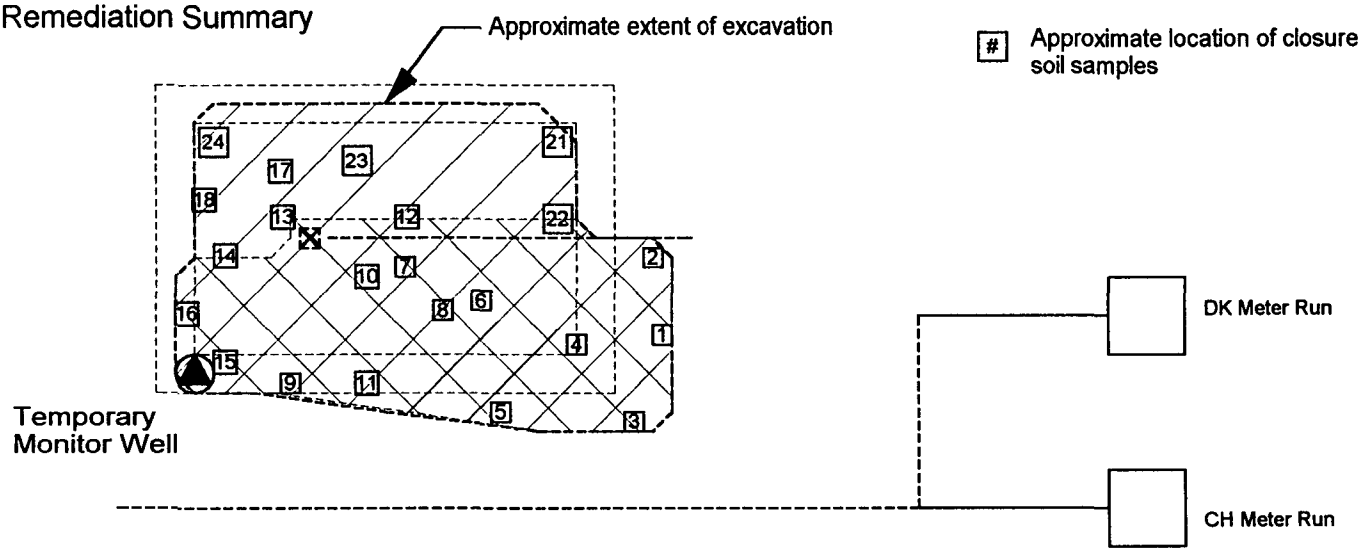
Notes:
(1) Depth below ground surface.
(2) PID: Results of field headspace samples measured with an organic vapor meter equipped with a photoionization detector, and Benzene Response Factor of 0.56.
(3) BTEX: Benzene, Toluene, Ethyl-benzene, and total Xylenes measure by EPA Method 8020.
(4) TPH: Total Petroleum Hydrocarbons as measured by EPA Method 8015 (mod.).
(5) ND: Not detected, NA: Not Applicable.
(6) Samples #6 and #7: areas resampled following additional excavation, refer to samples #8 and #9.





Preliminary Site Assessment

Remediation Summary



SHEPHERD & KELSEY #1E NE/NE, Sec. 29, T29W, R11W SAN JUAN BASIN, NM		FORMER PRODUCTION TANK IMPOUNDMENT	ON SITE TECHNOLOGIES, LTD. P.O. BOX 2606, FARMINGTON, NM 87499 (505) 325-5667
		DRWN: 04-28-97	
PROJECT NO: 4-1303-5		DRWN BY: MKL	
FIGURE: 1	FILE: 41303S4.CAD	PROJECT: ASSESSMENT & CLEANUP	

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

TPH - Gasoline / Diesel Range Organics

Attn:	*Myke Lane*	Date:	22-Nov-96
Company:	*On Site Technologies, Ltd. c/o Conoco, Inc.*	*COC No.:*	*6205*
Address:	*612 E. Murray Drive*	*Sample No.*	*12947*
City, State:	*Farmington, NM 87401*	*Job No.*	*4-1303*

Project Name:	***Conoco - Shepperd-Kelsey E-1***				
Project Location:	***TH-2 @ 3'***				
Sampled by:	RLC	Date:	20-Nov-96	Time:	9:25
Analyzed by:	DC/HR	Date:	21-Nov-96		
Sample Matrix:	*Soil*				

Laboratory Analysis

Parameter	*Result*	*Unit of Measure*	*Detection Limit*	*Unit of Measure*
Gasoline Range Organics (C5 - C9)	<5.0	mg/kg	5.0	mg/kg
Diesel Range Organics (C10 - C28)	<5.0	mg/kg	5.0	mg/kg
TOTAL	<5.0	mg/kg		

Quality Assurance Report

GRO QC No.: *0480-STD*
DRO QC No.: *0512-STD*

Calibration Check

Parameter	*Method Blank*	*Unit of Measure*	*True Value*	*Analyzed Value*	*% Diff*	*Limit*
Gasoline Range (C5 - C9)	<50	ppb	1,801	1,817	0.9	15%
Diesel Range (C10 - C28)	<5.0	ppm	100	105	4.8	15%

Matrix Spike

Parameter	*1- Percent Recovered*	*2 - Percent Recovered*	*Limit*	*%RSD*	*Limit*
Gasoline Range (C5-C9)	103	100	(70-130)	2	20%
Diesel Range (C10-C28)	109	107	(70-130)	1	20%

Method *- SW-846 EPA Method 8015A mod. - Nonhalogenated Volatile Hydrocarbons by Gas Chromatography*

Approved by:
Date: 11/22/96

OFF: (505) 325-5667

ON SITE
TECHNOLOGIES, LTD.

LAB: (505) 325-1556

AROMATIC VOLATILE ORGANICS

Attn:	*Myke Lane*	Date:	22-Nov-96
Company:	*On Site Technologies, Ltd. c/o Conoco, Inc.*	*COC No.:*	*6205*
Address:	*612 E. Murray Drive*	*Sample No.*	*12947*
City, State:	*Farmington, NM 87401*	*Job No.*	*4-1303*

Project Name:	***Conoco - Shepperd-Kelsey E-1***				
Project Location:	***TH-2 @ 3'***				
Sampled by:	RLC	Date:	20-Nov-96	Time:	9:25
Analyzed by:	DC	Date:	21-Nov-96		
Sample Matrix:	*Soil*				

Laboratory Analysis

Parameter	*Result*	*Units of Measure*	*Detection Limit*	*Units of Measure*
Benzene	27.2	ug/kg	0.2	ug/kg
Toluene	8.0	ug/kg	0.2	ug/kg
Ethylbenzene	1.4	ug/kg	0.2	ug/kg
m,p-Xylene	9.3	ug/kg	0.2	ug/kg
o-Xylene	2.9	ug/kg	0.2	ug/kg
TOTAL	48.8	ug/kg		

Method - *SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography*

Approved by: JaC
Date: 11/22/96

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

TPH - Gasoline / Diesel Range Organics

Attn:	*Myke Lane*	Date:	22-Nov-96
Company:	*On Site Technologies, Ltd. c/o Conoco, Inc.*	*COC No.:*	*6205*
Address:	*612 E. Murray Drive*	*Sample No.*	*12948*
City, State:	*Farmington, NM 87401*	*Job No.*	*4-1303*

Project Name:	***Conoco - Shepperd-Kelsey E-1***				
Project Location:	***TH-2 @ 5'***				
Sampled by:	RLC	Date:	20-Nov-96	Time:	9:40
Analyzed by:	DC/HR	Date:	21-Nov-96		
Sample Matrix:	*Soil*				

Laboratory Analysis

Parameter	*Result*	*Unit of Measure*	*Detection Limit*	*Unit of Measure*
Gasoline Range Organics (C5 - C9)	<5.0	mg/kg	5.0	mg/kg
Diesel Range Organics (C10 - C28)	<5.0	mg/kg	5.0	mg/kg
TOTAL	<5.0	mg/kg		

Quality Assurance Report

GRO QC No.: *0480-STD*
DRO QC No.: *0512-STD*

Calibration Check

Parameter	*Method Blank*	*Unit of Measure*	*True Value*	*Analyzed Value*	*% Diff*	*Limit*
Gasoline Range (C5 - C9)	<50	ppb	1,801	1,817	0.9	15%
Diesel Range (C10 - C28)	<5.0	ppm	100	105	4.8	15%

Matrix Spike

Parameter	*1- Percent Recovered*	*2 - Percent Recovered*	*Limit*	*%RSD*	*Limit*
Gasoline Range (C5-C9)	103	100	(70-130)	2	20%
Diesel Range (C10-C28)	109	107	(70-130)	1	20%

Method - *SW-846 EPA Method 8015A mod. - Nonhalogenated Volatile Hydrocarbons by Gas Chromatography*

Approved by:
Date: 11/22/96

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

AROMATIC VOLATILE ORGANICS

Attn:	*Myke Lane*	Date:	22-Nov-96
Company:	*On Site Technologies, Ltd. c/o Conoco, Inc.*	*COC No.:*	*6205*
Address:	*612 E. Murray Drive*	*Sample No.*	*12948*
City, State:	*Farmington, NM 87401*	*Job No.*	*4-1303*

Project Name:	***Conoco - Shepperd-Kelsey E-1***				
Project Location:	***TH-2 @ 5'***				
Sampled by:	RLC	Date:	20-Nov-96	Time:	9:40
Analyzed by:	DC	Date:	21-Nov-96		
Sample Matrix:	*Soil*				

Laboratory Analysis

Parameter	*Result*	*Units of Measure*	*Detection Limit*	*Units of Measure*
Benzene	3.9	ug/kg	0.2	ug/kg
Toluene	3.3	ug/kg	0.2	ug/kg
Ethylbenzene	<0.2	ug/kg	0.2	ug/kg
m,p-Xylene	2.5	ug/kg	0.2	ug/kg
o-Xylene	0.7	ug/kg	0.2	ug/kg
TOTAL	10.5	ug/kg		

Method - *SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography*

Approved by: DaG

Date: 11/22/96

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

TPH - Gasoline / Diesel Range Organics

Attn:	*Myke Lane*	Date:	22-Nov-96
Company:	*On Site Technologies, Ltd. c/o Conoco, Inc.*	*COC No.:*	*6205*
Address:	*612 E. Murray Drive*	*Sample No.*	*12944*
City, State:	*Farmington, NM 87401*	*Job No.*	*4-1303*

Project Name:	***Conoco - Shepperd-Kelsey E-1***				
Project Location:	***TH-7 @ 18"***				
Sampled by:	RLC	Date:	20-Nov-96	Time:	11:25
Analyzed by:	DC/HR	Date:	21-Nov-96		
Sample Matrix:	*Soil*				

Laboratory Analysis

Parameter	*Result*	*Unit of Measure*	*Detection Limit*	*Unit of Measure*
Gasoline Range Organics (C5 - C9)	<5.0	mg/kg	5.0	mg/kg
Diesel Range Organics (C10 - C28)	<5.0	mg/kg	5.0	mg/kg
TOTAL	<5.0	mg/kg		

Quality Assurance Report

GRO QC No.: *0480-STD*
DRO QC No.: *0512-STD*

Calibration Check

Parameter	*Method Blank*	*Unit of Measure*	*True Value*	*Analyzed Value*	*% Diff*	*Limit*
Gasoline Range (C5 - C9)	<50	ppb	1,801	1,817	0.9	15%
Diesel Range (C10 - C28)	<5.0	ppm	100	104	4.2	15%

Matrix Spike

Parameter	*1- Percent Recovered*	*2 - Percent Recovered*	*Limit*	*%RSD*	*Limit*
Gasoline Range (C5-C9)	103	100	(70-130)	2	20%
Diesel Range (C10-C28)	109	107	(70-130)	1	20%

Method *- SW-846 EPA Method 8015A mod. - Nonhalogenated Volatile Hydrocarbons by Gas Chromatography*

Approved by:
Date: 11/22/96

OFF: (505) 325-5667

ON SITE
TECHNOLOGIES, LTD.

LAB: (505) 325-1556

AROMATIC VOLATILE ORGANICS

Attn:	*Myke Lane*	Date:	22-Nov-96
Company:	*On Site Technologies, Ltd. c/o Conoco, Inc.*	*COC No.:*	*6205*
Address:	*612 E. Murray Drive*	*Sample No.*	*12944*
City, State:	*Farmington, NM 87401*	*Job No.*	*4-1303*

Project Name:	***Conoco - Shepperd-Kelsey E-1***				
Project Location:	***TH-7 @ 18"***				
Sampled by:	RLC	Date:	20-Nov-96	Time:	11:25
Analyzed by:	DC	Date:	21-Nov-96		
Sample Matrix:	*Soil*				

Laboratory Analysis

Parameter	*Result*	*Units of Measure*	*Detection Limit*	*Units of Measure*
Benzene	0.7	ug/kg	0.2	ug/kg
Toluene	8.1	ug/kg	0.2	ug/kg
Ethylbenzene	2.9	ug/kg	0.2	ug/kg
m,p-Xylene	5.6	ug/kg	0.2	ug/kg
o-Xylene	<0.2	ug/kg	0.2	ug/kg
TOTAL	17.3	ug/kg		

Method - *SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography*

Approved by:
Date: 11/22/96

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

TPH - Gasoline / Diesel Range Organics

Attn:	*Myke Lane*	Date:	22-Nov-96
Company:	*On Site Technologies, Ltd. c/o Conoco, Inc.*	*COC No.:*	*6205*
Address:	*612 E. Murray Drive*	*Sample No.*	*12945*
City, State:	*Farmington, NM 87401*	*Job No.*	*4-1303*

Project Name:	***Conoco - Shepperd-Kelsey E-1***				
Project Location:	***TH-7 @ 3'***				
Sampled by:	RLC	Date:	20-Nov-96	Time:	11:30
Analyzed by:	DC/HR	Date:	21-Nov-96		
Sample Matrix:	*Soil*				

Laboratory Analysis

Parameter	*Result*	*Unit of Measure*	*Detection Limit*	*Unit of Measure*
Gasoline Range Organics (C5 - C9)	<5.0	mg/kg	5.0	mg/kg
Diesel Range Organics (C10 - C28)	<5.0	mg/kg	5.0	mg/kg
TOTAL	<5.0	mg/kg		

Quality Assurance Report

GRO QC No.: *0480-STD*
DRO QC No.: *0512-STD*

Calibration Check

Parameter	*Method Blank*	*Unit of Measure*	*True Value*	*Analyzed Value*	*% Diff*	*Limit*
Gasoline Range (C5 - C9)	<50	ppb	1,801	1,817	0.9	15%
Diesel Range (C10 - C28)	<5.0	ppm	100	104	4.2	15%

Matrix Spike

Parameter	*1- Percent Recovered*	*2 - Percent Recovered*	*Limit*	*%RSD*	*Limit*
Gasoline Range (C5-C9)	103	100	(70-130)	2	20%
Diesel Range (C10-C28)	109	107	(70-130)	1	20%

Method *- SW-846 EPA Method 8015A mod. - Nonhalogenated Volatile Hydrocarbons by Gas Chromatography*

Approved by:
Date: 11/22/96

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

AROMATIC VOLATILE ORGANICS

Attn:	*Myke Lane*	Date:	22-Nov-96
Company:	*On Site Technologies, Ltd. c/o Conoco, Inc.*	*COC No.:*	*6205*
Address:	*612 E. Murray Drive*	*Sample No.*	*12945*
City, State:	*Farmington, NM 87401*	*Job No.*	*4-1303*

Project Name:	***Conoco - Shepperd-Kelsey E-1***				
Project Location:	***TH-7 @ 3'***				
Sampled by:	RLC	Date:	20-Nov-96	Time:	11:30
Analyzed by:	DC	Date:	21-Nov-96		
Sample Matrix:	*Soil*				

Laboratory Analysis

Parameter	*Result*	*Units of Measure*	*Detection Limit*	*Units of Measure*
Benzene	0.8	ug/kg	0.2	ug/kg
Toluene	8.5	ug/kg	0.2	ug/kg
Ethylbenzene	<0.2	ug/kg	0.2	ug/kg
m,p-Xylene	3.0	ug/kg	0.2	ug/kg
o-Xylene	<0.2	ug/kg	0.2	ug/kg
TOTAL	12.3	ug/kg		

Method - *SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography*

Approved by:

Date: 11/22/96

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

TPH - Gasoline / Diesel Range Organics

Attn:	*Myke Lane*	Date:	22-Nov-96
Company:	*On Site Technologies, Ltd. c/o Conoco, Inc.*	*COC No.:*	*6205*
Address:	*612 E. Murray Drive*	*Sample No.*	*12946*
City, State:	*Farmington, NM 87401*	*Job No.*	*4-1303*

Project Name:	***Conoco - Shepperd-Kelsey E-1***				
Project Location:	***TH-7 @ 5'***				
Sampled by:	RLC	Date:	20-Nov-96	Time:	11:40
Analyzed by:	DC/HR	Date:	21-Nov-96		
Sample Matrix:	*Soil*				

Laboratory Analysis

Parameter	*Result*	*Unit of Measure*	*Detection Limit*	*Unit of Measure*
Gasoline Range Organics (C5 - C9)	<5.0	mg/kg	5.0	mg/kg
Diesel Range Organics (C10 - C28)	<5.0	mg/kg	5.0	mg/kg
TOTAL	<5.0	mg/kg		

Quality Assurance Report

GRO QC No.: *0480-STD*
DRO QC No.: *0512-STD*

Calibration Check

Parameter	*Method Blank*	*Unit of Measure*	*True Value*	*Analyzed Value*	*% Diff*	*Limit*
Gasoline Range (C5 - C9)	<50	ppb	1,801	1,817	0.9	15%
Diesel Range (C10 - C28)	<5.0	ppm	100	105	4.8	15%

Matrix Spike

Parameter	*1- Percent Recovered*	*2 - Percent Recovered*	*Limit*	*%RSD*	*Limit*
Gasoline Range (C5-C9)	103	100	(70-130)	2	20%
Diesel Range (C10-C28)	109	107	(70-130)	1	20%

Method - *SW-846 EPA Method 8015A mod. - Nonhalogenated Volatile Hydrocarbons by Gas Chromatography*

Approved by:
Date: 11/22/96

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

AROMATIC VOLATILE ORGANICS

Attn:	*Myke Lane*	Date:	22-Nov-96
Company:	*On Site Technologies, Ltd. c/o Conoco, Inc.*	*COC No.:*	*6205*
Address:	*612 E. Murray Drive*	*Sample No.*	*12946*
City, State:	*Farmington, NM 87401*	*Job No.*	*4-1303*

Project Name:	***Conoco - Shepperd-Kelsey E-1***				
Project Location:	***TH-7 @ 5'***				
Sampled by:	RLC	Date:	20-Nov-96	Time:	11:40
Analyzed by:	DC	Date:	21-Nov-96		
Sample Matrix:	*Soil*				

Laboratory Analysis

Parameter	*Result*	*Units of Measure*	*Detection Limit*	*Units of Measure*
Benzene	<0.2	ug/kg	0.2	ug/kg
Toluene	3.2	ug/kg	0.2	ug/kg
Ethylbenzene	<0.2	ug/kg	0.2	ug/kg
m,p-Xylene	1.1	ug/kg	0.2	ug/kg
o-Xylene	<0.2	ug/kg	0.2	ug/kg
TOTAL	4.3	ug/kg		

Method - *SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography*

Approved by: Dan F
Date: 11/22/96

OFF: (505) 325-5667

ON SITE
TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Attn:	*Michael K. Lane*	Date:	18-Feb-97
Company:	*On Site Technologies, Ltd. c/o Conoco*	COC No.:	*5008*
Address:	*612 E. Murray Drive*	Sample No.:	*13677*
City, State:	*Farmington, NM 87401*	Job No.:	*4-1303*

Project Name:	***Conoco - Shepherd & Kelsey 1E Former Tank Battery***				
Project Location:	***Tank Excavation; Sample #1 @ 5'***				
Sampled by:	MKL	Date:	12-Feb-97	Time:	10:45
Analyzed by:	HR/DC	Date:	18-Feb-97		
Sample Matrix:	*Soil*				

Laboratory Analysis

Parameter	*Result*	*Unit of Measure*	*Detection Limit*	*Unit of Measure*
Gasoline Range Organics (C5 - C9)	<1.0	mg/kg	1.0	mg/kg
Diesel Range Organics (C10 - C28)	<5.0	mg/kg	5.0	mg/kg
TOTAL	<6.0	mg/kg		

Quality Assurance Report

GRO QC No.: *0480-STD*
DRO QC No.: *0512-STD*

Calibration Check

Parameter	*Method Blank*	*Unit of Measure*	*True Value*	*Analyzed Value*	*% Diff*	*Limit*
Gasoline Range (C5 - C9)	<50	ppb	1,351	1,423	5.3	15%
Diesel Range (C10 - C28)	<5.0	ppm	100	106	6.1	15%

Matrix Spike

Parameter	*1- Percent Recovered*	*2 - Percent Recovered*	*Limit*	*%RSD*	*Limit*
Gasoline Range (C5-C9)	104	106	(70-130)	2	20%
Diesel Range (C10-C28)	81	94	(70-130)	10	20%

Method *- SW-846 EPA Method 8015A mod. - Nonhalogenated Volatile Hydrocarbons by Gas Chromatography*

Approved by:
Date: 2/19/97

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Attn:	*Michael K. Lane*	Date:	18-Feb-97
Company:	*On Site Technologies, Ltd. c/o Conoco*	COC No.:	*5008*
Address:	*612 E. Murray Drive*	Sample No.:	*13678*
City, State:	*Farmington, NM 87401*	Job No.:	*4-1303*

Project Name:	***Conoco - Shepherd & Kelsey 1E Former Tank Battery***				
Project Location:	***Tank Excavation; Sample #5 @ 4'***				
Sampled by:	MKL	Date:	12-Feb-97	Time:	11:55
Analyzed by:	HR/DC	Date:	18-Feb-97		
Sample Matrix:	*Soil*				

Laboratory Analysis

Parameter	*Result*	*Unit of Measure*	*Detection Limit*	*Unit of Measure*
Gasoline Range Organics (C5 - C9)	<1.0	mg/kg	1.0	mg/kg
Diesel Range Organics (C10 - C28)	<5.0	mg/kg	5.0	mg/kg
TOTAL	<6.0	mg/kg		

Quality Assurance Report

GRO QC No.: *0535-STD*
DRO QC No.: *0512-STD*

Calibration Check

Parameter	*Method Blank*	*Unit of Measure*	*True Value*	*Analyzed Value*	*% Diff*	*Limit*
Gasoline Range (C5 - C9)	<50	ppb	1,351	1,423	5.3	15%
Diesel Range (C10 - C28)	<5.0	ppm	100	106	6.1	15%

Matrix Spike

Parameter	*1- Percent Recovered*	*2 - Percent Recovered*	*Limit*	*%RSD*	*Limit*
Gasoline Range (C5-C9)	104	106	(70-130)	2	20%
Diesel Range (C10-C28)	81	94	(70-130)	10	20%

Method - *SW-846 EPA Method 8015A mod. - Nonhalogenated Volatile Hydrocarbons by Gas Chromatography*

Approved by: DaG
Date: 2/19/97

OFF: (505) 325-5667

ON SITE
TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Attn:	*Michael K. Lane*	Date:	18-Feb-97
Company:	*On Site Technologies, Ltd. c/o Conoco*	COC No.:	*5008*
Address:	*612 E. Murray Drive*	Sample No.:	*13678*
City, State:	*Farmington, NM 87401*	Job No.:	*4-1303*

Project Name:	***Conoco - Shepherd & Kelsey 1E Former Tank Battery***				
Project Location:	***Tank Excavation; Sample #5 @ 4'***				
Sampled by:	MKL	Date:	12-Feb-97	Time:	11:55
Analyzed by:	HR	Date:	14-Feb-97		
Sample Matrix:	*Soil*				

Laboratory Analysis

Parameter	*Result*	*Units of Measure*	*Detection Limit*	*Units of Measure*
Benzene	<0.2	ug/kg	0.2	ug/kg
Toluene	14.8	ug/kg	0.2	ug/kg
Ethylbenzene	3.9	ug/kg	0.2	ug/kg
m,p-Xylene	14.5	ug/kg	0.2	ug/kg
o-Xylene	5.2	ug/kg	0.2	ug/kg
TOTAL	38.5	ug/kg		

Method - *SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography*

Approved by: DaG
Date: 2/18/97

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Attn:	*Michael K. Lane*	Date:	18-Feb-97
Company:	*On Site Technologies, Ltd. c/o Conoco*	COC No.:	*5008*
Address:	*612 E. Murray Drive*	Sample No.:	*13679*
City, State:	*Farmington, NM 87401*	Job No.:	*4-1303*

Project Name:	***Conoco - Shepherd & Kelsey 1E Former Tank Battery***			
Project Location:	***Tank Excavation; Composite Sample #8-5', #9-5', #10-6'***			
Sampled by:	MKL	Date:	12-Feb-97 Time:	13:25
Analyzed by:	HR/DC	Date:	18-Feb-97	
Sample Matrix:	*Soil*			

Laboratory Analysis

Parameter	*Result*	*Unit of Measure*	*Detection Limit*	*Unit of Measure*
Gasoline Range Organics (C5 - C9)	<1.0	mg/kg	1.0	mg/kg
Diesel Range Organics (C10 - C28)	<5.0	mg/kg	5.0	mg/kg
TOTAL	<6.0	mg/kg		

Quality Assurance Report

GRO QC No.: *0535-STD*
DRO QC No.: *0512-STD*

Calibration Check

Parameter	*Method Blank*	*Unit of Measure*	*True Value*	*Analyzed Value*	*% Diff*	*Limit*
Gasoline Range (C5 - C9)	<50	ppb	1,351	1,423	5.3	15%
Diesel Range (C10 - C28)	<5.0	ppm	100	106	6.1	15%

Matrix Spike

Parameter	*1- Percent Recovered*	*2 - Percent Recovered*	*Limit*	*%RSD*	*Limit*
Gasoline Range (C5-C9)	104	106	(70-130)	2	20%
Diesel Range (C10-C28)	81	94	(70-130)	10	20%

Method *- SW-846 EPA Method 8015A mod. - Nonhalogenated Volatile Hydrocarbons by Gas Chromatography*

Approved by: DaG
Date: 2/19/97

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Attn:	*Michael K. Lane*	Date:	18-Feb-97
Company:	*On Site Technologies, Ltd. c/o Conoco*	COC No.:	*5008*
Address:	*612 E. Murray Drive*	Sample No.:	*13680*
City, State:	*Farmington, NM 87401*	Job No.:	*4-1303*

Project Name:	***Conoco - Shepherd & Kelsey 1E Former Tank Battery***				
Project Location:	***Tank Excavation; Sample #12 @ 5'***				
Sampled by:	MKL	Date:	12-Feb-97	Time:	13:25
Analyzed by:	HR/DC	Date:	18-Feb-97		
Sample Matrix:	*Soil*				

Laboratory Analysis

Parameter	*Result*	*Unit of Measure*	*Detection Limit*	*Unit of Measure*
Gasoline Range Organics (C5 - C9)	<1.0	mg/kg	1.0	mg/kg
Diesel Range Organics (C10 - C28)	<5.0	mg/kg	5.0	mg/kg
TOTAL	<6.0	mg/kg		

Quality Assurance Report

GRO QC No.: *0535-STD*
DRO QC No.: *0512-STD*

Calibration Check

Parameter	*Method Blank*	*Unit of Measure*	*True Value*	*Analyzed Value*	*% Diff*	*Limit*
Gasoline Range (C5 - C9)	<50	ppb	1,351	1,423	5.3	15%
Diesel Range (C10 - C28)	<5.0	ppm	100	106	6.1	15%

Matrix Spike

Parameter	*1- Percent Recovered*	*2 - Percent Recovered*	*Limit*	*%RSD*	*Limit*
Gasoline Range (C5-C9)	104	106	(70-130)	2	20%
Diesel Range (C10-C28)	81	94	(70-130)	10	20%

Method - *SW-846 EPA Method 8015A mod. - Nonhalogenated Volatile Hydrocarbons by Gas Chromatography*

Approved by: DaG
Date: 2/19/97

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Attn:	*Michael K. Lane*	Date:	18-Feb-97
Company:	*On Site Technologies, Ltd. c/o Conoco*	COC No.:	*5008*
Address:	*612 E. Murray Drive*	Sample No.:	*13680*
City, State:	*Farmington, NM 87401*	Job No.:	*4-1303*

Project Name:	***Conoco - Shepherd & Kelsey 1E Former Tank Battery***				
Project Location:	***Tank Excavation; Sample #12 @ 5'***				
Sampled by:	MKL	Date:	12-Feb-97	Time:	13:25
Analyzed by:	HR	Date:	14-Feb-97		
Sample Matrix:	*Soil*				

Laboratory Analysis

Parameter	*Result*	*Units of Measure*	*Detection Limit*	*Units of Measure*
Benzene	207.9	ug/kg	0.2	ug/kg
Toluene	16.5	ug/kg	0.2	ug/kg
Ethylbenzene	2.0	ug/kg	0.2	ug/kg
m,p-Xylene	5.6	ug/kg	0.2	ug/kg
o-Xylene	2.9	ug/kg	0.2	ug/kg
TOTAL	235.0	ug/kg		

Method *- SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography*

Approved by:
Date: 2/18/97

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Attn:	*Michael K. Lane*	Date:	18-Feb-97
Company:	*On Site Technologies, Ltd. c/o Conoco*	COC No.:	*5008*
Address:	*612 E. Murray Drive*	Sample No.:	*13681*
City, State:	*Farmington, NM 87401*	Job No.:	*4-1303*

Project Name:	***Conoco - Shepherd & Kelsey 1E Former Tank Battery***				
Project Location:	***Tank Excavation; Sample #15 @ 4'***				
Sampled by:	MKL	Date:	12-Feb-97	Time:	15:45
Analyzed by:	HR/DC	Date:	18-Feb-97		
Sample Matrix:	*Soil*				

Laboratory Analysis

Parameter	*Result*	*Unit of Measure*	*Detection Limit*	*Unit of Measure*
Gasoline Range Organics (C5 - C9)	<1.0	mg/kg	1.0	mg/kg
Diesel Range Organics (C10 - C28)	<5.0	mg/kg	5.0	mg/kg
TOTAL	<6.0	mg/kg		

Quality Assurance Report

GRO QC No.: *0535-STD*
DRO QC No.: *0512-STD*

Calibration Check

Parameter	*Method Blank*	*Unit of Measure*	*True Value*	*Analyzed Value*	*% Diff*	*Limit*
Gasoline Range (C5 - C9)	<50	ppb	1,351	1,423	5.3	15%
Diesel Range (C10 - C28)	<5.0	ppm	100	106	6.1	15%

Matrix Spike

Parameter	*1- Percent Recovered*	*2 - Percent Recovered*	*Limit*	*%RSD*	*Limit*
Gasoline Range (C5-C9)	104	106	(70-130)	2	20%
Diesel Range (C10-C28)	97	92	(70-130)	4	20%

Method - *SW-846 EPA Method 8015A mod. - Nonhalogenated Volatile Hydrocarbons by Gas Chromatography*

Approved by:
Date: 2/19/97

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Attn:	*Michael K. Lane*	Date:	19-Feb-97
Company:	*On Site Technologies, Ltd. c/o Conoco*	COC No.:	*5008*
Address:	*612 E. Murray Drive*	Sample No.:	*13682*
City, State:	*Farmington, NM 87401*	Job No.:	*4-1303*

Project Name:	***Conoco - Shepherd & Kelsey 1E Former Tank Battery***				
Project Location:	***Tank Excavation; Sample #17 @ 1.5'***				
Sampled by:	MKL	Date:	12-Feb-97	Time:	16:40
Analyzed by:	HR/DC	Date:	19-Feb-97		
Sample Matrix:	*Soil*				

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
Gasoline Range Organics (C5 - C9)	4.9	mg/kg	1.0	mg/kg
Diesel Range Organics (C10 - C28)	<5.0	mg/kg	5.0	mg/kg
TOTAL	4.9	mg/kg		

Quality Assurance Report

GRO QC No.: *0535-STD*
DRO QC No.: *0512-STD*

Calibration Check

Parameter	Method Blank	Unit of Measure	True Value	Analyzed Value	% Diff	Limit
Gasoline Range (C5 - C9)	<50	ppb	1,351	1,451	7.4	15%
Diesel Range (C10 - C28)	<5.0	ppm	100	106	6.1	15%

Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	%RSD	Limit
Gasoline Range (C5-C9)	104	106	(70-130)	2	20%
Diesel Range (C10-C28)	97	92	(70-130)	4	20%

Method *- SW-846 EPA Method 8015A mod. - Nonhalogenated Volatile Hydrocarbons by Gas Chromatography*

Approved by: DaG
Date: 2/19/97

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Attn:	*Michael K. Lane*	Date:	18-Feb-97
Company:	*On Site Technologies, Ltd. c/o Conoco*	COC No.:	*5008*
Address:	*612 E. Murray Drive*	Sample No.:	*13682*
City, State:	*Farmington, NM 87401*	Job No.:	*4-1303*

Project Name:	***Conoco - Shepherd & Kelsey 1E Former Tank Battery***				
Project Location:	***Tank Excavation; Sample #17 @ 1.5'***				
Sampled by:	MKL	Date:	12-Feb-97	Time:	16:40
Analyzed by:	HR	Date:	14-Feb-97		
Sample Matrix:	*Soil*				

Laboratory Analysis

Parameter	*Result*	*Units of Measure*	*Detection Limit*	*Units of Measure*
Benzene	136.8	ug/kg	0.2	ug/kg
Toluene	131.2	ug/kg	0.2	ug/kg
Ethylbenzene	151.9	ug/kg	0.2	ug/kg
m,p-Xylene	595.4	ug/kg	0.2	ug/kg
o-Xylene	101.6	ug/kg	0.2	ug/kg
TOTAL	1116.9	ug/kg		

Method *- SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography*

Approved by:
Date: 2/18/97

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Attn:	*Michael K. Lane*	Date:	19-Feb-97
Company:	*On Site Technologies, Ltd. c/o Conoco*	COC No.:	*5008*
Address:	*612 E. Murray Drive*	Sample No.:	*13683*
City, State:	*Farmington, NM 87401*	Job No.:	*4-1303*

Project Name:	***Conoco - Shepherd & Kelsey 1E Former Tank Battery***				
Project Location:	***Tank Excavation; Sample #19 @ 3'***				
Sampled by:	MKL	Date:	12-Feb-97	Time:	17:00
Analyzed by:	HR/DC	Date:	19-Feb-97		
Sample Matrix:	*Soil*				

Laboratory Analysis

Parameter	*Result*	*Unit of Measure*	*Detection Limit*	*Unit of Measure*
Gasoline Range Organics (C5 - C9)	<1.0	mg/kg	1.0	mg/kg
Diesel Range Organics (C10 - C28)	<5.0	mg/kg	5.0	mg/kg
TOTAL	<6.0	mg/kg		

Quality Assurance Report

GRO QC No.: *0535-STD*
DRO QC No.: *0512-STD*

Calibration Check

Parameter	*Method Blank*	*Unit of Measure*	*True Value*	*Analyzed Value*	*% Diff*	*Limit*
Gasoline Range (C5 - C9)	<50	ppb	1,351	1,451	7.4	15%
Diesel Range (C10 - C28)	<5.0	ppm	100	106	6.1	15%

Matrix Spike

Parameter	*1- Percent Recovered*	*2 - Percent Recovered*	*Limit*	*%RSD*	*Limit*
Gasoline Range (C5-C9)	104	106	(70-130)	2	20%
Diesel Range (C10-C28)	97	92	(70-130)	4	20%

Method *- SW-846 EPA Method 8015A mod. - Nonhalogenated Volatile Hydrocarbons by Gas Chromatography*

Approved by: DAG
Date: 2/19/97

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Attn:	*Michael K. Lane*	Date:	19-Feb-97
Company:	*On Site Technologies, Ltd. c/o Conoco*	COC No.:	*5008*
Address:	*612 E. Murray Drive*	Sample No.:	*13685*
City, State:	*Farmington, NM 87401*	Job No.:	*4-1303*

Project Name:	***Conoco - Shepherd & Kelsey 1E Former Tank Battery***				
Project Location:	***Tank Excavation; Sample #23 @ 2'***				
Sampled by:	MKL	Date:	13-Feb-97	Time:	10:00
Analyzed by:	HR/DC	Date:	19-Feb-97		
Sample Matrix:	*Soil*				

Laboratory Analysis

Parameter	*Result*	*Unit of Measure*	*Detection Limit*	*Unit of Measure*
Gasoline Range Organics (C5 - C9)	163.1	mg/kg	1.0	mg/kg
Diesel Range Organics (C10 - C28)	<5.0	mg/kg	5.0	mg/kg
TOTAL	163.1	mg/kg		

Quality Assurance Report

GRO QC No.: *0535-STD*
DRO QC No.: *0512-STD*

Calibration Check

Parameter	*Method Blank*	*Unit of Measure*	*True Value*	*Analyzed Value*	*% Diff*	*Limit*
Gasoline Range (C5 - C9)	<50	ppb	1,351	1,451	7.4	15%
Diesel Range (C10 - C28)	<5.0	ppm	100	106	6.1	15%

Matrix Spike

Parameter	*1- Percent Recovered*	*2 - Percent Recovered*	*Limit*	*%RSD*	*Limit*
Gasoline Range (C5-C9)	104	106	(70-130)	2	20%
Diesel Range (C10-C28)	97	92	(70-130)	4	20%

Method *- SW-846 EPA Method 8015A mod. - Nonhalogenated Volatile Hydrocarbons by Gas Chromatography*

Approved by:
Date: 2/19/97

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Attn:	*Michael Lane*	Date:	26-Mar-97
Company:	*On Site Technologies, Ltd. c/o Conoco*	COC No.:	*5060*
Address:	*612 E. Murray Drive*	Sample No.:	*13998*
City, State:	*Farmington, NM 87401*	Job No.:	*4-1303-5*

Project Name:	***Conoco - Shepherd & Kelsey #1E***				
Project Location:	***Tank Excavation - MW***				
Sampled by:	ML	Date:	20-Mar-97	Time:	10:10
Analyzed by:	DC	Date:	24-Mar-97		
Sample Matrix:	*Liquid*				

Parameter	*Result*	*Unit of Measure*	*Detection Limit*	*Unit of Measure*
Benzene	<0.2	ug/L	0.2	ug/L
Toluene	<0.2	ug/L	0.2	ug/L
Ethylbenzene	<0.2	ug/L	0.2	ug/L
m,p-Xylene	<0.2	ug/L	0.2	ug/L
o-Xylene	<0.2	ug/L	0.2	ug/L
TOTAL	<0.2	ug/L		

Method - *SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography*

Approved By:
Date: 3/26/97

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

QUALITY ASSURANCE REPORT

for EPA Method 8020

Date Analyzed: 21-Nov-96

Internal QC No.: 0515-QC
Surrogate QC No.: 0516-QC
Reference Standard QC No.: 0417-QC

Method Blank

Analyte	*Result*	*Units of Measure*
Average Amount of All Analytes In Blank	<0.2	ppb

Calibration Check

Analyte	*Units of Measure*	*True Value*	*Analyzed Value*	*% Diff*	*Limit*
Benzene	ppb	20.0	19.6	2	15%
Toluene	ppb	20.0	20.4	2	15%
Ethylbenzene	ppb	20.0	21.1	6	15%
m,p-Xylene	ppb	40.0	41.4	3	15%
o-Xylene	ppb	20.0	20.7	3	15%

Matrix Spike

Analyte	*1- Percent Recovered*	*2 - Percent Recovered*	*Limit*	*%RSD*	*Limit*
Benzene	96	98	(39-150)	1	20%
Toluene	94	93	(46-148)	0	20%
Ethylbenzene	90	87	(32-160)	3	20%
m,p-Xylene	86	82	(35-145)	3	20%
o-Xylene	87	82	(35-145)	4	20%

Surrogate Recoveries

Laboratory Identification	*S1 Percent Recovered*	*S2 Percent Recovered*	*Laboratory Identification*	*S1 Percent Recovered*	*S2 Percent Recovered*
Limit Percent Recovery	(70-130)		*Limit Percent Recovery*	(70-130)	
S1: Flourobenzene			*S1: Flourobenzene*		
12944-6205	96				
12945-6205	95				
12946-6205	94				
12947-6205	94				
12948-6205	95				

OFF: (505) 325-5667

ON SITE
TECHNOLOGIES, LTD.

LAB: (505) 325-1556

QUALITY ASSURANCE REPORT

for EPA Method 8020

Date Analyzed: 14-Feb-97

Internal QC No.: 0527-STD
Surrogate QC No.: 0528-STD
Reference Standard QC No.: 0417-QC

Method Blank

Analyte	*Result*	*Units of Measure*
Average Amount of All Analytes In Blank	<0.2	ppb

Calibration Check

Analyte	*Units of Measure*	*True Value*	*Analyzed Value*	*% Diff*	*Limit*
Benzene	ppb	20.0	19.8	1	15%
Toluene	ppb	20.0	20.5	3	15%
Ethylbenzene	ppb	20.0	20.9	5	15%
m,p-Xylene	ppb	40.0	40.6	1	15%
o-Xylene	ppb	20.0	20.6	3	15%

Matrix Spike

Analyte	*1- Percent Recovered*	*2 - Percent Recovered*	*Limit*	*%RSD*	*Limit*
Benzene	83	79	(39-150)	3	20%
Toluene	90	79	(46-148)	8	20%
Ethylbenzene	82	78	(32-160)	4	20%
m,p-Xylene	77	73	(35-145)	3	20%
o-Xylene	77	74	(35-145)	3	20%

Surrogate Recoveries

Laboratory Identification	*S1 Percent Recovered*	*S2 Percent Recovered*	*Laboratory Identification*	*S1 Percent Recovered*	*S2 Percent Recovered*
Limit Percent Recovery	(70-130)		*Limit Percent Recovery*	(70-130)	
S1: Flourobenzene			*S1: Flourobenzene*		
13678-5008	97				
13680-5008	81				
13682-5008	73				

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

QUALITY ASSURANCE REPORT

for EPA Method 8020

Date Analyzed: 24-Mar-97

Internal QC No.: 0527-STD
Surrogate QC No.: 0528-STD
Reference Standard QC No.: 0529/30-QC

Method Blank

Parameter	*Result*	*Unit of Measure*
Average Amount of All Analytes In Blank	<0.2	ppb

Calibration Check

Parameter	*Unit of Measure*	*True Value*	*Analyzed Value*	*% Diff*	*Limit*
Benzene	ppb	20.0	18.6	7	15%
Toluene	ppb	20.0	19.4	3	15%
Ethylbenzene	ppb	20.0	19.8	1	15%
m,p-Xylene	ppb	40.0	38.2	4	15%
o-Xylene	ppb	20.0	19.5	2	15%

Matrix Spike

Parameter	*1- Percent Recovered*	*2 - Percent Recovered*	*Limit*	*%RSD*	*Limit*
Benzene	89	88	(39-150)	1	20%
Toluene	92	92	(46-148)	0	20%
Ethylbenzene	94	94	(32-160)	0	20%
m,p-Xylene	90	90	(35-145)	0	20%
o-Xylene	93	93	(35-145)	0	20%

Surrogate Recoveries

Laboratory Identification	*S1 Percent Recovered*	*S2 Percent Recovered*	*Laboratory Identification*	*S1 Percent Recovered*	*S2 Percent Recovered*
Limit Percent Recovered	(70-130)		*Limit Percent Recovered*	(70-130)	
13998-5060	96				
13999-5060	93				

S1: Flourobenzene

3/26/97

ON SITE TECHNOLOGIES, LTD.

657 W. Maple • P. O. Box 2606 • Farmington NM 87499
LAB: (505) 325-5667 • FAX: (505) 325-6256

CHAIN OF CUSTODY RECORD

6205

Date: 11-20-96

Page 1 of 1

Purchase Order No.:	Job No. 41-1303		
SEND INVOICE TO: Name	John Cox	REPORT RESULTS TO: Name	Mike Lane / Title
Company	Conoco, Inc. / Dept.	Company	
Address		Mailing Address	
City, State, Zip		City, State, Zip	
		Telephone No. / Telefax No.	

Sampling Location: Sheppard - Kelsey E-1

Sampler: RLC

SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	MATRIX	PRES.	Number of Containers	8020	8015	LAB ID
TH-7 @ 15'	11-20-96	1125	Soil	~	1	~	~	12944-12945
TH-7 @ 3'	"	1130	"	~	1	~	~	12945
TH-7 @ 5'	"	1140	"	~	1	~	~	12946
TH-2 @ 3'	"	0925	"	~	1	~	~	12947
TH-2 @ 5'	"	0940	"	~	1	~	~	12948

ANALYSIS REQUESTED

Relinquished by:	Date/Time 11-20-96 1600	Received by:	Date/Time 11/20/96 1600
Relinquished by:	Date/Time	Received by:	Date/Time
Relinquished by:	Date/Time	Received by:	Date/Time

Method of Shipment:

Authorized by: _____ Date 11-20-96
(Client Signature Must Accompany Request)

Rush	24-48 Hours	10 Working Days	Special Instructions:

Distribution: White – On Site Yellow – LAB Pink – Sampler Goldenrod – Client

ON SITE TECHNOLOGIES, LTD.
657 W. Maple • P. O. Box 2606 • Farmington NM 87499
LAB: (505) 325-5667 • FAX: (505) 325-6256

CHAIN OF CUSTODY RECORD

5008

Date: 2.13.97

Page 1 of 1

Purchase Order No.:
Job No. 4-1302

SEND INVOICE TO
Name c/o Michael Lane
Company X Conoco
Dept.
Address
City, State, Zip

REPORT RESULTS TO
Name Michael K. Lane
Title
Company On Site Technologies, Ltd.
Mailing Address
City, State, Zip
Telephone No.
Telefax No.

Sampling Location: Conoco [illegible] IC
Former Tank Battery

Sampler: Michael K. Lane

ANALYSIS REQUESTED

SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	MATRIX	PRES.	Number of Containers	TPH 8015M	BTEX 8020								LAB ID
CHI #1 @ 5' [illegible]	2/12	1045	Soil	N	1	✓									
CHI #[illegible] @ 4'	"	1155	"	"	1	✓	✓								
[illegible]	"	1255	"	"	1	}									
CHI #7 @ 5'	"	1220	"	"	1	✓	} COMPOSITE								
CHI #10 @ 6'	"	1325	"	"	1	}									
CHI #12 @ 5'	"	1225	"	"	1	✓	✓								
CHI #15 @ 4'	"	1345	"	"	1	✓									
CHI #[illegible] @ 1½'	"	1640	"	"	1	✓	✓								
CHI #[illegible]	"	1700	"	"	1	✓									
CHI #[illegible]	"	1710	"	"	1									HOLD	
CHI #[illegible]	2/13	1000	"	"	1	✓									

Relinquished by: [signature]	Date/Time [illegible]	Received by:	Date/Time
Relinquished by:	Date/Time	Received by:	Date/Time
Relinquished by:	Date/Time	Received by:	Date/Time

Method of Shipment:

Rush | 24-48 Hours | 10 Working Days | Special Instructions:

Authorized by: [signature] Date 2/13/97
(Client Signature Must Accompany Request)

Distribution: White – On Site Yellow – LAB Pink – Sampler Goldenrod – Client

CHAIN OF CUSTODY RECORD

60

ON SITE TECHNOLOGIES, LTD.

657 W. Maple • P. O. Box 2606 • Farmington NM 87499
LAB: (505) 325-5667 • FAX: (505) 325-6256

Date: 3/20/97

Page 1 of

Purchase Order No.:	Job No. 4-1203-5		
SEND INVOICE TO: Name	M. Michael Lane - On Site	REPORT RESULTS TO: Name	Michael Lane — Title Engineer
Company	Conoco — Dept.	Company	On Site
Address		Mailing Address	
City, State, Zip		City, State, Zip	
		Telephone No.	Telefax No.
Sampling Location:	Simms A Key #1E		
Sampler:	M. Michael Lane		

SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	MATRIX	PRES.	Number of Containers	BTEX 8020	LAB ID
Tank Excavation - MW1	3/20	1010	Wtr	H_2SO_4	2	✓	13996-5600
Separator Pit Exc. - MW1	"	1020	Wtr	H_2SO_4	2	✓	13997-5600

ANALYSIS REQUESTED

Relinquished by:	Date/Time 3/20/97 1045	Received by:	Date/Time 3/20/97 1045
Relinquished by:	Date/Time	Received by:	Date/Time
Relinquished by:	Date/Time	Received by:	Date/Time

Method of Shipment:			
Authorized by: (Client Signature Must Accompany Request)	Date 3/20/97		
Rush	24-48 Hours	10 Working Days	Special Instructions:

Distribution: White – On Site Yellow – LAB Pink – Sampler Goldenrod – Client

CONFIDENTIAL

ON SITE TECHNOLOGIES, LTD.

April 16, 1997

RECEIVED
MAY 20 1997
Environmental Bureau
Oil Conservation Division

Conoco, Inc., Midland Division
Exploration and Production, North America
10 Desta Drive, Suite 100W
Midland, Texas 79705-4500

Attn.: Mr. W.L. Brignon, Senior Counsel

RE: Former Production Pit Assessment and Remediation
Conoco Location Shepherd & Kelsey #1E
Unit D, Sec. 29, T29N, R11W, NMPM, San Juan Co., NM

Dear Mr. Coy:

The following report is intended to continue the documentation of events and activities with regards to a hydrocarbon release at the above location and to inform interested parties of the current status of the remediation, reclamation, and investigation.

INITIAL FIELD INVESTIGATIONS

Due to inquiries from the landowner Ken and Larry Gomez, Conoco commissioned On Site Technologies to conduct a preliminary screen for hydrocarbon contamination in the area of a former unlined earthen pit and existing production tank used to store separator waste water. On September 30, 1996, Michael Lane and Bobby Crabb of On Site Technologies, Ltd. advanced two test holes (TH #1 and TH #2) by hand auger: one adjacent to the tank, and another in an estimated down gradient location. Test holes were advanced to the shallow water table at approximately 3.5 to 4 feet below the surface. Grab soil samples were collected from each test hole off the augered cuttings at the apparent water level, and field tested for volatile hydrocarbons per the NMOCD Field Heated Headspace Method. Split samples were also collected in 4 oz. glass containers with Teflon® closures, labeled, and placed on ice for delivery to the laboratory. Lab samples were tested for Total Petroleum Hydrocarbons (TPH) per EPA Method 8015M. In addition to soil sampling, a ground water sample was collected from TH#1 and tested for volatile organics (i.e. BTEX) per EPA Method 8020. Based on the results of this September 1996 sampling, no soil or ground water contamination above current NMOCD action levels was detected.

Following discussions with Mr. Denny Foust inspector for the New Mexico Oil Conservation Division (NMOCD) and Larry Gomez, it was determined that the

PO Box 2606
Farmington, NM
PHONE: 505-325-5667 FAX: 505-327-1496

September 1996 sampling may not have assessed the area of the former pit. Mr. Lane of On Site met with Mr. Foust and Mr. Gomez on November 11, 1996, and advanced two additional test holes immediately adjacent to the production tank (TH #3 and TH #4). As with the earlier sampling, grab samples were field tested for volatile hydrocarbons and lab tested for TPH. To verify the field screening, soil samples were also laboratory tested for BTEX per EPA Method 8020. Based on the results of the November 1996 sampling, some soil and ground water contamination from hydrocarbons was found northeast of the tank. Full delineation of the contamination was not done at the time.

Figure 1 shows the approximate location of the test holes and Table 1 summarizes the soil and lab testing for the preliminary investigations. The attached laboratory package has copies of the laboratory reports and QA/QC documentation.

REMEDIAL ACTIONS

Due to the proximity of the site to a residential water supply well, the San Juan River, and shallow depth to groundwater, NMOCD directed that the operator, Conoco, assess and remediate contaminated soils from the former pit.

On February 13, 1996 and concurrent with other soil remediation efforts at the well location, 30 cubic yards of soil were excavated from the former pit area. Prior to the excavation effort, the production tank was moved by Conoco as part of upgrades at the location, making TH #4 and the contaminated area difficult to relocate. Exploratory excavations were made until the contaminated area was found and the lateral extent delineated. The excavation exposed the apparent outline of a former production pit filled with gravel and debris. Refer to Figure 2 for the approximate location and dimensions of the excavation.

Grab samples were taken from the excavation bottom and sidewalls. Samples were field screened to monitor the progress. When field screening indicated that closure levels of <100 parts per million TPH, < 50 ppm BTEX, and <10 ppm Benzene had been reached in the soils, record samples were taken for laboratory analysis. Table 2 summarizes the results of the remediation effort. The vertical extent of excavation was carried to the level of ground water as soil contamination was observed to that depth. Laterally, the excavation removed all contaminated soils that field tested above NMOCD standards, except to the west where production equipment limited safe excavation.

Excavation and earth-moving equipment and personnel were provided by Rosenbaum Construction. Excavated contaminated material was transported for off-site disposal at the Envirotech NMOCD Permitted Landfarm at Hilltop south of Farmington.

Subsequent to the remediation effort described above and at the request of NMOCD, a monitor well was installed in the down-gradient portion of the excavated area (Refer to Sheet 1). The well was constructed of 2 inch Sch. 40 PVC with 5 feet of 0.010 inch slotted pipe. The annular space was sand packed with 10-20 mesh clean sand. Due

to the shallow depth to ground water and anticipated rise in the water table, the top of the screen was located within 12 inches of the surface, and only a thin bentonite seal was placed around each well at the surface. The well was developed by removing approximately ten well volumes or until dry, and allowed to stabilize for approximately one month before sampling.

On March 20, 1997, a water sample was collected from the well. Prior to sampling the well was purged by bailing approximately three well volumes. The sample was placed in 40 ml VOA glass vials, labeled and placed on ice for delivery to the lab. The sample was analyzed for BTEX per EPA Method 8020. Table 2 summarizes monitor well lab results obtained after the remedial activities. The attached laboratory package has copies of the laboratory reports and QA/QC documentation.

SUMMARY AND CONCLUSIONS:

The following conclusions are based on the forementioned site investigations and remedial efforts taken in the area of a former production pit at the Shepherd and Kelsey #1E well location:

1. Soil and ground water contamination from TPH and BTEX was identified immediately adjacent to the production tank used to store separator waste water.
2. An effort was made to remove heavily impacted soils to ground water in the apparent former source area. Soils were excavated to the extent of TPH and BTEX contamination, or the practical extent possible considering existing improvements and other site restrictions. Excavated soils were removed off site for treatment and disposal.
3. Ground water with BTEX contamination above the New Mexico Water Quality Control Commission (NMWQCC) standards remains in the area of former pit. However, since the removal of contaminated source soils, the level of ground water contamination is anticipated to decrease rapidly.

RECOMMENDATIONS:

The extent of remaining soil and ground water contamination is probably very limited. Further investigation does not appear to be warranted. Periodic sampling of the monitor well for BTEX per EPA Method 8020 should be considered. Sampling should be terminated and the well abandoned, once two consecutive sampling events find no BTEX contamination above the WQCC standards.

LIMITATIONS AND CLOSURE:

This summary documents visual observations of the site, subsurface conditions encountered during Phase II investigations and soil remediation efforts, and analysis of soil and groundwater samples collected during the various corrective actions. This summary does not reflect subsurface variations which may exist between sampling points, or subsurface changes which may occur due to seasonal variations.

The scope of our services consisted of the performance of a preliminary investigation, project management and sampling during soil remediation efforts, installation of one monitoring well to assess the magnitude of residual ground water contamination, field and lab testing of soil and water for hydrocarbon contamination, and preparation of a summary. All work has been performed in accordance with generally accepted professional practices in geotechnical, petroleum and environmental engineering, and hydrogeology.

This document has been prepared by On Site Technologies for the exclusive use of Conoco Inc. as it pertains to the referenced well location operated by Conoco. At your request, On Site has furnished a copy of this assessment report to Mr. C. John Coy, SHEAR Specialist, in the Conoco Farmington office.

If there are any questions regarding this status report, please contact either Cindy Gray or Myke Lane at On Site Technologies, (505) 325-5667. Thank you for considering On Site to assist you with this matter.

Respectfully submitted,

Cynthia A. Sluyter-Gray
Project Manager

Michael K. Lane, P.E.
Senior Engineer

On Site Technologies, Limited Partnership

Attachments: Table 1: Assessment Results
Table 2: Remediation Results
Figure 1: Site Assessment Sketch
Figure 2: Site Remediation Sketch
Laboratory Package with QA/QC and Chain-of-Custodies

MKL/mkl

file: 41303-5.doc

CONFIDENTIAL

TABLE 1: SUMMARY PRELIMINARY SITE ASSESSMENTS
SHEPHERD & KELSEY #1E
Unit D, Sec. 29, T29N, R11W, NMPM
SAN JUAN COUNTY, NM

SAMPLE LOCATION	DATE	DEPTH[1] (ft)	PID[2] (units)	Benzene (ppm)	Total BTEX[3] (ppm)	TPH[4] (ppm)
TH-1	9/30/96	2.5	10.3			
TH-1	9/30/96	3.5	59.9			15.6
TH-1	9/30/96	4.0	43.7			
TH-1	9/30/96	WATER	NA	2.1	7.7	NA
TH-2	9/30/96	3.0	1.7			
TH-2	9/30/96	3.5	3.8			<0.5
TH-3	11/11/96	1.0	3.4			
TH-3	11/11/96	2.0	11.7			
TH-3	11/11/96	3.0	14.0	0.0008	0.004	<0.5
TH-3	11/11/96	WATER	NA	0.0003	0.0005	NA
TH-4	11/11/96	1.0	12.2			
TH-4	11/11/96	2.0	20.9	0.111	0.171	<5.0
TH-4	11/11/96	2.5	137			
TH-4	11/11/96	3.0	290	1.35	4.31	18.1
TH-4	11/11/96	WATER	NA	0.362	0.471	NA
Drainage Ditch	11/11/96	WATER	NA	ND	ND	NA
NMOCD Action Levels	Feb. 1993	SOIL WATER	100 --	10 0.010	50 --	100 --

Notes:
(1) Depth below ground surface.
(2) PID: Results of field headspace samples measured with an organic vapor meter equipped with a photoionization detector, and Benzene Response Factor of 0.56.
(3) BTEX: Benzene, Toluene, Ethyl-benzene, and total Xylenes measure by EPA Method 8020.
(4) TPH: Total Petroleum Hydrocarbons as measured by EPA Method 8015 (mod.).
(5) ND: Not detected, NA: Not Applicable.

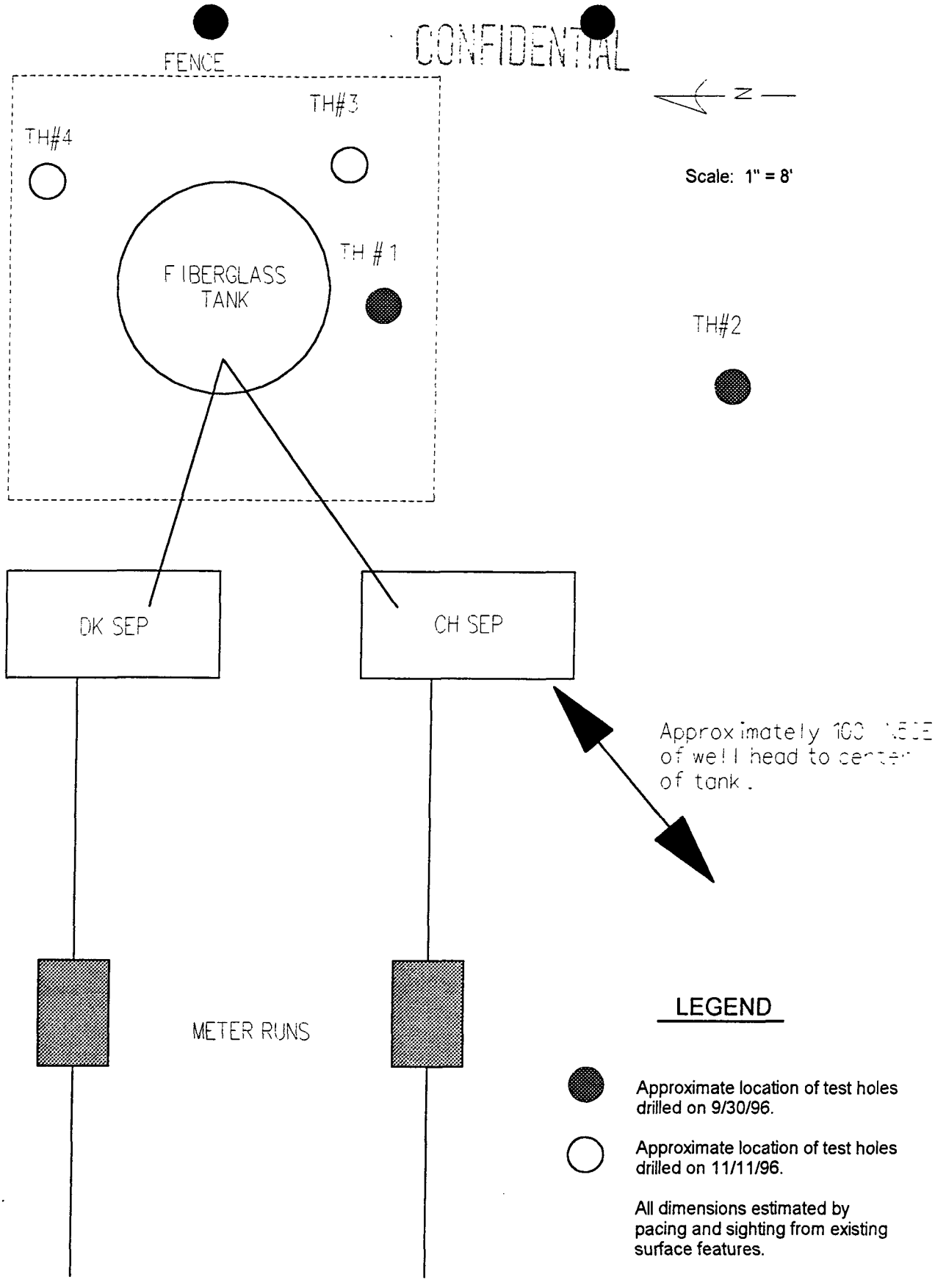
CONFIDENTIAL

TABLE 2: SUMMARY PIT REMEDIATION
SHEPHERD & KELSEY #1E
Unit D, Sec. 29, T29N, R11W, NMPM
SAN JUAN COUNTY, NM

SAMPLE LOCATION	DATE	DEPTH[1] (ft)	PID[2] (units)	Benzene (ppm)	Total BTEX[3] (ppm)	TPH[4] (ppm)
SAMPLE #1	2/13/96	4.5	25.9	0.230	0.388	<6.0
SAMPLE #2	2/13/96	4.5	77.2			
SAMPLE #3	2/13/96	4.5	53.1			
SAMPLE #4	2/13/96	4.5	3.5			
SAMPLE #5	2/13/96	4.5	43.5			
Composite Sample (#2, #3, #4, & #5)	2/13/96	4.5		0.050	0.286	1.1
MW	3/20/97	WATER	NA	0.053	0.110	NA
NMOCD Action Levels	Feb. 1993	SOIL WATER	100 --	10 0.010	50 --	100 --

Notes:
(1) Depth below ground surface.
(2) PID: Results of field headspace samples measured with an organic vapor meter equipped with a photoionization detector, and Benzene Response Factor of 0.56.
(3) BTEX: Benzene, Toluene, Ethyl-benzene, and total Xylenes measure by EPA Method 8020.
(4) TPH: Total Petroleum Hydrocarbons as measured by EPA Method 8015 (mod.).
(5) ND: Not detected, NA: Not Applicable.

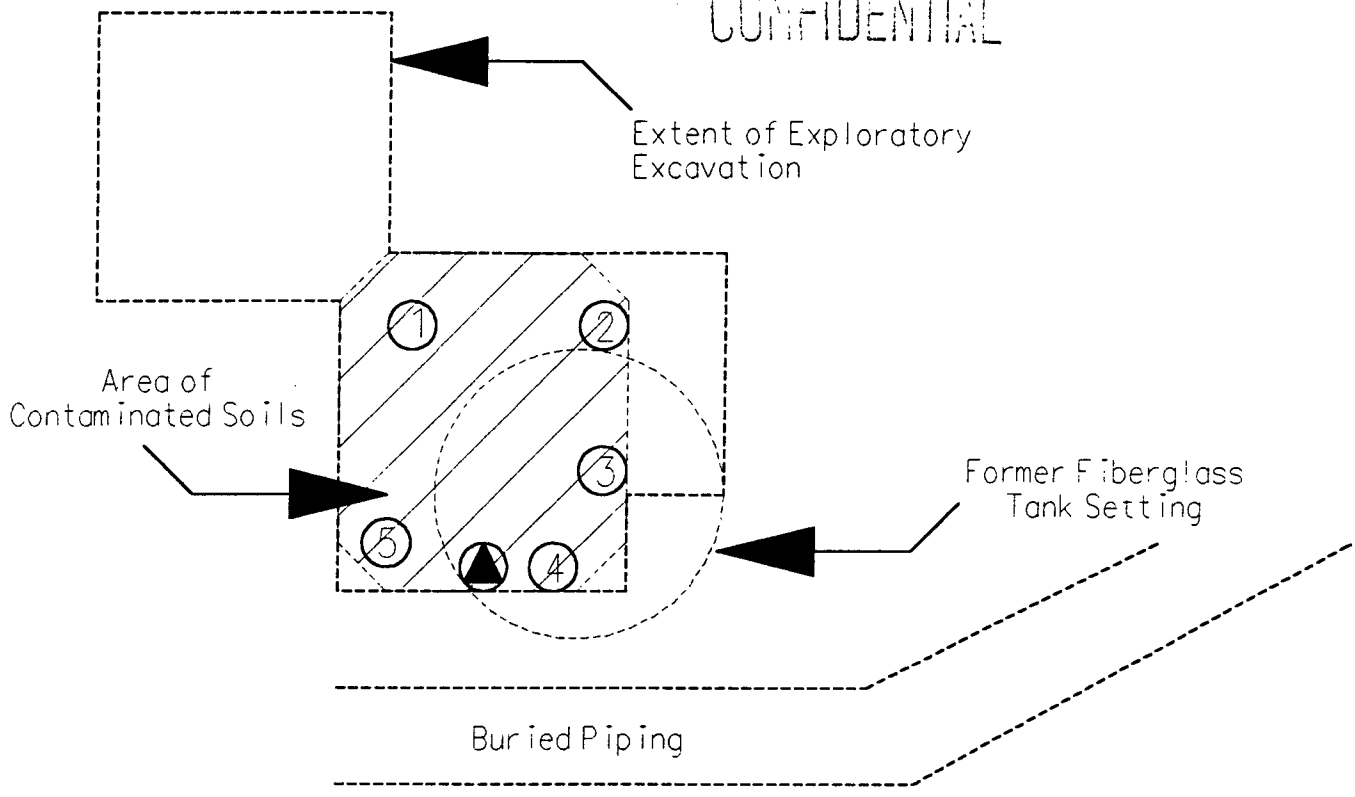
CONFIDENTIAL

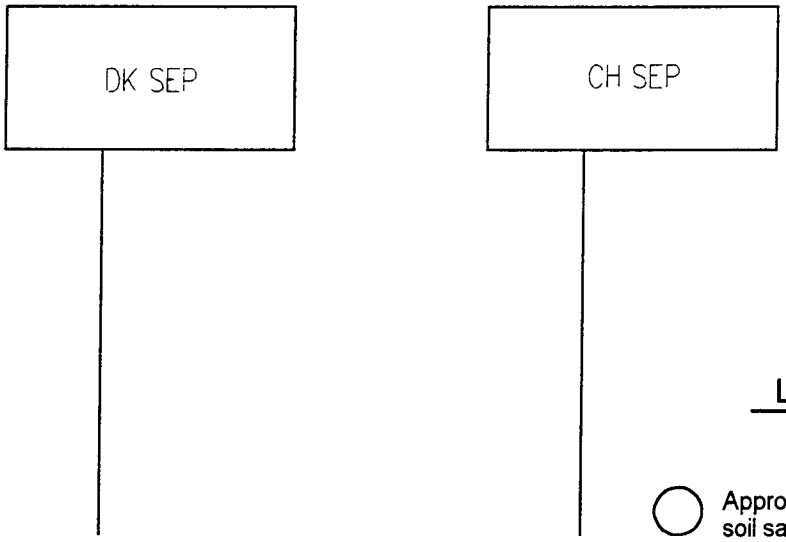


SHEPHERD & KELSEY #1E NE/NE, Sec. 29, T29W, R11W SAN JUAN BASIN, NM		SITE ASSESSMENT SKETCH
		DRWN: 04-14-97
PROJECT NO: 4-1303-5		DRWN BY: MKL
FIGURE: 1	FILE: 41303S1.CAD	PROJECT: SITE ASSESSMENT

ON SITE TECHNOLOGIES, LTD.
P.O. BOX 2606, FARMINGTON, NM 87499
(505) 325-5667

CONFIDENTIAL





N

Scale: 1" = 8'

LEGEND

○ Approximate location of closure soil samples (2/13/97.

▲ Approximate location of monitor well set 2/19/97. drilled on 11/11/96.

All dimensions estimated by pacing and sighting from existing surface features.

SHEPHERD & KELSEY #1E NE/NE, Sec. 29, T29W, R11W SAN JUAN BASIN, NM		PIT REMEDIATION SKETCH	ON SITE TECHNOLOGIES, LTD. P.O. BOX 2606, FARMINGTON, NM 87499 (505) 325-5667
		DRWN: 04-14-97	
PROJECT NO: 4-1303-5		DRWN BY: MKL	
FIGURE: 2	FILE: 41303S1.CAD	PROJECT: SITE ASSESSMENT	

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

TPH - Gasoline / Diesel Range Organics

Attn:	*Bob Crabb*	Date:	10-Oct-96
Company:	*On Site Technologies, Ltd.*	*COC No.:*	*4484*
Address:	*612 E. Murray Drive*	*Sample No.*	*12387*
City, State:	*Farmington, NM 87401*	*Job No.*	*4-1303*

Project Name:	***Conoco - S & K 1-E***				
Project Location:	***Test Hole #1 @ 42"***				
Sampled by:	ML	Date:	30-Sep-96	Time:	11:15
Analyzed by:	DC/HR	Date:	10-Oct-96		
Sample Matrix:	*Soil*				

Laboratory Analysis

Parameter	*Result*	*Unit of Measure*	*Detection Limit*	*Unit of Measure*
Gasoline Range Organics (C5 - C9)	<5.0	mg/kg	5.0	mg/kg
Diesel Range Organics (C10 - C28)	15.6	mg/kg	5.0	mg/kg
TOTAL	15.6	mg/kg		

Quality Assurance Report

GRO QC No.: *0493-STD*
DRO QC No.: *0489-STD*

Calibration Check

Parameter	*Method Blank*	*Unit of Measure*	*True Value*	*Analyzed Value*	*% Diff*	*Limit*
Gasoline Range (C5 - C9)	<50	ppb	1,350	1,447	7.2	15%
Diesel Range (C10 - C28)	<5.0	ppm	100	91	9.1	15%

Matrix Spike

Parameter	*1- Percent Recovered*	*2 - Percent Recovered*	*Limit*	*%RSD*	*Limit*
Gasoline Range (C5-C9)	98	85	(70-130)	10	20%
Diesel Range (C10-C28)	99	100	(70-130)	1	20%

Method *- SW-846 EPA Method 8015A mod. - Nonhalogenated Volatile Hydrocarbons by Gas Chromatography*

Approved by:
Date: 10/10/96

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

TPH - Gasoline / Diesel Range Organics

Attn:	*Bob Crabb*	Date:	10-Oct-96
Company:	*On Site Technologies, Ltd.*	*COC No.:*	*4484*
Address:	*612 E. Murray Drive*	*Sample No.*	*12388*
City, State:	*Farmington, NM 87401*	*Job No.*	*4-1303*

Project Name:	***Conoco - S & K 1-E***				
Project Location:	***Test Hole #2 @ 38-42"***				
Sampled by:	ML	Date:	30-Sep-96	Time:	11:45
Analyzed by:	DC/HR	Date:	10-Oct-96		
Sample Matrix:	*Soil*				

Laboratory Analysis

Parameter	*Result*	*Unit of Measure*	*Detection Limit*	*Unit of Measure*
Gasoline Range Organics (C5 - C9)	<5.0	mg/kg	5.0	mg/kg
Diesel Range Organics (C10 - C28)	<5.0	mg/kg	5.0	mg/kg
TOTAL	<5.0	mg/kg		

Quality Assurance Report

GRO QC No.: *0493-STD*
DRO QC No.: *0489-STD*

Calibration Check

Parameter	*Method Blank*	*Unit of Measure*	*True Value*	*Analyzed Value*	*% Diff*	*Limit*
Gasoline Range (C5 - C9)	<50	ppb	1,350	1,447	7.2	15%
Diesel Range (C10 - C28)	<5.0	ppm	100	91	9.1	15%

Matrix Spike

Parameter	*1- Percent Recovered*	*2 - Percent Recovered*	*Limit*	*%RSD*	*Limit*
Gasoline Range (C5-C9)	98	85	(70-130)	10	20%
Diesel Range (C10-C28)	99	100	(70-130)	1	20%

Method *- SW-846 EPA Method 8015A mod. - Nonhalogenated Volatile Hydrocarbons by Gas Chromatography*

Approved by:
Date: 10/10/96

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

AROMATIC VOLATILE ORGANICS

Attn:	*Myke Lane*	Date:	1-Oct-96
Company:	*On Site Technologies, Ltd.*	*COC No.:*	*4484*
Address:	*612 E. Murray Drive*	*Sample No.*	*12389*
City, State:	*Farmington, NM 87401*	*Job No.*	*4-1303*

Project Name:	***Conoco S & K 1-E***				
Project Location:	***TH-1 Groundwater***				
Sampled by:	ML	Date:	30-Sep-96	Time:	11:40
Analyzed by:	DC	Date:	30-Sep-96		
Sample Matrix:	*Liquid*				

Laboratory Analysis

Parameter	*Result*	*Unit of Measure*	*Detection Limit*	*Unit of Measure*
Benzene	2.1	ug/L	0.2	ug/L
Toluene	2.8	ug/L	0.2	ug/L
Ethylbenzene	0.3	ug/L	0.2	ug/L
m,p-Xylene	0.7	ug/L	0.2	ug/L
o-Xylene	1.9	ug/L	0.2	ug/L
TOTAL	7.7	ug/L		

Method - *SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography*

Approved by:
Date: 10/1/96

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

TPH - Gasoline / Diesel Range Organics

Attn:	*Michael Lane*	Date:	15-Nov-96
Company:	*On Site Technologies, Ltd. c/o Conoco*	*COC No.:*	*6182*
Address:	*612 E. Murray Drive*	*Sample No.*	*12815*
City, State:	*Farmington, NM 87401*	*Job No.*	*4-1303*

Project Name:	***Conoco - Shephard & Kelsey 1E***				
Project Location:	***TH #3 @ 36" (@GW)***				
Sampled by:	ML	Date:	11-Nov-96	Time:	10:30
Analyzed by:	DC/HR	Date:	14-Nov-96		
Sample Matrix:	*Soil*				

Laboratory Analysis

Parameter	*Result*	*Unit of Measure*	*Detection Limit*	*Unit of Measure*
Gasoline Range Organics (C5 - C9)	<5.0	mg/kg	5.0	mg/kg
Diesel Range Organics (C10 - C28)	<5.0	mg/kg	5.0	mg/kg
TOTAL	<5.0	mg/kg		

Quality Assurance Report

GRO QC No.: *0480-STD*
DRO QC No.: *0512-STD*

Calibration Check

Parameter	*Method Blank*	*Unit of Measure*	*True Value*	*Analyzed Value*	*% Diff*	*Limit*
Gasoline Range (C5 - C9)	<50	ppb	1,350	1,455	7.8	15%
Diesel Range (C10 - C28)	<5.0	ppm	100	100	0.5	15%

Matrix Spike

Parameter	*1- Percent Recovered*	*2 - Percent Recovered*	*Limit*	*%RSD*	*Limit*
Gasoline Range (C5-C9)	109	109	(70-130)	0	20%
Diesel Range (C10-C28)	100	104	(70-130)	3	20%

Method - *SW-846 EPA Method 8015A mod. - Nonhalogenated Volatile Hydrocarbons by Gas Chromatography*

Approved by:
Date: 11/15/96

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

AROMATIC VOLATILE ORGANICS

Attn:	*Michael Lane*	Date:	14-Nov-96
Company:	*On Site Technologies, Ltd. c/o Conoco*	*COC No.:*	*6182*
Address:	*612 E. Murray Drive*	*Sample No.*	*12815*
City, State:	*Farmington, NM 87401*	*Job No.*	*4-1303*

Project Name:	***Conoco - Shephard & Kelsey 1E***				
Project Location:	***TH #3 @ 36" (@GW)***				
Sampled by:	ML	Date:	11-Nov-96	Time:	10:30
Analyzed by:	DC	Date:	12-Nov-96		
Sample Matrix:	*Soil*				

Laboratory Analysis

Parameter	*Result*	*Units of Measure*	*Detection Limit*	*Units of Measure*
Benzene	0.8	ug/kg	0.2	ug/kg
Toluene	1.9	ug/kg	0.2	ug/kg
Ethylbenzene	0.4	ug/kg	0.2	ug/kg
m,p-Xylene	1.0	ug/kg	0.2	ug/kg
o-Xylene	<0.2	ug/kg	0.2	ug/kg
TOTAL	4.0	ug/kg		

Method - *SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography*

Approved by:
Date: 11/14/96

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

TPH - Gasoline / Diesel Range Organics

Attn:	*Michael Lane*	Date:	15-Nov-96
Company:	*On Site Technologies, Ltd. c/o Conoco*	*COC No.:*	*6182*
Address:	*612 E. Murray Drive*	*Sample No.*	*12816*
City, State:	*Farmington, NM 87401*	*Job No.*	*4-1303*

Project Name:	***Conoco - Shephard & Kelsey 1E***				
Project Location:	***TH #4 @ 24"***				
Sampled by:	ML	Date:	11-Nov-96	Time:	10:45
Analyzed by:	DC/HR	Date:	14-Nov-96		
Sample Matrix:	*Soil*				

Laboratory Analysis

Parameter	*Result*	*Unit of Measure*	*Detection Limit*	*Unit of Measure*
Gasoline Range Organics (C5 - C9)	<5.0	mg/kg	5.0	mg/kg
Diesel Range Organics (C10 - C28)	<5.0	mg/kg	5.0	mg/kg
TOTAL	<5.0	mg/kg		

Quality Assurance Report

GRO QC No.: *0480-STD*
DRO QC No.: *0512-STD*

Calibration Check

Parameter	*Method Blank*	*Unit of Measure*	*True Value*	*Analyzed Value*	*% Diff*	*Limit*
Gasoline Range (C5 - C9)	<50	ppb	1,350	1,455	7.8	15%
Diesel Range (C10 - C28)	<5.0	ppm	100	100	0.5	15%

Matrix Spike

Parameter	*1- Percent Recovered*	*2 - Percent Recovered*	*Limit*	*%RSD*	*Limit*
Gasoline Range (C5-C9)	109	109	(70-130)	0	20%
Diesel Range (C10-C28)	100	104	(70-130)	3	20%

Method *- SW-846 EPA Method 8015A mod. - Nonhalogenated Volatile Hydrocarbons by Gas Chromatography*

Approved by:
Date: 11/15/96

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

AROMATIC VOLATILE ORGANICS

Attn:	*Michael Lane*	Date:	14-Nov-96
Company:	*On Site Technologies, Ltd. c/o Conoco*	*COC No.:*	*6182*
Address:	*612 E. Murray Drive*	*Sample No.*	*12816*
City, State:	*Farmington, NM 87401*	*Job No.*	*4-1303*

Project Name:	***Conoco - Shephard & Kelsey 1E***				
Project Location:	***TH #4 @ 24"***				
Sampled by:	ML	Date:	11-Nov-96	Time:	10:45
Analyzed by:	DC	Date:	12-Nov-96		
Sample Matrix:	*Soil*				

Laboratory Analysis

Parameter	*Result*	*Units of Measure*	*Detection Limit*	*Units of Measure*
Benzene	110.7	ug/kg	0.2	ug/kg
Toluene	9.4	ug/kg	0.2	ug/kg
Ethylbenzene	16.3	ug/kg	0.2	ug/kg
m,p-Xylene	12.4	ug/kg	0.2	ug/kg
o-Xylene	23.2	ug/kg	0.2	ug/kg
TOTAL	171.9	ug/kg		

Method - *SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography*

Approved by:

Date: 11/14/96

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

TPH - Gasoline / Diesel Range Organics

Attn:	*Michael Lane*	Date:	15-Nov-96
Company:	*On Site Technologies, Ltd. c/o Conoco*	*COC No.:*	*6182*
Address:	*612 E. Murray Drive*	*Sample No.*	*12817*
City, State:	*Farmington, NM 87401*	*Job No.*	*4-1303*

Project Name:	***Conoco - Shephard & Kelsey 1E***				
Project Location:	***TH #4 @ 36"***				
Sampled by:	ML	Date:	11-Nov-96	Time:	10:50
Analyzed by:	DC/HR	Date:	14-Nov-96		
Sample Matrix:	*Soil*				

Laboratory Analysis

Parameter	*Result*	*Unit of Measure*	*Detection Limit*	*Unit of Measure*
Gasoline Range Organics (C5 - C9)	18.1	mg/kg	5.0	mg/kg
Diesel Range Organics (C10 - C28)	<5.0	mg/kg	5.0	mg/kg
TOTAL	18.1	mg/kg		

Quality Assurance Report

GRO QC No.: *0480-STD*
DRO QC No.: *0512-STD*

Calibration Check

Parameter	*Method Blank*	*Unit of Measure*	*True Value*	*Analyzed Value*	*% Diff*	*Limit*
Gasoline Range (C5 - C9)	<50	ppb	1,350	1,455	7.8	15%
Diesel Range (C10 - C28)	<5.0	ppm	100	100	0.5	15%

Matrix Spike

Parameter	*1- Percent Recovered*	*2 - Percent Recovered*	*Limit*	*%RSD*	*Limit*
Gasoline Range (C5-C9)	109	109	(70-130)	0	20%
Diesel Range (C10-C28)	100	104	(70-130)	3	20%

Method *- SW-846 EPA Method 8015A mod. - Nonhalogenated Volatile Hydrocarbons by Gas Chromatography*

Approved by:
Date: 11/15/96

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

AROMATIC VOLATILE ORGANICS

Attn:	*Michael Lane*	Date:	14-Nov-96
Company:	*On Site Technologies, Ltd. c/o Conoco*	*COC No.:*	*6182*
Address:	*612 E. Murray Drive*	*Sample No.*	*12817*
City, State:	*Farmington, NM 87401*	*Job No.*	*4-1303*

Project Name:	***Conoco - Shephard & Kelsey 1E***				
Project Location:	***TH #4 @ 36"***				
Sampled by:	ML	Date:	11-Nov-96	Time:	10:50
Analyzed by:	DC	Date:	12-Nov-96		
Sample Matrix:	*Soil*				

Laboratory Analysis

Parameter	*Result*	*Units of Measure*	*Detection Limit*	*Units of Measure*
Benzene	1348.2	ug/kg	0.2	ug/kg
Toluene	783.1	ug/kg	0.2	ug/kg
Ethylbenzene	669.7	ug/kg	0.2	ug/kg
m,p-Xylene	1164.3	ug/kg	0.2	ug/kg
o-Xylene	343.4	ug/kg	0.2	ug/kg
TOTAL	4308.7	ug/kg		

Method - *SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography*

Approved by:
Date: 11/14/96

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

AROMATIC VOLATILE ORGANICS

Attn:	*Michael Lane*	Date:	14-Nov-96
Company:	*On Site Technologies, Ltd. c/o Conoco*	*COC No.:*	*6182*
Address:	*612 E. Murray Drive*	*Sample No.*	*12818*
City, State:	*Farmington, NM 87401*	*Job No.*	*4-1303*

Project Name:	***Conoco - Shephard & Kelsey 1E***				
Project Location:	***TH #3 Groundwater***				
Sampled by:	ML	Date:	11-Nov-96	Time:	11:07
Analyzed by:	DC	Date:	13-Nov-96		
Sample Matrix:	*Liquid*				

Laboratory Analysis

Parameter	*Result*	*Unit of Measure*	*Detection Limit*	*Unit of Measure*
Benzene	0.3	ug/L	0.2	ug/L
Toluene	<0.2	ug/L	0.2	ug/L
Ethylbenzene	<0.2	ug/L	0.2	ug/L
m,p-Xylene	0.2	ug/L	0.2	ug/L
o-Xylene	<0.2	ug/L	0.2	ug/L
TOTAL	0.5	ug/L		

Method - *SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography*

Approved by:
Date: 11/14/96

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

AROMATIC VOLATILE ORGANICS

Attn:	*Michael Lane*	Date:	14-Nov-96
Company:	*On Site Technologies, Ltd. c/o Conoco*	*COC No.:*	*6182*
Address:	*612 E. Murray Drive*	*Sample No.*	*12819*
City, State:	*Farmington, NM 87401*	*Job No.*	*4-1303*

Project Name:	***Conoco - Shephard & Kelsey 1E***				
Project Location:	***TH #4 Groundwater***				
Sampled by:	ML	Date:	11-Nov-96	Time:	11:05
Analyzed by:	DC	Date:	13-Nov-96		
Sample Matrix:	*Liquid*				

Laboratory Analysis

Parameter	*Result*	*Unit of Measure*	*Detection Limit*	*Unit of Measure*
Benzene	362.4	ug/L	0.2	ug/L
Toluene	0.9	ug/L	0.2	ug/L
Ethylbenzene	36.9	ug/L	0.2	ug/L
m,p-Xylene	70.6	ug/L	0.2	ug/L
o-Xylene	0.2	ug/L	0.2	ug/L
TOTAL	471.0	ug/L		

Method *- SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography*

Approved by:
Date: 11/14/96

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

AROMATIC VOLATILE ORGANICS

Attn:	*Michael Lane*	Date:	14-Nov-96
Company:	*On Site Technologies, Ltd. c/o Conoco*	*COC No.:*	*6182*
Address:	*612 E. Murray Drive*	*Sample No.*	*12820*
City, State:	*Farmington, NM 87401*	*Job No.*	*4-1303*

Project Name:	***Conoco - Shephard & Kelsey 1E***				
Project Location:	***Drainage Ditch***				
Sampled by:	ML	Date:	11-Nov-96	Time:	11:00
Analyzed by:	DC	Date:	13-Nov-96		
Sample Matrix:	*Liquid*				

Laboratory Analysis

Parameter	*Result*	*Unit of Measure*	*Detection Limit*	*Unit of Measure*
Benzene	<0.2	ug/L	0.2	ug/L
Toluene	<0.2	ug/L	0.2	ug/L
Ethylbenzene	<0.2	ug/L	0.2	ug/L
m,p-Xylene	<0.2	ug/L	0.2	ug/L
o-Xylene	<0.2	ug/L	0.2	ug/L
TOTAL	<0.2	ug/L		

Method - *SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography*

Approved by: Da G
Date: 11/14/96

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

AROMATIC VOLATILE ORGANICS

Attn:	*Michael Lane*	Date:	18-Nov-96
Company:	*On Site Technologies, Ltd. c/o Conoco*	*COC No.:*	*6182*
Address:	*612 E. Murray Drive*	*Sample No.*	*12821*
City, State:	*Farmington, NM 87401*	*Job No.*	*4-1303*

Project Name:	***Conoco - Shephard & Kelsey 1E***				
Project Location:	***@ Storage Tank***				
Sampled by:	ML	Date:	11-Nov-96	Time:	11:15
Analyzed by:	DC	Date:	15-Nov-96		
Sample Matrix:	*Liquid*				

Laboratory Analysis

Parameter	*Result*	*Unit of Measure*	*Detection Limit*	*Unit of Measure*
Benzene	8997.1	ug/L	0.2	ug/L
Toluene	6743.7	ug/L	0.2	ug/L
Ethylbenzene	158.5	ug/L	0.2	ug/L
m,p-Xylene	1600.9	ug/L	0.2	ug/L
o-Xylene	489.4	ug/L	0.2	ug/L
TOTAL	17989.4	ug/L		

Method - *SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography*

Approved by:
Date: 11/18/96

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Attn:	*Michael K. Lane*	Date:	19-Feb-97
Company:	*On Site Technologies, Ltd. c/o Conoco*	COC No.:	*5009*
Address:	*612 E. Murray Drive*	Sample No.:	*13686*
City, State:	*Farmington, NM 87401*	Job No.:	*4-1303*

Project Name:	***Conoco - Shepherd & Kelsey 1E Former Separator Pit***				
Project Location:	***Sample #1 @ 4.5'***				
Sampled by:	MKL	Date:	13-Feb-97	Time:	10:00
Analyzed by:	HR/DC	Date:	19-Feb-97		
Sample Matrix:	*Soil*				

Laboratory Analysis

Parameter	*Result*	*Unit of Measure*	*Detection Limit*	*Unit of Measure*
Gasoline Range Organics (C5 - C9)	<1.0	mg/kg	1.0	mg/kg
Diesel Range Organics (C10 - C28)	<5.0	mg/kg	5.0	mg/kg
TOTAL	<6.0	mg/kg		

Quality Assurance Report

GRO QC No.: *0535-STD*
DRO QC No.: *0512-STD*

Calibration Check

Parameter	*Method Blank*	*Unit of Measure*	*True Value*	*Analyzed Value*	*% Diff*	*Limit*
Gasoline Range (C5 - C9)	<50	ppb	1,351	1,451	7.4	15%
Diesel Range (C10 - C28)	<5.0	ppm	100	106	6.1	15%

Matrix Spike

Parameter	*1- Percent Recovered*	*2 - Percent Recovered*	*Limit*	*%RSD*	*Limit*
Gasoline Range (C5-C9)	104	106	(70-130)	2	20%
Diesel Range (C10-C28)	97	92	(70-130)	4	20%

Method *- SW-846 EPA Method 8015A mod. - Nonhalogenated Volatile Hydrocarbons by Gas Chromatography*

Approved by:
Date: 2/19/97

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Attn:	*Michael K. Lane*	Date:	18-Feb-97
Company:	*On Site Technologies, Ltd. c/o Conoco*	COC No.:	*5009*
Address:	*612 E. Murray Drive*	Sample No.:	*13686*
City, State:	*Farmington, NM 87401*	Job No.:	*4-1303*

Project Name:	***Conoco - Shepherd & Kelsey 1E Former Separator Pit***			
Project Location:	***Sample #1 @ 4.5'***			
Sampled by:	MKL	Date:	13-Feb-97 Time:	10:00
Analyzed by:	HR	Date:	14-Feb-97	
Sample Matrix:	*Soil*			

Laboratory Analysis

Parameter	*Result*	*Units of Measure*	*Detection Limit*	*Units of Measure*
Benzene	229.5	ug/kg	0.2	ug/kg
Toluene	4.3	ug/kg	0.2	ug/kg
Ethylbenzene	45.9	ug/kg	0.2	ug/kg
m,p-Xylene	107.5	ug/kg	0.2	ug/kg
o-Xylene	1.1	ug/kg	0.2	ug/kg
TOTAL	388.3	ug/kg		

Method - *SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography*

Approved by:
Date: 2/18/97

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Attn:	*Michael K. Lane*	Date:	19-Feb-97
Company:	*On Site Technologies, Ltd. c/o Conoco*	COC No.:	*5009*
Address:	*612 E. Murray Drive*	Sample No.:	*13687*
City, State:	*Farmington, NM 87401*	Job No.:	*4-1303*

Project Name:	***Conoco - Shepherd & Kelsey 1E Former Separator Pit***				
Project Location:	***Composite @ 4.5'***				
Sampled by:	MKL	Date:	13-Feb-97	Time:	10:00
Analyzed by:	HR/DC	Date:	19-Feb-97		
Sample Matrix:	*Soil*				

Laboratory Analysis

Parameter	*Result*	*Unit of Measure*	*Detection Limit*	*Unit of Measure*
Gasoline Range Organics (C5 - C9)	1.1	mg/kg	1.0	mg/kg
Diesel Range Organics (C10 - C28)	<5.0	mg/kg	5.0	mg/kg
TOTAL	1.1	mg/kg		

Quality Assurance Report

GRO QC No.: *0535-STD*

DRO QC No.: *0512-STD*

Calibration Check

Parameter	*Method Blank*	*Unit of Measure*	*True Value*	*Analyzed Value*	*% Diff*	*Limit*
Gasoline Range (C5 - C9)	<50	ppb	1,351	1,451	7.4	15%
Diesel Range (C10 - C28)	<5.0	ppm	100	106	6.1	15%

Matrix Spike

Parameter	*1- Percent Recovered*	*2 - Percent Recovered*	*Limit*	*%RSD*	*Limit*
Gasoline Range (C5-C9)	104	106	(70-130)	2	20%
Diesel Range (C10-C28)	97	92	(70-130)	4	20%

Method *- SW-846 EPA Method 8015A mod. - Nonhalogenated Volatile Hydrocarbons by Gas Chromatography*

Approved by:

Date: 2/19/97

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Attn:	*Michael K. Lane*	Date:	18-Feb-97
Company:	*On Site Technologies, Ltd. c/o Conoco*	COC No.:	*5009*
Address:	*612 E. Murray Drive*	Sample No.:	*13687*
City, State:	*Farmington, NM 87401*	Job No.:	*4-1303*

Project Name:	***Conoco - Shepherd & Kelsey 1E Former Separator Pit***				
Project Location:	***Composite @ 4.5'***				
Sampled by:	MKL	Date:	13-Feb-97	Time:	10:00
Analyzed by:	HR	Date:	14-Feb-97		
Sample Matrix:	*Soil*				

Laboratory Analysis

Parameter	*Result*	*Units of Measure*	*Detection Limit*	*Units of Measure*
Benzene	49.7	ug/kg	0.2	ug/kg
Toluene	60.9	ug/kg	0.2	ug/kg
Ethylbenzene	44.2	ug/kg	0.2	ug/kg
m,p-Xylene	80.5	ug/kg	0.2	ug/kg
o-Xylene	51.2	ug/kg	0.2	ug/kg
TOTAL	286.4	ug/kg		

Method - *SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography*

Approved by: DG

Date: 2/18/97

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Attn:	*Michael Lane*	Date:	26-Mar-97
Company:	*On Site Technologies, Ltd. c/o Conoco*	COC No.:	*5060*
Address:	*612 E. Murray Drive*	Sample No.:	*13999*
City, State:	*Farmington, NM 87401*	Job No.:	*4-1303-5*

Project Name:	***Conoco - Shepherd & Kelsey #1E***				
Project Location:	***Separator Pit Excavation - MW***				
Sampled by:	ML	Date:	20-Mar-97	Time:	10:20
Analyzed by:	DC	Date:	24-Mar-97		
Sample Matrix:	*Liquid*				

Parameter	*Result*	*Unit of Measure*	*Detection Limit*	*Unit of Measure*
Benzene	50.3	ug/L	0.2	ug/L
Toluene	10.2	ug/L	0.2	ug/L
Ethylbenzene	6.3	ug/L	0.2	ug/L
m,p-Xylene	40.6	ug/L	0.2	ug/L
o-Xylene	3.3	ug/L	0.2	ug/L
TOTAL	110.7	ug/L		

Method - *SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography*

Approved By:
Date: 3/26/97

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

QUALITY ASSURANCE REPORT

for EPA Method 8020

Date Analyzed: 30-Sep-96

Internal QC No.: 0486-QC
Surrogate QC No.: 0488-QC
Reference Standard QC No.: 0417-QC

Method Blank

Parameter	*Result*	*Unit of Measure*
Average Amount of All Analytes In Blank	<0.2	ppb

Calibration Check

Parameter	*Unit of Measure*	*True Value*	*Analyzed Value*	*% Diff*	*Limit*
Benzene	ppb	20.0	19.9	1	15%
Toluene	ppb	20.0	19.6	2	15%
Ethylbenzene	ppb	20.0	19.7	1	15%
m,p-Xylene	ppb	40.0	37.9	5	15%
o-Xylene	ppb	20.0	18.7	7	15%

Matrix Spike

Parameter	*1- Percent Recovered*	*2 - Percent Recovered*	*Limit*	*%RSD*	*Limit*
Benzene	109	111	(39-150)	1	20%
Toluene	80	83	(46-148)	1	20%
Ethylbenzene	102	104	(32-160)	1	20%
m,p-Xylene	88	90	(35-145)	1	20%
o-Xylene	92	94	(35-145)	1	20%

Surrogate Recoveries

Laboratory Identification	*S1 Percent Recovered*	*S2 Percent Recovered*	*Laboratory Identification*	*S1 Percent Recovered*	*S2 Percent Recovered*
Limit Percent Recovered	(70-130)		*Limit Percent Recovered*	(70-130)	
12389-4484	97				

S1: *Flourobenzene*

PC

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

QUALITY ASSURANCE REPORT

for EPA Method 8020

Date Analyzed: 12-Nov-96

Internal QC No.: 0515-QC
Surrogate QC No.: 0516-QC
Reference Standard QC No.: 0417-QC

Method Blank

Analyte	*Result*	*Units of Measure*
Average Amount of All Analytes In Blank	<0.2	ppb

Calibration Check

Analyte	*Units of Measure*	*True Value*	*Analyzed Value*	*% Diff*	*Limit*
Benzene	ppb	20.0	19.8	1	15%
Toluene	ppb	20.0	19.9	1	15%
Ethylbenzene	ppb	20.0	19.9	1	15%
m,p-Xylene	ppb	40.0	39.5	1	15%
o-Xylene	ppb	20.0	19.6	2	15%

Matrix Spike

Analyte	*1- Percent Recovered*	*2 - Percent Recovered*	*Limit*	*%RSD*	*Limit*
Benzene	99	98	(39-150)	1	20%
Toluene	102	101	(46-148)	1	20%
Ethylbenzene	104	102	(32-160)	1	20%
m,p-Xylene	102	101	(35-145)	1	20%
o-Xylene	102	102	(35-145)	0	20%

Surrogate Recoveries

Laboratory Identification	*S1 Percent Recovered*	*S2 Percent Recovered*	*Laboratory Identification*	*S1 Percent Recovered*	*S2 Percent Recovered*
Limit Percent Recovery	(70-130)		*Limit Percent Recovery*	(70-130)	
S1: Flourobenzene			*S1: Flourobenzene*		
12815-6182	97				
12816-6182	90				
12817-6182	118				

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

QUALITY ASSURANCE REPORT

for EPA Method 8020

Date Analyzed: 13-Nov-96

Internal QC No.: 0515-QC
Surrogate QC No.: 0516-QC
Reference Standard QC No.: 0417-QC

Method Blank

Parameter	*Result*	*Unit of Measure*
Average Amount of All Analytes In Blank	<0.2	ppb

Calibration Check

Parameter	*Unit of Measure*	*True Value*	*Analyzed Value*	*% Diff*	*Limit*
Benzene	ppb	20.0	20.0	0	15%
Toluene	ppb	20.0	20.6	3	15%
Ethylbenzene	ppb	20.0	21.0	5	15%
m,p-Xylene	ppb	40.0	41.3	3	15%
o-Xylene	ppb	20.0	20.9	4	15%

Matrix Spike

Parameter	*1- Percent Recovered*	*2 - Percent Recovered*	*Limit*	*%RSD*	*Limit*
Benzene	99	98	(39-150)	1	20%
Toluene	102	101	(46-148)	1	20%
Ethylbenzene	104	102	(32-160)	1	20%
m,p-Xylene	102	101	(35-145)	1	20%
o-Xylene	102	102	(35-145)	0	20%

Surrogate Recoveries

Laboratory Identification	*S1 Percent Recovered*	*S2 Percent Recovered*	*Laboratory Identification*	*S1 Percent Recovered*	*S2 Percent Recovered*
Limit Percent Recovered	(70-130)		*Limit Percent Recovered*	(70-130)	
12818-6182	97				
12819-6182	98				
12820-6182	97				

(12)

S1: Flourobenzene

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

QUALITY ASSURANCE REPORT

for EPA Method 8020

Date Analyzed: 15-Nov-96

Internal QC No.: 0515-QC
Surrogate QC No.: 0516-QC
Reference Standard QC No.: 0417-QC

Method Blank

Parameter	*Result*	*Unit of Measure*
Average Amount of All Analytes In Blank	<0.2	ppb

Calibration Check

Parameter	*Unit of Measure*	*True Value*	*Analyzed Value*	*% Diff*	*Limit*
Benzene	ppb	20.0	19.5	2	15%
Toluene	ppb	20.0	20.2	1	15%
Ethylbenzene	ppb	20.0	20.4	2	15%
m,p-Xylene	ppb	40.0	40.2	0	15%
o-Xylene	ppb	20.0	20.1	0	15%

Matrix Spike

Parameter	*1- Percent Recovered*	*2 - Percent Recovered*	*Limit*	*%RSD*	*Limit*
Benzene	118	110	(39-150)	5	20%
Toluene	120	112	(46-148)	5	20%
Ethylbenzene	122	113	(32-160)	5	20%
m,p-Xylene	118	110	(35-145)	5	20%
o-Xylene	115	107	(35-145)	5	20%

Surrogate Recoveries

Laboratory Identification	*S1 Percent Recovered*	*S2 Percent Recovered*	*Laboratory Identification*	*S1 Percent Recovered*	*S2 Percent Recovered*
Limit Percent Recovered	(70-130)		*Limit Percent Recovered*	(70-130)	
12821-6182	97				

S1: Flourobenzene

(12)

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

QUALITY ASSURANCE REPORT

for EPA Method 8020

Date Analyzed: 14-Feb-97

Internal QC No.: 0527-STD
Surrogate QC No.: 0528-STD
Reference Standard QC No.: 0417-QC

Method Blank

Analyte	*Result*	*Units of Measure*
Average Amount of All Analytes In Blank	<0.2	ppb

Calibration Check

Analyte	*Units of Measure*	*True Value*	*Analyzed Value*	*% Diff*	*Limit*
Benzene	ppb	20.0	19.8	1	15%
Toluene	ppb	20.0	20.5	3	15%
Ethylbenzene	ppb	20.0	20.9	5	15%
m,p-Xylene	ppb	40.0	40.6	1	15%
o-Xylene	ppb	20.0	20.6	3	15%

Matrix Spike

Analyte	*1- Percent Recovered*	*2 - Percent Recovered*	*Limit*	*%RSD*	*Limit*
Benzene	83	79	(39-150)	3	20%
Toluene	90	79	(46-148)	8	20%
Ethylbenzene	82	78	(32-160)	4	20%
m,p-Xylene	77	73	(35-145)	3	20%
o-Xylene	77	74	(35-145)	3	20%

Surrogate Recoveries

Laboratory Identification	*S1 Percent Recovered*	*S2 Percent Recovered*	*Laboratory Identification*	*S1 Percent Recovered*	*S2 Percent Recovered*
Limit Percent Recovery	(70-130)		*Limit Percent Recovery*	(70-130)	
S1: Flourobenzene			*S1: Flourobenzene*		
13686-5009	94				
13687-5009	80				

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

QUALITY ASSURANCE REPORT

for EPA Method 8020

Date Analyzed: 24-Mar-97

Internal QC No.: 0527-STD
Surrogate QC No.: 0528-STD
Reference Standard QC No.: 0529/30-QC

Method Blank

Parameter	*Result*	*Unit of Measure*
Average Amount of All Analytes In Blank	<0.2	ppb

Calibration Check

Parameter	*Unit of Measure*	*True Value*	*Analyzed Value*	*% Diff*	*Limit*
Benzene	ppb	20.0	18.6	7	15%
Toluene	ppb	20.0	19.4	3	15%
Ethylbenzene	ppb	20.0	19.8	1	15%
m,p-Xylene	ppb	40.0	38.2	4	15%
o-Xylene	ppb	20.0	19.5	2	15%

Matrix Spike

Parameter	*1- Percent Recovered*	*2 - Percent Recovered*	*Limit*	*%RSD*	*Limit*
Benzene	89	88	(39-150)	1	20%
Toluene	92	92	(46-148)	0	20%
Ethylbenzene	94	94	(32-160)	0	20%
m,p-Xylene	90	90	(35-145)	0	20%
o-Xylene	93	93	(35-145)	0	20%

Surrogate Recoveries

Laboratory Identification	*S1 Percent Recovered*	*S2 Percent Recovered*	*Laboratory Identification*	*S1 Percent Recovered*	*S2 Percent Recovered*
Limit Percent Recovered	(70-130)		*Limit Percent Recovered*	(70-130)	
13998-5060	96				
13999-5060	93				

S1: *Flourobenzene*

3/26/97

P.O. BOX 2606 • FARMINGTON, NM 87499

4484

ON SITE TECHNOLOGIES, LTD.

657 W. Maple • P. O. Box 2606 • Farmington NM 87499
LAB: (505) 325-5667 • FAX: (505) 325-6256

CHAIN OF CUSTODY RECORD

Date: 9·30·96

Purchase Order No.:
Job No. 4-1303

SEND INVOICE TO
Name Conoco, Inc.
Company
Dept.
Address
City, State, Zip

REPORT RESULTS TO
Name Myke Layne
Title
Company c/o On Site Technologies
Mailing Address
City, State, Zip
Telephone No.
Telefax No.

Sampling Location: Conoco SEK 1-E

Sampler: ML

SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	MATRIX	PRES.	Number of Containers	8015	BTEX							LAB ID
Test Hole #1 @ 42"	9.30	1115	Soil	N		✓								17787-[illegible]
Test Hole #2 - 30-42"	9.30	1145	Soil	N		✓								17788-
~~[illegible]~~	~~9.30~~	~~1300~~	~~Soil~~			~~✓~~	~~H~~							
TH-1' Groundwater	9.30	1140	H2O	HgCl2			✓							17789-
"TH-2" " "	9.30	1150	H2O	HgCl2		HOLD								17790-

ANALYSIS REQUESTED

Relinquished by: [signature]	Date/Time 9-30-96 / 1345	Received by: [signature]	Date/Time 9/30/96 1345
Relinquished by:	Date/Time	Received by:	Date/Time
Relinquished by:	Date/Time	Received by:	Date/Time

Method of Shipment:

Authorized by: [signature] Date 9-30-96
(Client Signature Must Accompany Request)

Rush | 24-48 Hours | 10 Working Days | Special Instructions:

Distribution: White – On Site Yellow – LAB Pink – Sampler Goldenrod – Client

ON SITE TECHNOLOGIES, LTD.

657 W. Maple • P. O. Box 2606 • Farmington NM 87499
LAB: (505) 325-5667 • FAX: (505) 325-6256

CHAIN OF CUSTODY RECORD

6182

Date: Nov. 11, 96

Page 1 of 1

Purchase Order No.:
Job No. 4-1263

SEND INVOICE TO
Name: Michael Lane, On Site Technologies
Company: c/o Conoco
Dept.:
Address:
City, State, Zip:

REPORT RESULTS TO
Name: Michael Lane
Title: [illegible]
Company: On Site Tech.
Mailing Address:
City, State, Zip:
Telephone No.:
Telefax No.:

Sampling Location: [illegible] 1E [illegible] Pit Area & [illegible] Tank Containment

Sampler: Michael K. Lane

ANALYSIS REQUESTED

SAMPLE IDENTIFICATION	DATE	TIME	MATRIX	PRES.	Number of Containers	BTEX 8020	TPH 8015	LAB ID
Test Hole #2 @ 24" (@GW)	11/11	1030	Soil	N	1	✓	✓	12815-(152
TH #4 @ 24"	11/11	1045	Soil	N	1	✓	✓	12816
TH #4 @ 36"	11/11	1050	Soil	N	1	✓	✓	12817
TH 2 Ground Water	11/11	1107	Wtr	HgCl2	1	✓		12818
TH 4 Ground Water	11/11	1105	Wtr	"	2	✓		12819
Drainage Ditch	11/11	1110	Wtr	"	2	✓		12820
@ Storage Tank	11/11	1115	Wtr	"	2	✓		12821

Relinquished by: [signature] Date/Time 11/11/96, 1400 Received by: [signature] Date/Time 11/11/96 1400

Relinquished by: Date/Time Received by: Date/Time

Relinquished by: Date/Time Received by: Date/Time

Method of Shipment:

Rush | 24-48 Hours | 10 Working Days | Special Instructions:

Authorized by: ____________ Date ______
(Client Signature Must Accompany Request)

Distribution: White – On Site Yellow – LAB Pink – Sampler Goldenrod – Client

CHAIN OF CUSTODY RECORD

3009

ON SITE TECHNOLOGIES, LTD.

657 W. Maple • P. O. Box 2606 • Farmington NM 87499
LAB: (505) 325-5667 • FAX: (505) 325-6256

Date: 2.13.97

Page 1 of 1

Purchase Order No.: | Job No. 4-1303

SEND INVOICE TO
Name c/o Michael Lane
Company Conoco | Dept.
Address
City, State, Zip

REPORT RESULTS TO
Name Michael K. Lane | Title Sampler
Company On Site Technologies, Ltd.
Mailing Address
City, State, Zip
Telephone No. | Telefax No.

Sampling Location: [illegible]

Sampler: Michael K. Lane

SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	MATRIX	PRES.	Number of Containers	TPH 418.1	BTEX 8020	LAB ID
[illegible] 4.5'	2/13	1000	[illegible]	N	1	✓	✓	
[illegible] 4.5'	"		"	"	1	✓	✓	

ANALYSIS REQUESTED

Relinquished by: [illegible] | Date/Time 2/13/97 1300 | Received by: [illegible] | Date/Time [illegible]
Relinquished by: | Date/Time | Received by: | Date/Time
Relinquished by: | Date/Time | Received by: | Date/Time

Method of Shipment:

Authorized by: [signature] Date 2/13/97
(Client Signature Must Accompany Request)

Rush	24-48 Hours	10 Working Days	Special Instructions:

Distribution: White – On Site Yellow – LAB Pink – Sampler Goldenrod – Client

CHAIN OF CUSTODY RECORD

5060

ON SITE TECHNOLOGIES, LTD.

657 W. Maple • P. O. Box 2606 • Farmington NM 87499
LAB: (505) 325-5667 • FAX: (505) 325-6256

Date: 3/20/97

Page 1 of

Purchase Order No.:
Job No. 4-[illegible]

SEND INVOICE TO
Name: [illegible]
Company: [illegible]
Dept.:
Address:
City, State, Zip:

REPORT RESULTS TO
Name: Michael Lane
Title: [illegible]
Company: On Site
Mailing Address:
City, State, Zip:
Telephone No.:
Telefax No.:

Sampling Location: [illegible] #1E

Sampler: Michael Lane

SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	MATRIX	PRES.	Number of Containers	ANALYSIS REQUESTED: BTEX 8020									LAB ID
Tank Excavation - MW	3/20	1010	Water	HgCl2	2	✓									13998-5060
[illegible] Pit Exc. - MW	"	1020	Water	HgCl2	2	✓									13999-5060

Relinquished by: [signature]	Date/Time 3/20/97 1045	Received by: [signature]	Date/Time 3/20/97 1045
Relinquished by:	Date/Time	Received by:	Date/Time
Relinquished by:	Date/Time	Received by:	Date/Time

Method of Shipment:

Authorized by: [signature] Date 3/20/97
(Client Signature Must Accompany Request)

Rush	24-48 Hours	10 Working Days	Special Instructions:

Distribution: White – On Site Yellow Pink – Sampler Goldenrod – Client