

FIELD PIT SITE ASSESSMENT FORM

OK

DEC 21 1998

RECEIVED

GENERAL

Approved Meter: 75084 Location: STATE GAS UNIT #21 1998
Operator #: 0203 Operator Name: AMOCO, CON. DIV. District: KUTZ
Coordinates: Letter: 6 Section 16 Township: 31 Range: 12
Or Latitude _____ Longitude _____
Pit Type: Dehydrator ☒ Location Drip: _____ Line Drip: _____ Other: _____
Site Visit Date: 3.30.94 Run: 02 73

SITE ASSESSMENT

NMOCD Zone: Inside Land Type: BLM ☐
(From NMOCD Vulnerable State ☒
Maps) Zone ☒ Fee ☐
Outside ☐ Indian _____

Depth to Groundwater

Less Than 50 Feet (20 points) ☐
50 Ft to 99 Ft (10 points) ☐
Greater Than 100 Ft (0 points) ☒

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? ☐ YES (20 points) ☒ NO (0 points)

Horizontal Distance to Surface Water Body

Less Than 200 Ft (20 points) ☐
200 Ft to 1000 Ft (10 points) ☐
Greater Than 1000 Ft (0 points) ☒

Name of Surface Water Body _____

(Surface Water Body : Perennial Rivers, Major Wash, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds)

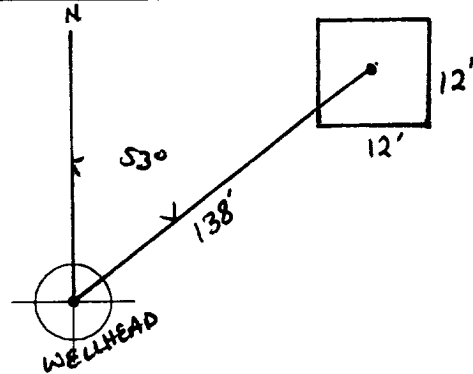
TOTAL HAZARD RANKING SCORE: 0 POINTS

REMARKS

Remarks : THREE PITS ON LOCATION. WILL CLOSE ONLY ONE. PIT IS DRY.

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 53° Footage to Wellhead 138'
 b) Degrees from North _____ Footage to Dogleg _____
 Dogleg Name _____
 c) Length : 12' Width : 12' Depth : 1'



REMARKS :

STARTED TAKING PICTURES AT 2:45 P.M.
END DUMP

Completed By:

Robert Thompson
 Signature

3.30.94
 Date

4-22-94
RT

FIELD PIT SITE ASSESSMENT FORM

GENERAL	Meter: <u>75084</u> Location: <u>STATE GAS UNIT RA #1</u> Operator #: _____ Operator Name: _____ P/L District: _____ Coordinates: Letter: _____ Section _____ Township: _____ Range: _____ Or Latitude _____ Longitude _____ Pit Type: Dehydrator _____ Location Drip: _____ Line Drip: _____ Other: _____ Site Assessment Date: _____ Area: <u>62</u> Run: <u>23</u>
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 <u>FARMINGTON GLADE</u> (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: <u>30</u> POINTS
REMARKS	Remarks : _____ _____ _____

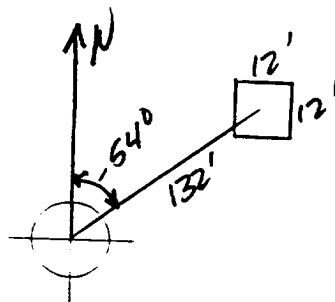
FIELD PIT SITE ASSESSMENT FORM

GENERAL	Meter: <u>75084'</u> ² Location: <u>STATE GAS COM BA 1</u> Operator #: <u>0203</u> Operator Name: <u>AMOCO</u> P/L District: <u>KUTZ</u> Coordinates: Letter: <u>G</u> Section <u>16</u> Township: <u>31</u> Range: <u>12</u> Or Latitude _____ Longitude _____ Pit Type: Dehydrator ☒ Location Drip: _____ Line Drip: _____ Owner: _____ Site Assessment Date: <u>12-9-94</u> Area: <u>02</u> Run: <u>73</u>	
SITE ASSESSMENT	NMOCD Zone: (From NMOCD Maps)	Land Type: BLM ☐ (1) State ☒ (2) Fee ☐ (3) Indian _____
	inside ☒ (1) Outside ☐ (2)	
	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)	
REMARKS	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 <u>FARMINGTON GLADE</u> (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: <u>40</u> POINTS	
Remarks : <u>REDLINE - INSIDE</u> <u>TOPO - INSIDE</u>		

ORIGINAL PIT LOCATION

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 54° Footage from Wellhead 132'
b) Length : 12' Width : 12' Depth : NA



REMARKS

Remarks :

PIT CLOSED

Completed By:

Allen S. Harris

Signature

12-9-94

Date

PHASE I EXCAVATION

FIELD T REMEDIATION/CLOSURE FORM

GENERAL	Meter: <u>75084</u> Location: <u>STATE Gas Unit BA #1</u> Coordinates: Letter: <u>6</u> Section <u>76</u> Township: <u>31</u> Range: <u>12</u> Or Latitude _____ Longitude _____ Date Started : <u>5/3/94</u> Area: <u>02</u> Run: <u>73</u>
FIELD OBSERVATIONS	945062 Sample Number(s): <u>4P13</u> Sample Depth: <u>12</u> Feet Final PID Reading <u>380 ppm</u> PID Reading Depth <u>12</u> Feet Yes No Groundwater Encountered ☐ (1) ☒ (2) Approximate Depth _____ Feet
CLOSURE	Remediation Method : Excavation Onsite Bioremediation Backfill Pit Without Excavation ☒ (1) Approx. Cubic Yards <u>40</u> ☐ (2) ☐ (3) Soil Disposition: Envirotech Other Facility ☐ (1) ☒ (3) Tierra ☐ (2) Name: _____ Pit Closure Date: <u>5/3/94</u> Pit Closed By: <u>BEI</u>
REMARKS	Remarks : <u>Started Remediating pit to 12' took VC sample</u> <u>PID Reading was 380 ppm at 26" closed pit. walls</u> <u>and Floor still Dark Gray.</u>
	Signature of Specialist: <u>James J. Penrose</u>

FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT - Soil
SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	JP13	945062
MTR CODE SITE NAME:	75084	N/A
SAMPLE DATE TIME (Hrs):	5/3/94	1210
SAMPLED BY:	N/A	
DATE OF TPH EXT. ANAL.:	5/5/94	5/5/94
DATE OF BTEX EXT. ANAL.:	5/9/94	5/13/94
TYPE DESCRIPTION:	VC	Fire Gray Sand

REMARKS:

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	2.4	MG/KG	25			
TOLUENE	81	MG/KG	25			
ETHYL BENZENE	12	MG/KG	25			
TOTAL XYLENES	160	MG/KG	25			
TOTAL BTEX	255	MG/KG				
TPH (418.1)	1220	MG/KG			2.31	28
HEADSPACE PID	380	PPM				
PERCENT SOLIDS	85.4	%				

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

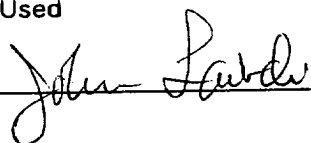
 The Surrogate Recovery was at 37 % for this sample All QA/QC was acceptable.

Narrative:

ATI results attached. Surrogate recovery was outside ATI QC limits due to matrix interference

DF = Dilution Factor Used

Approved By:



Date:

7/14/94

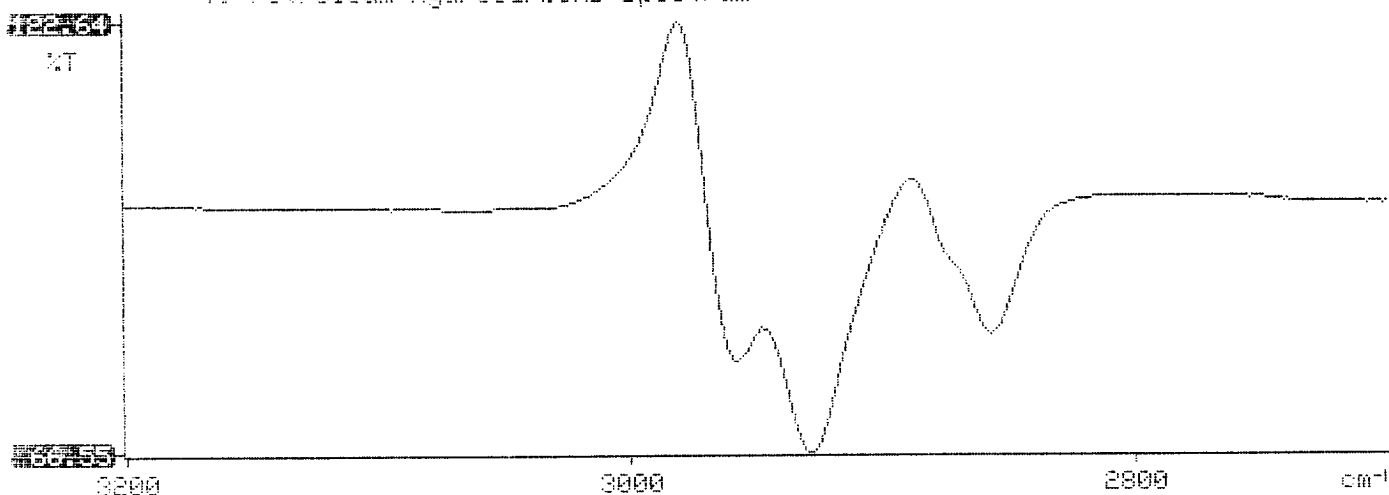
 * Test Method for *
 * Oil and Grease and Petroleum Hydrocarbons *
 * in Water and Soil *
 * *
 * Perkin-Elmer Model 1600 FT-IR *
 * Analysis Report *

94/05/05 13:07
 Sample identification
 945062

Initial mass of sample, g
 2.310
 Volume of sample after extraction, ml
 28.000
 Petroleum hydrocarbons, ppm
 1223.202
 Net absorbance of hydrocarbons (2930 cm⁻¹)
 0.173

Y: Petroleum hydrocarbons spectrum

13:07





Analytical **Technologies**, Inc.

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

ATI I.D. 405331

May 19, 1994

El Paso Natural Gas Company
770 W. Navajo
Farmington, NM 87401

Project Name/Number: PIT PROJECT 24324

Attention: John Lambdin

On 05/06/94, Analytical Technologies, Inc., (ADHS License No. AZ0015), received a request to analyze **aqueous** and **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.

Upon arrival, it was noted that sample 945055 contained headspace. The client was notified and the sample was analyzed "as is."

The laboratory was instructed to correct the sampling data for sample 945075 to 05/04/94.

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

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.: 405331
PROJECT # : 24324
PROJECT NAME : PIT PROJECT

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
14	945062	NON-AQ	05/03/94	05/09/94	05/13/94	25
15	945063	NON-AQ	05/03/94	05/09/94	05/13/94	25
16	945064	NON-AQ	05/03/94	05/09/94	05/13/94	5
PARAMETER			UNITS	14	15	16
BENZENE			MG/KG	2.4	<0.62	<0.12
TOLUENE			MG/KG	81	1.8	<0.12
ETHYLBENZENE			MG/KG	12	1.4	0.86
TOTAL XYLENES			MG/KG	160	24	9.1
SURROGATE:						
BROMOFLUOROBENZENE (%)				37*	48*	73

*OUTSIDE ATI QUALITY CONTROL LIMITS DUE TO MATRIX INTERFERENCE

PHASE II

RECORD OF SUBSURFACE EXPLORATION

PHILIP ENVIRONMENTAL

4000 Monroe Road

Farmington, New Mexico 87401

(505) 326-2262 FAX (505) 326-2388

Borehole # BH-1

Well #

Page 2 of 2

Project Name

EPNG PITS

Project Number

14509

Phase

6000 77

Project Location

State Gas Unit BA #1 75D84

Elevation

Borehole Location QG - S16 - T31 - R12

GWL Depth

Logged By CM CHANCE

Drilled By K Padilla

Date/Time Started 10/6/95 - 1134

Date/Time Completed 10/6/95 - 1530

Well Logged By

CM Chance

Personnel On-Site

K Padilla, F. Rivera

Contractors On-Site

Client Personnel On-Site

Drilling Method

4 1/4" ID HSA

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)	Air Monitoring Units: PPM			Drilling Conditions & Blow Counts
							BZ	BH	S HS	
40										
45	7	45-46	12"	Br sandy CLAY, vt-f sand, stiff, non plastic, dry			0	180	684 783	-1412
50	8	50-51	4"	AA Br Silty SAND, vt-f sand, dense, dry			0	200	595 127	-Refusal @ 50' w/ augers -1427
				TDB 51'						
55										
60										
65										
70										
75										
80										

Comments:

CMC 137 (50-51') sent to lab (BTEX, TPH). BH grouted to surface. Refusal
w/ augers @ 50'.

Geologist Signature

CM Chance

RECORD OF SUBSURFACE EXPLORATION

PHILIP ENVIRONMENTAL

4000 Monroe Road

Farmington, New Mexico 87401

(505) 326-2262 FAX (505) 326-2388

Borehole # BH-1

Well #

Page 1 of 2

Project Name

EPNG PITS

Project Number

14509

Phase

6000 77

Project Location

State Gas Unit BA #1 75084

Well Logged By

CM Chance

Personnel On-Site

K Padilla, E. Rivera

Contractors On-Site

Client Personnel On-Site

Drilling Method

4 1/4" ID HSA

Air Monitoring Method

PID, CGI

Elevation

Borehole Location

QG-S16-T31-R12

GWL Depth

Logged By

CM CHANCE

Drilled By

K Padilla

Date/Time Started

10/6/95 - 1134

Date/Time Completed

10/6/95 - 1530

Depth (Feet)	Sample Number	Sample Interval	Sample Type & Recovery (inches)	Sample Description Classification System: USCS	USCS Symbol	Depth Lithology Change (feet)	Air Monitoring Units: PPM BZ BH HS			Drilling Conditions & Blow Counts
0				Backfill to 12'						
5										
10										
15	1	15-17	12"	Blk/Gry mottled sandy CLAY, vf sand, soft, dry, nonplastic			0	64	224 330	-1144
20	2	20-22	18"	DK gry CLAY, v. soft, med plastic, odor			0	76	560 419	-1151
25	3	25-27	16"	Br sandy CLAY, med stiff, med plastic, odor			0	98	480 639	-1158
30	4	30-32	12"	AA Br SILT, med dense dry			2	195	715 988	-1208 -Drilling harder
35	5	35-37	6"	AA			0	162	819 942	-1326
40	6	40-42	18"	Bl sandy CLAY, vf-F sand, stiff, nonplastic, dry			0	182	332 487	-1340 -Drilling u hard

Comments:

Center red drop. Will push, & go back in.

Geologist Signature



FIELD SERVICES LABORATORY
ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	CMC 137	947607
MTR CODE SITE NAME:	75084	State Gas Unit BA # 1
SAMPLE DATE TIME (Hrs):	10-06-95	1427
PROJECT:	Phase II Drilling	
DATE OF TPH EXT. ANAL.:	10/9/95	
DATE OF BTEX EXT. ANAL.:	10/9/95	10/9/95
TYPE DESCRIPTION:	VG	Light brown sand & sandstone

Field Remarks:

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	< 0.5	MG/KG				
TOLUENE	1.2	MG/KG				
ETHYL BENZENE	< 0.5	MG/KG				
TOTAL XYLENES	5.4	MG/KG				
TOTAL BTEX	6.6	MG/KG				
TPH (418.1)	< 10	MG/KG			2.04	28
HEADSPACE PID	127	PPM				
PERCENT SOLIDS	89.6	%				

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

The Surrogate Recovery was at
Narrative:

97%

for this sample All QA/QC was acceptable.

DF = Dilution Factor Used

Approved By:

Date:

10-11-95

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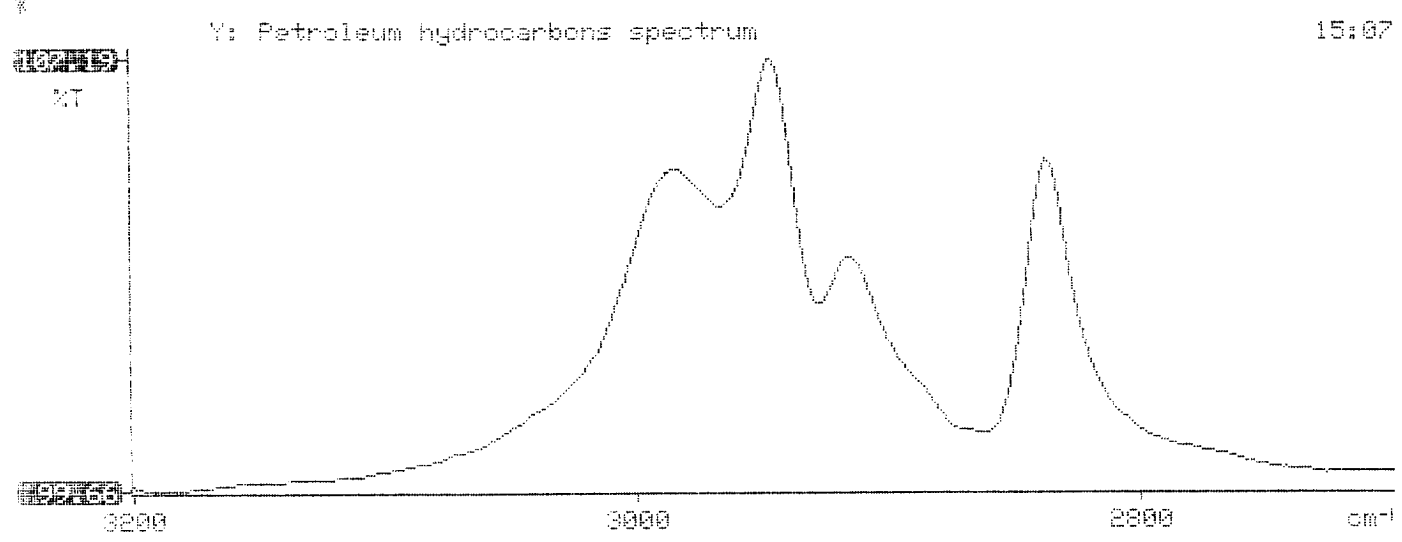
*****
*                               *
*      Test Method for          *
*      Oil and Grease and Petroleum Hydrocarbons      *
*      in Water and Soil       *
*                               *
*      Perkin-Elmer Model 1600 FT-IR                  *
*      Analysis Report                               *
*****

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* 95/10/09 15:07
*
* Sample identification
* 947607
*
* Initial mass of sample, g
* 2.040
*
* Volume of sample after extraction, ml
* 28.000
*
* Petroleum hydrocarbons, ppm
* -189.689
* Net absorbance of hydrocarbons (2930 cm-1)
* -0.013
*
*
*

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BTEX SOIL SAMPLE WORKSHEET

File	:	947607	Date Printed	:	10/10/95
Soil Mass (g)	:	5.01	Multiplier (L/g)	:	0.00100
Extraction vol. (mL)	:	10	DF (Analytical)	:	200
Shot Volume (uL)	:	50	DF (Report)	:	0.19960

				Det. Limit
Benzene (ug/L)	:	0.19	Benzene (mg/Kg):	0.038 0.499
Toluene (ug/L)	:	5.91	Toluene (mg/Kg):	1.180 0.499
Ethylbenzene (ug/L)	:	1.27	Ethylbenzene (mg/Kg):	0.253 0.499
p & m-xylene (ug/L)	:	22.20	p & m-xylene (mg/Kg):	4.431 0.998
o-xylene (ug/L)	:	4.81	o-xylene (mg/Kg):	0.960 0.499
			Total xylenes (mg/Kg):	5.391 1.497
			Total BTEX (mg/Kg):	6.862

EL PASO NATURAL GAS

EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM000\100995-0.017
 Method : C:\LABQUEST\METHODS\0-092095.MET
 Sample ID : 947607,5.01G,50U
 Acquired : Oct 09, 1995 23:38:55
 Printed : Oct 10, 1995 00:09:22
 User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	8.163	69811	0.1866
a,a,a-TFT	10.533	9334151	106.6933
TOLUENE	12.953	2113654	5.9069
ETHYLBENZENE	17.293	427514	1.2699
M,P-XYLENES	17.670	8694206	22.2384
O-XYLENE	18.843	1534617	4.8116
BFB	19.893	52728916	96.7359

