7 •

> JOHNSTON FED 1A (Pit #2) Meter/Line ID - 89638

OUL COM. DUV.

DIST. 3

SITE DETAILS

Sec: 12

Unit: F

Land Type: 2 - Federal Pit Closure Date: 01/20/95

Legals - Twn: 30 Rng: 09 NMOCD Hazard Ranking: 40 Operator: MERIDIAN OIL INC

RATIONALE FOR RISK-BASED CLOSURE:

The above mentioned production pit was assessed and ranked according to the criteria in the New Mexico Conservation Division's Unlined Surface Impoundment Closure Guidelines.

The primary source, discharge to the pit, has been removed. There has been no discharge to the production pit for at least five years and the pit has been closed for at least three years.

The production pit has been remediated to the practical extent of the trackhoe or to the top of bedrock. Initial laboratory analysis has indicated that the soil remaining at the bottom of the excavation is above standards based on the hazard ranking score. Contaminated soil was removed and transported to an approved landfarm for disposal. The initial excavation was backfilled with clean soil and graded in a manner to divert precipitation away from the excavated area. Any rainfall that does infiltrate the ground surface must migrate through clean backfill before reaching any residual hydrocarbons remaining in the soil. Therefore, further mobility of residual hydrocarbons is unlikely.

Since the soil samples from the initial excavation were above standards, a test boring was drilled and a sample was collected to evaluate the vertical extent of impact to soils. Test boring sample results indicated soils below standards beneath the original excavation.

El Paso Field Services Company (EPFS) requests closure of the above mentioned production pit location for the following reasons:

- Discharge to the pit has not occurred in over five years and the pit has been closed for over three years.
- The bulk of the impacted soil was removed during the initial excavation.
- The excavation was backfilled with clean soil and graded to divert precipitation away from the excavation area.
- All source material has been removed from the ground surface, eliminating potential direct contact with livestock and the general public.
- Groundwater was not encountered in the initial excavation or test boring; therefore, impact to groundwater is unlikely.
- Soil samples collected beneath the initial excavation were below standards.
- No potential receptors are within 1,000 feet of the site.
- Residual hydrocarbons remaining in the soil at the bottom of the initial excavation will naturally degrade minimal the environment. time with risk to

FIELD PIT SITE ASSESSMENT FORM

GENERAL	Meter: 89638 Location: Johnson Fel 1A Operator #: Olde Operator Name: MOT P/L District: BloomField Coordinates: Letter: E Section 12 Township: 30 Range: 9 Or Latitude Longitude Longitude Pit Type: Dehydrator Location Drip: Line Drip: Other: Site Assessment Date: 11195 Area: 10 Run: 22
ļ Į	NMOCD Zone:
	(From NMOCD Early Type: BLM XI (1)
	Maps) Inside (1) State (2) Fee (3)
	Outside (2) Indian
	Depth to Groundwater
	Less Than 50 Feet (20 points) 🛛 (1) 50 Ft to 99 Ft (10 points) 🔲 (2)
	Greater Than 100 Ft (0 points) (3)
E	Wellhead Protection Area:
EN	Is it less than 1000 ft from wells springs or other
ASSESSMENT	LICON MOTOL EXHIBERTOR OF 1 16 It loop them 000 of the
SSE	definestic water source? (1) YES (20 points) (2) NO (0 points)
	Horizontal Distance to Surface Water Body Less Thon 200 Ft (20 points) X (1)
SITE	200 Ft (0 points) (1) 200 Ft (10 points) (2)
N N	Greater Than 1000 Ft (0 points) 🔲 (3)
	Name of Surface Water Body Pump Canyon
	(Surface Water Body : Perennial Rivers, Major Wash, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds)
	Distance to Nearest Ephemeral Stream (1) < 100'(Navajo Pits Only)
	(1) < 100'(Navajo Pits Only)
	TOTAL HAZARD RANKING SCORE: 40 POINTS
KS	Remarks: Redline Book-Inside Vulnerable Zone Tape-Inside
REMARKS	2pits Closel. Julierable Constape Inside
REM	
	DIG4H AVI

120

PHASE I EXCAVATION

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 89638 Location: Johnston Fed IA (Pt#2) Coordinates: Letter: F Section 12 Township: 30 Range: 9 Or Latitude Longitude Date Started: 1-19-95 Run: 10 22
FIELD OBSERVATIONS	Sample Number(s): $\frac{KP384}{}$
SURE	Remediation Method: Excavation Onsite Bioremediation Backfill Pit Without Excavation
SOTO	Soil Disposition: Envirotech
REMARKS	Remarks: No Line markers Started Remeadating to 12' Soil Turned dark Gray will A shell Lookins. At 12' soil still The SAME.
	Signature of Specialist: Kelly Padilla



FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KP 384	946584
MTR CODE SITE NAME:	89438	N/A
SAMPLE DATE TIME (Hrs):	1-20-95	1430
SAMPLED BY:		N/A
DATE OF TPH EXT. ANAL.:	1-29 -95	1-28-95
DATE OF BTEX EXT. ANAL.:	1/26/95	1/29/95
TYPE DESCRIPTION:	٧٧	Dark Gray clay

REMARKS: _	
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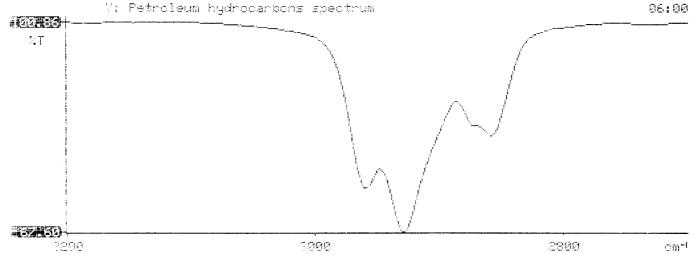
RESULTS

PARAMETER	RESULT	UNITS		QUALIFIERS					
			DF	Q	M(g)	V(ml)			
BENZENE	40.99	MG/KG	0.19841		2.52	20			
TOLUENE	5,91	MG/KG]			
ETHYL BENZENE	5,13	MG/KG			1.				
TOTAL XYLENES	44.0	MG/KG			1	1			
TOTAL BTEX	55.0	MG/KG		. <u>.</u>					
TPH (418.1)	1370	MG/KG			1.95	288			
HEADSPACE PID	970	PPM							
PERCENT SOLIDS	86.8	%							

PERCENT SULIDS	80.0	70	10.00 (10.	
	TPH is by EPA Met	thod 418.1 and BTEX is by EP/	A Method 8020	
The Surrogate Recovery was at Narrative:	98.0	% for this sample	All QA/QC was acceptable.	
DE = Dilution Factor Used				

$DF = Dilution \ Factor \ U$	sed		
Approved By:	1.2	Date:	2-22-95
•			

```
Test Method for
    Sil and Grease and Petroleum Hydrocarbons
                                            ф
ф
              in Water and Soil
                                            ^{*}
                                            ^{*}
         Perkin-Elmer Model 1600 FT-IR
               Analysis Report
75/01/28 04:00
: Bample identification
846584
inditial mass of sample, g
 Volume of sample after extraction, ml
28.000
 Petroleum hydrocarbons, ppm
1373.126
Net absorbance of hydrocarbons (2930 cm-1)
0.173
\dot{\mathcal{X}}
```



BTEX SOIL SAMPLE WORKSHEET

File	:	946584B	3	Date Printed	:	1/30/95
Soil Mass (g)	:	2.52	2 Multi	plier (L/g)	:	0.00198
Extraction vol. (mL)	:	20) DF	(Analytical)	:	100
Shot Volume (uL)	:	200) DF	(Report)	:	0.19841

						Det. Limit
Benzene	(ug/L) :	0.00	Benzene	(mg/Kg):	0.000	0.992
Toluene	(ug/L) :	29.78	Toluene	(mg/Kg):	5.909	0.992
Ethylbenzene	(ug/L) :	25.87	Ethylbenzene	(mg/Kg):	5.133	0.992
p & m-xylene	(ug/L) :	161.50	p & m-xylene	(mg/Kg):	32.044	1.984
o-xylene	(ug/L) :	60.19	o-xylene	(mg/Kg):	11.942	0.992
			Total xylenes	(ma/Ka):	43 986	2 976

Total xylenes (mg/Kg): 43.986
Total BTEX (mg/Kg): 55.028

EL PASO NATURAL GAS

EPA METHOD 8020 - BTEX SOILS

: C:\LABQUEST\CHROM001\946584B **File**

: C:\LABQUEST\METHODS\CALCBTEX.MET Method

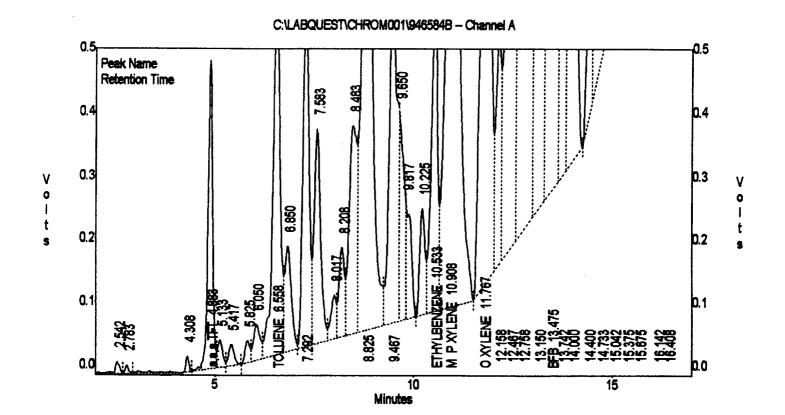
Sample ID : 946584,2.52G/200ul. : Jan 29, 1995 20:25:38 Acquired : Jan 30, 1995 11:07:53 Printed

User : Tony

Channel A Results

COMPONENT	RET TIME	AREA	AVG RF	CONC (ug/L)
BENZENE	3.442	0	0.00000	0.0000
a,a,a TFT	4.883	3934934	32055.68359	120.7649
TOLUENE	6.558	7358746	314479.71875	29.7773
ETHYLBENZENE	10.533	5833197	228573.29688	25.8711
M & P XYLENE	10.908	40658568	316768.40625	161.5038
O XYLENE	11.767	13263643	221087.17188	60.1876
BFB	13.475	93472152	944778.31250	98.0209
Totals :				

164521248 496.1256



EL PASO NATURAL GAS

EPA METHOD 8020 - BTEX SOILS

File: C:\LABQUEST\CHROM001\946584B

Method: C:\LABQUEST\METHODS\CALCBTEX.MET

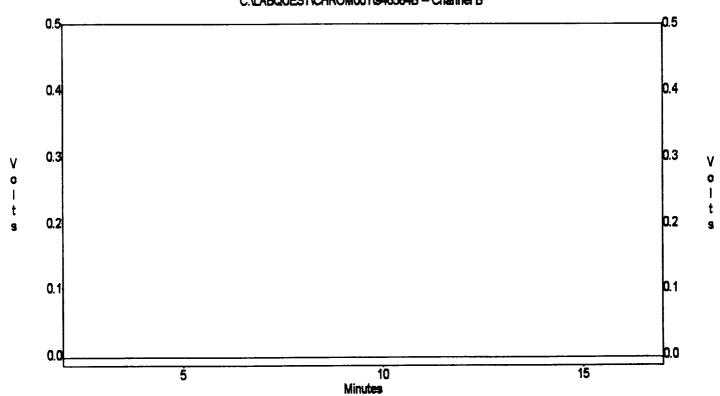
Sample ID : 946584,2.52G/200uL Acquired : Jan 29, 1995 20:25:38 Printed : Jan 30, 1995 11:08:02

User : Tony

Channel B Results

COMPONENT	RET TIME	AREA	AVG RF	CONC (ug/L)
BENZENE	3.367	0	0.00000	0.0000
a,a,a TFT	4.883	0	0.00000	0.0000
TOLUENE	6.700	0	0.00000	0.0000
ETHYLBENZENE	10.480	0	0.00000	0.0000
M & P XYLENE	10.833	0	0.00000	0.0000
O XYLENE	11.900	0	0.00000	0.0000
BFB	13.400	0	0.00000	0.0000
Totals :				
		0		0.0000

C:\LABQUEST\CHROM001\946584B - Channel B



PHASE II

RECORD OF SUBSURFACE EXPLORATION Borehole # **BH-1** Well # PHILIP ENVIRONMENTAL Page 4000 Monroe Road Project Name **EPNG PITS** Farmington, New Mexico 87401 (605) 326-2262 FAX (606) 326-2388 Project Number 14509 Phase 6000 77 Pumo Canyon **Project Location** ST Pope Elevation Well Logged By Borehole Location John ton Federal 1A Personnel On-Site GWL Depth Contractors On-Site Logged By Client Personnel On-Site S. Pope Drilled By M DONOHUE

Drilling Method

4 1/4" ID HSA PID, CGI

Date/Time Started

0800

te/Time Completed 0900 6/13/95				Air Monitoring Method PID, CGI						
Depth Feet)	Sample Number	Sample Interval	Sample Type & Recovery (inches)	Sample Description Classification System: USCS	USCS Symbol	Depth Lithology Change (feet)	1	r Monito : PPM BH	ring St? Vs	Drilling Conditions & Blow Counts
O				Brown Sady fill						
10	1	[0]Z	\$5 11	Brown-Groy Silty Sand, fine Stand Sand, Very danse, Comented Slightly Moist.		5M	0	0	0	0840 Head Space 12pg
15	2	15	200	5An TOB - 17			0	<i>o</i>	0	Not enough for Head space about With collect for analysis
25										
35										
40										

Auger Remove Hole Growted to Comments: **Geologist Signature** 6/12/95\DRILLOG1.XLS

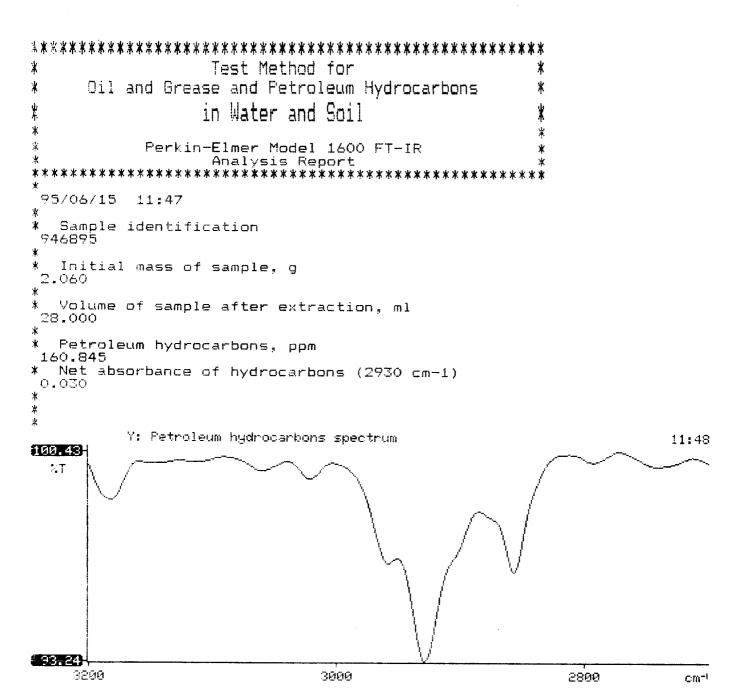




FIELD SERVICES LABORATORY **ANALYTICAL REPORT**

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

	SAMPLE	IDENTIFICA	TION				
	Field (ID		Lab ID			
SAMPLE NUMBER:	STPL		941	946895			
MTR CODE SITE NAME:	89438			N/A			
SAMPLE DATE TIME (Hrs):	6-13-9	S		1845			
SAMPLED BY:		· · · · · · · · · · · · · · · · · · ·	I/A	A			
DATE OF TPH EXT. ANAL.:	6-15-	95	6.	6-15-95			
DATE OF BTEX EXT. ANAL.:	lo - 110	-95		16.95			
TYPE DESCRIPTION:	√ <i>G</i>		Proun 5	end teb	7		
REMARKS: _							
	P	RESULTS					
PARAMETER	RESULT	UNITS	QUALIFIERS				
			DF	Q.	M(g)	V(ml)	
BENZENE	20.025	MG/KG	1				
TOLUENE	۷٥.025	MG/KG)				
ETHYL BENZENE	10.025	MG/KG	1				
TOTAL XYLENES	10.025	MG/KG	1				
TOTAL BTEX	20.10	MG/KG					
TPH (418.1)	161	MG/KG			2.06	28	
HEADSPACE PID	12	PPM					
PERCENT SOLIDS	92.6	%					
e Surrogate Recovery was at	TPH is by EPA Method 4	% for this samp	le All QA/Q	C was accept	able.		
OF = Dilution Factor Used	Les & 618x	ma maã	9: Fr. 2 80	215			





TEST

: BTEX (EPA 8020)

CLIENT

: EL PASO NATURAL GAS CO. ATI I.D.: 506376

PROJECT # : 24324

SAMPLID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
04	946894	NON-AQ	06/13/95	06/16/95	06/16/95	1
05	946895	NON-AQ	06/13/95	06/16/95	06/16/95	1
06	946896	NON-AQ	06/13/95	06/16/95	06/16/95	1
PARAMI	ETER		UNITS	04	05	06
BENZE	IE .		MG/KG	<0.025	<0.025	<0.025
TOLUEN	IE		MG/KG	<0.025	<0.025	<0.025
ETHYLE	BENZENE		MG/KG	<0.025	<0.025	<0.025
TOTAL	XYLENES		MG/KG	<0.025	<0.025	<0.025
SURROG	ATE:					
BROMOR	LUOROBENZENE (%)			101	96	99



ATI I.D. 506376

June 21, 1995

El Paso Natural Gas Co. P.O. Box 4990 Farmington, NM 87499

Project Name/Number: PIT CLOSURE/PHASE II 24324

Attention: John Lambdin

On **06/16/95**, Analytical Technologies, Inc., (ADHS License No. AZ0015), received a request to analyze **non-aqueous** samples. The samples were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

If you have any questions or comments, please do not hesitate to contact us at (505) 344-3777.

Kimberly D. McNeill Project Manager

& uchel

MR:jt

Enclosure

H. Mitchell Rubenstein, Ph.D. Laboratory Manager



TEST

: EPA 8015 MODIFIED

CLIENT

: EL PASO NATURAL GAS CO. ATI I.D.: 506376

PROJECT # : 24324

SAMPLE			DATE	DATE	DATE	DIL.
ID. #	CLIENT I.D.	MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
05	946895	NON-AQ	06/13/95	06/16/95	06/19/95	1
06	946896	NON-AQ	06/13/95	06/16/95	06/19/95	1
07	946897	NON-AQ	06/13/95	06/16/95	06/19/95	1
PARAME	TER		UNITS	05	. 06	07
FUEL H	YDROCARBONS		MG/KG	43	46	180
HYDROC	ARBON RANGE			C20-C36	C20-C36	C6-C14
HYDROC	ARBONS QUANTITATED	USING		DIESEL	DIESEL	GASOLINE
FUEL H	YDROCARBONS		MG/KG	-	-	24
HYDROC	ARBON RANGE			-	-	C20-C36
HYDROC	ARBONS QUANTITATED	USING		-	-	DIESEL
SURROG	ATE:					
O-TERP	HENYL (%)			101	95	92



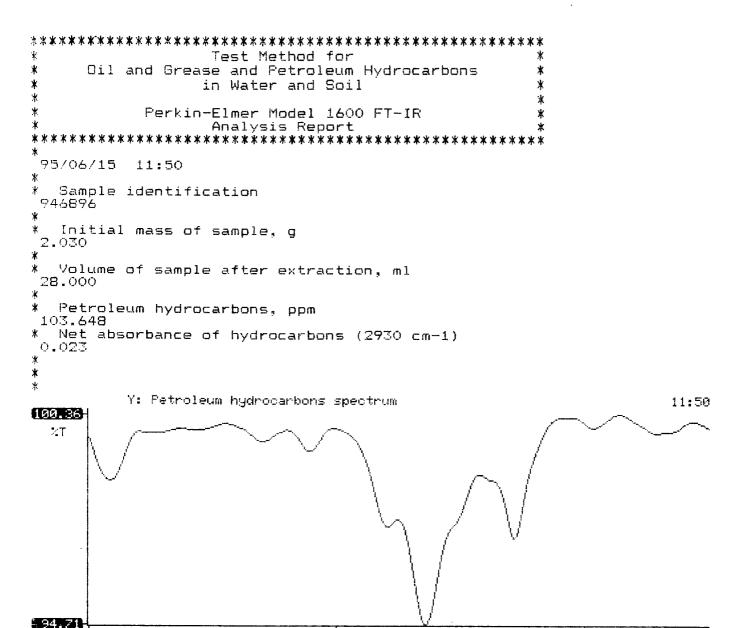
FIELD SERVICES LABORATORY ANALYTICAL REPORT



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SAMPLE IDENTIFICATION

	Field II	D		Lab ID			
SAMPLE NUMBER:	STP 2	STP 2			946896		
MTR CODE SITE NAME:	89438	}		N/A			
SAMPLE DATE TIME (Hrs):	6-13-9		ε	845			
SAMPLED BY:		N	/A				
DATE OF TPH EXT. ANAL.:	6-15-	35	ا ما	15-95			
ATE OF BTEX EXT. ANAL.:	6-16			le-16.95			
TYPE DESCRIPTION:	1		Brown Sa	nd rc	ay		
REMARKS:		ESULTS					
PARAMETER	RESULT	UNITS		QUALI			
			DF	Q	M(g)	V(ml)	
BENZENE	10.025	MG/KG	1				
TOLUENE	40.025	MG/KG	1		:		
ETHYL BENZENE	20.025	MG/KG	,		!		
TOTAL XYLENES	10.025	MG/KG	1		\$:		
TOTAL BTEX	20.10	MG/KG					
TPH (418.1)	104 - 100 PS	MG/KG			2.03	28	
HEADSPACE PID	12	PPM					
PERCENT SOLIDS	92.6	%					
Surrogate Recovery was at rative:	TPH is by EPA Method 4		EPA Method 8020 le All QA/QC mod: 5,-e a	was accep	otable.		



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TEST

: BTEX (EPA 8020)

CLIENT

: EL PASO NATURAL GAS CO. ATI I.D.: 506376

PROJECT #

: 24324

SAMPI ID. #		MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
04	946894	NON-AQ	06/13/95	06/16/95	06/16/95	1
05	946895	NON-AQ	06/13/95	06/16/95	06/16/95	1
06	946896	NON-AQ	06/13/95	06/16/95	06/16/95	1
PARAM	IETER		UNITS	04	05	06
BENZE	INE		MG/KG	<0.025	<0.025	<0.025
TOLUE	NE		MG/KG	<0.025	<0.025	<0.025
ETHYL	BENZENE		MG/KG	<0.025	<0.025	<0.025
TOTAL	XYLENES		MG/KG	<0.025	<0.025	<0.025
SURRO	GATE:					
BROMO	FLUOROBENZENE (%)			101	96	99



ATI I.D. 506376

June 21, 1995

El Paso Natural Gas Co. P.O. Box 4990 Farmington, NM 87499

Project Name/Number: PIT CLOSURE/PHASE II 24324

Attention: John Lambdin

On **06/16/95**, Analytical Technologies, Inc., (ADHS License No. AZ0015), received a request to analyze **non-aqueous** samples. The samples were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

If you have any questions or comments, please do not hesitate to contact us at (505) 344-3777.

Kimberly D. McNeill Project Manager

X Mandall

MR:jt

Enclosure

H. Mitchell Rubenstein, Ph.D. Laboratory Manager



TEST

: EPA 8015 MODIFIED

CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 506376

PROJECT # : 24324

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR		
05	946895	NON-AQ	06/13/95	06/16/95	06/19/95	1		
06	946896	NON-AQ	06/13/95	06/16/95	06/19/95	1		
07	946897	NON-AQ	06/13/95	06/16/95	06/19/95	1		
PARAME	TER		UNITS	05	06	07		
FUEL H	YDROCARBONS	<u> </u>	MG/KG	43	46	180		
HYDROC	ARBON RANGE			C20-C36	C20-C36	C6-C14		
HYDROC	ARBONS QUANTITATED	USING		DIESEL	DIESEL	GASOLINE		
FUEL H	YDROCARBONS		MG/KG	-	-	24		
HYDROC	HYDROCARBON RANGE C20-C3							
HYDROC	ARBONS QUANTITATED	USING		-	-	DIESEL		
SURROG	ATE:							
O-TERPHENYL (%) 101 95 92								