EL PASO FIELD SERVICES
PRODUCTION PIT CLOSURE

DEPUTY OIL & GAS INSPECTOR
DEC 2 1 1994

RECEIVED
JUL 2 1998
OIL CON. DIV.
DIST. 3

HEATH GAS COM N #1
Meter/Line ID - 87551

SITE DETAILS

Legals - Twn: 29 **Rng:** 09 **Sec:** 08 **Unit:** G
NMOCD Hazard Ranking: 20 **Land Type:** 2 - Federal
Operator: AMOCO PRODUCTION COMPANY **Pit Closure Date: 05/17/94**

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: 87551 Location: HEATH GAS COM N #1
Operator #: 0203 Operator Name: AMOCO P/L District: BLOOMFIELD
Coordinates: Letter: G Section 8 Township: 29 Range: 9
Or Latitude _____ Longitude _____
Pit Type: Dehydrator ___ Location Drip: X Line Drip: ___ Other: _____
Site Assessment Date: 5.2.94 Area: 10 Run: 53

SITE ASSESSMENT

NMOCD Zone: (From NMOCD Maps)
Inside ☒ (1)
Outside ☐ (2)

Land Type:
BLM ☒ (1)
State ☐ (2)
Fee ☐ (3)
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)

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? ☐ (1) YES (20 points) ☒ (2) NO (0 points)

Horizontal Distance to Surface Water Body
Less Than 200 Ft (20 points) ☐ (1)
200 Ft to 1000 Ft (10 points) ☒ (2)
Greater Than 1000 Ft (0 points) ☐ (3)
Name of Surface Water Body SAN JUAN RIVER
(Surface Water Body : Perennial Rivers, Major Wash, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds)
Distance to Nearest Ephemeral Stream ☐ (1) < 100' (Navajo Pits Only)
☐ (2) > 100'

TOTAL HAZARD RANKING SCORE: 20 **POINTS**

REMARKS

Remarks : TWO PITS ON LOCATION. WILL CLOSE ONLY ONE. PIT IS DRY. LOCATION IS ON A HILL ABOVE SAN JUAN RIVER. PEDLINE AND TOPO CONFIRMED LOCATION TO BE INSIDE THE V.Z.

DIG & HAUL

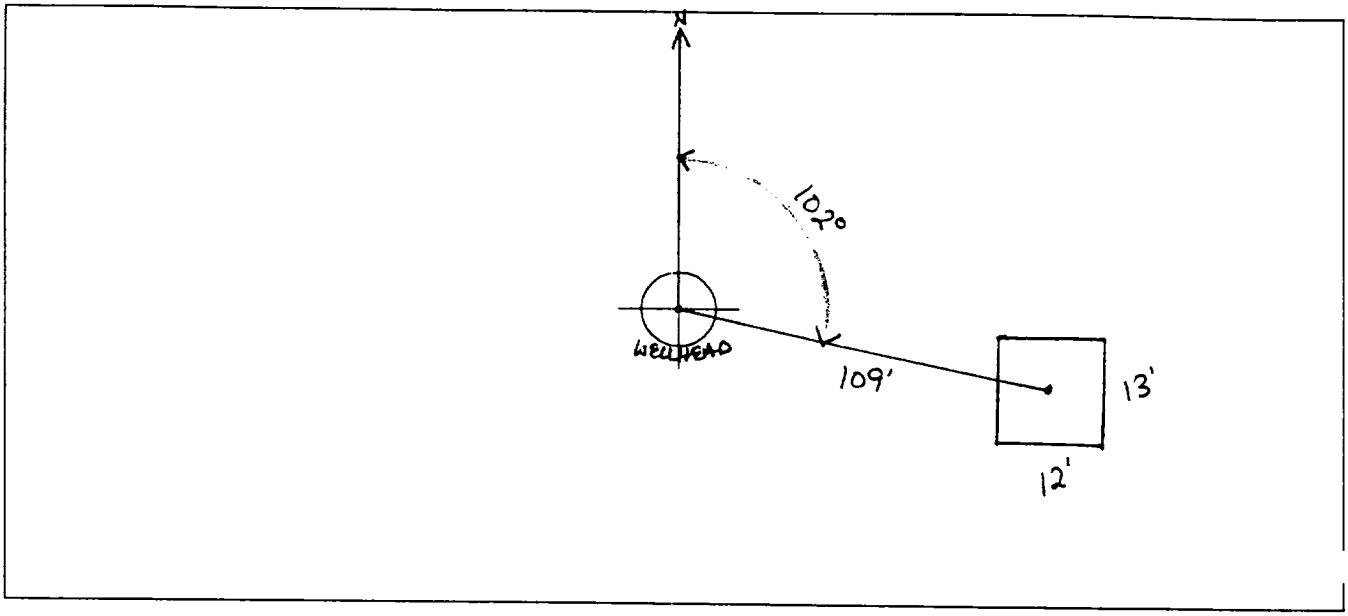
(SP3190) 04/08/94

ORIGINAL PIT LOCATION

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 102° Footage from Wellhead 109'

b) Length : 13' Width : 12' Depth : 2'



REMARKS

Remarks :

TOOK PICTURES AT 12:36 P.M.

DUMP TRUCK - BOBTAIL

Completed By:

Robert Thompson

Signature

5.7.94

Date

PHASE I
EXCAVATION

GENERAL

Meter: 87551 Location: HEATH GAS COM N #1

Coordinates: Letter: G Section 8 Township: 29 Range: 9

Or Latitude _____ Longitude _____

Date Started : 5-17-94 Area: 10 Run: 53

FIELD OBSERVATIONS

Sample Number(s): KP@57 _____ _____ _____

Sample Depth: 12' Feet

Final PID Reading 125 PID Reading Depth 12' Feet

	Yes	No	
Groundwater Encountered	☐ (1)	☒ (2)	Approximate Depth _____ Feet

CLOSURE

Remediation Method :

Excavation	☒ (1)	Approx. Cubic Yards 40
Onsite Bioremediation	☐ (2)	
Backfill Pit Without Excavation	☐ (3)	

Soil Disposition:

Envirotech	☐ (1)	☒ (3)	Tierra
Other Facility	☐ (2)	Name:	_____

Pit Closure Date: 5-17-94 Pit Closed By: B.E.I

REMARKS

Remarks : Some LINE markers Pit Looks Dry Started Remediating To 12'. Soil Turned Sandy + Black Smells Bad

Signature of Specialist: Kelly Padilla

(SP3191) 04/07/94

El Paso Natural Gas Company

FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KPS7	945195
MTR CODE | SITE NAME:	87551	N/A
SAMPLE DATE | TIME (Hrs):	5-17-94	1604
SAMPLED BY:	N/A	
DATE OF TPH EXT. | ANAL.:	5-18-94	5|18|94
DATE OF BTEX EXT. | ANAL.:	5|23|94	5|26|94
TYPE | DESCRIPTION:	VC	Brown Course Sand

REMARKS: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	<0.62	MG/KG	25			
TOLUENE	6.5	MG/KG	25			
ETHYL BENZENE	4.7	MG/KG	25			
TOTAL XYLENES	88	MG/KG	25			
TOTAL BTEX	100	MG/KG				
TPH (418.1)	2330	MG/KG			2.11	28
HEADSPACE PID	125	PPM				
PERCENT SOLIDS	95.0	%				

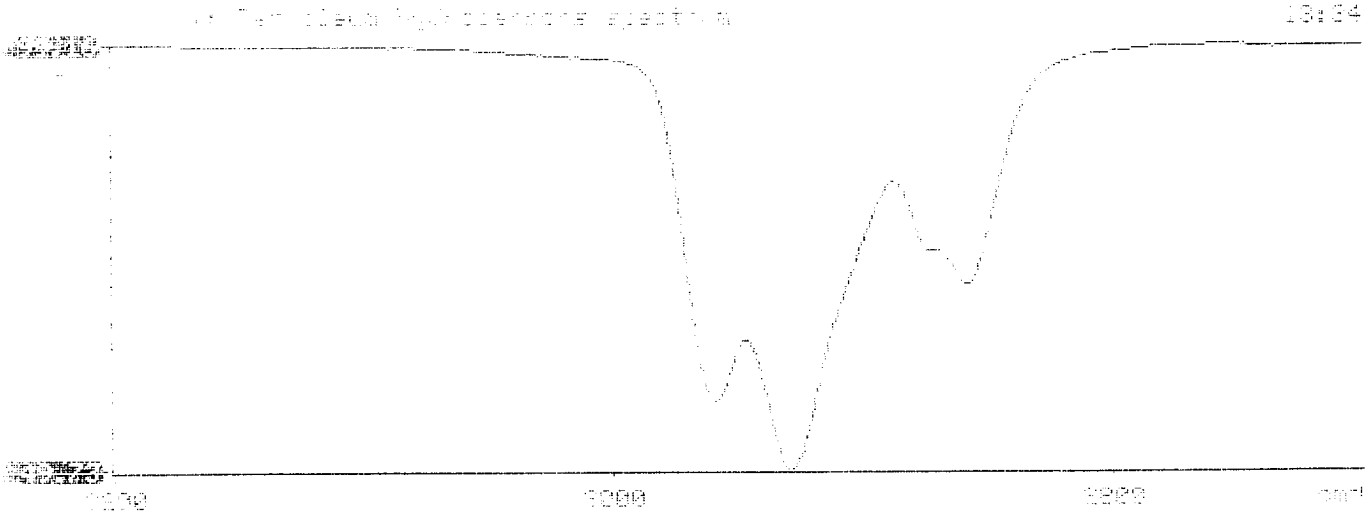
-- TPH is by EPA Method 418.1 and BTEX is by EPA Method 8020 --

The Surrogate Recovery was at 118 % for this sample All QA/QC was acceptable.

Narrative:
ATI results attached. Surrogate recovery was outside ATI QC limits due to matrix interfer

DF = Dilution Factor Used

Approved By: John Fuller Date: 7/14/94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1170
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1220
cm-1

Analytical Technologies, Inc.

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

ATI I.D. **405389**

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 **05/20/94**, 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.

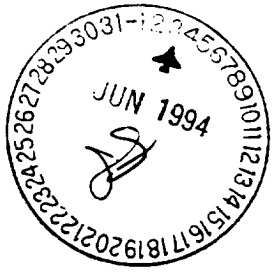
If you have any questions or comments, please do not hesitate to contact us at (505) 344-3777.

Letitia Krakowski, Ph.D.
Project Manager

H. Mitchell Rubenstein, Ph.D.
Laboratory Manager

MR:jd

Enclosure



Analytical Technologies, Inc.

GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)

CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 405389

PROJECT # : 24324

PROJECT NAME : PIT CLOSURE

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
04	945195	NON-AQ	05/17/94	05/23/94	05/26/94	25
05	945196	NON-AQ	05/17/94	05/23/94	05/25/94	1
06	945197	NON-AQ	05/17/94	05/23/94	05/26/94	1

PARAMETER	UNITS	04	05	06
BENZENE	MG/KG	<0.62	<0.025	<0.025
TOLUENE	MG/KG	6.5	<0.025	<0.025
ETHYLBENZENE	MG/KG	4.7	<0.025	<0.025
TOTAL XYLENES	MG/KG	88	0.029	0.086
SURROGATE:				
BROMOFLUOROBENZENE (%)		118*	86	97

*OUTSIDE ATI QUALITY CONTROL LIMITS DUE TO MATRIX INTERFERENCE

PHASE II

RECORD OF SUBSURFACE EXPLORATION

Borehole # BH 1
Well #
Page 1 of 1

Philip Environmental Services Corp.
4000 Monroe Road
Farmington, New Mexico 87401
(606) 326-2262 FAX (606) 326-2388

THIS IS THE 2nd of 2 Logs for this site.

Project Name EPNG Pits
Project Number 14509 Phase 601
Project Location Heath Gas Com N#1, 8755

Elevation
Borehole Location Downslope of pit - 15' to 20' NW of center of pit.
GWL Depth
Logged By S.Kelly
Drilled By K. Padilla
Date/Time Started 6/22/95, 1340
Date/Time Completed 6/22/95, 1400

Well Logged By S.Kelly
Personnel On-Site K.Padilla, F.Rivera, J.Tipton
Contractors On-Site
Client Personnel On-Site

Drilling Method 4¼" 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	Drilling Conditions & Blow Counts
0				sandy SILT, light brown, 20-30% fine sand. trace cobbles to 2' bgs. loose, dry						
5							2	2		→ at 5.0' bgs
10							1	1		→ at 10' bgs.
15	1	15-17	1.2'	SAA					1/3	1356
20				BOH 17 Refusal at 17' may be cobbles.						
25				Pit is on a NW trending arroyo on a S side terrace. Assumed that gradient would be parallel to the arroyo and drilled to the NW of pit.						
30										
35										
40										

Comments: Augers refused at 17'. ~~drove~~ DK 6/22/95 Could not beat spoon past 17'. Seems like it's hitting cobble. 15'-17' sample sent to lab. (BTEX & TPH.) BH grouted to surface. (SEK19)

Geologist Signature Sarah Kelly

RECORD OF SUBSURFACE EXPLORATION

Borehole # BH-1
Well #
Page 1 of 1

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

This is the 1st of 2 drill logs for this site.

Project Name EPNG Pits
Project Number 14509 Phase 601
Project Location Heath Gas Com Unit, $755

Elevation
Borehole Location
GWL Depth
Logged By S.Kelly
Drilled By K. Padilla
Date/Time Started 6/22/95, 1120
Date/Time Completed 6/22/95, 1150

Well Logged By S.Kelly
Personnel On-Site K. Padilla, F. Rivera, J. Tipte
Contractors On-Site
Client Personnel On-Site

Drilling Method 4¼" 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	Drilling Conditions & Blow Counts
0				Backfill to 12'.						
5										
10										
15				Could not drill through backfill due to cobble. No sample or headspace readings taken.						
20										
25				Total footage drilled in pit area 3'						
30										
35										
40										

Comments: Drilled to approx. 3', and hit a cobble, moved auger forward (NW of pit center). 2nd hole also refused at ±3'. Moved auger again. 3rd hole refused at 2'.

Geologist Signature Susan Kelly

Drilling

El Paso Natural Gas Company

FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	SBK 19	~~94692~~ 94692
MTR CODE | SITE NAME:	87551	N/A
SAMPLE DATE | TIME (Hrs):	6-22-95	1356
SAMPLED BY:	N/A	
DATE OF TPH EXT. ANAL.:	6-23-95	6-23-95
DATE OF BTEX EXT. ANAL.:	6-29-95	6-30-95
TYPE | DESCRIPTION:	VG	Light Brown fine sand

REMARKS: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	< 0.025	MG/KG	1			
TOLUENE	< 0.025	MG/KG	1			
ETHYL BENZENE	< 0.025	MG/KG	1			
TOTAL XYLENES	< 0.025	MG/KG	1			
TOTAL BTEX	< 0.10	MG/KG				
TPH (418.1)	57.7	MG/KG			2.04	28
HEADSPACE PID	3	PPM				
PERCENT SOLIDS	97.6	%				

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

The Surrogate Recovery was at 106 % for this sample All QA/QC was acceptable.

Narrative:

ATI Results attached

DF = Dilution Factor Used

Approved By: _____ Date: 7/7/95

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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                     *
**********************************************************
*
 95/06/23  13:48
*
*  Sample identification
 946924
*
*  Initial mass of sample, g
 2.040
*
*  Volume of sample after extraction, ml
 28.000
*
*  Petroleum hydrocarbons, ppm
 57.717
*  Net absorbance of hydrocarbons (2930 cm-1)
 0.017
*
*
*
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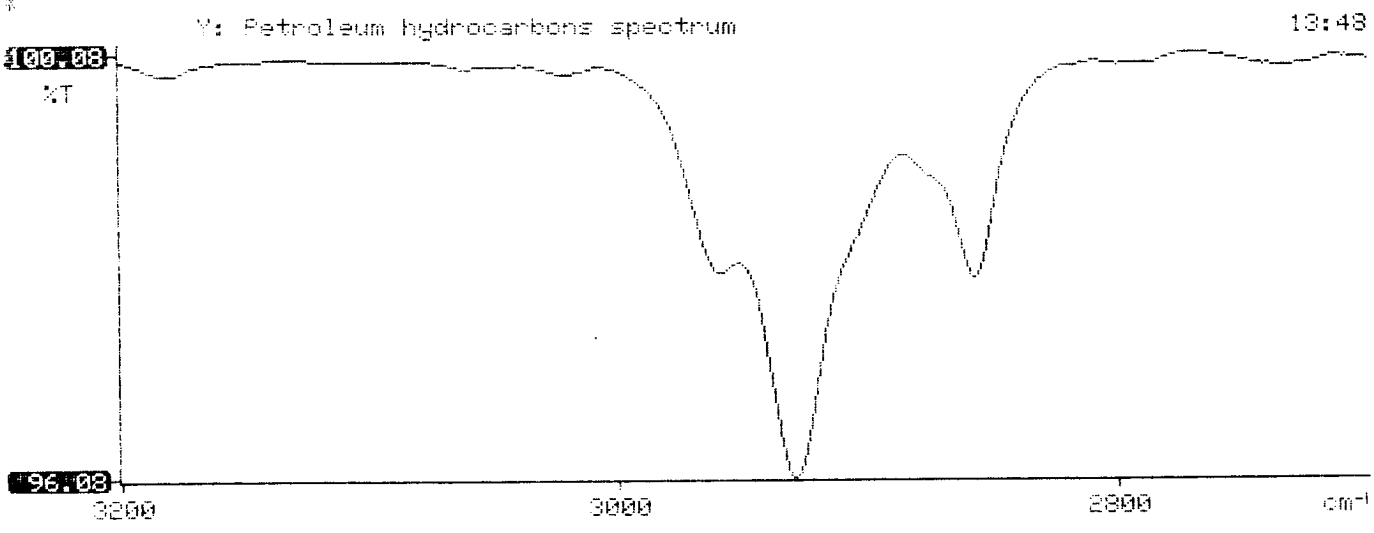

Analytical **Technologies,** Inc.

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

ATI I.D. **506426**

July 10, 1995

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

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

On **06/29/95**, 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

H. Mitchell Rubenstein, Ph.D.
Laboratory Manager

MR:jt

Enclosure

Analytical Technologies, Inc.

GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)
CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 506426
PROJECT # : 24324
PROJECT NAME : PIT CLOSURE

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
04	946921	NON-AQ	06/21/95	06/29/95	06/30/95	1
05	946923	NON-AQ	06/22/95	06/29/95	06/30/95	1
06	946924	NON-AQ	06/22/95	06/29/95	06/30/95	1

PARAMETER	UNITS	04	05	06
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	0.077	<0.025
SURROGATE:				
BROMOFLUOROBENZENE (%)		98	101	106