

Denny E. Faust
DEPUTY OIL & GAS INSPECTOR

APACHE CORPORATION

PIT REMEDIATION AND CLOSURE REPORT

ROUTING

OCD Dist, III, 1000 Rio Brazos Road Aztec, New Mexico 87410	XXX XXX	OCD Sante Fe, P.O. Box 2088 Santa Fe, New Mexico 87504-2088	XXX XXX
BLM Albuquerque Dist. Office Rio Puerco Resource Area 435 Montano N.E. Alb. N.M. 87107	XXX	Jicarilla Apache Tribe EPO P.O. Box 507 Dulce, New Mexico 87528	

Operator: APACHE CORPORATION Telephone: 505-325-0318

Address: 304 N. Behrend, Farmington, New Mexico 87401

Facility or Well Name: FRED PHILLIPS G-1

Location: Unit or Qtr/Qtr Sec C Sec 10 T 25N R 3W County: Rio Arriba

Pit Type: Separator X Dehydrator Other: Compressor

Land Type: BLM STATE FEE X Other:

PIT LOCATION

(DIAGRAM ATTACHED)

Pit Dimensions: LENGTH: 24' WIDTH: 36' DEPTH: 6'

Reference: Wellhead X Other:

Footage From Reference: 50'

Direction From Reference East North X

West South

of

Depth of Ground Water: (Vertical distance from contaminants to seasonal high water elevation of ground water)	Less than 50 feet 50 feet to 99 feet Greater than 100 feet	(20 Points) (10 Points) (0 Points)	0
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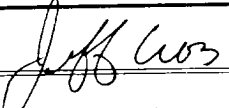
Wellhead Protection Area: (Less than 200 feet from a private domestic water source, or, less than 1000 feet from all other water sources)	Yes No	(20 Points) (0 Points)	0
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Distance to Surface Water (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)	Less than 50 feet 50 feet to 99 feet Greater than 100 feet	(20 Points) (10 Points) (0 Points)	0
--	--	--	---

Ranking Score (Total Points): 0

RECEIVED
MAY 30 1997

OIL CON. DIV.
DIST. 2

Date Remediation Started		8-16-94		Date Completed:		4-15-97	
Remediation Method: (Check all appropriate Sections)	Excavation	XX		Approx. Cu. Yds.:		128	
	Land Farmed	X		Insitu Bioremediation			
	Other: One Landfarm treated with H2O2						
Remediation Location:		Onsite	XX		Offsite:		
(ie. landfarmed on site, name and location of offsite facility)							
General Description of Remedial Action: Pit excavated 7-14-94 to a depth of 4' below							
Pit bottom, 5 point sample taken on 11-5-96, Re-excavate pit to 5' below							
pit bottom and remove 1' of soil off pit sides on 4-7-97.							
Re-Sample pit on 4-15-97, Results Attached.							
Ground Water Encountered:		No	XX	Yes		Depth:	
Final Pit Closure Sampling:		Sample Location: 5 point composite, taken 8 to 10 inches					
(if multiple samples, attach sample results and diagram of sample locations and depths.)		into sidewalls, 6 to 12" off bottom, 8 to 10" into bottom center.					
		Sample Depth:		8" / 10"			
		Sample Date:		4-15-97		Sample Time: 13:00	
SAMPLE RESULTS							
Benzene (ppm)		ND		Field Headspace (ppm)			
Total BTEX (ppm)		6.38		TPH		3000	
Ground Water Sample	Yes		No	XX	(If yes, attach sample results)		
I hereby certify that the information above is true and complete to the best of my knowledge and belief.							
Date: 5/23/97				Printed Name: Jeff Cross			
Signature: 				Title: Project Manager			
I hereby certify that the closure of this site is approved and has been accepted:							
Date:				Printed Name:			
Signature:				Org. and Title:			

APACHE CORPORATION/FARMINGTON DISTRICT PIT EXCAVATION AND CLOSURE REPORT

LOCATION Fred Phillips G # 1

PIT COUNT 1

Jicarilla Apache Tribal EPO/OCD/BLM

Review and Approval

OCD--BLM

EPO Representative

Date of Review

Excavation								
DIMENSIONS			START: 7-14-94	FINISH: 4-7-97				
	W	L	D		W	L	D	CU YDS
Pit 1	18	30	1	Pit 1	24	36	6	160
Pit 2				Pit 2				
Pit 3				Pit 3				
DATE:	Pit 1 @	Pit 2 @	Pit 3 @	Date:	Pit 1 @	Pit 2 @	Pit 3 @	
P I D	Center	4.6		P I D	Center			
	NW Corner	4.4			NW Corner			
	NE Corner	3.4			NE Corner			
	SW Corner	5.6			SW Corner			
	SE Corner	4.1			SE Corner			

NOTES:

4-7-97 Re-Excavate Pit (Took dirt from sides and bottom) No signs of staining or odor.

4-15-97 Re-Sample 5 point sample--8 to 10" into pit wall (corners) 10" into pit bottom center

SOIL SAMPLING

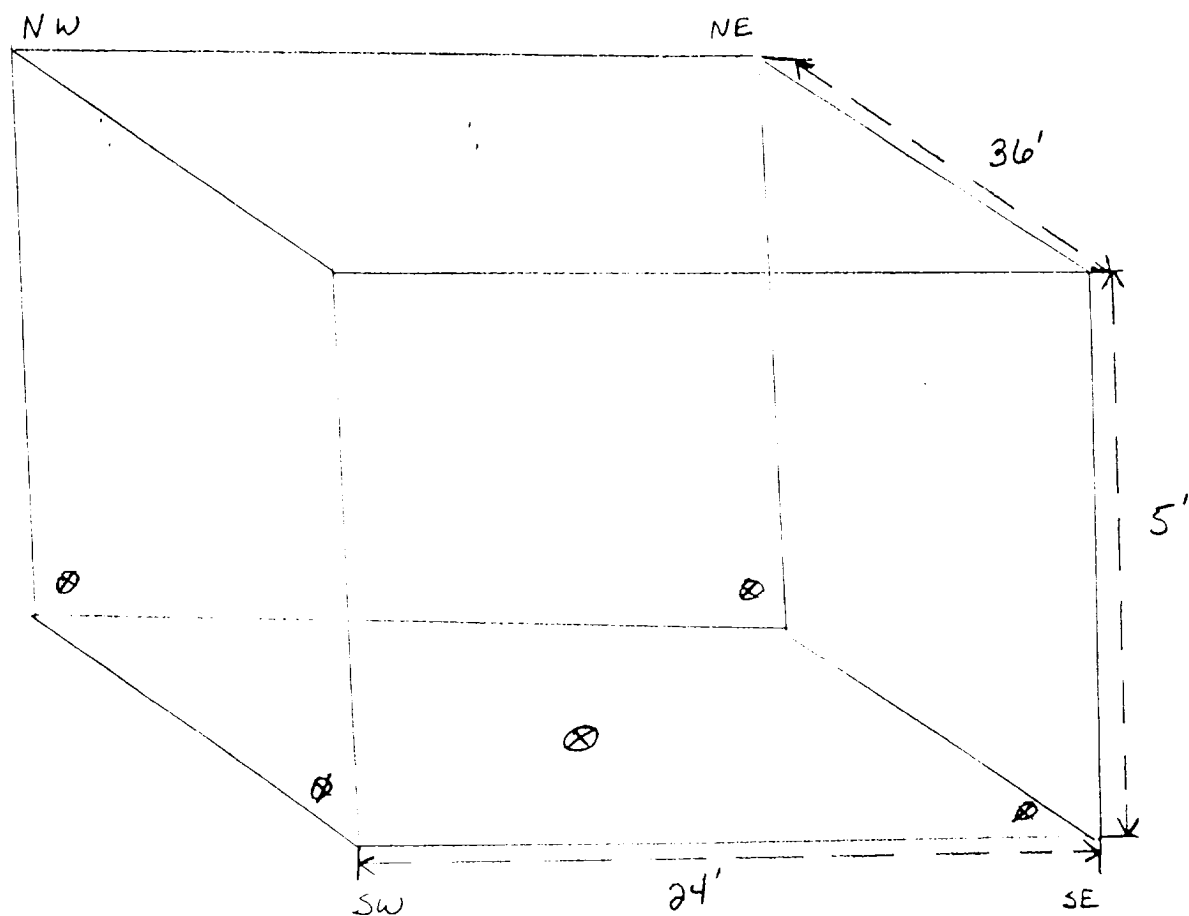
DATE: 4-15-97	Pit 1 @ 6'	Pit 2 @	Pit 3 @	ANALYSIS RESULTS			PER LAB	Assaigai
				PIT NO	TPH	BETEX	WITNESS	DATE
P	Center	12						
I	NW Corner	14.3		1	3000	6.38	J.C.	4-19-97
D	NE Corner	270		2				
	SW Corner	17.2		3				
	SE Corner	14.5						

RE-SAMPLE OR CELL(S) SAMPLE

DATE:	Pit 1 @	Pit 2 @	Pit 3 @	ANALYSIS RESULTS			PER LAB	
				PIT NO	TPH	BETEX	WITNESS	DATE
P	Center							
I	NW Corner			1				
D	NE Corner			2				
	SW Corner			3				
	SE Corner							

RE-SAMPLE OR CELL(S) SAMPLE

DATE:	Pit 1 @	Pit 2 @	Pit 3 @	ANALYSIS RESULTS			PER LAB	
				PIT NO	TPH	BETEX	WITNESS	DATE
P	Center							
I	NW Corner			1				
D	NE Corner			2				
	SW Corner			3				
	SE Corner							

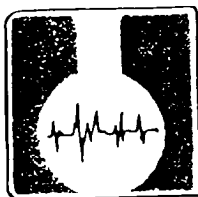


WELL NAME: FRED PHILLIPS G^{#1}

SAMPLE DATE: 4-15-97

⊗ = SAMPLE AREA

NOTES: SCRAP SIDES AND BOTTOM OF PIT, RESAMPLE 10" INTO SIDES AT CORNERS.
10" INTO CENTER BOTTOM OF PIT.



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Report Generated:
April 23, 1997 13:48

**CERTIFICATE OF ANALYSIS
RESULTS BY SAMPLE**

SENT APACHE CORPORATION
TO: 304 N. BEHREND
FARMINGTON, NM 87401

WORKORDER # : 9704176
WORK ID : PIT REMEDIATION
CLIENT CODE : APA01
DATE RECEIVED : 04/17/97

ATTN: JEFF CROSS

Page: 1

Lab ID: 9704176-01A
Sample ID: FRED PHILLIPS G-1 PIT

Collected: 04/15/97 13:00:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A	ND	mg/Kg	0.0010	500	04/19/97	SBTXME154
Benzene	ND	mg/Kg	0.0010	500	04/19/97	SBTXME154
Toluene	0.78	mg/Kg	0.0010	500	04/19/97	SBTXME154
Ethylbenzene	3.3	mg/Kg	0.0020	500	04/19/97	SBTXME154
P-&m-Xylene	2.3	mg/Kg	0.0010	500	04/19/97	SBTXME154
O-Xylene						

Lab ID: 9704176-01B
Sample ID: FRED PHILLIPS G-1 PIT

Collected: 04/15/97 13:00:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
Diesel Range OG Soil/M8015	3000	mg/Kg	50	25	04/19/97	SDRO22
Diesel Range OG in Soil						

Fred L. Shore, Ph.D.
VP of Laboratory Operations





Lab job no.: 4176 Date 4/12/97

Lab job no.: 1110 Date 11/11/77

Page 1 of 1

Client: Apache Corporation Project Manager / Contact: JEFF CROSS

Address 304 W. Belmont Telephone No. 505-774-6643

City / State / Zip Springfield N.M. 87401 Fax No. 505-774-6624

Project Name / Number 27 Penetration Samplers: (Signature) Jefferson

Contract / Purchase Order / Quote _____

[illegible]

Relinquished by:	Date	Received by:
Signature <u>[Signature]</u>	4/17/97	Signature <u>[Signature]</u>
Printed <u>Jefferson</u>	Time	Printed <u>Company</u>
Company <u>Apache Corporation</u>	8:25	Reason _____

Received by: _____
Signature *John J. [Signature]*
Printed John J. [Signature]
Company ABC
Reason _____

Date: 11/17/17 Time: 10:25:20

Received by: Eileen Dyer
Signature A. Kent Lipp
Printed A. Kent Lipp
Company St. Vincent
Reason for

Reason _____		Comments:
	Method of Shipment: _____	
	Shipment No. _____	
	Special Instructions: _____	

After analysis, samples are to be:

☐ Disposed of (additional fee) _____

☐ Stored (30 days max) _____

☐ Stored over 30 days (additional fee) _____

☐ Returned to customer _____

COURIER

7300 JEFFERSON, N.E.
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3332 WEDGEWOOD
EL PASO, TEXAS 79925
(915) 593-6000

MELQUIADES ALANIS
6411 LOCAL UNO
CIUDAD JUAREZ CHIHUAHUA MEXICO 32320

WORKORDER COMMENTS

DATE : 04/23/97
WORKORDER:

DEFINITIONS/DATA QUALIFIERS

The following are definitions, abbreviations, and data qualifiers which may have been utilized in your report:

- ND = Analyte "not detected" in analysis at the sample specific detection limit.
- D_F = Sample "dilution factor"
- NT = Analyte "not tested" per client request.
- B = Analyte was also detected in laboratory method QC blank.
- E = Analyte concentration (result) is an estimated value or exceeds analysis calibration range.
- LIMIT = The minimum amount of the analyte that AAL can detect utilizing the specified analysis.

Please Note: Multiply the "Limit" value (AAL's Detection Limit) by Dilution Factor (D_F) to obtain the sample specific Detection Limit.

*** Analytical results reported pertain only to the samples provided ***
*** for analysis and may not represent actual field conditions. ***
*** This report is not to be reproduced except in full, without the ***
*** written approval of Assaigai Analytical Inc. ***

REPORT COMMENTS

APACHE CORPORATION FARMINGTON DISTRICT SOIL REMEDIATIONS STATUS REPORT

REMEDIATION SITE Fred Phillips G-1

* AMOUNT OF SOIL UNDERGOING REMEDIATION 128 Yds.

CELL No. <u>1</u>	SampDATE 11-5-96	TPH 1100	BTEX ND
DIMENSIONS(LxWxH) <u>30' x 15' x 18'</u>			
CELL LOCATION (dir. from well head) <u>North East</u>			
* DATE BEGAN: <u>7-14-94</u>			
DATE TERMINATED (TPH <5,000 ppm/BTEX< 50 ppm/bENZENE < 10 ppm) _____			
CELL No. <u>2</u>	SampDATE 11-5-96	TPH ND	BTEX ND
DIMENSIONS(LxWxH) <u>40' x 18' x 18"</u>			
CELL LOCATION (dir. from well head) <u>South</u>			
* DATE BEGAN: <u>7-14-94</u>			
DATE TERMINATED (TPH <5,000 ppm/BTEX< 50 ppm/bENZENE < 10 ppm) _____			
CELL No. <u>3</u>	SampDATE 11-5-96	TPH ND	BTEX ND
DIMENSIONS(LxWxH) <u>40' x 18' x 18"</u>			
CELL LOCATION (dir. from well head) <u>SouthWest</u>			
* DATE BEGAN: <u>7/14/94</u>			
DATE TERMINATED (TPH <5,000 ppm/BTEX< 50 ppm/bENZENE < 10 ppm) _____			
REMEDICATION RECORD: (Date, Treatment, Tilling)			

*From excavation reports.

APACHE CORPORATION/FARMINGTON DISTRICT SOIL REMEDIATIONS STATUS REPORT

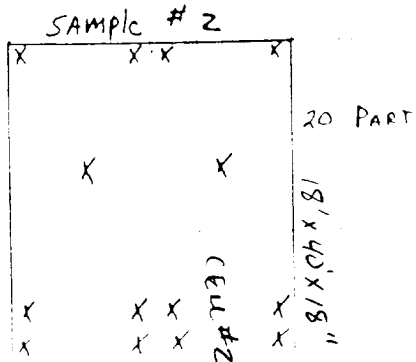
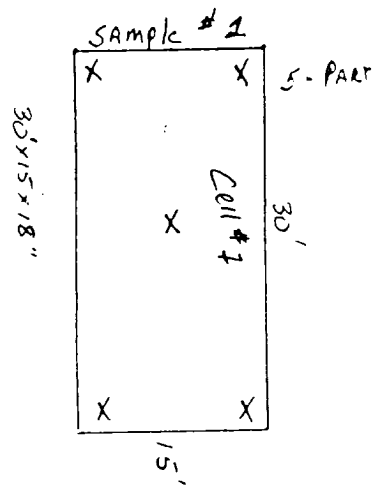
REMEDIATION SITE Fred Phillips G-1

* AMOUNT OF SOIL UNDERGOING REMEDIATION 128 Yds.

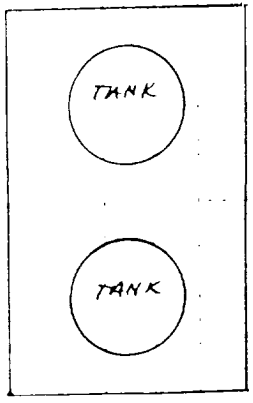
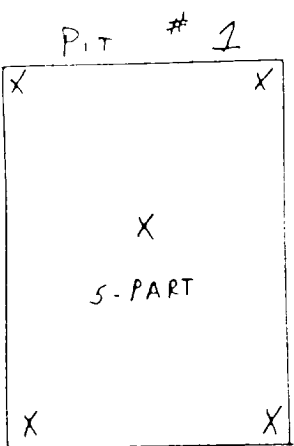
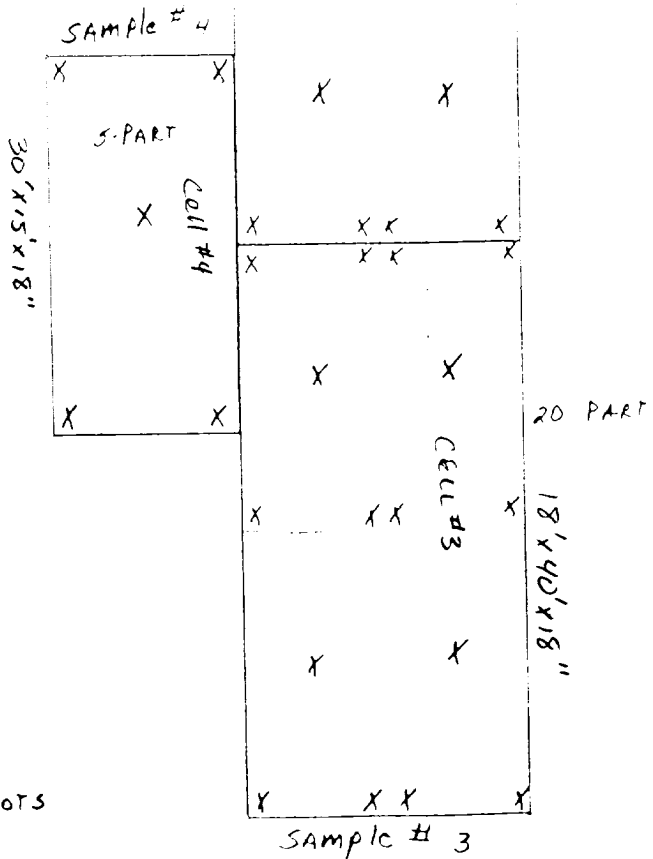
CELL No. <u>4</u>	SampDATE 11-5-96	TPH 270	BTEX NO
DIMENSIONS(LxWxH) <u>30' x 15' x 18'</u>			
CELL LOCATION (dir. from well head) <u>West</u>			
* DATE BEGAN: <u>7-14-94</u>			
DATE TERMINATED (TPH <5,000 ppm/BTEX< 50 ppm/bENZENE < 10 ppm) _____			
CELL No. _____	SampDATE	TPH	BTEX
DIMENSIONS(LxWxH) _____			
CELL LOCATION (dir. from well head) _____			
* DATE BEGAN: _____			
DATE TERMINATED (TPH <5,000 ppm/BTEX< 50 ppm/bENZENE < 10 ppm) _____			
CELL No. _____	SampDATE	TPH	BTEX
DIMENSIONS(LxWxH) _____			
CELL LOCATION (dir. from well head) _____			
* DATE BEGAN: _____			
DATE TERMINATED (TPH <5,000 ppm/BTEX< 50 ppm/bENZENE < 10 ppm) _____			
REMEDIATION RECORD: (Date, Treatment, Tilling)			
10-5-95 H2O2 Treatments			
10/96 46-0-0 Fert. treatment on all cells			
11-6-96 Samples taken on all cells			

*From excavation reports.

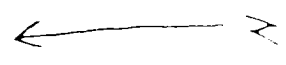
MTR RUN

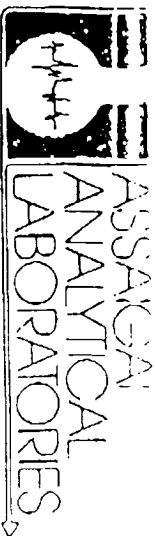


Sep.



X shows Sample spots





Chain of Custody Record

Lab Job No. 11048 Date 7 NOV 96

Page 1 of 1

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EL PASO, TEXAS 79925
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MIDLAND, TEXAS 79705
(915) 570-1116

MELQUIADES ALANIS
6411 LOCAL UNO
CIUDAD JUAREZ, CHIHUAHUA MEXICO 32300

Client APACHE Corp.

Address _____

City/State/Zip _____

Project Name / Number F P G-1

Contract / Purchase Order / Quote _____

Project Manager / Contact Mickey Athens
Telephone No. (505) 774-6643

Fax No. 774-6624

Sampler: (Signature) [Signature]

ANAL. FRACTION	Field Sample Number / Location	Date	Time	Sample Type	Type / Size of Container	Temperature Temp. °C	Preparation Grinded	No. of Containers	Analysis Required
1A	Sample #1 Cells	11/5/96	4:48	Soil	8 oz G	4°C	NA	1 X	5 points
2A	Sample #2 Cells		14:40					1 X	20 points
3A	Sample #3 Cells		14:50					1 X	20 points
4A	Sample #4 Cells		15:00					1 X	5 points
5A	Sample #5 Cells		15:10					1 X	5 points
6A	Pit	11/5/96	15:20	Soil	8 oz G	4°C	NA	1 X	5 points

[Handwritten signature and date 11/5/96]

GT-EX
Mod 8015 D-15

5-duct

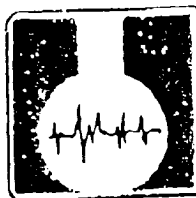
Relinquished by: <u>[Signature]</u> Signature Printed <u>Kevin J. Belding</u> Company <u>Apache Corp.</u>	Date <u>11-7-96</u> Time <u>12:30pm</u>	Received by: <u>[Signature]</u> Signature Printed <u>Scott Pratt</u> Company <u>AT&T</u>	Date <u>7 NOV 96</u> Time <u>15:30</u>	Received by: <u>[Signature]</u> Signature Printed <u>Scott Pratt</u> Company <u>AT&T</u>
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Method of Shipment _____	Comments _____
Shipment No. _____	
Special Instructions _____	

After analysis, samples are to be:

- ☐ Disposed of (radioactive fee)
- ☐ Stored (30 days max)
- ☐ Stored over 30 days (add annual fee)
- ☐ Returned to customer

ASSAIGAI PROJECT FILE



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Report Generated:
November 21, 1996 15:26

**CERTIFICATE OF ANALYSIS
RESULTS BY SAMPLE**

SENT APACHE CORPORATION
TO: 304 N. BEHREND
FARMINGTON, NM 87401

WORKORDER # : 9611048
WORK ID : F.P. G-1
CLIENT CODE : APA01
DATE RECEIVED : 11/07/96

ATTN: JOHN TAYLOR

Page: 1

Lab ID: 9611048-01A
Sample ID: SAMPLE #1 CELLS

Collected: 11/05/96 14:48:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A	ND	mg/Kg	0.0010	250	11/13/96	SBTXME137
Benzene	ND	mg/Kg	0.0010	250	11/13/96	SBTXME137
Toluene	ND	mg/Kg	0.0010	250	11/13/96	SBTXME137
Ethylbenzene	ND	mg/Kg	0.0010	250	11/13/96	SBTXME137
P-&m-Xylene	ND	mg/Kg	0.0010	250	11/13/96	SBTXME137
O-Xylene	ND	mg/Kg	0.0010	250	11/13/96	SBTXME137
Diesel Range OG Soil/M8015	1100	mg/Kg	50	5.0	11/14/96	SDRO005
Diesel Range OG in Soil						

Lab ID: 9611048-02A
Sample ID: SAMPLE #2 CELLS

Collected: 11/05/96 14:40:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A	ND	mg/Kg	0.0010	250	11/13/96	SBTXME137
Benzene	ND	mg/Kg	0.0010	250	11/13/96	SBTXME137
Toluene	ND	mg/Kg	0.0010	250	11/13/96	SBTXME137
Ethylbenzene	ND	mg/Kg	0.0010	250	11/13/96	SBTXME137
P-&m-Xylene	ND	mg/Kg	0.0010	250	11/13/96	SBTXME137
O-Xylene	ND	mg/Kg	0.0010	250	11/13/96	SBTXME137
Diesel Range OG Soil/M8015	ND	mg/Kg	50	5.0	11/15/96	SDRO005
Diesel Range OG in Soil						

Lab ID: 9611048-03A
Sample ID: SAMPLE #3 CELLS

Collected: 11/05/96 14:50:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A	ND	mg/Kg	0.0010	250	11/13/96	SBTXME137
Benzene	ND	mg/Kg	0.0010	250	11/13/96	SBTXME137
Toluene	ND	mg/Kg	0.0010	250	11/13/96	SBTXME137
Ethylbenzene	ND	mg/Kg	0.0010	250	11/13/96	SBTXME137
P-&m-Xylene	ND	mg/Kg	0.0010	250	11/13/96	SBTXME137
O-Xylene	ND	mg/Kg	0.0010	250	11/13/96	SBTXME137
Diesel Range OG Soil/M8015						

Lab ID: 9611048-03A
Sample ID: SAMPLE #3 CELLS

Collected: 11/05/96 14:50:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
Diesel Range OG Soil/M8015	ND	mg/Kg	50	5.0	11/15/96	SDRO005
Diesel Range OG in Soil						

Lab ID: 9611048-04A
Sample ID: SAMPLE #4 CELLS

Collected: 11/05/96 15:00:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A	ND	mg/Kg	0.0010	250	11/13/96	SBTXME137
Benzene	ND	mg/Kg	0.0010	250	11/13/96	SBTXME137
Toluene	ND	mg/Kg	0.0010	250	11/13/96	SBTXME137
Ethylbenzene	ND	mg/Kg	0.0010	250	11/13/96	SBTXME137
P-&m-Xylene	ND	mg/Kg	0.0010	250	11/13/96	SBTXME137
O-Xylene						
Diesel Range OG Soil/M8015	270	mg/Kg	50	5.0	11/15/96	SDRO005
Diesel Range OG in Soil						

Lab ID: 9611048-05A
Sample ID: SAMPLE #5 CELLS

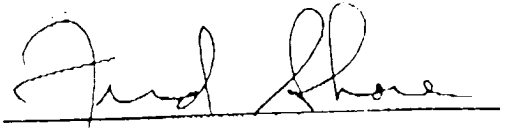
Collected: 11/05/96 15:10:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A	ND	mg/Kg	0.0010	250	11/13/96	SBTXME137
Benzene	ND	mg/Kg	0.0010	250	11/13/96	SBTXME137
Toluene	ND	mg/Kg	0.0010	250	11/13/96	SBTXME137
Ethylbenzene	ND	mg/Kg	0.0010	250	11/13/96	SBTXME137
P-&m-Xylene	ND	mg/Kg	0.0010	250	11/13/96	SBTXME137
O-Xylene						
Diesel Range OG Soil/M8015	270	mg/Kg	50	5.0	11/15/96	SDRO005
Diesel Range OG in Soil						

Lab ID: 9611048-06A
Sample ID: PIT

Collected: 11/05/96 15:20:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A	ND	mg/Kg	0.0010	250	11/13/96	SBTXME137
Benzene	ND	mg/Kg	0.0010	250	11/13/96	SBTXME137
Toluene	ND	mg/Kg	0.0010	250	11/13/96	SBTXME137
Ethylbenzene	ND	mg/Kg	0.0010	250	11/13/96	SBTXME137
P-&m-Xylene	ND	mg/Kg	0.0010	250	11/13/96	SBTXME137
O-Xylene						
Diesel Range OG Soil/M8015	460	mg/Kg	50	5.0	11/15/96	SDRO005
Diesel Range OG in Soil						

A handwritten signature in cursive script, appearing to read "Fred Shore", written over a horizontal line.

Fred L. Shore, Ph.D.
VP of Laboratory Operations