3R - 86

REPORTS

DATE:

1/19/1998

On Site Technologies, Ltd.

Letter of Transmittal

ATTENTION:

Mr. Bill Olson
New Mexico Oil Conservation Division
2040 S. Pacheco St.
Santa Fe, NM 87505

DATE:

January 19, 1998

PROJECT REFERENCE:

Remediation Summary Farmington Com #1

We are sending you the following:

No. Originals	No. Copies	Description
	1	Remediation Summary Report

REMARKS:

Dear Mr. Olson:

Per the request of Conoco Inc., we are forwarding your office one copy of the referenced report regarding the Farmington Com #1.

SIGNATURE:

Larry Trujillo,
Sr. Environmental Technician

ON SITE
TECHNOLOGIES, LTD.

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

January 16, 1998

Attn.: Mr. Neal Goates, Senior Environmental Specialist

RE: Remediation Summary
Farmington Com #1
Unit P, Sec. 11, T29W, R13W, NMPM
San Juan County, New Mexico

Project No: 4-1372

The following correspondence has been prepared by ***On Site Technologies Limited Partnership*** for Conoco Inc. This correspondence summarizes the remediation by excavation done at Farmington Com #1 during December 15-18, 1997.

PROJECT SUMMARY:

On March 10, 1997, ***On Site Technologies*** conducted a site assessment using a pick-up mounted hydraulic punch and auger unit. A total of 19 test holes were drilled to depths ranging from 4.5 to 6 feet. Ground water impact from hydrocarbons was suspected. Three monitoring wells were installed in selected test holes. (Refer to ***On Site Technologies*** report dated April 16, 1997.)

TPH and BTEX soil contamination were found approximately three (3) to six (6) feet below the surface east of separator equipment. Soil contamination appeared to be limited to the north and extended outside of the fenced location towards the Animas River. Based on the reported findings of the Merrion Oil assessment (January 1997) and the additional investigation conducted by On Site (April 1997), an area of approximately 4,720 square feet with 500 to 1000 cubic yards of soil was estimated to be contaminated. (Refer to ***On Site Technologies*** report dated April 16, 1997.)

Only MW-1, located near the center of the soil contamination, exhibited levels of benzene above the New Mexico Water Quality Control Commission (WQCC) standards for ground water.

No other areas of soil or ground water contamination were found during the assessment effort or during earlier efforts by Merrion Oil, the current operator.

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

SUMMARY OF REMEDIATION EFFORTS:

Excavation of the Farmington Com #1 was originally scheduled to begin on November 17, 1997. Due to scheduling problems with Merrion Oil, the excavation was re-scheduled to December 15, 1997.

New Mexico One Call was called for both November 17,1997, and December 15, 1997, excavation efforts. The purpose of the call was to locate and mark any underground utilities that might be a potential problem or limit the area of excavation.

Between December 15 and 18, 1997, ***On Site Technologies*** and Consolidated Contractors Inc. excavated the contaminated soils at Farmington Com #1.

Approximately 1400 cubic yards of soil were excavated. Excavated soils were transported off site to Envirotech Landfarm Number Three (3) near Farmington, New Mexico for landfarm treatment. Clean uncontaminated soil was imported from off site to be used as backfill for the excavation. Mr. Denny Foust, of New Mexico Oil Conservation Division (NMOCD), Deputy Oil and Gas Inspector, witnessed some of the project.

Due to the proximity to Animas Park and very limited space on the location, the excavation was started in the fenced area. Using a trackhoe, the soil approximately three (3) feet from the marked production line was carefully removed. This was done to avoid damaging the production line. (Refer to attached site map.)

During this operation, an unmarked drip line leading to the separator from the main gathering line was encountered (Refer to site map). The drip line carried natural gas and associated liquids. The teeth of the trackhoe bucket snagged the line, but did not break the line. The drip line was not previously marked.

Conversations with Merrion Oil representatives indicated that the drip line location had previously been unknown. The representatives also stated that there was a possibility of an underground drip tank and that the location and depth of the drip tank were also unknown. Initially, with Mr. Foust's concurrence, the excavation effort was to be limited to no closer than three (3) feet on either side of the production line. Contaminated soil was encountered in the area of the drip line from the surface to ground water, approximately eight (8) feet below existing ground surface.

The excavation inside the fenced site was taken east to approximately two (2) feet from the east perimeter fence, and west to the fence surrounding the separator. On the south, the limit of the excavation was on a line running from the east gate corner post to approximately ten (10) feet south of the separator fence (refer to attached site map). An area of contamination, approximately eight (8) feet wide and extending from the meter house to the east perimeter fence, was to remain in place. This was done to avoid excavating under the production line.

During the excavation near the site of MW#1(Refer to On Site's report dated April 16,1997), buried fence posts, piping, and fencing were removed, indicating the site of a former pit. The site was located approximately ten (10) feet east of the separator fence and twenty (20) feet south of the meter house.

Unable to excavate under or any closer than three (3) feet to the production line, the operation was moved outside the fenced site. A section of the north perimeter fence, approximately forty (40) feet, was removed to provide access to soil near the production line. There was approximately three (3) feet of roadbase covering the planned area of excavation. The roadbase was removed and stockpiled on site to be replaced after excavation was completed.

Excavation was to be limited to the north by the main gathering system and west by a tree line bordering the east edge of Animas Park (refer to site map). Merrion Oil marked the approximate location of the drip line on December 16, 1997. The drip line ran diagonally across the excavation from northwest to southeast (refer to site map). The excavation extended from the northeast corner post of the perimeter fence approximately 70 feet west and north to within approximately three (3) feet of the main gathering system.

On December 17, 1997, while excavating near the northern section of the drip line, the trackhoe punctured the line approximately two (2) inches above the drip tank. The drip line did not run horizontally across the excavation site as indicated by markers, but took a ninety (90) degree turn down to the drip tank. This turn was not anticipated by the operator, site supervisor, or representative from Merrion Oil. The line was pressurized to approximately 100 pounds per square inch (psi). When the line was punctured, all equipment was immediately shut down to prevent fire or explosion from the escaping natural gas and associated liquids.

The Site Supervisor, Larry Trujillo, immediately evacuated the site of all personnel to a safe area upwind of the puncture. The Site Supervisor then immediately notified by telephone, Tim Merilatt of Merrion Oil, and Cindy Gray of ***On Site***, who notified Denny Foust of NMOCD and Shirley Ebert of Conoco of the incident.

A crew provided by Merrion Oil shut in the well and isolated the gathering system line. A large amount of paraffin was sprayed over the excavation and exposed ground water. A vacuum truck was called in to remove the contaminated water and as much paraffin as possible. Any soil contaminated by the incident was to be excavated and removed off site. Sphag-Sorb™ absorbent was spread on the remaining paraffin and surface contamination to encapsulate and prevent any further contamination.

Since the drip line was deactivated, Merrion Oil requested that the drip line be further uncovered to facilitate repairs to drip line and drip tank. The trackhoe operator excavated a trench along the drip line. The operator then undercut the soil below the drip line to allow the soil around and above the drip line to slough into the trench where it could be removed. The removed soil was heavily contaminated and was transported to Envirotech Landfarm Number Three (3). This was done until approximately three (3) to four (4) feet of the drip tank and approximately forty (40) feet of drip line were exposed.

Merrion Oil also requested that the production line running from the meter house to the gathering point be exposed to determine whether the drip line ran over or under the production line.

The trackhoe operator excavated a trench along the production line. The soil below the production line was undercut to allow the soil above and around the production line to slough into the trench where the soil could be removed. Only enough soil was removed to expose the production line, but not enough to leave the production line unsupported. Upon inspection of the production line by Merrion Oil, it was discovered that the protective covering on the production line was deteriorating. The production line was totally uncovered to the extent of the deteriorated covering to facilitate repair of the covering.

By uncovering the production line, the area of contamination that was initially planned to remain was easily removed from under the drip line. The only residual soil contamination believed to remain is located south of the north perimeter fence, under the meter house.

At Mr. Foust's request, and to enhance insitu degradation of residual hydrocarbon contamination in the remaining soils, approximately twenty (20) gallons of liquid fertilizer were applied using a hand sprayer prior to and during backfilling.

To monitor progress of the excavation, soil samples were taken from the excavation sidewalls near the bottom and field screened for volatile hydrocarbons per NMOCD Field Heated Headspace Method. Select samples were split, placed in clean jars with Teflon® closure and put on ice for delivery to the laboratory. Proper chain of custody protocol was followed.

Soil conditions throughout the excavation consisted of sandy soils from ground surface to the top of the water table where the soil contained large cobbles. Approximately 1400 cubic yards of soil were excavated from this location and transported to Envirotech Landfarm Number Three (3). The location was backfilled using uncontaminated soil imported from offsite. During the backfill portion of the operation, the trackhoe operator used the bucket of the trackhoe to compact backfilled soil. A front-end loader was used to smooth and level the site. The stockpiled roadbase was re-spread. The site was returned to as close to its original condition as possible.

SUMMARY OF SAMPLING EFFORTS:

Sampling was done as if two (2) separate excavation operations had been performed. The production line that bisected the excavation from west to east was used as a boundary line to separate the excavations (refer to sampling location drawing).

All soil samples delivered to the laboratory were analyzed for Total Petroleum Hydrocarbon (TPH) per EPA Method 8015M. Samples with a field headspace reading over 100 were also analyzed for BTEX per EPA Method 8020. Results of field screening and laboratory analysis for the selected samples are shown on following table.

Sample Number Two (2) of Excavation Two (2), exhibits PID reading and laboratory results that exceed regulatory limits. This sample was taken along the north fence and represents the level of contamination left under the meter house. This area could not be excavated due the proximity of the meter house, separator, drip tank and buried lines (i.e., production and drip lines).

	Sample Number	Date	Time	PID Units	TPH (ppm)	Benzene (ppm)	Total BTEX (ppm)
Excavation #1	#5	12/16/97	0855	179.0	26.7	BDL	0.156
	#7		1138	66.3	BDL		
	#8		1143	27.1	BDL		
Excavation #2	#1	12/16/97	1153	54.6	BDL		
	#2		1207	2096.0	144.0	BDL	4.70
	#3		1408	281.0	7.0	BDL	0.41
	#5		1542	301.0	40.0	BDL	1.23
	#7	12/17/97	1530	62.8	BDL		

BDL, Below Detection Limits
ppm, Parts Per Million

Copies of the laboratory reports, quality control/quality assurance (QC/QA) and chain-of-custody are attached.

Monitor Well Installations:

During the excavation, existing MW-1 was removed and a new monitoring well (MW#1) was installed in the area of the former pit. (Refer to attached site sketch.) The replacement well was constructed in the same manner as existing wells MW#2 and MW#3 with a total depth 9.92 feet and top of screen interval at 4.92 feet. See On Site's report dated April 16, 1997, for typical construction details.

On December 30, 1997, a level survey was completed to establish relative elevation for the monitoring well tops of casing. Water levels were then measured from top of casing for each well. Following the water level measurements, water samples were collected from each well. Prior to sampling, each well was purged by bailing approximately three well volumes. Water samples from MW#1 were taken for Polynuclear Aromatic Hydrocarbons (PAH) analysis, American Petroleum Institute Method RP 45 (API) analysis, RCRA Total Metals analysis and BTEX analysis per EPA Method 8020. MW#2 was sampled for BTEX per EPA Method 8020. MW#3 contained no measurable water, so no samples were taken. All samples were placed in approved containers, labeled and placed on ice for transport to the laboratory for analysis. Proper chain of custody protocol was followed.

Figure 3 shows the apparent ground water potentiometic surface based on the December, 1997, sampling.

RECOMMENDATION:

Based on the former assessment, visual observation and laboratory results associated with the excavation and remediation, the following is recommended:

1. Laboratory analyses, for BTEX per EPA Method 8020, major cations/anions, (API Method RP45), RCRA Metals, PAH and total dissolved phase solids (TDS), should be used to determine if ground water impact has occurred above New Mexico Water Quality Control Commission (WQCC) action levels.
2. If no ground water impact is detected, the monitoring wells will be plugged and abandoned following NMOCD procedures. If ground water impact is detected, ground water monitoring should be performed on a periodic basis per Conoco's Comprehensive Ground Water Remediation Plan until four consecutive sample events measure hydrocarbon contamination below current WQCC standards.
3. No further excavation or soil treatment is appropriate at the present time, as the majority of soil contamination is believed to have been removed. If ground water monitoring indicates further deterioration of the water quality, additional measures may need to be taken to further eliminate the source.

LIMITATION AND CLOSURE:

This summary documents visual observation of the site, subsurface conditions encountered during this remediation project, and analysis of soil samples collected during the excavation. This summary does not reflect subsurface variations which may exist between sampling points or subsurface changes which may occur due to seasonal variation.

The scope of our services consisted of the performance of site remediation by soil excavation, project management and sampling during soil excavation efforts, field and lab testing of soil 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 Limited Partnership for the exclusive use of Conoco Inc. as it pertains to the referenced well location previously operated by Conoco. If there are any questions regarding this report, please contact either Larry Trujillo or Myke Lane at On Site Technologies, (505) 325-5667. Thank you for allowing On Site to assist you with this matter.

Respectfully submitted by,

Lawrence Trujillo
Sr. Environmental Technician

Reviewed by,

Michael K. Lane, PE
Sr. Engineer

On Site Technologies Limited Partnership

cc: Shirley Ebert, Conoco Farmington Office
Attachments:
Lab Results, QA/QC & Chains of Custody
Bills of Lading
Site Sketch
Sample Location Map
Ground Water Potentiometric Map
Safety Forms

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Attn:	*Larry Trujillo*	Date:	5-Jan-98
Company:	*On Site Technologies, Ltd.*	COC No.:	*6777*
Address:	*612 E. Murray Drive*	Sample No.:	*17197*
City, State:	*Farmington, NM 87401*	Job No.:	*4-1372*

Project Name:	***Conoco, Inc. - Farmington Com #1***				
Project Location:	***EXC-1-5***				
Sampled by:	LT	Date:	16-Dec-98	Time:	8:55
Analyzed by:	DC/HR	GRO Date:	28-Dec-98		
Sample Matrix:	*Soil*	DRO Date:	31-Dec-98		

Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
Gasoline Range Organics (C5 - C9)	3.7	mg/kg	0.5	mg/kg
Diesel Range Organics (C10 - C28)	23	mg/kg	5	mg/kg

ND - Not Detected at Limit of Quantitation

Quality Assurance Report

GRO QC No.: 0554-STD

DRO QC No.: 0555-STD

Continuing Calibration Verification

Parameter	Method Blank	Unit of Measure	True Value	Analyzed Value	RPD	RPD Limit
Gasoline Range (C5 - C9)	ND	ppb	1,801	1,796	0.3	15%
Diesel Range (C10 - C28)	ND	ppm	200	219	8.9	15%

Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
Gasoline Range (C5-C9)	85	81	(80-120)	4	20%
Diesel Range (C10-C28)	108	111	(75-125)	3	20%

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

Approved by:

Date: 1/5/98

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Attn:	*Larry Trujillo*	Date:	30-Dec-97
Company:	*On Site Technologies, Ltd.*	COC No.:	*6777*
Address:	*612 E. Murray Drive*	Sample No.:	*17197*
City, State:	*Farmington, NM 87401*	Job No.:	*4-1372*

Project Name:	***Conoco, Inc. - Farmington Com #1***				
Project Location:	***EXC-1-5***				
Sampled by:	LT	Date:	16-Dec-97	Time:	8:55
Analyzed by:	DC	Date:	29-Dec-97		
Sample Matrix:	*Soil*				

Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
Benzene	ND	ug/kg	1	ug/kg
Toluene	1	ug/kg	1	ug/kg
Ethylbenzene	55	ug/kg	1	ug/kg
m,p-Xylene	68	ug/kg	1	ug/kg
o-Xylene	32	ug/kg	1	ug/kg
TOTAL	156	ug/kg		

ND - Not Detected at Limit of Quantitation

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

Approved by:
Date: 12/30/97

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Attn:	*Larry Trujillo*	Date:	5-Jan-98
Company:	*On Site Technologies, Ltd.*	COC No.:	*6777*
Address:	*612 E. Murray Drive*	Sample No.:	*17198*
City, State:	*Farmington, NM 87401*	Job No.:	*4-1372*

Project Name:	***Conoco, Inc. - Farmington Com #1***				
Project Location:	***EXC-1-7***				
Sampled by:	LT	Date:	16-Dec-98	Time:	11:38
Analyzed by:	DC/HR	GRO Date:	29-Dec-98		
Sample Matrix:	*Soil*	DRO Date:	31-Dec-98		

Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
Gasoline Range Organics (C5 - C9)	ND	mg/kg	0.5	mg/kg
Diesel Range Organics (C10 - C28)	ND	mg/kg	5	mg/kg

ND - Not Detected at Limit of Quantitation

Quality Assurance Report

GRO QC No.: 0554-STD

DRO QC No.: 0555-STD

Continuing Calibration Verification

Parameter	Method Blank	Unit of Measure	True Value	Analyzed Value	RPD	RPD Limit
Gasoline Range (C5 - C9)	ND	ppb	1,801	1,867	3.6	15%
Diesel Range (C10 - C28)	ND	ppm	200	219	8.9	15%

Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
Gasoline Range (C5-C9)	85	81	(80-120)	4	20%
Diesel Range (C10-C28)	108	111	(75-125)	3	20%

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

Approved by:

Date: 1/5/98

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Attn:	*Larry Trujillo*	Date:	5-Jan-98
Company:	*On Site Technologies, Ltd.*	COC No.:	*6777*
Address:	*612 E. Murray Drive*	Sample No.:	*17199*
City, State:	*Farmington, NM 87401*	Job No.:	*4-1372*

Project Name:	***Conoco, Inc. - Farmington Com #1***				
Project Location:	***EXC-1-8***				
Sampled by:	LT	Date:	16-Dec-98	Time:	11:43
Analyzed by:	DC/HR	GRO Date:	28-Dec-98		
Sample Matrix:	*Soil*	DRO Date:	31-Dec-98		

Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
Gasoline Range Organics (C5 - C9)	ND	mg/kg	0.5	mg/kg
Diesel Range Organics (C10 - C28)	ND	mg/kg	5	mg/kg

ND - Not Detected at Limit of Quantitation

Quality Assurance Report

GRO QC No.: 0554-STD

DRO QC No.: 0555-STD

Continuing Calibration Verification

Parameter	Method Blank	Unit of Measure	True Value	Analyzed Value	RPD	RPD Limit
Gasoline Range (C5 - C9)	ND	ppb	1,801	1,796	0.3	15%
Diesel Range (C10 - C28)	ND	ppm	200	219	8.9	15%

Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
Gasoline Range (C5-C9)	85	81	(80-120)	4	20%
Diesel Range (C10-C28)	108	111	(75-125)	3	20%

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

Approved by:

Date: 1/5/98

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Attn:	*Larry Trujillo*	Date:	5-Jan-98
Company:	*On Site Technologies, Ltd.*	COC No.:	*6777*
Address:	*612 E. Murray Drive*	Sample No.:	*17200*
City, State:	*Farmington, NM 87401*	Job No.:	*4-1372*

Project Name:	***Conoco, Inc. - Farmington Com #1***				
Project Location:	***EXC-2-1***				
Sampled by:	LT	Date:	16-Dec-98	Time:	11:53
Analyzed by:	DC/HR	GRO Date:	28-Dec-98		
Sample Matrix:	*Soil*	DRO Date:	31-Dec-98		

Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
Gasoline Range Organics (C5 - C9)	ND	mg/kg	0.5	mg/kg
Diesel Range Organics (C10 - C28)	ND	mg/kg	5	mg/kg

ND - Not Detected at Limit of Quantitation

Quality Assurance Report

GRO QC No.: 0554-STD

DRO QC No.: 0555-STD

Continuing Calibration Verification

Parameter	Method Blank	Unit of Measure	True Value	Analyzed Value	RPD	RPD Limit
Gasoline Range (C5 - C9)	ND	ppb	1,801	1,796	0.3	15%
Diesel Range (C10 - C28)	ND	ppm	200	219	8.9	15%

Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
Gasoline Range (C5-C9)	85	81	(80-120)	4	20%
Diesel Range (C10-C28)	108	111	(75-125)	3	20%

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

Approved by:

Date: 1/5/98

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Attn:	*Larry Trujillo*	Date:	5-Jan-98
Company:	*On Site Technologies, Ltd.*	COC No.:	*6777*
Address:	*612 E. Murray Drive*	Sample No.:	*17201*
City, State:	*Farmington, NM 87401*	Job No.:	*4-1372*

Project Name:	***Conoco, Inc. - Farmington Com #1***				
Project Location:	***EXC-2-2***				
Sampled by:	LT	Date:	16-Dec-98	Time:	12:07
Analyzed by:	DC/HR	GRO Date:	29-Dec-98		
Sample Matrix:	*Soil*	DRO Date:	31-Dec-98		

Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
Gasoline Range Organics (C5 - C9)	33	mg/kg	13	mg/kg
Diesel Range Organics (C10 - C28)	111	mg/kg	5	mg/kg

ND - Not Detected at Limit of Quantitation

Quality Assurance Report

GRO QC No.: 0554-STD

DRO QC No.: 0555-STD

Continuing Calibration Verification

Parameter	Method Blank	Unit of Measure	True Value	Analyzed Value	RPD	RPD Limit
Gasoline Range (C5 - C9)	ND	ppb	1,801	1,867	3.6	15%
Diesel Range (C10 - C28)	ND	ppm	200	219	8.9	15%

Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
Gasoline Range (C5-C9)	85	81	(80-120)	4	20%
Diesel Range (C10-C28)	108	111	(75-125)	3	20%

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

Approved by:

Date: 1/5/98

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Attn:	*Larry Trujillo*	Date:	30-Dec-97
Company:	*On Site Technologies, Ltd.*	COC No.:	*6777*
Address:	*612 E. Murray Drive*	Sample No.:	*17201*
City, State:	*Farmington, NM 87401*	Job No.:	*4-1372*

Project Name:	***Conoco, Inc. - Farmington Com #1***				
Project Location:	***EXC-2-2***				
Sampled by:	LT	Date:	16-Dec-97	Time:	12:07
Analyzed by:	DC	Date:	29-Dec-97		
Sample Matrix:	*Soil*				

Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
Benzene	ND	ug/kg	25	ug/kg
Toluene	453	ug/kg	25	ug/kg
Ethylbenzene	405	ug/kg	25	ug/kg
m,p-Xylene	3794	ug/kg	25	ug/kg
o-Xylene	52	ug/kg	25	ug/kg
TOTAL	4704	ug/kg		

ND - Not Detected at Limit of Quantitation

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

Approved by:
Date: 12/30/97

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Attn:	*Larry Trujillo*	Date:	5-Jan-98
Company:	*On Site Technologies, Ltd.*	COC No.:	*6777*
Address:	*612 E. Murray Drive*	Sample No.:	*17202*
City, State:	*Farmington, NM 87401*	Job No.:	*4-1372*

Project Name:	***Conoco, Inc. - Farmington Com #1***				
Project Location:	***EXC-2-3***				
Sampled by:	LT	Date:	16-Dec-98	Time:	14:08
Analyzed by:	DC/HR	GRO Date:	28-Dec-98		
Sample Matrix:	*Soil*	DRO Date:	31-Dec-98		

Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
Gasoline Range Organics (C5 - C9)	ND	mg/kg	0.5	mg/kg
Diesel Range Organics (C10 - C28)	7	mg/kg	5	mg/kg

ND - Not Detected at Limit of Quantitation

Quality Assurance Report

GRO QC No.: 0554-STD

DRO QC No.: 0555-STD

Continuing Calibration Verification

Parameter	Method Blank	Unit of Measure	True Value	Analyzed Value	RPD	RPD Limit
Gasoline Range (C5 - C9)	ND	ppb	1,801	1,796	0.3	15%
Diesel Range (C10 - C28)	ND	ppm	200	219	8.9	15%

Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
Gasoline Range (C5-C9)	85	81	(80-120)	4	20%
Diesel Range (C10-C28)	108	111	(75-125)	3	20%

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

Approved by:

Date: 1/5/98

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Attn:	*Larry Trujillo*	Date:	30-Dec-97
Company:	*On Site Technologies, Ltd.*	COC No.:	*6777*
Address:	*612 E. Murray Drive*	Sample No.:	*17202*
City, State:	*Farmington, NM 87401*	Job No.:	*4-1372*

Project Name:	***Conoco, Inc. - Farmington Com #1***				
Project Location:	***EXC-2-3***				
Sampled by:	LT	Date:	16-Dec-97	Time:	14:08
Analyzed by:	DC	Date:	29-Dec-97		
Sample Matrix:	*Soil*				

Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
Benzene	ND	ug/kg	1	ug/kg
Toluene	ND	ug/kg	1	ug/kg
Ethylbenzene	4	ug/kg	1	ug/kg
m,p-Xylene	35	ug/kg	1	ug/kg
o-Xylene	2	ug/kg	1	ug/kg
TOTAL	41	ug/kg		

ND - Not Detected at Limit of Quantitation

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

Approved by:
Date: 12/30/97

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Attn:	*Larry Trujillo*	Date:	5-Jan-98
Company:	*On Site Technologies, Ltd.*	COC No.:	*6777*
Address:	*612 E. Murray Drive*	Sample No.:	*17203*
City, State:	*Farmington, NM 87401*	Job No.:	*4-1372*

Project Name:	***Conoco, Inc. - Farmington Com #1***				
Project Location:	***EXC-2-5***				
Sampled by:	LT	Date:	16-Dec-98	Time:	15:42
Analyzed by:	DC/HR	GRO Date:	29-Dec-98		
Sample Matrix:	*Soil*	DRO Date:	31-Dec-98		

Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
Gasoline Range Organics (C5 - C9)	16	mg/kg	13	mg/kg
Diesel Range Organics (C10 - C28)	24	mg/kg	5	mg/kg

ND - Not Detected at Limit of Quantitation

Quality Assurance Report

GRO QC No.: 0554-STD

DRO QC No.: 0555-STD

Continuing Calibration Verification

Parameter	Method Blank	Unit of Measure	True Value	Analyzed Value	RPD	RPD Limit
Gasoline Range (C5 - C9)	ND	ppb	1,801	1,867	3.6	15%
Diesel Range (C10 - C28)	ND	ppm	200	219	8.9	15%

Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
Gasoline Range (C5-C9)	85	81	(80-120)	4	20%
Diesel Range (C10-C28)	108	111	(75-125)	3	20%

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

Approved by:

Date: 1/5/98

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Attn:	*Larry Trujillo*	Date:	30-Dec-97
Company:	*On Site Technologies, Ltd.*	COC No.:	*6777*
Address:	*612 E. Murray Drive*	Sample No.:	*17203*
City, State:	*Farmington, NM 87401*	Job No.:	*4-1372*

Project Name:	***Conoco, Inc. - Farmington Com #1***				
Project Location:	***EXC-2-5***				
Sampled by:	LT	Date:	16-Dec-97	Time:	15:42
Analyzed by:	DC	Date:	29-Dec-97		
Sample Matrix:	*Soil*				

Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
Benzene	ND	ug/kg	25	ug/kg
Toluene	56	ug/kg	25	ug/kg
Ethylbenzene	90	ug/kg	25	ug/kg
m,p-Xylene	1033	ug/kg	25	ug/kg
o-Xylene	60	ug/kg	25	ug/kg
TOTAL	1239	ug/kg		

ND - Not Detected at Limit of Quantitation

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

Approved by:
Date: 12/30/97

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Attn:	*Larry Trujillo*	Date:	5-Jan-98
Company:	*On Site Technologies, Ltd.*	COC No.:	*6777*
Address:	*612 E. Murray Drive*	Sample No.:	*17204*
City, State:	*Farmington, NM 87401*	Job No.:	*4-1372*

Project Name:	***Conoco, Inc. - Farmington Com #1***				
Project Location:	***EXC-2-7***				
Sampled by:	LT	Date:	17-Dec-98	Time:	15:30
Analyzed by:	DC/HR	GRO Date:	28-Dec-98		
Sample Matrix:	*Soil*	DRO Date:	31-Dec-98		

Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
Gasoline Range Organics (C5 - C9)	ND	mg/kg	0.5	mg/kg
Diesel Range Organics (C10 - C28)	ND	mg/kg	5	mg/kg

ND - Not Detected at Limit of Quantitation

Quality Assurance Report

GRO QC No.: 0554-STD

DRO QC No.: 0555-STD

Continuing Calibration Verification

Parameter	Method Blank	Unit of Measure	True Value	Analyzed Value	RPD	RPD Limit
Gasoline Range (C5 - C9)	ND	ppb	1,801	1,796	0.3	15%
Diesel Range (C10 - C28)	ND	ppm	200	219	8.9	15%

Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	RPD	RPD Limit
Gasoline Range (C5-C9)	85	81	(80-120)	4	20%
Diesel Range (C10-C28)	108	111	(75-125)	3	20%

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

Approved by:

Date: 1/5/98

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

QUALITY ASSURANCE REPORT

for EPA Method 8020

Date Analyzed: 29-Dec-97

Internal QC No.: 0559-STD
Surrogate QC No.: 0567-STD
Reference Standard QC No.: 0529/30-QC

Method Blank

Parameter	Result	Unit of Measure
Average Amount of All Analytes In Blank	<1.0	ppb

Calibration Check

Parameter	Unit of Measure	True Value	Analyzed Value	RPD	Limit
Benzene	ppb	60.0	60.6	1	15%
Toluene	ppb	60.0	63.1	5	15%
Ethylbenzene	ppb	60.0	61.2	2	15%
m,p-Xylene	ppb	120.0	120.9	1	15%
o-Xylene	ppb	60.0	61.5	2	15%

Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	RPD	Limit
Benzene	77	73	(39-150)	6	20%
Toluene	82	77	(46-148)	6	20%
Ethylbenzene	88	85	(32-160)	4	20%
m,p-Xylene	69	63	(35-145)	9	20%
o-Xylene	92	92	(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)	
17197-6777	94				
17201-6777	93				
17202-6777	93				
17203-6777	92				
				JHC	(DE)
				1/5/97	12/30/97

S1: Flourobenzene

6777

CHAIN OF CUSTODY RECORD

ON SITE TECHNOLOGIES, LTD.

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

Date: 12-19-97

Page 1 of 1

Purchase Order No.:	Job No. 4-1372		
SEND INVOICE TO: Name	Larry Trujillo	REPORT RESULTS TO: Name	Larry Trujillo / Title
Company	Conco / Dept.	Company	Conco
Address		Mailing Address	
City, State, Zip		City, State, Zip	
		Telephone No.	Telefax No.
Sampling Location:	Final Com #1		
Sampler:	Larry Trujillo		

SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	MATRIX	PRES.	Number of Containers	ANALYSIS REQUESTED: TPH 8015	BTEX	LAB ID
Exc-1-5	12/16/97	0855	Soil	N/A	1	✓	✓	
Exc-1-7	12/16/97	1138	Soil	N/A	1	✓		
Exc-1-8	12-16-97	1143	Soil	N/A	1	✓		
Exc-2-1	12-16-97	1153	Soil	N/A	1	✓		
Exc-2-2	12-16-97	1207	Soil	N/A	1	✓	✓	
Exc-2-3	12-16-97	1408	Soil	N/A	1	✓	✓	
Exc-2-5	12-16-97	1512	Soil	N/A	1	✓	✓	
Exc-2-7	12-16-97	1520	Soil	N/A	1	✓		

Relinquished by: Larry Trujillo	Date/Time 12-19-97/1007	Received by:	Date/Time
Relinquished by:	Date/Time	Received by:	Date/Time
Relinquished by:	Date/Time	Received by:	Date/Time

Method of Shipment:

Authorized by: _____ Date _____
(Client Signature Must Accompany Request)

Rush	24-48 Hours	10 Working Days	Special Instructions:

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

ENVIROTECH INC.

Bill of Lading

97070-01

10929

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 - 3014 • FARMINGTON, NEW MEXICO 87401

MONTH OF December 97

MANIFEST		COMPLETE DESCRIPTION OF SHIPMENT				TRANSPORTING COMPANY			
DATE	No.	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	COMPANY	TRK #	DRIVER SIGNATURE
12/15	1	Farmington Com 1 Animas Park	LANDFARM 5	Contam Diet	DD12	10	Consolidated Const	5388	
12/15	2	Farmington Com 1	Landfarm 5	Contam Diet	DD12	20	Consolidated Const	C-101	
12/15	3	Farmington Com 1	LANDFARM 5	Contam Diet	DD12	20	Consolidated Const	L-116	
12/15	4	Farmington Com 1	Landfarm 5	Contaminated Dirt	DD12	20	Dog Sand	531	
12/15	5	Farmington Com 1	Landfarm 5	Contam Dirt	DD13	10	Consolidated Const	CM03	
12/15	6	Farmington Com 1	LANDFARM 5	Contaminated Dirt	DD12	20	Consolidated Const	L-116	
12/15	7	Farmington Com 1	LANDFARM 5	Contaminated Dirt	DD13	20	Consolidated Const	531	
12/15	8	Farmington Com 1	Landfarm 5	Contam Diet	DD13	10	Consolidated Const	CM03	
12/15	9	Farmington Com 1	Landfarm 5	Contam Diet	DD13	20	Consolidated Const	C-910	
12/15	10	Farmington Com 1	LANDFARM 5	Contam Diet	DD13	10	Consolidated Const	CM02	
12/15	11	Farmington Com 1	Landfarm 5	Contam Diet	DD13	22	Consolidated Const	531	
12/15	12	Farmington Com 1	LANDFARM 5	Contam Diet	DD13	20	Consolidated Const	C-101	
12/15	13	Farmington Com 1	Landfarm 5	Contam Diet	DD13	22	Consolidated Const	L-116	
12/15	14	Farmington Com 1	Landfill 5	Contam Diet	DD13	10	Consolidated Const	C-108	

ENTERED DEC 2

"I certify the material hauled from the above location has not been added to or mixed with, and is the same material received from the above mentioned Generator, and that no additional materials have been added."

230

NAME Bill Carter 50 IKE COMPANY Envirotech Inc SIGNATURE Bill Carter

DATE 12-15-97

ENVIROTECH INC.

97070-01

10915

Bill of Lading

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 - 3014 • FARMINGTON, NEW MEXICO 87401.

MONTH OF DECEMBER

MANIFEST | Conoco COMPLETE DESCRIPTION OF SHIPMENT | TRANSPORTING COMPANY

DATE	No.	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	COMPANY	TRK #	DRIVER SIGNATURE
12-11	1	Animas Park Farmington Com 1	Landfarm 5	Contam. Soil	DD13 DD14	22	Consolidated Const	V-24	
12-11	2	Farmington Com 1	Landfarm 5	Contam Soil	DD-14	22	Consolidated Const	C-101	
12-11	3	Farmington Com 1	Landfarm 5	Contaminated Soil	DD14	20	Consolidated Const	C-96	
12-11	4	Farmington Com 1	Landfarm 5	Contam Soil	DD14	22	Consolidated Const	C-119	Harold
12-11	5	Farmington Com 1	Landfarm 5	Contam Soil	DD14	22	Doug fultz	833	
12-11	6	Farmington Com 1	Landfarm 5	Contam Soil	DD14	22	Doug fultz	531	
12-11	7	Farmington Com 1	Landfarm 5	Contam Soil	DD14	22	Leonard Barela	L-16	
12-11	8	Farmington Com 1	Landfarm 5	Contam Soil	DD14	22	Consolidated Const	V-24	
12-11	9	Farmington Com 1	Landfarm 5	Contam Soil	DD14	20	Consolidated Const	C-101	
12-11	10	Farmington Com 1	Landfarm 5	Contam Soil	DD14	22	Consolidated Const	C-96	
12-11	11	Farmington Com 1	Landfarm 5	Contam Soil	DD14	20	Doug fultz	833	
12-11	12	Farmington Com 1	Landfarm 5	Contam Soil	DD14	22	Doug fultz	531	
12-11	13	Farmington Com 1	Landfarm 5	Contam Soil	DD14	20	Consolidated Const	C-101	
12-11	14	Farmington Com 1	Landfarm 5	Contam Soil	DD14	22	Consolidated Const	C-96	
12-11	15	Farmington Com 1	Landfarm 5	Contam Soil	DD14	20	Consolidated Const	119	T. Paul Johnson
12-11	16	Farmington Com 1	Landfarm 5	Contam Soil	DD15	20	Leonard Barela	L-16	

"I certify the material hauled from the above location has not been added to or mixed with, and is the same material received from the above mentioned Generator, and that no additional materials have been added."

320 CY

ENTERED FEB 2 1998

NAME Bill Coates COMPANY Envirotech INC SIGNATURE Bill Coates

DATE 12-11-97

ENVIROTECH INC.

Bill of Lading

97070-01

10322

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 - 3014 • FARMINGTON, NEW MEXICO 87401

MONTH OF December

MANIFEST		Conoco. COMPLETE DESCRIPTION OF SHIPMENT				TRANSPORTING COMPANY			
DATE	No.	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	COMPANY	TRK #	DRIVER SIGNATURE
12-16	17	Animas Park Farmington Com I	Landfarm 5	Contam Soil	DD15	22	Doug Foltz	833	Harry Brummett
12-16	18	Farmington Com I	Landfarm 5	Contam Soil	DD15	20	Consolidated Const	V-24	Vicente Atencio
12-16	19	Farmington Com I	Landfarm 5	Contam Soil	DD15	20	Doug Foltz	531	Bill Nott
12-16	20	Farmington Com I	Landfarm 5	Contam Soil	DD15	20	Leonard Baca LA	L-16	J Baca
12-16	21	Farmington Com I	Landfarm 5	Contam Soil	DD15	22	Consolidated Const	C-96	[illegible]
12-16	22	Farmington Com I	Landfarm 5	Contam Soil	DD15	22	Consolidated Const	C101	[illegible]
12-16	23	Farmington Com I	Landfarm 5	Contam Soil	DD15	20	Consolidated Const	119	Harold Johnson
12-16	24	Farmington Com I	Landfarm 5	Contam Soil	DD15	22	Consolidated Const	833	Harry Brummett
12-16	25	Farmington Com I	Landfarm 5	Contam Soil	DD15	22	Consolidated Const	V-24	Vicente Atencio
12-16	26	Farmington Com I	Landfarm 5	Contam Soil	DD15	22	Consolidated Const	531	Bill Nott
12-16	27	Farmington Com I	Landfarm 5	Contam Soil	DD15	20	Consolidated Const	119	Harold Johnson
12-16	28	Farmington Com I	Landfarm 5	Contam Soil	DD15	20	Leonard Baca LA	L-16	J Baca
12-16	29	Farmington Com I	Landfarm 5	Contam Soil	DD15	22	Consolidated Const	C-96	[illegible]
12-16	30	Farmington Com I	Landfarm 5	Contam Soil	DD16	22	Consolidated Const	V-24	Vicente Atencio
12-16	31	Farmington Com I	Landfarm 5	Contam Soil	DD16	22	Doug Foltz	531	[illegible]

"I certify the material hauled from the above location has not been added to or mixed with, and is the same material received from the above mentioned Generator, and that no additional materials have been added."

320 cy

NAME Bill Carter COMPANY Envirotech Inc SIGNATURE [illegible]

DATE 12-16-97

ENTERED DEC 2

JAN 16 '98 11:10 102 P04 5056321865 YOUNGENVIRONMENTAL

ENVIROTECH INC.

Bill of Lading

97070-01

10924

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 - 3014 • FARMINGTON, NEW MEXICO 87401

MONTH OF December

MANIFEST		ConocO COMPLETE DESCRIPTION OF SHIPMENT				TRANSPORTING COMPANY			
DATE	No.	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	COMPANY	TRK #	DRIVER SIGNATURE
12-17	1	Animas Park Farmington Com'l	Landfarm 5	Contam Soil	DD-16	20	Consolidated Const	V-24	Vecente Atencio
12-17	2	Farmington Com'l	Landfarm 5	Contam Soil	DD-16	20	Doug Foutz Consolidated Const	833	Doug Brannum
12-17	3	Farmington Com'l	Landfarm 5	Contam Soil	DD-16	22	Leonard Barela	L-116	Leonard Barela
12-17	4	Farmington Com'l	Landfarm 5	Contam Soil	DD-16	20	Leonard Barela	L-116	Leonard Barela
12-17	5	Farmington Com'l	Landfarm 5	Contam Soil	DD-16	20	Doug Foutz	833	Doug Brannum
12-17	6	Farmington Com'l	Landfarm 5	Contam Soil	DD-16	20	Doug Foutz	531	Brandon Hart
12-17	7	Farmington Com'l	Landfarm 5	Contam Soil	DD-16	20	Consolidated Const	V-24	Vecente Atencio
12-17	8	Farmington Com'l	Landfarm 5	Contam Soil	DD-16	20	Consolidated Const	C-101	Elmer
12-17	9	Farmington Com'l	Landfarm 5	Contam Soil	DD-16	22	Leonard Barela	L-116	Leonard Barela
12-17	10	Farmington Com'l	Landfarm 5	Contam Soil	DD-16	22	Doug Foutz	833	Doug Brannum
12-17	11	Farmington Com'l	Landfarm 5	Contam Soil	DD-17	22	Doug Foutz	531	Brandon Hart
12-17	12	Farmington Com'l	Landfarm 5	Contam Soil	DD-17	20	Consolidated Const	V-24	Vecente Atencio
12-17	13	Farmington Com'l	Landfarm 5	Contam Soil	DD-17	20	Consolidated Const	V-24	Vecente Atencio
12-17	14	Farmington Com'l	Landfarm 5	Contam Soil	DD-17	20	Consolidated Const	C-101	Elmer
12-17	15	Farmington Com'l	Landfarm 5	Contam Soil	DD-17	20	Doug Foutz	833	Doug Brannum
12-17	16	Farmington Com'l	Landfarm 5	Contam Soil	DD-17	22	Doug Foutz	531	Brandon Hart

"I certify the material hauled from the above location has not been added to or mixed with, and is the same material received from the above mentioned Generator, and that no additional materials have been added."

NAME Bill Cooley COMPANY Envirotech Inc SIGNATURE Bill Cooley DATE 12-17-97

ENVIROTECH INC.

Bill of Lading

97070-01

10326

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 - 3014 • FARMINGTON, NEW MEXICO 87401

MONTH OF December

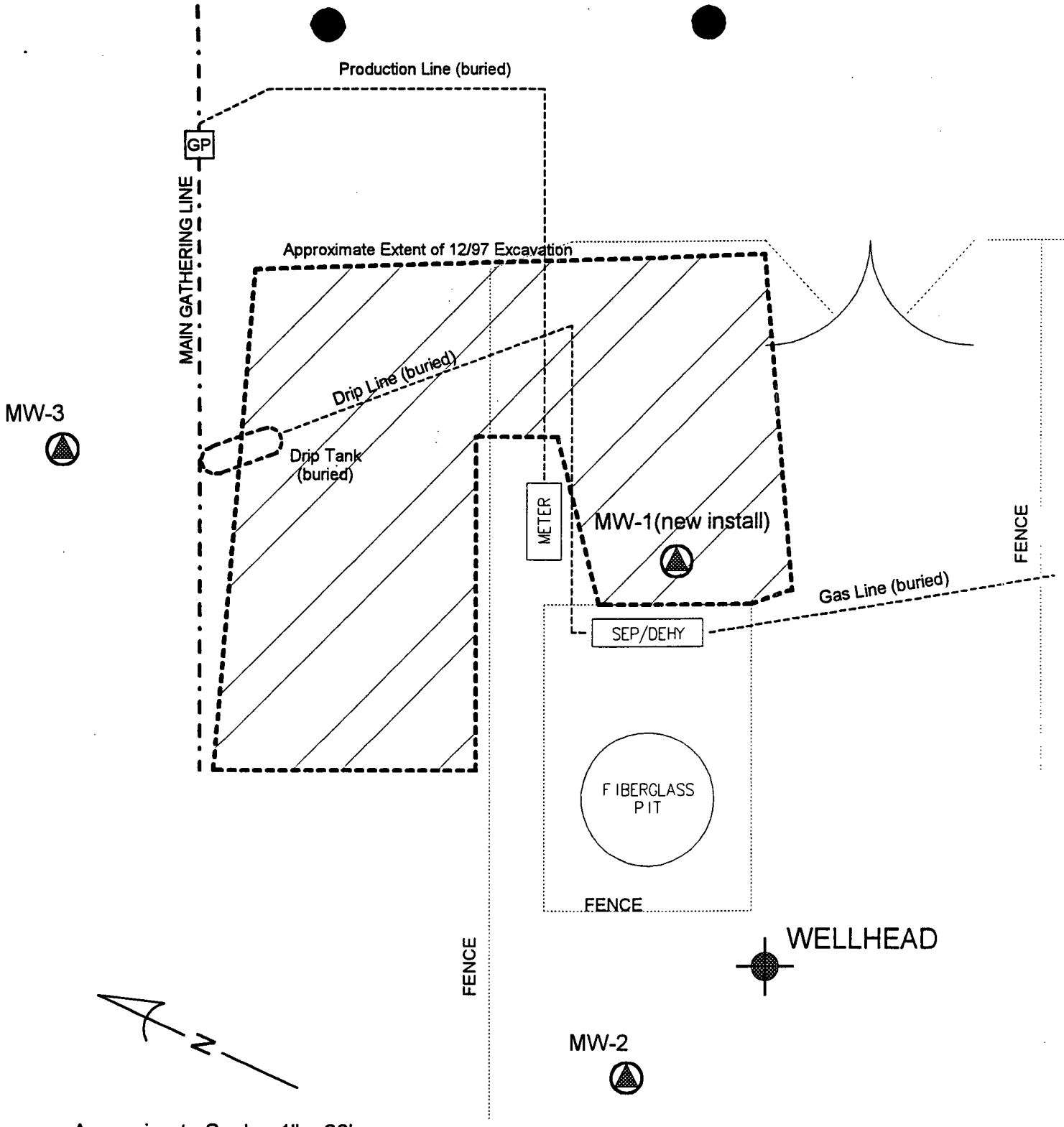
MANIFEST		COMPLETE DESCRIPTION OF SHIPMENT				TRANSPORTING COMPANY			
DATE	No.	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	COMPANY	TRK #	DRIVER SIGNATURE
12-17	17	Animas Park Farmington Conl	Landfarm 5	Contam Soil	DD-17	22	Leonard Barela	L-16	Leonard Barela

ENTERED DEC 2 1 1997

"I certify the material hauled from the above location has not been added to or mixed with, and is the same material received from the above mentioned Generator, and that no additional materials have been added."

NAME Bill Carter COMPANY Envirotech INC SIGNATURE Bill Carter

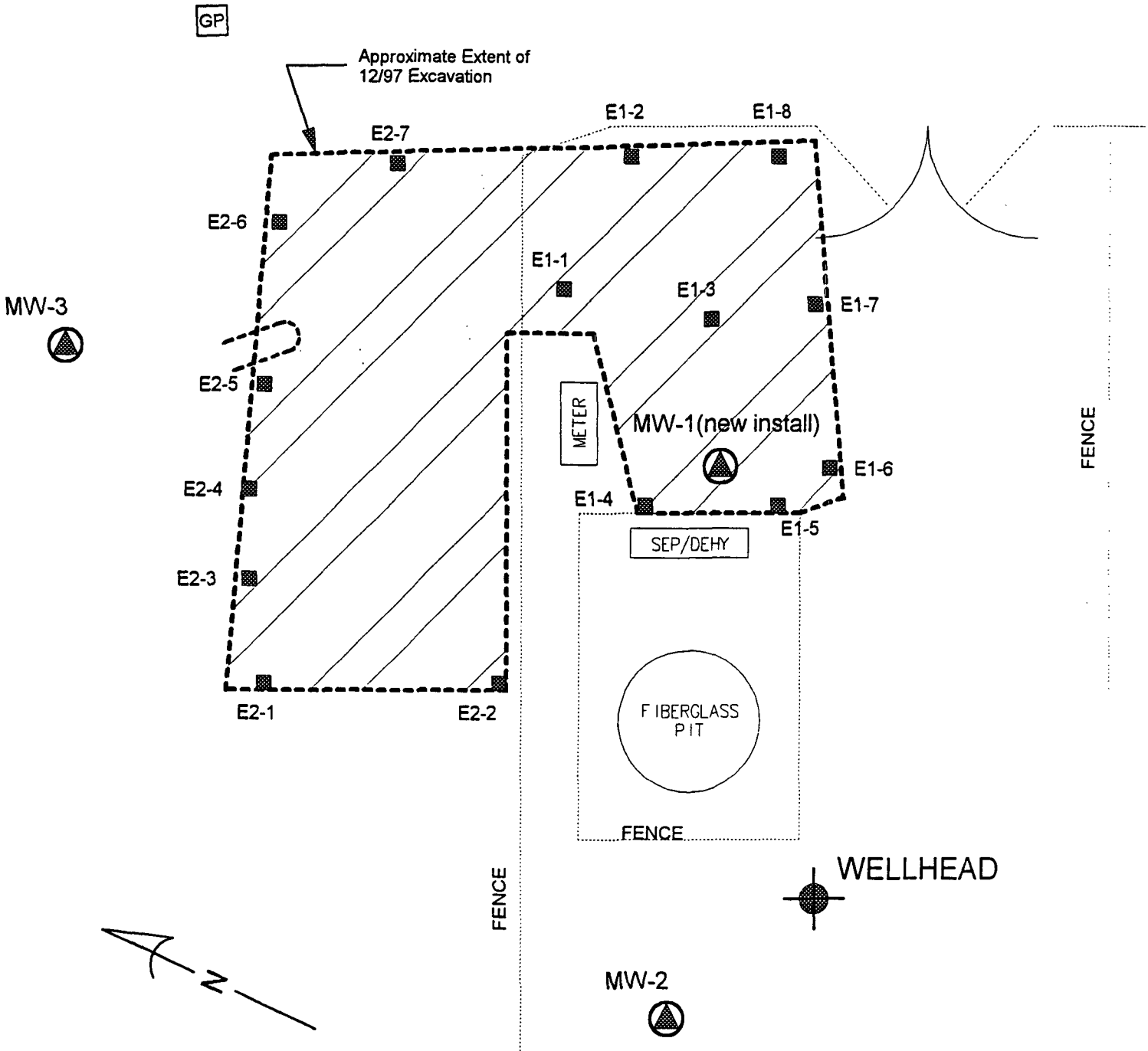
DATE 12-17-97



Approximate Scale: 1" = 20'

File: 4T90

Farmington COM #1 Unit P, Sec. 11, T29N, R13W, NMPM San Juan County, NM	SITE SKETCH	ON SITE TECHNOLOGIES, LTD. P.O. BOX 2606, FARMINGTON, NM 87499 (505) 325-5667
PROJECT: Site Remediation	DRWN: 01-16-98	
PROJECT NO: 4-1372	DRWN BY: MKL	
SHEET: 1	REVISED:	

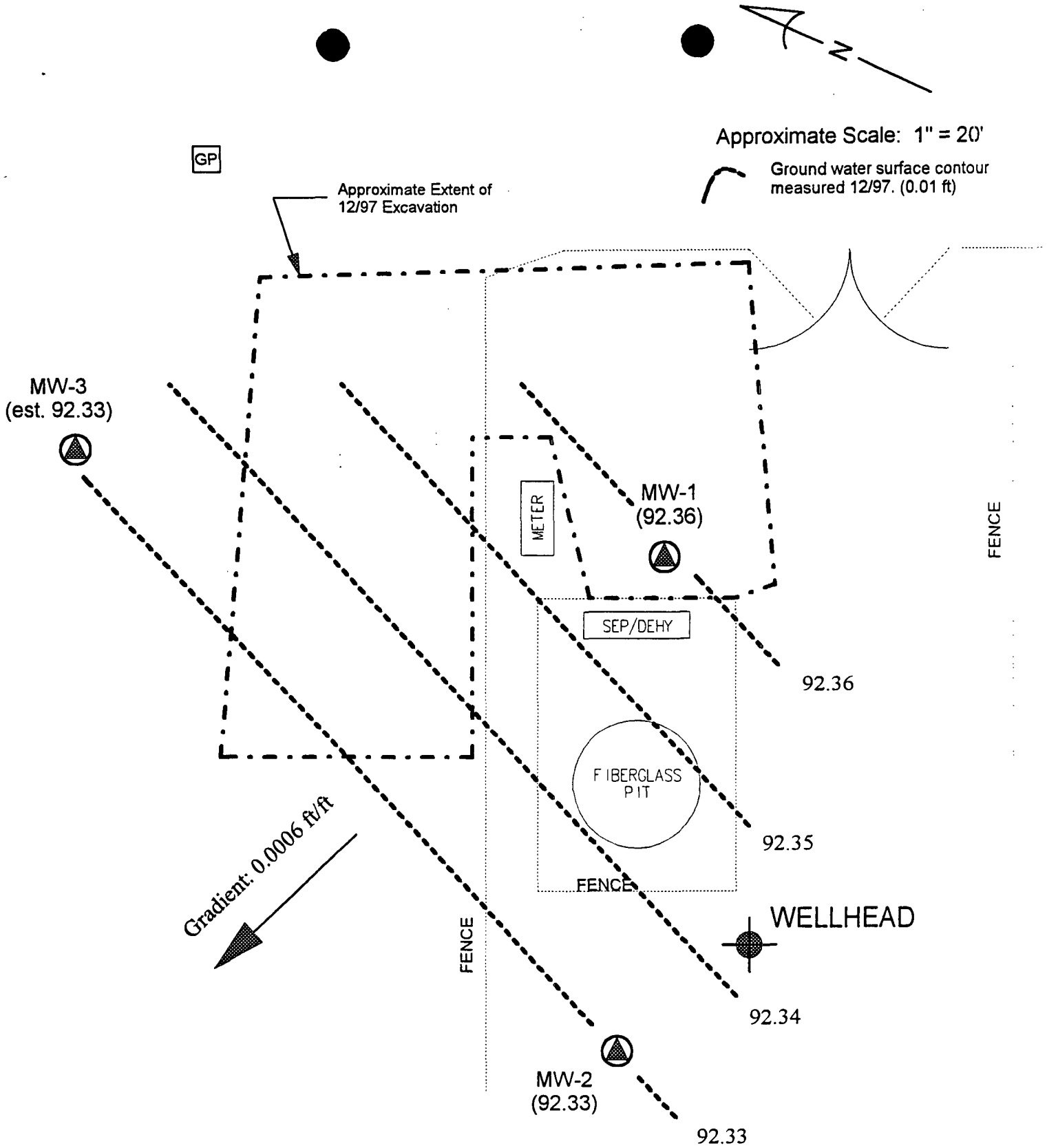


Approximate Scale: 1" = 20'

■ Approximate location of soil samples.
Refer to Table 1 for test results.
E1: excavation 1, E2: excavation 2.

File: 41290

Farmington COM #1 Unit P, Sec. 11, T29N, R13W, NMPM San Juan County, NM	Soil Sample Location Map	ON SITE TECHNOLOGIES, LTD. P.O. BOX 2606, FARMINGTON, NM 87499 (505) 325-5667
PROJECT: Site Remediation	DRWN: 01-16-98	
PROJECT NO: 4-1372	DRWN BY: MKL	
SHEET: 2	REVISED:	



File: 41290

Farmington COM #1 Unit P, Sec. 11, T29N, R13W, NMPM San Juan County, NM	Ground Water Potentiometric Map	ON SITE TECHNOLOGIES, LTD. P.O. BOX 2606, FARMINGTON, NM 87499 (505) 325-5667
PROJECT: Site Remediation	DRWN: 01-16-98	
PROJECT NO: 4-1372	DRWN BY: MKL	
SHEET: 3	REVISED:	

PRE-JOB HAZARD EVALUATION MEETING.

COMPANY: On Site Technology DATE: 12-15-97

LOCATION: FMTN Com #1

WORK BEING PERFORMED: Examination and Backfilling of former Pit Location.

HAZARDS IDENTIFIED: Underground piping, overhead hazards (Tree limbs).

ACTION TAKEN ON IDENTIFIED HAZARDS: Line marked by Merrion Oil. Discussed Hazards with operator of Trackhoe.

WAS COMPANY EMPLOYEE ON LOCATION ? YES___ NO✓
SHOULD A COMPANY EMPLOYEE BE ON LOCATION ? YES___ NO✓
DO PJHEMs CONTRIBUTE TO A SAFER JOB ? YES✓ NO___
IF YES WHY ? Gives Supervisor a chance to look at Site

HOW DO YOU THINK WE CAN IMPROVE PJHEMs ? N/A

On Site Technologies Safety Meeting Form

Job Site Safety Meeting Form

It is the express policy of ***On Site Technologies*** to conduct a safety meeting with all involved ***On Site Technologies*** employees and subcontracted employees prior to beginning work on any job site. Where applicable the ***On Site Technologies*** supervisor will conduct the meeting and prepare the following form. All safety meetings and topics will comply with State and Federal Regulations and any safety procedures issued by the client. *No work shall commence prior to the safety meeting.*

Location: FRTN Com #1 Client: Conoco

Date: 12-15-97 Time: 1018

On Site Technologies job number: ~~3~~ 4-1372

Type of work to be performed: Excavation of former pit site

On Site Technologies Supervisor:

Larry Trujillo
(Please Print)

Jay
(Signature)

Other Personnel:

Your signature below indicates that you attended the above described safety meeting, fully understand the topic(s), and agree to perform your job duties in full compliance with all safety rules in effect.

Name *(Please Print)*	Company	Signature
Mike Brown	Consolidated Co.	Mike Brown
Jerlin H. Hunt	Consolidated Co.	Jerlin H. Hunt

(Attach additional page(s) if needed)

Safety Meeting Topic / Discussion *(Briefly describe or outline all safety issues addressed in the meeting)*

hard hat, Safety Glasses,
Slip, Trip Fall
Pedestrain traffic, Vehicles Traffic
side wall cave in
Weather Conditions, Hypothermia,
underground Pipes
overhead hazard (Tree branches

(Attach additional page(s) as necessary)

On Site Technologies Safety Meeting Form

Job Site Safety Meeting Form

It is the express policy of *On Site Technologies* to conduct a safety meeting with all involved *On Site Technologies* employees and subcontracted employees prior to beginning work on any job site. Where applicable the *On Site Technologies* supervisor will conduct the meeting and prepare the following form. All safety meetings and topics will comply with State and Federal Regulations and any safety procedures issued by the client. *No work shall commence prior to the safety meeting.*

Location: FMTN Com #1 Client: Conoco

Date: 12/16/97 Time: 0700

On Site Technologies job number: 4-1372

Type of work to be performed: Excavation of former pits.

On Site Technologies Supervisor:

Lacey Tressle
(Please Print)

[signature]
(Signature)

Other Personnel:

Your signature below indicates that you attended the above described safety meeting, fully understand the topic(s), and agree to perform your job duties in full compliance with all safety rules in effect.

Name *(Please Print)*	Company	Signature
Ferlin W. Hunt	Consolidated	[signature]
Mike Brown	Consolidation	[signature]

(Attach additional page(s) if needed)

Safety Meeting Topic / Discussion *(Briefly describe or outline all safety issues addressed in the meeting)*

Hard Hat, Safety Glass.
Slip trip. Fall
under ground pipe
Over hazard (Tree branches)
Pedestrian traffic, Vehicle traffic.

(Attach additional page(s) as necessary)

On Site Technologies Safety Meeting Form

Job Site Safety Meeting Form

It is the express policy of ***On Site Technologies*** to conduct a safety meeting with all involved ***On Site Technologies*** employees and subcontracted employees prior to beginning work on any job site. Where applicable the ***On Site Technologies*** supervisor will conduct the meeting and prepare the following form. All safety meetings and topics will comply with State and Federal Regulations and any safety procedures issued by the client. *No work shall commence prior to the safety meeting.*

Location: Fmtn/ Com #1 Client: Conoco

Date: 12/17/97 Time: 0713

On Site Technologies job number: 4-1372

Type of work to be performed: Excavation of former Pit

On Site Technologies Supervisor:

Larry Trujillo (Please Print) [signature] (Signature)

Other Personnel:

Your signature below indicates that you attended the above described safety meeting, fully understand the topic(s), and agree to perform your job duties in full compliance with all safety rules in effect.

Name *(Please Print)*	Company	Signature
Edwin H. Hurt	Consolidated Con.	[signature]
Mike Brown	Consolidated	[signature]

(Attach additional page(s) if needed)

Safety Meeting Topic / Discussion *(Briefly describe or outline all safety issues addressed in the meeting)*

Hard Hat, Safety Glass
Slip, trip, fall
Pedestrian traffic, Vehicular traffic
Weather Conditions, Hypothermia
Overhead hazard
Underground hazards

(Attach additional page(s) as necessary)

On Site Technologies Safety Meeting Form

Job Site Safety Meeting Form

It is the express policy of ***On Site Technologies*** to conduct a safety meeting with all involved ***On Site Technologies*** employees and subcontracted employees prior to beginning work on any job site. Where applicable the ***On Site Technologies*** supervisor will conduct the meeting and prepare the following form. All safety meetings and topics will comply with State and Federal Regulations and any safety procedures issued by the client. *No work shall commence prior to the safety meeting.*

Location: Finn Com #1 Client: Conoco

Date: 12-18-97 Time: 0900

On Site Technologies job number: 4-1372

Type of work to be performed: Excavation and Back fill of former P.I. Sites.

On Site Technologies Supervisor:

Lacey Tenjillo (Please Print)

Jay (Signature)

Other Personnel:

Your signature below indicates that you attended the above described safety meeting, fully understand the topic(s), and agree to perform your job duties in full compliance with all safety rules in effect.

Name *(Please Print)*	Company	Signature
Mike Brown	Consolidated	Mike Brown
Richard Hudson	Consolidated	Richard Hudson

(Attach additional page(s) if needed)

Safety Meeting Topic / Discussion *(Briefly describe or outline all safety issues addressed in the meeting)*

Hard Hat Glasses
Slip trip, Fall
pva head hazard
Under ground Hazards
Weather Conditions.
Side wall Cave in

(Attach additional page(s) as necessary)