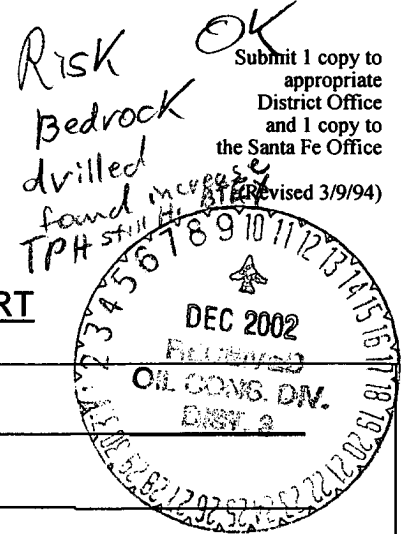


District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505



PIT REMEDIATION AND CLOSURE REPORT

Operator: Meridian Telephone: _____

Address: 30-045-21640

Facility Or: Johnston Federal #2A, Meter 89221

Well Name _____

Location: Unit or Qtr/Qtr Sec C Sec 33 T 31 R 9 County San Juan

Pit Type: Separator _____ Dehydrator _____ Other Drip

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

Pit Location: Pit dimensions: length 28', width 27', depth 5'

(Attach diagram)

Reference: wellhead X, other _____

Footage from reference: 81'

Direction from reference: 332 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) <u>0</u>
	Greater than 100 feet	(0 points) <u>10</u>

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) <u>0</u>

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) <u>0</u>

RANKING SCORE (TOTAL POINTS): 100

Date Remediation Started: 10/03/94 Date completed: 10/03/94

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: No line markers. Dug a test hole to 10', hit sandstone. Closed pit.

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 10'

Sample Date 10/03/94 Sample time 10:48

Sample Results

Benzene(ppm) Not reported

Total BTEX(ppm) Not reported

Field headspace(ppm) 410

TPH 3220

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

11/8/03

Signature

Scott T. P...

Printed Name

Scott T. P...

and Title

Senior Env. Scientist

**Johnson Federal #2A
Meter/Line ID 89221**

SITE DETAILS

**Legals - Twn: 31N
NMOCD Hazard Ranking: 10
Operator: Meridian**

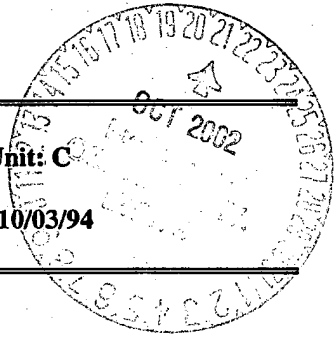
Rng: 9W

Sec: 33

Unit: C

Land Type: BLM

Pit Closure Date: 10/03/94



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 10 feet below ground surface (bgs) where sandstone was encountered, and 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 410 ppm; laboratory analysis indicated a TPH concentration of 3,220 mg/kg. Field headspace and the TPH measurement exceeded recommended remediation levels for the Hazard Ranking Score of 10.

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 with refusal at 18 ft bgs. No groundwater was encountered in the soil boring. One laboratory sample was collected at 17-18 ft bgs. Headspace analysis indicated an organic vapor content of 1,104 ppm; laboratory analysis indicated a benzene concentration of <2.5 mg/kg, a total BTEX concentration of 311 mg/kg, and a TPH concentration of 5,400 mg/kg. BTEX and TPH concentrations exceeded recommended remediation levels for the Hazard Ranking Score of 10.

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 seven years.
- The pit was excavated to the practical extent of the equipment, according to EPNG's pit closure plan.
- 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 18-foot soil boring; local geologic features indicate the depth to groundwater is at least 50 feet bgs.



PIT CLOSURE

- There are no water supply wells or other sources of fresh water extraction within 1,000 feet of the site.
- Sandstone at 10 ft bgs makes deeper excavation at this site impractical.

ATTACHMENTS

Field Pit Assessment Form

Field Pit Remediation/Closure Form

Revised Field Pit Assessment Form

Laboratory Analytical Results

Phase 2 Soil Boring Log

FIELD PIT SITE ASSESSMENT FORM

GENERAL

Meter: 89-22 Location: Johnston Federal #2A
 Operator #: 0128 Operator Name: Meridian P/L District: Aztec
 Coordinates: Letter: C Section 33 Township: 31 Range: 9
 Or Latitude _____ Longitude _____
 Pit Type: Dehydrator _____ Location Drip: X Line Drip: _____ Other: _____
 Site Assessment Date: 8/30/94 Area: 04 Run: 41

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 Little Pump 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: 30 POINTS

REMARKS

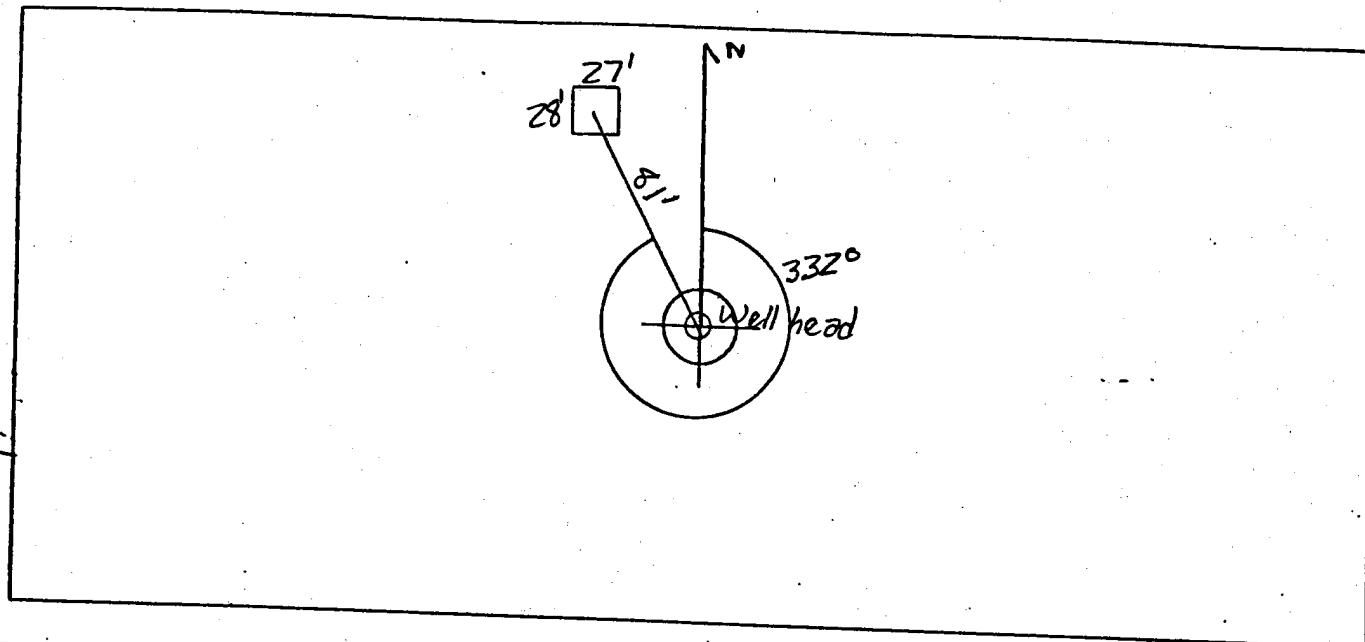
Remarks : Redline Book - Inside Vulnerable Zone Type - Outside
Three pits, location drip pit is dry, will close one pit.

PUSH IN

ORIGINAL PIT LOCATION

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 332° Footage from Wellhead 81'
b) Length : 28' Width : 27' Depth : 5'



REMARKS

Remarks :

Pictures @ 1226 (20-24, Roll 2)
End Dump

Completed By:

Sarah Kelly
Signature

8/30/94
Date

REVISED
FIELD PIT SITE ASSESSMENT FORM

GENERAL	Meter: <u>89221</u> Location: <u>Johnston Federal #2A</u> Operator #: _____ Operator Name: _____ P/L District: _____ Coordinates: Letter: <u>C</u> Section <u>33</u> Township: <u>21</u> Range: <u>9</u> Or Latitude _____ Longitude _____ Pit Type: Dehydrator _____ Location Drip: _____ Line Drip: _____ Other: _____ Site Assessment Date: <u>4/14/98</u> Area: _____ Run: _____
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 _____ (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: <u>10</u> POINTS
REMARKS	Remarks : <u>Site has been re-assessed, due to initial assessment including washes as a Surface Water Body. Site is <100' vertical from center of Little Pump Canyon.</u>



FIELD SERVICES LABORATORY
ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Outside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	HP 277	946299
MTR CODE SITE NAME:	89221	N/A
SAMPLE DATE TIME (Hrs):	10-3-94	1048
SAMPLED BY:	N/A	
DATE OF TPH EXT. ANAL.:	10-6-94	
DATE OF BTEX EXT. ANAL.:	N/A	N/A
TYPE DESCRIPTION:	VC	Brown sand & clay

REMARKS:

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
TPH (418.1)	3220	MG/KG			2.18	2B
HEADSPACE PID	410	PPM				
PERCENT SOLIDS	89.0	%				

-- TPH is by EPA Method 418.1 --

Narrative:

DF = Dilution Factor Used

Approved By:

Date:

10/13/94

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL

Meter: 89221 Location: Johnston Federal #2A
 Coordinates: Letter: C Section 33 Township: 31 Range: 9
 Or Latitude _____ Longitude _____
 Date Started : 10-3-94 Run: 04 41

FIELD OBSERVATIONS

Sample Number(s): 8 277
 Sample Depth: 10' Feet
 Final PID Reading 410 PID Reading Depth 10' 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: 10-3-94 Pit Closed By: B.E.I.

REMARKS

Remarks : NO Line markers dug A test hole to 10' Hit
SAND Stone.
closed pit

Signature of Specialist: Kelly Padella



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RECORD OF SUBSURFACE EXPLORATION

PHILIP SERVICES CORP.

Corro Road
 Albuquerque, New Mexico 87401
 (505) 326-2282 FAX (505) 326-2388

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

Project Number 19643 Phase 1001.77
 Project Name EPFS PITS >10
 Project Location JOHNSTON FEDERAL #2A 89221

Elevation _____
 Borehole Location LTR: C S: 33 T: 31 R: 9
 GWL Depth N/A
 Drilled By K. PADILLA
 Well Logged By H. BRADBURY
 Date Started 11/30/98
 Date Completed 11/30/98

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 AT 10'						
15	1	15-16	8	LT BR SAND, FINE SAND LOOSE, dry			0	280	1001 894	1113 hrs <i>HARD</i> Drilling
17	2	17-18								
20	2			TOB 18'					1529 1104	1123 hrs
25										
30										
35										
40										

Comments:

HAB81 (17-18) SENT TO LAB FOR TPH, BTEX GW NOT
ENCOUNTERED BHT GROUTED TO SURFACE
AUGER REFUSAL AT 17'

Geologist Signature

Holly Bradbury



FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	HAB81	980847
MTR CODE SITE NAME:	89221	Johnston Federal #2A
SAMPLE DATE TIME (Hrs):	11/30/98	1123
PROJECT:	Phase II Drilling	
DATE OF TPH EXT. ANAL.:	12/8/98	12/9/98
DATE OF BTEX EXT. ANAL.:	12/7/98	12/8/98
TYPE DESCRIPTION:	VG	SOIL

Field Remarks: 17-18'

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	<2.5	MG/KG	5			
TOLUENE	74.2	MG/KG	5			
ETHYL BENZENE	18.8	MG/KG	5			
TOTAL XYLENES	218	MG/KG	5			
TOTAL BTEX	311	MG/KG				
TPH (MOD.8015)	5,400	MG/KG	20			
HEADSPACE PID	1104	PPM				
PERCENT SOLIDS	90.0	%				

-- TPH is by EPA Method 8015 and BTEX is by EPA Method 8020 --

The Surrogate Recovery was at 95.5 % for this sample All QA/QC was acceptable.
ervative:

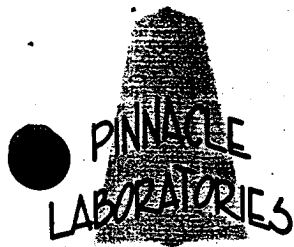
DF = Dilution Factor Used

Approved By:

John F. L...

Date:

12/21/98



2709-D Pan American Freeway NE
Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

GAS CHROMATOGRAPHY RESULTS

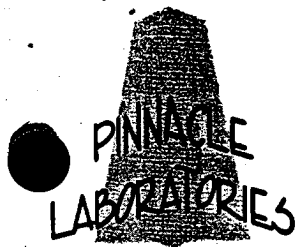
TEST : EPA 8015 MODIFIED (DIRECT INJECT)
CLIENT : EL PASO FIELD SERVICES
PROJECT # : (none)
PROJECT NAME : PHASE II DRILLING

PINNACLE I.D.: 812031

SAMPLE		DATE		DATE	DATE	DIL.
ID. #	CLIENT I.D.	MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
01	980847	NON-AQ	11/30/98	12/8/98	12/9/98	20
PARAMETER		DET. LIMIT	UNITS	980847		
FUEL HYDROCARBONS, C6-C10		10	MG/KG	5400		
FUEL HYDROCARBONS, C10-C22		5.0	MG/KG	< 100		
FUEL HYDROCARBONS, C22-C36		5.0	MG/KG	< 100		
CALCULATED SUM:				5400		

SURROGATE:
TERPHENYL (%)
SURROGATE LIMITS (66 - 151)
146

CHEMIST NOTES:
N/A



2709-D Pan American Freeway NE
Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

GAS CHROMATOGRAPHY RESULTS
REAGENT BLANK

TEST	: EPA 8015 MODIFIED (DIRECT INJECT)	PINNACLE I.D.	: 812031
BLANK I.D.	: 120898	DATE EXTRACTED	: 12/8/98
CLIENT	: EL PASO FIELD SERVICES	DATE ANALYZED	: 12/9/98
PROJECT #	: (none)	SAMPLE MATRIX	: NON-AQ
PROJECT NAME	: PHASE II DRILLING		

PARAMETER	UNITS	
FUEL HYDROCARBONS, C6-C10	MG/KG	< 10
FUEL HYDROCARBONS, C10-C22	MG/KG	< 5.0
FUEL HYDROCARBONS, C22-C36	MG/KG	< 5.0

SURROGATE:

TERPHENYL (%)	98
SURROGATE LIMITS (80 - 151)	

CHEMIST NOTES:

N/A

PLEASE FILL THIS FORM IN COMPLETELY.

SHADED AREAS ARE FOR LAB USE ONLY

PROJECT MANAGER: John Lambdin

COMPANY: E1 Paso Field Services

ADDRESS: 770 W. Navajo

Farmington, NM 87401

PHONE: (505) 599-2144

FAX: (505) 599-2261

BILL TO: Above

COMPANY:

ADDRESS:

SAMPLE ID: 980847 DATE/TIME: 11/30/98 1123 Soil

DATE/TIME: 11/30/98 1123 Soil

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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

PROJECT INFORMATION

PROJ NO:

PROJ NAME: Phase II Drilling

P.O. NO:

SHIPPED VIA: Fed Ex

SAMPLE RECEIPT

NO. CONTAINERS

CUSTODY SEALS: Y/N/NA

RECEIVED INTACT: Yes

BLUE/WHITE: 3C

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

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

CERTIFICATION REQUIRED: ☐ NM ☐ SDWA ☐ OTHER

METHANOL PRESERVATION ☐

COMMENTS: FIXED FEE ☐

RELINQUISHED BY: Signature: Time: 1500

Printed Name: Maria Hopper Date: 12/7/98

Company: EPS

RECEIVED BY: Signature: Time: 1025

Printed Name: Date: 12/8/98

Company: American Environmental Network (AEN), Inc.

RECEIVED BY: Signature: Time: 1025

Printed Name: Date: 12/8/98

Company: American Environmental Network (AEN), Inc.

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

DISTRIBUTION: White - AEN, Canary - Original

BTEX SOIL SAMPLE WORKSHEET

File	:	980847	Date Printed	:	12/10/98
Soil Mass (g)	:	5.03	Multiplier (L/g)	:	0.00099
Extraction vol. (mL)	:	10	CAL FACTOR (Analytical)	:	1000
Shot Volume (uL)	:	10	CAL FACTOR (Report)	:	0.99404

		DILUTION FACTOR:	5	Det. Limit	
Benzene (ug/L)	:	<2.5	Benzene (mg/Kg):	#VALUE!	2.485
Toluene (ug/L)	:	74.60	Toluene (mg/Kg):	74.158	2.485
Ethylbenzene (ug/L)	:	18.89	Ethylbenzene (mg/Kg):	18.778	2.485
p & m-xylene (ug/L)	:	175.19	p & m-xylene (mg/Kg):	174.141	4.970
o-xylene (ug/L)	:	43.64	o-xylene (mg/Kg):	43.377	2.485
			Total xylenes (mg/Kg):	217.518	7.455
			Total BTEX (mg/Kg):	527.972	

CHAIN OF CUSTODY RECORD

12-29-58 Anal.
12-29-58 Chem.
12-29-58 Specr.

[illegible]