District I
1623 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

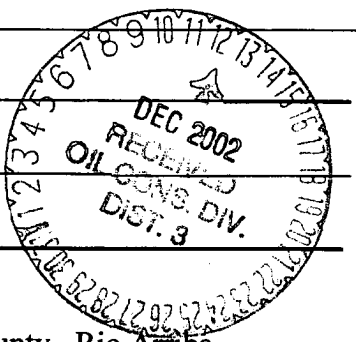
Risk defined extent of plume

Submit 1 copy to appropriate District Office and 1 copy to the Santa Fe Office

(Revised 3/9/94)

PIT REMEDIATION AND CLOSURE REPORT

30-039-22498



Operator: RB Operating Company Telephone: _____

Address: _____

Facility Or: No. 17-2 Federal, Meter 93622
Well Name

Location: Unit or Qtr/Qtr Sec G Sec 17 T 24 R 3 County Rio Arriba

Pit Type: Separator _____ Dehydrator _____ Other Drip

Land Type: BLM _____, State _____, Fee X Other _____

Pit Location: Pit dimensions: length 25', width 26', depth 3'
(Attach diagram)

Reference: wellhead X, other _____

Footage from reference: 111'

Direction from reference: 98 Degrees X East North _____ of _____ West South _____

Depth To Ground Water (Vertical distance from contaminants to seasonal high water elevation of ground water.)	Less than 50 feet	(20 points)
	50 feet to 99 feet	(10 points)
	Greater than 100 feet	(0 points) 20
Wellhead Protection Area: (Less than 200 feet from a private domestic water source, or; less than 1000 feet from all other water sources.)	Yes	(20 points)
	No	(0 points) 0
Distance To Surface Water: (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches.)	Less than 200 feet	(20 points)
	200 feet to 1000 feet	(10 points)
	Greater than 1000 feet	(0 points) 0

RANKING SCORE (TOTAL POINTS): 20

Date Remediation Started: 10/26/94 Date completed: 10/26/94

Remediation Method: Excavation _____ Approx. cubic yards _____

(Check all appropriate sections.) Landfarmed _____ Insitu Bioremediation _____

Other Backfill Pit without Excavation

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

General Description of Remedial Action: Some line markers. At 12' soil gray looking. Closed pit.

Ground Water Encountered: No X Yes _____ Depth _____

Final Pit: Closure Sampling: (if multiple samples, attach sample results and diagram of sample locations and depths)

Sample location Four walls and center of pit composite

Sample depth 12'

Sample Date 10/26/94 Sample time 10:30

Sample Results

Benzene(ppm) Not reported

Total BTEX(ppm) Not reported

Field headspace(ppm) 127

TPH 20500

Ground Water Sample: Yes _____ No X (If yes, attach sample results)

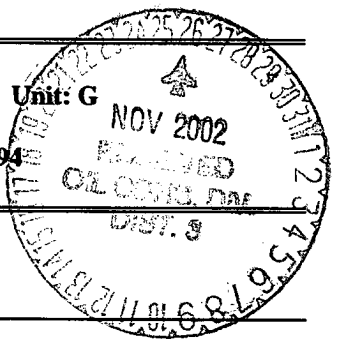
I hereby certify that the information above is true and complete to the best of my knowledge and belief.

Date 1/8/03 Signature Scott T. Pope Printed Name and Title Scott T. Pope Senior Env. Scientist

elpaso

PIT CLOSURE REQUEST

No. 17-2 Federal
Meter/Line ID 93622



SITE DETAILS

Legals - Twn: 24N	**Rng: 3W**	**Sec: 17**	**Unit: G**
NMOCD Hazard Ranking: 20		**Land Type: Fee**	
Operator: RB Operating Company		**Pit Closure Date: 10/26/94**	

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 127 ppm; laboratory analysis indicated a TPH concentration of 20,500 mg/kg. The field 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 refusal at 27 ft bgs. No groundwater was encountered in the soil boring. One laboratory sample was collected at 25-27 ft bgs. Headspace analysis indicated an organic vapor content of 2 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 concentrations were 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 27 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 25 ft bgs were non-detect, indicating that no significant downward constituent migration is occurring.

- Residual hydrocarbons in the soil will likely degrade by natural attenuation with minimal risk to 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

GENER

Meter: 93622 Location: No 17-2 Federal

Operator #: _____ Operator Name: _____ P/L District: _____

Coordinates: Letter: G Section 17 Township: 24 Range: 3

Or Latitude _____ Longitude _____

Pit Type: Dehydrator _____ Location Drip: _____ Line Drip: _____ Other: _____

Site Assessment Date: 4/14/98 Area: ____ Run: ____

SITE ASSESSM

NMOCD Zone: (From NMOCD Maps)

Land Type:

Inside	☐	(1)
Outside	☒	(2)

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 _____

(Surface Water Body: Perennial Rivers, 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

RKS

Remarks : Site has been re-assessed, due to initial assessment including washes as a Surface Water Body. Site is <50' vertical From center of Cañada Larga

(assess) 12/16/97

FIELD PIT SITE ASSESSMENT FORM

GENERAL

SK 10/28/94 - See notes on back

Meter: 93-622 Location: No. 17-2 Federal

Operator #: ~~0002~~ Operator Name: ~~Operating~~ RB P/L District: Ojito

Coordinates: Letter: G Section 17 Township: 24 Range: 3

Or Latitude _____ Longitude _____

Pit Type: Dehydrator ___ Location Drip: X Line Drip: ___ Other: _____

Site Assessment Date: 10/25/94 Area: 06 Run: 83

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 Cañada Larga

(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: 30 **POINTS**

REMARKS

Remarks : Redline Book: Inside, Vulnerable Zone Topo: Outside
Two pits, location drip pit has liquid in it. Will close one pit.

PUSH IN

El Paso Natural Gas Company

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

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KP 337	94645 9
MTR CODE | SITE NAME:	93622	N/A
SAMPLE DATE | TIME (Hrs):	10-26-94	1030
SAMPLED BY:	N/A	
DATE OF TPH EXT. | ANAL.:	10-28-94	10-28-94
DATE OF BTEX EXT. | ANAL.:	N/A	N/A
TYPE | DESCRIPTION:	VG	Dark brown sand & clay

REMARKS: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
TPH (418.1)	20,500	MG/KG			.75	28
HEADSPACE PID	127	PPM				
PERCENT SOLIDS	88.0	%				

-- TPH is by EPA Method 418.1 --

Narrative:

DF = Dilution Factor Used

Approved By: _____ Date: 11/3/94

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL

Meter: 10-26-94 / 93622 Location: No. 17-2 Federal

Coordinates: Letter: G Section 17 Township: 24 Range: 3

Or Latitude _____ Longitude _____

Date Started : 10-26-94 Area: 08 Run: 83

FIELD OBSERVATIONS

Sample Number(s): KF337 _____ _____ _____

Sample Depth: 12' Feet

Final PID Reading 127 PID Reading Depth 12' Feet

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

CLOSURE

Remediation Method :

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

Soil Disposition:

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

Pit Closure Date: 10-26-94 Pit Closed By: B.E.I

REMARKS

Remarks : Some Line markers At 12' soil gray Looking. Closed Pit

Signature of Specialist: Kelly Padilla

(SP3191) 04/07/94

El Paso Natural Gas Company

CHAIN OF CUSTODY RECORD

Page _____ of _____

PROJECT NUMBER	PROJECT NAME	TOTAL NUMBER OF CONTAINERS	SAMPLE TYPE	REQUESTED ANALYSIS						CONTRACT LABORATORY P. O. NUMBER
	Pit Closure Project # 24324									
SAMPLERS: (Signature) Kelly Padilla	DATE: 10/26/94									
LAB ID	DATE / TIME / MATRIX / SAMPLE NUMBER			TPH EPA 418.1	BTEX EPA 8020				SOA	REMARKS
94 6458	10-26-94 0930 soil KP 336	1	VG	X					304	
94 6459	10-26-94 1030 soil KP 337	1	VG	X					305	

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
Kelly Padilla	10-27-94 1600	Brenda Kiess	Brenda Kiess	10/28/94 1100	
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED OF LABORATORY BY: (Signature)

REQUESTED TURNAROUND TIME:
☐ ROUTINE ☐ RUSH _____

CARRIER CO.

BILL NO.:

SAMPLE RECEIPT REMARKS

CHARGE CODE

RESULTS & INVOICES TO:

FIELD SERVICES LABORATORY
EL PASO NATURAL GAS COMPANY
P. O. BOX 4990
FARMINGTON, NEW MEXICO 87499

505-599-2144 FAX: 505-599-2261

White - *Testing Laboratory* Canary - *EPNG Lab* Pink - *Field Sampler*

FM-08-0565A (Rev. 03-94)

Phase II Drilling

CHAIN OF CUSTODY RECORD

8-20-98 Addl.
8-20-98 Chlorides

Page _____ of _____

PROJECT NUMBER	PROJECT NAME
# 24324	Pit Closure Project

SAMPLERS: (Signature) Cory Chavez DATE: 7/14/98

CONTRACT LABORATORY P. O. NUMBER

LAB ID	DATE	TIME	MATRIX	FIELD ID	TOTAL NUMBER OF CONTAINERS	SAMPLE TYPE	REQUESTED ANALYSIS: TPH EPA 418.1	BTEX EPA 8020	LAB PID	TPH 8020 Field PID	SEQUENCE #	REMARKS
	7/14/98	1255	Soil	CMC404	1	VG		✓		✓	2	Lindrith Unit #41 73049 45-45.5'
98053	↓	1527	↓	CMC405	1	VG		✓		✓	2	No 17-2 Federal 93622 25-27

CMC 7/14/98

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
Cory Chavez	7/14/98 1730	Cory Chavez	Cory Chavez	7/16/98 0722 ~~7/15/98 0900~~ CMC 7/16/98	
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED OF LABORATORY BY: (Signature)
				7-16-98 0727	Dennis Bird

REQUESTED TURNAROUND TIME:
☐ ROUTINE ☐ RUSH _____

CARRIER CO.

BILL NO.:

SAMPLE RECEIPT REMARKS: COOL & INTACT 40°F

CHARGE CODE

RESULTS & INVOICES TO:

FIELD SERVICES LABORATORY
EL PASO NATURAL GAS COMPANY
P. O. BOX 4990
FARMINGTON, NEW MEXICO 87499
505-599-2144 FAX: 505-599-2261

White - *Testing Laboratory* Canary - *EPNG Lab* Pink - *Field Sampler*

FM-08-0565 A (Rev. 05-94)

EL PASO FIELD SERVICES

FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	CMC405	980531
MTR CODE | SITE NAME:	93622	No. 17-2 Federal
SAMPLE DATE | TIME (Hrs):	7/14/98	1527
PROJECT:	Phase II Drilling	
DATE OF TPH EXT. | ANAL.:	7/24/98	7/24/98
DATE OF BTEX EXT. | ANAL.:	7/22/98	7/27/98
TYPE | DESCRIPTION:	VG	SOIL

Field Remarks: 25-27

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	2	PPM				
PERCENT SOLIDS	91.0	%				

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

The Surrogate Recovery was at 90.8 % for this sample All QA/QC was acceptable.

Narrative:

DF = Dilution Factor Used

Approved By: John Saunders Date: 8/11/98

RECORD OF SUBSURFACE EXPLORATION

PHILIP SERVICES CORP.
[redacted]000 Monroe Road
[redacted]ington, New Mexico 87401
[redacted]) 326-2262 FAX (505) 326-2388

Borehole # BH- 1
Well # N/A
Page 1 of 1

Project Number 19643 Phase 1001.77
Project Name EPFS PITS >10
Project Location No 17-2 Federal

Elevation
Borehole Location LTR: G S: 17 T: 24 R: 3
GWL Depth NA
Drilled By K. PADILLA
Well Logged By C. CHANCE
Date Started 7/14/98
Date Completed 7/14/98

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 BZ	BH	S/HS	Drilling Conditions & Blow Counts
0										BZ=Breathing Zone BH=Borehole S/HS=Sample/Headspace
5										
10				Excavation sample Collected @ 12'						
15	1	15-17	12	DK Gry sandy CLAY, tr f sand, soft, high plastic, dry			4	97	584/2180	-1506 hr
20	2	20-22	12	DK Br silty CLAY, soft, high plastic, dry, tr Fe staining			5	82	5/2	-1515 hr
25	3	25-27	12	DK Br sandy CLAY, tr f sand, med stiff, hi plastic, dry			0	22	4/2	-1527 hr
30				TD 27'						
35										
40										

Comments: CMC 405(25-27') sent to lab for BTEX, TPH. No GW encountered BH grouted to surface.

Geologist Signature Cory Chance

American Environmental Network, Inc.

GAS CHROMOTOGRAPHY RESULTS

TEST : EPA 8015 MODIFIED (DIRECT INJECT)
CLIENT : EL PASO FIELD SERVICES AEN I.D.: 807368
PROJECT # : (none)
PROJECT NAME : PHASE II DRILLING

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	980530	NON-AQ	7/14/98	7/24/98	7/24/98	1
02	980531	NON-AQ	7/14/98	7/24/98	7/24/98	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:				
TERPHENYL (%)			98	88
SURROGATE LIMITS	(66 - 151)			

CHEMIST NOTES:
N/A

American Environmental Network (NM), Inc.

CHAIN OF CUSTODY

DATE: 7/22/98 PAGE: 1 OF 1

AEN (NM) Accession #: 80530

SHADED AREAS ARE FOR LAB USE ONLY

PLEASE FILL THIS FORM IN COMPLETELY.

PROJECT MANAGER: John Lambdin

COMPANY: El Paso Field Services
ADDRESS: 770 W. Navajo
Farmington, NM 87401
PHONE: (505) - 599-3144
FAX: (505) - 599 2261

BILL TO: Above
COMPANY:
ADDRESS:

SAMPLE ID	DATE	TIME	MATRIX	LAB ID
980530	7/14/98	1255	Soil	01
980531	7/14/98	1527	Soil	02

ANALYSIS REQUEST

Petroleum Hydrocarbons (418.1) TRPH	(MOD.8015) Diesel/Direct Inject	(M8015) Gas/Purge & Trap	8021 (BTEX)/8015 (Gasoline)	8021 (BTEX) ☐ MTBE ☐ TMB ☐ PCE	8021 (TCL)	8021 (EDX)	8021 (HALO)	8021 (CUST)	504.1 EDB ☐ / DBCP ☐	8260 (TCL) Volatile Organics	8260 (Full) Volatile Organics	8260 (CUST) Volatile Organics	8260 (Landfill) Volatile Organics	Pesticides /PCB (608/8081)	Herbicides (615/8151)	Base/Neutral/Acid Compounds GC/MS (625/8270)	Polynuclear Aromatics (610/8310)	General Chemistry:			Priority Pollutant Metals (13)	Target Analyte List Metals (23)	RCRA Metals (8)	RCRA Metals by TCLP (Method 1311)	Metals:		NUMBER OF CONTAINERS
	X																									1
	X																									1

PROJECT INFORMATION

PROJ. NO.:
PROJ. NAME: Phase II Drilling
P.O. NO.:
SHIPPED VIA: Fed Ex

SAMPLE RECEIPT

NO. CONTAINERS	2
CUSTODY SEALS	Y/N (NA)
RECEIVED INTACT	Yes
BLUE ICE/ICE	13°C Sample Blue Ice ~ 8°C ; 4°C

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH REQUESTS

(RUSH) ☐ 24hr ☐ 48hr ☐ 72hr ☐ 1 WEEK (NORMAL) ☒

CERTIFICATION REQUIRED: ☐ NM ☐ SDWA ☐ OTHER

METHANOL PRESERVATION ☐

COMMENTS: FIXED FEE ☐

RELINQUISHED BY: 1	RELINQUISHED BY: 2
Signature: Time: Marlan Hopper 1250	Signature: Time:
Printed Name: Date: Marlan Hopper 7/22/98	Printed Name: Date:
Company:	Company:

RECEIVED BY: 1	RECEIVED BY: (LAB) 2
Signature: Time:	Signature: Time: Ramona Shue 1020
Printed Name: Date:	Printed Name: Date: Ramona Shue 7/23/98
Company:	Company: American Environmental Network (NM) Inc.

BTEX SOIL SAMPLE WORKSHEET

File	980531	**Date Printed**	7/29/98
Soil Mass (g)	5.02	**Multiplier (L/g)**	0.00100
Extraction vol. (mL)	10	**CAL FACTOR (Analytical):**	200
Shot Volume (uL)	50	**CAL FACTOR (Report):**	0.19920

		DILUTION FACTOR:	**1**	**Det. Limit**
Benzene (ug/L)	<0.5	**Benzene (mg/Kg):**	**#VALUE!**	0.498
Toluene (ug/L)	<0.5	**Toluene (mg/Kg):**	**#VALUE!**	0.498
Ethylbenzene (ug/L)	<0.5	**Ethylbenzene (mg/Kg):**	**#VALUE!**	0.498
p & m-xylene (ug/L)	<1.0	p & m-xylene (mg/Kg):	#VALUE!	0.996
o-xylene (ug/L)	<0.5	o-xylene (mg/Kg):	#VALUE!	0.498
		Total xylenes (mg/Kg):	**#VALUE!**	1.494
		Total BTEX (mg/Kg):	**#VALUE!**	