

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

*Risk  
Defined  
extent of  
plume*

Submit 1 copy to  
appropriate  
District Office  
and 1 copy to  
the Santa Fe Office  
(Revised 3/9/94)

PIT REMEDIATION AND CLOSURE REPORT

Operator: Amoco Production Company Telephone \_\_\_\_\_

Address: 30-045-07242

Facility Or: LS Russell #3, Meter 72141

Well Name \_\_\_\_\_

Location: Unit or Qtr/Qtr Sec M Sec 23 T 28 R 8 County San Juan

Pit Type: Separator \_\_\_\_\_ Dehydrator X Other \_\_\_\_\_

Land Type: BLM X, State \_\_\_\_\_, Fee \_\_\_\_\_ Other \_\_\_\_\_

Pit Location: Pit dimensions: length 23', width 21', depth 5'

(Attach diagram)

Reference: wellhead X, other \_\_\_\_\_

Footage from reference: 83'

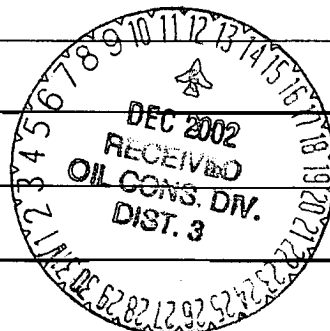
Direction from reference: 135 Degrees X East North \_\_\_\_\_  
of  
\_\_\_\_\_ West South \_\_\_\_\_

Depth To Ground Water	Less than 50 feet	(20 points)
(Vertical distance from	50 feet to 99 feet	(10 points)
contaminants to seasonal	Greater than 100 feet	( 0 points) <u>20</u>
high water elevation of		
ground water.)		

Wellhead Protection Area:	Yes (20 points)
(Less than 200 feet from a private	No ( 0 points) <u>0</u>
domestic water source, or; less than	
1000 feet from all other water sources.)	

Distance To Surface Water:	Less than 200 feet	(20 points)
(Horizontal distance to perennial	200 feet to 1000 feet	(10 points)
lakes, ponds, rivers, streams, creeks,	Greater than 1000 feet	( 0 points) <u>0</u>
irrigation canals and ditches.)		

RANKING SCORE (TOTAL POINTS): 20



Date Remediation Started: 07/29/94 Date completed: 07/29/94

Remediation Method: Excavation \_\_\_\_\_ Approx. cubic yards \_\_\_\_\_

(Check all appropriate sections.)

Landfarmed \_\_\_\_\_ Insitu Bioremediation \_\_\_\_\_

Other Backfill pit without excavation

Remediation Location: Onsite N/A Offsite N/A  
(i.e. landfarmed onsite,  
name and location of  
offsite facility)

General Description of Remedial Action: EPNG lines marked. Soil gray, strong hydrocarbon odor. Soil was very  
Oily looking .

Ground Water Encountered: No X Yes \_\_\_\_\_ Depth \_\_\_\_\_

Final Pit:

Sample location Four walls and center of pit composite

Closure Sampling:

(if multiple samples,  
attach sample results  
and diagram of sample  
locations and depths)

Sample depth 12'

Sample Date 07/29/94 Sample time 12:46

Sample Results

Benzene(ppm) Not reported.

Total BTEX(ppm) Not reported

Field headspace(ppm) 228

TPH 7000

Ground Water Sample: Yes \_\_\_\_\_ No X (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

1/8/03

Signature

Scott T. Pope

Printed Name

Scott T. Pope

and Title

Senior ENV. Scientist



## PIT CLOSURE REQUEST

Russell A#3  
Meter/Line ID 72141

### SITE DETAILS

Legals - Twn: 28N

Rng: 8W

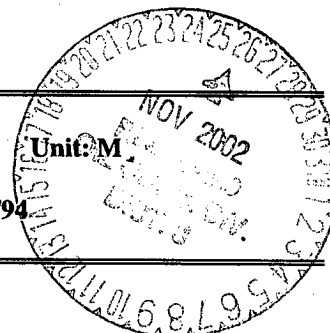
Sec: 23

NMOCD Hazard Ranking: 20

Land Type: BLM

Operator: Amoco Production Company

Pit Closure Date: 7/29/94



### RATIONALE FOR RISK-BASED CLOSURE

The pit noted above was assessed and ranked according to the criteria in the New Mexico Oil Conservation Division's (NMOCD) Unlined Surface Impoundment Closure Guidelines.

A test pit was excavated to 12 feet (ft) below ground surface (bgs) where a soil sample was collected for field headspace analysis and laboratory analysis for TPH. Groundwater was not encountered in the test pit. Headspace analysis indicated an organic vapor content of 228 ppm; laboratory analysis indicated a TPH concentration 7,000 mg/kg. The headspace analysis and TPH measurement exceeded recommended remediation levels for the Hazard Ranking Score of 20.

No soil was disposed of offsite. The pit was backfilled with site soil, topped with clean soil from the surrounding berms, and graded in a manner to direct surface runoff away from the pit area.

A Phase II boring was completed to 47 ft bgs. No groundwater was encountered in the soil boring. One laboratory sample was collected at 45-47 ft bgs. Headspace analysis indicated an organic vapor content of 4 ppm; laboratory analysis indicated a benzene concentration of <0.5 mg/kg, a total BTEX concentration of <3 mg/kg, and a TPH concentration of <20 mg/kg. The benzene, TPH, and BTEX concentration was below recommended remediation levels for the Hazard Ranking Score.

No Phase III activities were conducted.

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

- The primary source, discharge to the pit, has been removed for over eight years.
- The test pit was backfilled and the former pit area graded to direct surface runoff away from the former pit.
- The clean soil from the berms placed on top of the excavation would limit the potential for direct contact with hazardous constituents by livestock or the public; i.e., current direct contact exposure pathways are unlikely to be completed.
- Groundwater was not encountered in the soil boring to 47 ft bgs.
- There are no water supply wells or other sources of fresh water extraction within 1,000 feet of the site.
- Benzene, total BTEX, and TPH concentrations in the soil sample collected at the base of the Phase II soil boring at 45 ft bgs were non-detect.



## **PIT CLOSURE REQUEST**

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- Residual hydrocarbons in soil will likely degrade by natural attenuation with minimal risk to human health and the environment.

### **ATTACHMENTS**

Field Pit Assessment Form

Revised Field Pit Assessment Form

Field Pit Remediation/Closure Form

Phase II Soil Boring Log

Laboratory Analytical Results

**REVISED**  
**FIELD PIT SITE ASSESSMENT FORM**

<b>GENERAL</b>	Meter: <u>72141</u> Location: <u>Russell A #3</u> Operator #: _____ Operator Name: _____ P/L District: _____ Coordinates: Letter: <u>M</u> Section <u>23</u> Township: <u>28</u> Range: <u>8</u> Or                      Latitude _____ Longitude _____ Pit Type: Dehydrator _____ Location Drip: _____ Line Drip: _____ Other: _____ Site Assessment Date: <u>12/19/97</u> Area: _____ Run: _____		
<b>SITE ASSESSMENT</b>	<b>NMOCD Zone:</b> (From NMOCD Maps)		
	<b>Land Type:</b>		
	<input checked="" type="checkbox"/> (1) Inside <input type="checkbox"/> (2) Outside	BLM <input checked="" type="checkbox"/> (1) State <input type="checkbox"/> (2) Fee <input type="checkbox"/> (3) Indian _____	
	<b>Depth to Groundwater</b>		
	<input checked="" type="checkbox"/> (1) Less Than 50 Feet (20 points) <input type="checkbox"/> (2) 50 Ft to 99 Ft (10 points) <input type="checkbox"/> (3) Greater Than 100 Ft (0 points)		
	<b>Wellhead Protection Area</b>		
	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? <div style="text-align: center;"> <input type="checkbox"/> (1) YES (20 points)      <input checked="" type="checkbox"/> (2) NO (0 points)         </div>		
	<b>Horizontal Distance to Surface Water Body</b>		
	<input type="checkbox"/> (1) Less Than 200 Ft (20 points) <input type="checkbox"/> (2) 200 Ft to 1000 Ft (10 points) <input checked="" type="checkbox"/> (3) Greater Than 1000 Ft (0 points)		
	Name of Surface Water Body _____ (Surface Water Body: Perennial Rivers, 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>20</u> POINTS			
<b>REMARKS</b>	Remarks : <u>Site has been re-assessed, due to initial assessment including washes as a Surface Water Body. 2 sites in Unit M. Both outside GWVZ.</u> <u>Depth to GW measured to the center of Carrizo Canyon</u>		

# FIELD PIT SITE ASSESSMENT FORM

GENERAL

Meter: 72141 Location: RUSSELL A No. 3  
 Operator #: 0203 Operator Name: AMOLD P/L District: BLANCO  
 Coordinates: Letter: M Section 23 Township: 28 Range: 8  
 Or Latitude \_\_\_\_\_ Longitude \_\_\_\_\_  
 Pit Type: Dehydrator ☒ Location Drip: \_\_\_\_\_ Line Drip: \_\_\_\_\_ Other: \_\_\_\_\_  
 Site Assessment Date: 5/20/94 Area: 13 Run: 62

SITE ASSESSMENT

## NMOCD Zone:

(From NMOCD  
Maps)

Inside

Outside

## 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 Carriazo 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)  
☐ (2) > 100'

TOTAL HAZARD RANKING SCORE: 40 POINTS

REMARKS

Remarks : Redline - Inside, Vuln - Outside  
3 pits. Close. Pit has small amount of fluid in it

PUSH-IN

# FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL

Meter: 72141 Location: RUSSELL A #3  
 Coordinates: Letter: m Section 23 Township: 28 Range: 8  
 Or Latitude \_\_\_\_\_ Longitude \_\_\_\_\_  
 Date Started : 7-29-94 Run: 13 62

FIELD OBSERVATIONS

Sample Number(s): mk 196  
 Sample Depth: 12' Feet  
mk 7-29-94  
 Final PID Reading 7 228 PID Reading Depth 12' Feet  
 Yes No  
 Groundwater Encountered ☐ ☒ Approximate Depth \_\_\_\_\_ Feet

CLOSURE

Remediation Method :  
 Excavation ☐ Approx. Cubic Yards \_\_\_\_\_  
 Onsite Bioremediation ☐  
 Backfill Pit Without Excavation ☒  
 Soil Disposition:  
 Envirotech ☐ ☐ Tierra  
 Other Facility ☐ Name: \_\_\_\_\_  
 Pit Closure Date: 7-29-94 Pit Closed By: BEI

REMARKS

Remarks : EPNG lines marked Soil Gray Strong Hydrocarbon  
odor Soil was very oil looking

Signature of Specialist: Morgan Killian



# FIELD SERVICES LABORATORY

## ANALYTICAL REPORT

### PIT CLOSURE PROJECT - Soil

#### SAMPLE IDENTIFICATION

SAMPLE NUMBER:

Field ID

Lab ID

MTR CODE | SITE NAME:

SAMPLE DATE | TIME (Hrs):

SAMPLED BY:

DATE OF TPH EXT. | ANAL.:

DATE OF BTEX EXT. | ANAL.:

TYPE | DESCRIPTION:

MK 196

945794

72141

N/A

7-29-94

1246

N/A

8/2/94

8/2/94

N/A

N/A

VG

Grey Sand/Clay

REMARKS:

#### RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE		MG/KG				
TOLUENE		MG/KG				
ETHYL BENZENE		MG/KG				
TOTAL XYLENES		MG/KG				
TOTAL BTEX		MG/KG				
TPH (418.1)	7000	MG/KG			0.86	28
HEADSPACE PID	228	PPM				
PERCENT SOLIDS	92.1	%				

- TPH is by EPA Method 418.1 and BTEX is by EPA Method 8200 -

The Surrogate Recovery was at  
N/A %

N/A

% for this sample All QA/QC was acceptable.

DF = Dilution Factor Used

Approved By:

J. J.

Date:

8/17/94





CHAIN OF CUSTODY RECORD

Page \_\_\_\_\_ of \_\_\_\_\_

PROJECT NUMBER		PROJECT NAME		PROJECT ANALYSIS		REQUESTED ANALYSIS		SAMPLE TYPE		TOTAL NUMBERS OF CONTAINERS		REMARKS			
LABID		DATE		TIME		MATRIX		SAMPLE NUMBER		TPH EPA 418.1 BTEX EPA 8020		REMARKS			
5793	7-25-94	11:22	Soil	mk 195	1	UG	X	175	Brown soil	Slight Hydrocarbon odor					
5794	7-27-94	12:46	Soil	mk 196	1	UG	X	176	Gray Soil	Strong Hydrocarbon odor					
5795	7-27-94	13:42	Soil	mk 197	1	UG	X	177	Brown Soil	Slight Hydrocarbon odor					
5796	7-27-94	14:40	Soil	mk 198	1	UG	X	178	Black Soil	Strong Hydrocarbon odor					
[Signature: Morgan Killian]															
RELINQUISHED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)		DATE/TIME		RELINQUISHED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)			
Morgan Killian		7-29-94 17:12		Brenda Liss		8/1/94 09:53		Brenda Liss		8/1/94 09:53		Kym Ky			
RELINQUISHED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)		DATE/TIME		RELINQUISHED BY: (Signature)		DATE/TIME		RECEIVED BY: (Signature)			
Morgan Killian		7-29-94 17:12		Brenda Liss		8/1/94 09:53		Brenda Liss		8/1/94 09:53		Kym Ky			
REQUESTED TURNAROUND TIME:				SAMPLE RECEIPT REMARKS				RESULTS & INVOICES TO:				FIELD SERVICES LABORATORY			
<input type="checkbox"/> ROUTINE <input type="checkbox"/> RUSH												EL PASO NATURAL GAS COMPANY			
CARRIER CO.												P.O. BOX 4990			
BILL NO.:												FARMINGTON, NEW MEXICO 87499			

505-599-2144

FAX: 505-599-2261

# RECORD OF SUBSURFACE EXPLORATION

PHILIP SERVICES CORP.

4000 Monroe Road  
Farmington, New Mexico 87401  
(505) 326-2262 FAX (505) 326-2388

Borehole # BH- 1  
Well # 129  
Page 1 of 2

Project Number 19643 Phase 1001.77  
Project Name EPFS PITS >10  
Project Location Russell A #3 72/41

Elevation

Borehole Location LTR: M S: 23 T: 28 R: 8

GWL Depth N/A

Drilled By K. PADILLA

Well Logged By C. CHANCE

Date Started 7/2/98

Date Completed 7/2/98

Drilling Method 4 1/4 ID HSA

Air Monitoring Method 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: PPM			Drilling Conditions & Blow Counts
							BZ	BH	S/HS	
0										BZ=Breathing Zone BH=Borehole S/HS=Sample/Headspace
5										
10				Excavation sample collected @ 12'						
15	1	15-17	12	DK gry silty SAND w/ sand, med dense, dry			0	97	$\frac{211}{395}$	-1331 hr
20	2	20-22	18	AA DK gry clayey SAND w/ sand, med dense, dry			1	22	$\frac{50}{384}$	-1338 hr
25	3	25-27	18	Gry silty SAND, w/ F sand, med dense, dry			0	6	$\frac{147}{378}$	-1348 hr
30	4	30-32	18	AA			3	9	$\frac{48}{395}$	-1401 hr
35	5	35-37	18	L+b, silty SAND, w/ F sand, tr coarse, med dense, dry			0	29	$\frac{21}{374}$	-1411 hr
40	6	40-42	18	AA DK br, sandy CLAY, w/ sand, soft, hi plastic, dry			0	81	$\frac{16}{2}$	-1425 hr

Comments:

CMC 403 (45-47') sent to lab for BTEX, TPH. No GW  
encountered. BH grouted to surface

Geologist Signature

Cory Chance

# RECORD OF SUBSURFACE EXPLORATION

PHILIP SERVICES CORP.

300 Monroe Road  
 Farmington, New Mexico 87401  
 (505) 326-2262 FAX (505) 326-2388

Borehole # BH- 1  
 Well # NA  
 Page 2 of 2

Project Number 19643 Phase 1001.77  
 Project Name EPFS PITS >10  
 Project Location Russell A#3 72141

Elevation \_\_\_\_\_  
 Borehole Location LTR: M S: 23 T: 28 R: 8  
 GWL Depth NA  
 Drilled By K. PADILLA  
 Well Logged By C. CHANCE  
 Date Started 7/2/98  
 Date Completed 7/2/98

Drilling Method 4 1/4 ID HSA  
 Air Monitoring Method 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: PPM			Drilling Conditions & Blow Counts
							BZ	BH	S/HS	
40										BZ=Breathing Zone BH=Borehole S/HS=Sample/Headspace
45	7	45-47	18	Br silty SAND F-med sand, to coars, med dense, dry			0	60	23 4	1440h <sub>m</sub>
50				TDB471						
55										
60										
65										
70										
75										
80										

Comments:

Geologist Signature





FIELD SERVICES LABORATORY  
ANALYTICAL REPORT  
PIT CLOSURE PROJECT

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	CMC403	980500
MTR CODE   SITE NAME:	72141	Russell A #3
SAMPLE DATE   TIME (Hrs):	7/2/98	1440
PROJECT:	Phase II Drilling	
DATE OF TPH EXT.   ANAL.:	7/15/98	7/15/98
DATE OF BTEX EXT.   ANAL.:	7/9/98	7/10/98
TYPE   DESCRIPTION:	VG	SOIL

Field Remarks: 45-47'

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	<0.5	MG/KG				
TOLUENE	<0.5	MG/KG				
ETHYL BENZENE	<0.5	MG/KG				
TOTAL XYLENES	<1.5	MG/KG				
TOTAL BTEX	<3	MG/KG				
TPH (MOD.8015)	<20	MG/KG				
HEADSPACE PID	4	PPM				
PERCENT SOLIDS	96.8	%				

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

The Surrogate Recovery was at 89.7 % for this sample All QA/QC was acceptable.  
Narrative:

DF = Dilution Factor Used

Approved By:

*John F. [Signature]*

Date:

7/22/98

GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8015 MODIFIED (DIRECT INJECT)  
 CLIENT : EL PASO FIELD SERVICES  
 PROJECT # : (none)  
 PROJECT NAME : PHASE II DRILLING

AEN I.D.: 807329

SAMPLE		MATRIX	DATE	DATE	DATE	DIL.
ID. #	CLIENT I.D.		SAMPLED	EXTRACTED	ANALYZED	FACTOR
01	980499	NON-AQ	7/2/98	7/15/98	7/15/98	1
02	980500	NON-AQ	7/2/98	7/15/98	7/15/98	1
PARAMETER		DET. LIMIT	UNITS	01	02	
FUEL HYDROCARBONS, C6-C10		10	MG/KG	< 10	< 10	
FUEL HYDROCARBONS, C10-C22		5.0	MG/KG	< 5.0	< 5.0	
FUEL HYDROCARBONS, C22-C36		5.0	MG/KG	< 5.0	< 5.0	
CALCULATED SUM:						

SURROGATE:  
 O-TERPHENYL (%) 108 97  
 SURROGATE LIMITS ( 66 - 151 )

CHEMIST NOTES:  
 N/A

**PROJECT MANAGER:** John Lambdin

COMPANY: El Paso Field Services Co.

ADDRESS: 770 W. NAVajo

FARMINGTON, NM 87401

PHONE: (505) 599-2144

FAX: (505) 599-2261

BILL TO: Above

COMPANY:

ADDRESS: \_\_\_\_\_

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**NOTICE TO THE PUBLIC**

QJ. NO.: (RUSH) ☐ 24hr ☐ 48hr ☐ 72hr

COJ. NAME: **Phase II Drilling** CERTIFICATION REQUIRED: ☐ NM

NO.: ☒ METHANOL PRESERVATION ☐

PPED VIA: Fed Ex	COMMENTS: FIXED \$\$\$ <input type="checkbox"/>
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**SAMPLE RECEIPT**

REVEREND

RECEIVED 129

8 AEN Inc.: American Environmental Network (NM) Inc. • 2709-D Ben American Ence

2/25/2017 American Red

SHADED AREAS ARE FOR LATENT USE ONLY

PLEASE FILL THIS FORM IN COMPLETELY.

1/5/98 AEN Inc.: American Environmental Network (NIM), Inc. • 2709-D Pan American Freeway, NE • Albuquerque, New Mexico 87107 • (505) 344-3777 • Fax (505) 344-4413

**DISTRIBUTION: White - AEN. Canada - Ordinal;**

# BTEX SOIL SAMPLE WORKSHEET

File	:	980499	Date Printed	:	7/16/98
Soil Mass (g)	:	5.12	Multiplier (L/g)	:	0.00098
Extraction vol. (mL)	:	10	CAL FACTOR (Analytical):	:	200
Shot Volume (uL)	:	50	CAL FACTOR (Report):	:	0.19531

		DILUTION FACTOR:	1	Det. Limit
Benzene (ug/L)	:	<0.5	Benzene (mg/Kg): #VALUE!	0.488
Toluene (ug/L)	:	<0.5	Toluene (mg/Kg): #VALUE!	0.488
Ethylbenzene (ug/L)	:	<0.5	Ethylbenzene (mg/Kg): #VALUE!	0.488
p & m-xylene (ug/L)	:	<1.0	p & m-xylene (mg/Kg): #VALUE!	0.977
o-xylene (ug/L)	:	<0.5	o-xylene (mg/Kg): #VALUE!	0.488
			Total xylenes (mg/Kg): #VALUE!	1.465
			Total BTEX (mg/Kg): #VALUE!	