

Dennis B. Z...
EL PASO FIELD SERVICES
DEPUTY OIL & GAS INSPECTOR
PRODUCTION PIT CLOSURE

DEC 21 1998

STEWART LS #8
Meter/Line ID - 73027

RECEIVED
JUL 2 1998

OIL CON. DIV.
DIST. 3

Approved
Legals - Twn: 30 Rng: 10
NMOC Hazard Ranking: 10
Operator: AMOCO PRODUCTION COMPANY

SITE DETAILS

Sec: 28 Unit: N
Land Type: 2 - Federal

Pit Closure Date: 05/16/94

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 in time with minimal risk to the environment.

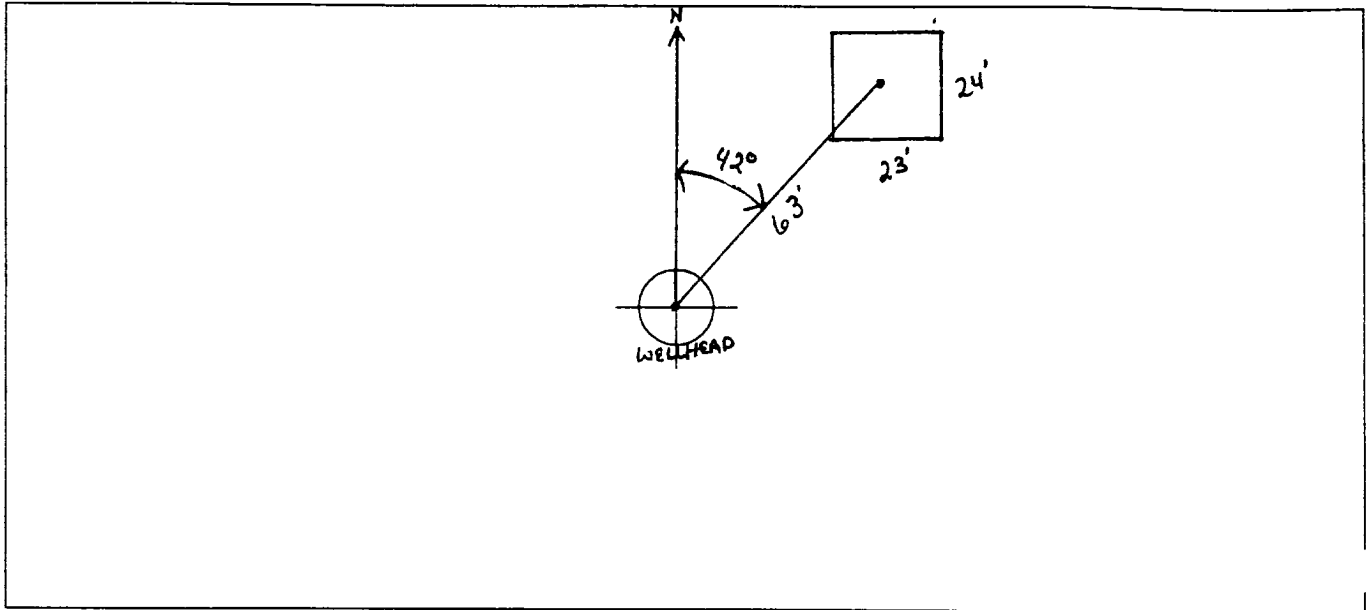
FIELD PIT SITE ASSESSMENT FORM

GENERAL	Meter: <u>73027</u> Location: <u>STEWART LS #8</u> Operator #: <u>0203</u> Operator Name: <u>AMOCO</u> P/L District: <u>BLOOMFIELD</u> Coordinates: Letter: <u>N</u> Section <u>28</u> Township: <u>30</u> Range: <u>10</u> Or Latitude _____ Longitude _____ Pit Type: Dehydrator <input checked="" type="checkbox"/> Location Drip: _____ Line Drip: _____ Other: _____ Site Assessment Date: <u>5.3.94</u> Area: <u>10</u> Run: <u>73</u>								
SITE ASSESSMENT	NMOCD Zone: (From NMOCD Maps)								
	Land Type: <table border="0"> <tr> <td>BLM</td> <td><input checked="" type="checkbox"/> (1)</td> </tr> <tr> <td>State</td> <td><input type="checkbox"/> (2)</td> </tr> <tr> <td>Fee</td> <td><input type="checkbox"/> (3)</td> </tr> <tr> <td>Indian</td> <td>_____</td> </tr> </table>		BLM	<input checked="" type="checkbox"/> (1)	State	<input type="checkbox"/> (2)	Fee	<input type="checkbox"/> (3)	Indian
BLM	<input checked="" type="checkbox"/> (1)								
State	<input type="checkbox"/> (2)								
Fee	<input type="checkbox"/> (3)								
Indian	_____								
REMARKS	Depth to Groundwater Less Than 50 Feet (20 points) <input type="checkbox"/> (1) 50 Ft to 99 Ft (10 points) <input checked="" type="checkbox"/> (2) Greater Than 100 Ft (0 points) <input type="checkbox"/> (3)								
	Wellhead Protection Area : Is it less than 1000 ft from wells, springs, or other sources of fresh water extraction? , or ; Is it less than 200 ft from a private domestic water source? <input type="checkbox"/> (1) YES (20 points) <input checked="" type="checkbox"/> (2) NO (0 points)								
Horizontal Distance to Surface Water Body Less Than 200 Ft (20 points) <input type="checkbox"/> (1) 200 Ft to 1000 Ft (10 points) <input type="checkbox"/> (2) Greater Than 1000 Ft (0 points) <input checked="" type="checkbox"/> (3) Name of Surface Water Body _____ (Surface Water Body : Perennial Rivers, Major Wash, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds) Distance to Nearest Ephemeral Stream <input type="checkbox"/> (1) < 100' (Navajo Pits Only) <input type="checkbox"/> (2) > 100'									
TOTAL HAZARD RANKING SCORE: <u>10</u> POINTS									
Remarks : <u>THREE PITS ON LOCATION, WILL CLOSE ONLY ONE. PIT IS DRY. REDLINE AND TOPO CONFIRMED LOCATION TO BE INSIDE THE V.Z.</u>									
<div style="text-align: right;">DIG & HAUL</div>									

ORIGINAL PIT LOCATION

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 42° Footage from Wellhead 63'
b) Length : 24' Width : 23' Depth : 3'



REMARKS

Remarks :

TOOK PICTURES AT 11:53 A.M.

END DUMP

Completed By:

Paul Thompson
Signature

5.3.94
Date

PHASE I EXCAVATION

GENERAL

Meter: 73027 Location: STEWART ^{KP5} ~~L8~~ LS #8
Coordinates: Letter: N Section 28 Township: 30 Range: 10
Or Latitude _____ Longitude _____
Date Started : 5-16-94 Area: 10 Run: 73

FIELD OBSERVATIONS

Sample Number(s): KP# 50
Sample Depth: 2' Feet
Final PID Reading 433 PID Reading Depth 2' Feet
Yes No
Groundwater Encountered ☐ (1) ☒ (2) Approximate Depth _____ Feet

CLOSURE

Remediation Method :
Excavation ☒ (1) Approx. Cubic Yards 20
Onsite Bioremediation ☐ (2)
Backfill Pit Without Excavation ☐ (3)
Soil Disposition:
Envirotech ☐ (1) ☒ (3) Tierra
Other Facility ☐ (2) Name: _____
Pit Closure Date: 5-16-94 Pit Closed By: B.E.I

REMARKS

Remarks : Some Line markers Pit seemed Dry
Dug down 8' Hit SAND STONE. Could Not Dig ANY MORE
HARD SAND STONE.

Signature of Specialist: Kelly Padilla



FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KP50	945188
MTR CODE SITE NAME:	73027	N/A
SAMPLE DATE TIME (Hrs):	5-16-94	0900
SAMPLED BY:	N/A	
DATE OF TPH EXT. ANAL.:	5-17-94	5/17/94
DATE OF BTEX EXT. ANAL.:	5/20/94	5/22/94
TYPE DESCRIPTION:	VC	Coarse sand & clay

REMARKS:

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	1.5	MG/KG	20			
TOLUENE	47	MG/KG	20			
ETHYL BENZENE	11	MG/KG	20			
TOTAL XYLENES	170	MG/KG	20			
TOTAL BTEX	230	MG/KG				
TPH (418.1)	1350	MG/KG			2.17	28
HEADSPACE PID	433	PPM				
PERCENT SOLIDS	90.5	%				

-- TPH is by EPA Method 418.1 and BTEX is by EPA Method 8020 --

The Surrogate Recovery was at 81 % for this sample All QA/QC was acceptable.

Narrative:

AT I results attached.

DF = Dilution Factor Used

Approved By:

John Fatta

Date:

7/14/94

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1      Test Method for
2      Oil and Grease and Petroleum Hydrocarbons
3      in Water and Soil
4
5      Perkin-Elmer Model 1600 FT-IR
6      Analysis Report
7*****

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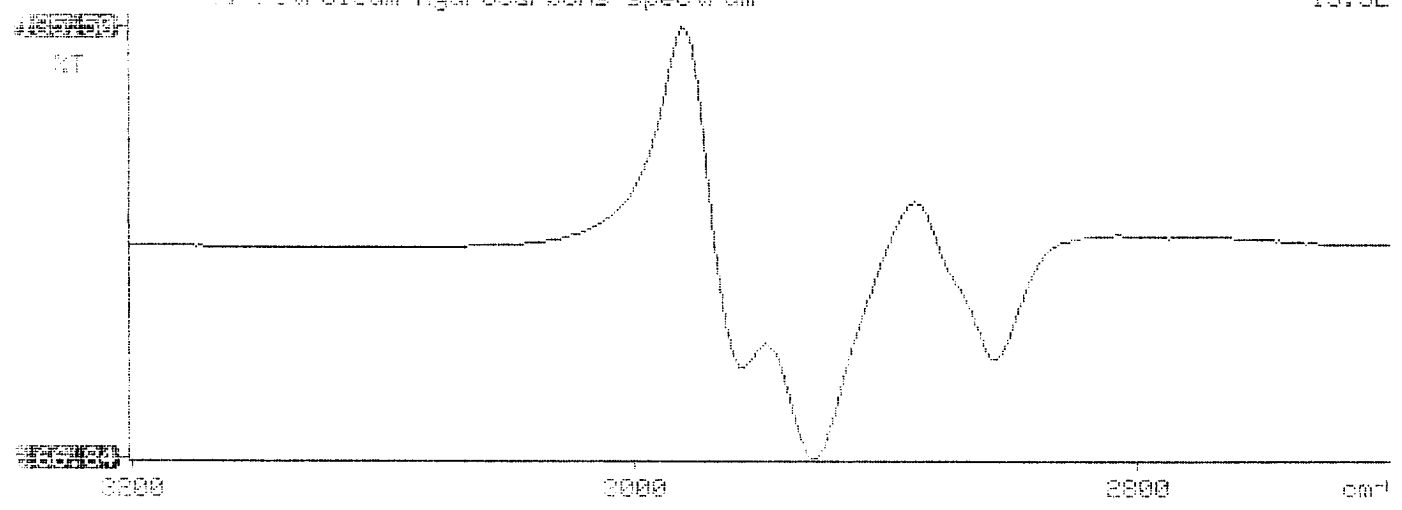
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8      74/03/17  13:32
9
10     Sample identification
11     943168
12
13     Initial mass of sample, g
14     2.170
15
16     Volume of sample after extraction, ml
17     23.000
18
19     Petroleum hydrocarbons, ppm
20     1349.632
21     Net absorbance of hydrocarbons (2930 cm-1)
22     0.177
23
24

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% Petroleum hydrocarbons spectrum

13:32





Analytical **Technologies, Inc.**

2709-D Pan American Freeway, NE Albuquerque, NM 87107
Phone (505) 344-3777 FAX (505) 344-4413

ATI I.D. **405378**

June 2, 1994

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

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

On **05/18/94**, 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.

Client samples 945004 and 945007 were submitted to Analytical Technologies' Albuquerque laboratory past the recommended EPA holding time.

NOTED
8/6/94

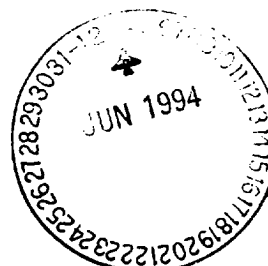
If you have any questions or comments, please do not hesitate to contact us at (505) 344-3777.

Letitia Krakowski, Ph.D.
Project Manager

H. Mitchell Rubenstein, Ph.D.
Laboratory Manager

MR:jd

Enclosure



GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)
 CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 405378
 PROJECT # : 24324
 PROJECT NAME : PIT CLOSURE

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
21	945187	NON-AQ	05/16/94	05/20/94	05/22/94	20
22	945188	NON-AQ	05/16/94	05/20/94	05/22/94	20
23	945189	NON-AQ	05/16/94	05/20/94	05/22/94	20

PARAMETER	UNITS	21	22	23
BENZENE	MG/KG	1.7	1.5	1.5
TOLUENE	MG/KG	17	47	30
ETHYLBENZENE	MG/KG	2.8	11	9.9
TOTAL XYLENES	MG/KG	31	170	85

SURROGATE:

TRIFLUOROTOLUENE (%)	104	81	87
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PHASE II

RECORD OF SUBSURFACE EXPLORATION

Philip Environmental Services Corp.
4000 Monroe Road
Farmington, New Mexico 87401
(505) 326-2262 FAX (505) 326-2388

Borehole # BH-1
Well # _____
Page 1 of 1

Project Name EPNG Pits
Project Number 14509 Phase 601-6000
Project Location STEWART LS #8, T.30Z7

Elevation _____
Borehole Location T30, R10, S.28, N
GWL Depth _____
Logged By S.Kelly
Drilled By M. Donohue
Date/Time Started 8/8/95, 1115
Date/Time Completed 8/8/95, 1300

Well Logged By S.Kelly
Personnel On-Site M. Donohue, J. O'Keefe
Contractors On-Site _____
Client Personnel On-Site _____
Drilling Method 4 1/4" ID HSA
Air Monitoring Method CGI, PID

Depth (Feet)	Sample Number	Sample Interval	Sample Type & Recovery (inches)	Sample Description Classification System: USCS	USCS Symbol	Depth Lithology Change (feet)	Air Monitoring Units: NDU BZ BH S/H S			Drilling Conditions & Blow Counts
0				Backfill to 2'						
5										
10										
15	1	13-15	.51 20	SAND, grey, fine to med. grained, dense, dry			54 345		1139	
20	2	18-20	.85 20	SAA			27 354		1148	
25	3	23-25	.91 20	SAA, tan color			11 85		1200	
30	4	28-30	.85 20	SAA			1 40		1214	
35				TOB - 30.0'						
40										

Comments:

28'-30' sample (SER-57-57) sent to lab (BTEX & TPH). Sample was bagged and iced prior to being put in jar. BH grouted to surface.

Geologist Signature

Sarah Kelly



FIELD SERVICES LABORATORY

ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	SEK 57	947174
MTR CODE SITE NAME:	73027	Stewart LS #8
SAMPLE DATE TIME (Hrs):	08-08-95	12:14
PROJECT:	Phase II Drilling	
DATE OF TPH EXT. ANAL.:	8/9/95	8/9/95
DATE OF BTEX EXT. ANAL.:	8/14/95	8/15/95
TYPE DESCRIPTION:	VG	light brown sand & clay

Field Remarks: 128-30'

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	40.025	MG/KG	1			
TOLUENE	40.025	MG/KG	1			
ETHYL BENZENE	40.025	MG/KG	1			
TOTAL XYLENES	40.025	MG/KG	1			
TOTAL BTEX	40.10	MG/KG				
TPH (418.1)	55.2 ^{8/28/95}	MG/KG			2.03	28
HEADSPACE PID	40	PPM				
PERCENT SOLIDS	91.3	%				

-- TPH is by EPA Method 418.1 and BTEX is by EPA Method 8020 --

The Surrogate Recovery was at 107 for this sample All QA/QC was acceptable.

Narrative:

AT1 Results attached.

DF = Dilution Factor Used

Approved By:

Date:

8/28/95

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*                               *
*      Test Method for         *
*      Oil and Grease and Petroleum Hydrocarbons      *
*      in Water and Soil      *
*                               *
*      Perkin-Elmer Model 1600 FT-IR                  *
*      Analysis Report                                *
*                               *
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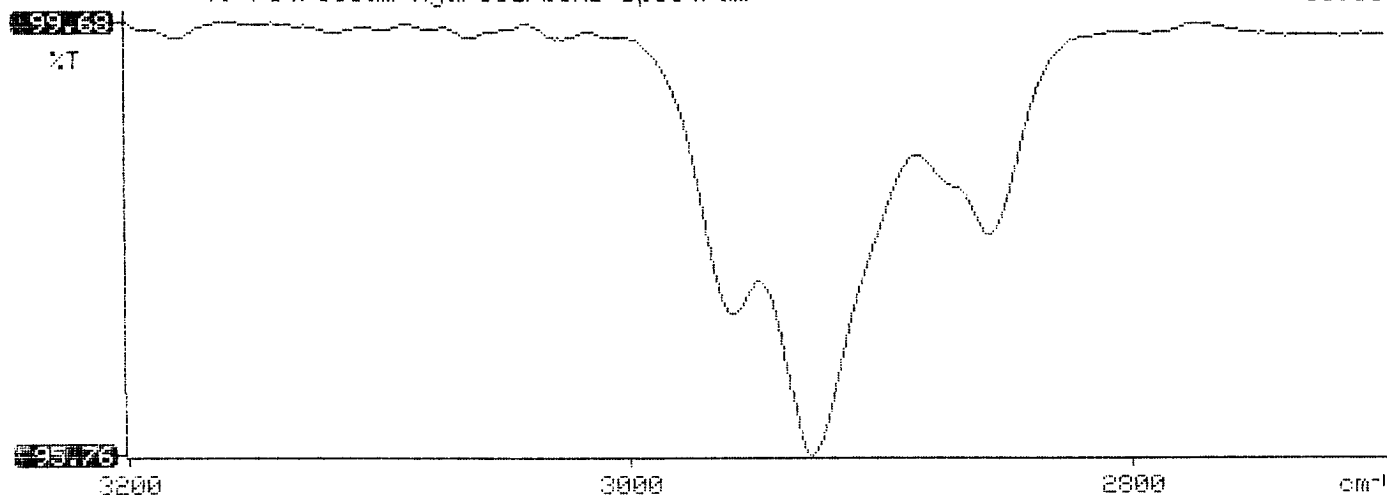
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* 95/08/09 13:34
*
* Sample identification
* 947174
*
* Initial mass of sample, g
* 2.030
*
* Volume of sample after extraction, ml
* 28.000
*
* Petroleum hydrocarbons, ppm
* 55.194
* Net absorbance of hydrocarbons (2930 cm-1)
* 0.017
*
*
*

```

Y: Petroleum hydrocarbons spectrum

13:35





Analytical**Technologies**, Inc.

2709-D Pan American Freeway, NE Albuquerque, NM 87107
Phone (505) 344-3777 FAX (505) 344-4413

ATI I.D. 508367

August 17, 1995

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

Project Name/Number: PIT CLOSURE/PHASE I, II & III PITS 24324

Attention: John Lambdin

On 08/11/95, 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.

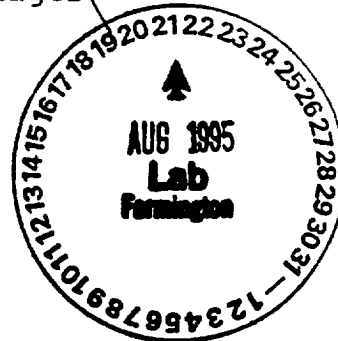
If you have any questions or comments, please do not hesitate to contact us at (505) 344-3777.

Kimberly D. McNeill
Project Manager

MR:jt

Enclosure

H. Mitchell Rubenstein, Ph.D.
Laboratory Manager





Analytical **Technologies**, Inc.

GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)
CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 508367
PROJECT # : 24324
PROJECT NAME : PIT CLOSURE/PHASE I, II & III

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
13	947174	NON-AQ	08/08/95	08/14/95	08/15/95	1
14	947178	NON-AQ	08/08/95	08/12/95	08/12/95	1
15	947179	NON-AQ	08/08/95	08/12/95	08/12/95	1

PARAMETER	UNITS	13	14	15
BENZENE	MG/KG	<0.025	<0.025	<0.025
TOLUENE	MG/KG	<0.025	<0.025	<0.025
ETHYLBENZENE	MG/KG	<0.025	<0.025	<0.025
TOTAL XYLENES	MG/KG	<0.025	<0.025	<0.025

SURROGATE:

BROMOFLUOROBENZENE (%)	107	101	109
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