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 pedrock definal 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: <u>Dugan Production Company</u>	Telephone A'\	1011/2/37
Address: 30-C	39-20189	DEC 202
Facility Or: Nordhaus #3, Meter 87045 Well Name		ONS. DIV.
Location: Unit or Qtr/Qtr Sec_C_ Sec_	<u>17</u> T <u>25</u> R <u>7</u> County Rice	Arriba
Pit Type: Separator Dehydrator_	Other <u>Drip</u>	
Land Type: BLM X, State	, Fee Other	
Pit Location: Pit dimensions: length 24' (Attach diagram)		
	other	
	79'	
Direction from reference:	180 Degrees X East North of	
		South
Depth To Ground Water		
<del>*</del>	Less than 50 feet	(20 points)
(Vertical distance from contaminants to seasonal	Less than 50 feet 50 feet to 99 feet Greater than 100 feet	(20 points) (10 points) ( 0 points) <u>20</u>
(Vertical distance from	50 feet to 99 feet	(10 points)
(Vertical distance from contaminants to seasonal high water elevation of ground water.)  Wellhead Protection Area: (Less than 200 feet from a private domestic water source, or; less than	50 feet to 99 feet Greater than 100 feet	(10 points)
(Vertical distance from contaminants to seasonal high water elevation of ground water.)  Wellhead Protection Area: (Less than 200 feet from a private domestic water source, or; less than 1000 feet from all other water sources.)	50 feet to 99 feet Greater than 100 feet	(10 points) ( 0 points) <u>20</u> Yes (20 points) No ( 0 points) <u>0</u>
(Vertical distance from contaminants to seasonal high water elevation of ground water.)  Wellhead Protection Area: (Less than 200 feet from a private domestic water source, or; less than	50 feet to 99 feet Greater than 100 feet	(10 points) ( 0 points)
(Vertical distance from contaminants to seasonal high water elevation of ground water.)  Wellhead Protection Area: (Less than 200 feet from a private domestic water source, or; less than 1000 feet from all other water sources.)  Distance To Surface Water:	50 feet to 99 feet Greater than 100 feet  Less than 200 feet	(10 points) ( 0 points) <u>20</u> Yes (20 points) No ( 0 points) <u>0</u>

	Date Remediation Starte	d: 09/22/94 Date completed: 09/22/94
	Remediation Method:	Excavation Approx. cubic yards
	(Check all appropriate sections.)	Landfarmed Insitu Bioremediation
		Other Backfill pit without excavation
	· 	
ì	Domadiation Locations	Ongito N/A Office N/A
	(i.e. landfarmed onsite, name and location of	Onsite N/A Offsite N/A
	offsite facility)	
	General Description of I	Remedial Action: 5' rock. 10 yds fill
	Ground Water Encounte	red: 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	Sample depth5'
	locations and depths)	Sample Date
		Sample Results
		Benzene(ppm) Not reported
		Total BTEX(ppm) Not reported
Ì		Field headspace(ppm) 240
		TPH _ 588
	Ground Water Sample:	Yes No X (If yes, attach sample results)
	I hereby certify that the is	nformation above is true and complete to the best of my knowledge and belief.
	Date 1/8/03)	
	Signature	Printed Name Scott T. Pope and Title Sonion Env. Scientist
<b>-</b>	- Jane	- 1 - JENIOR BAN, DUNTIST



## Nordhaus #3 Meter/Line ID 87045

#### SITE DETAILS

Legals - Twn: 25N NMOCD Hazard Ranking: 20 Rng: 7W

: 7W

Sec: 17 Land Type: BLM

**Operator: Dugan Production Corp** 

Pit Closure Date: 9/22/94



#### 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 5 feet (ft) below ground surface (bgs) where bedrock 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 240 ppm; laboratory analysis indicated a TPH concentration of 588 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 as well as 10 cubic yards of imported clean fill, and graded in a manner to direct surface runoff away from the pit area.

A Phase II boring was completed to refusal at 16 ft bgs. No groundwater was encountered in the soil boring. One laboratory sample was collected at 15-16 ft bgs. Headspace analysis indicated an organic vapor content of 5 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.
- Bedrock refusal was encountered at 5 feet bgs in the test pit and 16 feet bgs
- 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 in combination with the imported clean fill 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 16 ft bgs
- There are no water supply wells or other sources of fresh water extraction within 1,000 feet of the site.



#### PIT CLOSURE REQUEST

- Benzene, total BTEX, and TPH concentrations in the soil sample collected at the base of the Phase II
  soil boring at 15 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 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

	) A/ 11	ميل ع	
	Meter: 87045 Location: Nordhau		District.
GENER	Operator #: Operator Name		
	Coordinates: Letter: Section 1		Range: _/_
ß	Or Latitude Lor		
	Pit Type: Dehydrator Location I Site Assessment Date: \\ \frac{1498}{98}		
	Site Assessment Date: 1/17/10	Alea: Ri	ın:
	NMOCD Zone:	Land Type:	BLM 🔀 (1)
	(From NMOCD		State $\square$ (2)
	Maps) Inside	<b>(1)</b>	Fee $\square$ (3)
	Outside	<b>(2)</b>	Indian
	Depth to Groundwater	•	
	Less Than 50 Feet (20 points)	$\sum$ (1)	
·	50 Ft to 99 Ft (10 points)	<b>(2)</b>	
	Greater Than 100 Ft (0 points)	<b>(3)</b>	
	Wellhead Protection Area		
ASSESSME	Is it less than 1000 ft from wells, springs extraction?, or; Is it less than 200 ft from		
SES	☐ (1) Y	ES (20 points)	(2) NO (0 points)
4S.	Horizontal Distance to Surface Water	Body	
Ē	Less Than 200 Ft (20 points)	<b>(1)</b>	•
SITE	200 Ft to 1000 Ft (10 points)	(2)	
	Greater Than 1000 Ft (0 points)	<b>X</b> (3)	
	Name of Surface Water Body		
	(Surface Water Body: Perennial Rivers, St Ditches, Lakes, Ponds)	reams, Creeks, Irrigat	ion Canals,
1	Distance to Nearest Ephemeral Stream		00' (Navajo Pits Only)
			00'
	TOTAL HAZARD RANKING SCORE:	20	POINTS
RKS	Remarks: Site has been re-assessed,	due to initial assessm	ent including washes
HE H	•	s < 50' Vert	
	Center of Palluche Cany	en	
R.			

# FIELD PIT SITE ASSESSMENT FORM

	GENERAL	Meter: 87-045 Location: Norhaus 3  Operator #: 1862 Operator Name: Dugan P/L District: Ballard
ı	EF	Coordinates: Letter: C Santia 17 - C Santia
ı	包	Coordinates: Letter: C Section 17 Township: 25 Range: 7
	O	Or Latitude Longitude Pit Type: Dehydrator Location Drip: X Line Drip: Other:
l		Site Assessment Date: 06/30/94 Area: 07 Run: 41
ŀ		7 7 7 Run: 91
		NMOCD Zone:  (From NMOCD   Land Type: BLM   (1)
I		(FIOIII NMOCD)
ł		Maps) Inside (1) Fee (3)
ł	•	Outside (2) Indian
	, ,	Depth to Groundwater
		Less Than 50 Feet (20 points) 🔀 (1)
		50 Ft to 99 Ft (10 points) (2)
7		Greater Than 100 Ft (0 points) (3)
	L	Wellhead Protection Area:
İ	EN	Is it less than 1000 ft from wells springs or attack
l	SM	
l	ES	domestic water source? (1) YES (20 points) (2) NO (0 points)
	ASSESSMENT	Horizontal Distance to Surface Water Body
	1	Less Than 200 Ft (20 points) (1)
l	SITE	200 Ft to 1000 Ft (10 points) [7] (2)
l	S	Greater Than 1000 Ft (0 points) (3)
1		Name of Surface Water Body Palluche Canyon
l		(Surface Water Body : Perennial Rivers, Major Wash, Streams, Creeks,
ļ	- ]	
l		Distance to Nearest Ephemeral Stream (1) < 100'(Navajo Pits Only)
		$\square (2) > 100' $
	į	TOTAL HAZARD PANKING GOODS //A
	S	1 011(15)
	REMARKS	Remarks: Realine Book-Inside Vulocable Zone Topo- Outside One pit, pit is dry, will close one pit
	ZW.	riper is aly, will close one pit
L	R	
		Push In



# FIELD SERVICES LABORATORY ANALYTICAL REPORT

# PIT CLOSURE PROJECT - Soil Samples Outside the GWV Zone

# SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	vw 324	944197
MTR CODE   SITE NAME:	87045	N/A
SAMPLE DATE   TIME (Hrs):	9-22-94	/D S D
SAMPLED BY:		N/A
DATE OF TPH EXT.   ANAL.:	9-27-94	
DATE OF BTEX EXT.   ANAL.:	NA	Al Ca
TYPE   DESCRIPTION:	<b>7</b> G	Brown Sand & Clack
		Ų
REMARKS:		
	RESULTS	

PARAMETER	RESULT	UNITS		QUALIFIE	RS	
			DF	Q di	M(g)	V(ml)
TPH (418.1)	588	MG/KG			1.95	28
HEADSPACE PID	240	PPM				

PERCENT SOLIDS

-- TPH is by EPA Method 418.1 --

Varrative:	·				
					<del></del>
		·	<u></u>	 	
DF = Dilution Factor Used					

88.6

Appred By:		Date:	10/6/44	
ed by.		 	7	

# FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: \$7045 Location: Norhaus # 3  Coordinates: Letter: C Section 17 Township: 25 Range: 7  Or Latitude Longitude  Date Started: \$724 94 Run: 07 41
FIELD OBSERVATIONS	Sample Number(s): \( \begin{align*}
CLOSURE	Remediation Method:  Excavation
REMARKS	Remarks: 5' Rock 10 y 85 Fill
	Signature of Specialist: Vale Wilses (SP3181) 03/16/84

PHOJECT NUMBER PHOJECT NAME PHOJECT NUMBER	PROJECT NAME PIT Closure Project # 24324		SHE		REGI	REQUESTED ANALYSIS	SIS		
SAMPLERS: (Signium)	DATE:		BMUN TAINI 	3d.				<u> </u> 	
O Whoen	4-22-44		CON					_ <u>_</u> ≠′	
DATE TIME MATRIX	SAMPLE NUMBER		-0E	T Aq3	E6₹			105	REMARKS
1.05 (59) 12.5.4 (50)	UWZZZ		1 1/6	X			2	288	
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1.95 477 5.11 15 Soil	1 .			$\times$				241	
1.05 CM 11.4C5.9	k)			* \ <u>`</u>			, 4	252	
A 50 9.27-84 12.30 So. [	Ī		) (	/ς ×			, ,	213	
9.72.94 1415 SO-1			1/16	$\times$			- (4	294	
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HED BY: (Signature)	DATE/TIME A PECEVI	RECEIVED BY: (Signature)	(E)	6	RELING	RELINOVIBYED BY: (Son	- Total Control Contro		DATE/TIME 2 3 RECEIVED BY: (Signature)
Man	1 05CI 445CF	erch	2	\$     	4		W.		9-22 4/ 0906
ED BY: (Signature)	}	RECEIVED BY: ( <i>Signatura</i> )	(nre)		AELINOL	AELINOUISHED BY: (Signature)	ı(ure)		DATE/TIME RECEIVED OF LABORATØRY BY: (Signatura)
									1 1 mm h
REQUESTED TURNAROUND TIME:	SAMPLE RE	32.	. A	9		الم الم	RESULT	RESULTS & INVOICES TO: FI	FIELD SERVICES LABORATORY
	CHARG	Lia but Le CHANGE CODE	5 m	Sagar Ex	F	العاديرة	<u> </u>		FARMINGTON, NEW MEXICO 87499
							505-599-2144	9-2144	FAX: 505-538-5201

FAX: 505-599-2261

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

FIELD SERVICES LABORATORY

* I DRIUMS	
PHHSE Company	
Martural Gas t	

10.1.88 Chem. 10-1.96 Bras

CHAIN OF CUSTODY RECORD

15-16 ED OF LABORATORY BY: (Signature) 87-045 RECEIVED BY: (Signature) REMARKS CONTRACT LABORATORY P. O. NUMBER 0929 3 NORHAVS 8-11-18 RESULTS & INVOICES TO: 9 و # SEONENCE 96 072 P13!1 REQUESTED ANALYSIS 49T 2168 7.88 T CAB PID BTEX EPA 8020 RELINOL SAMPLE RECEIPT REMARKS

COOL OF J.W. THET 1.814 A93 HqT 86 SAMPLE TYPE TOTAL NUMBER OF CONTAINERS PATE: 8/20/78 FIELD ID HA86 104 8/20/98 1728W PROJECT NAME Pit Closure Project TIME MATRIX NA Blading 18/2d/ 1042 |Soi DATE REQUESTED TURNAROUND TIME: SAMPLERS: (Signature PROJECT NUMBER # 24324 05096 LABID ABID

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

BILL NO:

CHARGE CODE

O RUSH

O ROUTINE CARRIER CO.



# FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT

## SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	HAB6	980577
MTR CODE   SITE NAME:	87045	Norhaus 3
SAMPLE DATE   TIME (Hrs):	8/20/98	1042
PROJECT:	Phase	II Drilling
DATE OF TPH EXT.   ANAL.:	8/28/98	8/28/98
DATE OF BTEX EXT.   ANAL.:	8/24/98	8/26/98
TYPE   DESCRIPTION:		

Field Remarks: 15-16'

## **RESULTS**

PARAMÉTER	RESULT	UNITS		OUALIFI O	:RS M(9)	V(ml)
BENZENE	<0.5	MG/KG	DE III			
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		HAVE MADELES CODES COCCUSOS THAT	was courses www.	777770 2017754-10000000000
HEADSPACE PID	5	PPM				
PERCENT SOLIDS	91.0	%				

TPH is by EPA Method 418.1 and BTEX is by EPA Method 8020										
The Surrogate Recovery was at ative:	96.9	% for this sample	All QA/Q	C was acceptable.						
DF = Dilution Factor Used	$\wedge$				2					
Approved By:	Fresh.		Date:	9/14/98						

**PINNACLE I.D.: 808070** 

#### GAS CHROMOTOGRAPHY RESULTS

TEST

: EPA 8015 MODIFIED (DIRECT INJECT)

CLIENT

: EL PASO FIELD SERVICES

PROJECT#

: (none)

PROJECT NAME

: PHASE II DRILLING

1110000	· · · · · · · · · · · · · · · · · · ·					- ·		
SAMPLE		-		DATE	DATE	DATE	DIL.	
ID.#	CLIENT I.D.	•	MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR	
01	980574		NON-AQ	8/17/98	8/28/98	8/28/98	1	;
02	980575		NON-AQ	8/17/98	8/28/98	8/28/98	1	
03	980576		NON-AQ	8/18/98	8/28/98	8/28/98	. 1	
PARAME	TER	DET. LIMIT	UN	IITS	01	02	03	
FUEL HY	DROCARBONS, C6-C10	10	MG	S/KG	< 10	< 10	< 10	
FUEL HY	DROCARBONS, C10-C22	5.0	MG	S/KG	< 5.0	< 5.0	< 5.0	
FUEL HY	DROCARBONS, C22-C36	5.0	MG	/KG	< 5.0	< 5.0	< 5.0	
CALCULA	TED SUM:							
ROG	ATE:							
O-TERPH	ENYL (%)				100	151	137	
SURROGA	ATE LIMITS	(66 - 151)						

CHEMIST NOTES:

N/A

Phone: 505-344-3777, Fax: 505-344-4413

**PINNACLE I.D.: 808070** 

### GAS CHROMOTOGRAPHY RESULTS

TEST

: EPA 8015 MODIFIED (DIRECT INJECT)

CLIENT

: EL PASO FIELD SERVICES

PROJECT#

: (none)

PROJECT NAME

: PHASE II DRILLING

1 110000	7 1 17 117100	. I TIAGE II DIX	CLIITO			
SAMPLE		•	DATE	DATE	DATE	DIL.
ID. #	CLIENT I.D.		MATRIX SAMPLED	EXTRACTED	ANALYZED	FACTOR
04	980577		NON-AQ 8/20/98	8/28/98	8/28/98	1
05	980578	•	NON-AQ 8/20/98	8/28/98	8/28/98	1
PARAME	TER	DET. LIMIT	UNITS	04	05	
FUEL HY	DROCARBONS, C6-C10	. 10	MG/KG	< 10	10	1
FUEL HY	DROCARBONS, C10-C22	5.0	MG/KG	< 5.0	< 5.0	
FUEL HY	DROCARBONS, C22-C36	5.0	MG/KG	< 5.0	< 5.0	
CALCUL	ATED SUM:					•
					•	•

92

Phone: 505-344-3777, Fax: 505-344-4413

145

ROGATE: RPHENYL (%) SURROGATE LIMITS

(66 - 151)

CHEMIST NOTES: N/A

Anerical Environmental Network (NM), Inc.

Control of the contro CHAMIN OF CUSTODY

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	and the second s			32		30.30				383	
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	RCRA Metals by TCLP (Method 1311)	_	┼	<del> </del>	-		_	_	<del> </del>	-	├
	(8) ARCH Metals (8)	-	<del> </del>	<del> </del>		-	<del></del>		_	<u> </u>	-
	Target Analyte List Metals (23)	<b> </b>	┼-	┝		-				├	├
358	Priority Pollutant Metals (13)	_	-	<del>                                     </del>		-			<del> </del>		├
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g		<u>                                     </u>	<u> </u>	<u> </u>						_	<u> </u>
	General Chemistry:	<u> </u>	<u> </u>		<u> </u>						L
	Polynuclear Aromatics (610/8310)		<u> </u>								
	Base/Neutral/Acid Compounds GC/MS (625/8270)		<u> </u>								
2011	Herbicides (615/8151)						٠				
	Pesticides /PCB (608/8081)										
100	8260 (Landfill) Volatile Organics										
7.27	8260 (CUST) Volatile Organics										
1	8260 (Full) Volatile Organics										
18.15	8260 (TCL) Volatile Organics										
10.1						$\Box$					
	2041 ED8□\D8Cb□										
	8021 (CUST)	-						$\dashv$		$\dashv$	
	8021 (HALO)						$\dashv$	$\dashv$		$\dashv$	
	8021 (EDX)		Н			┪				$\dashv$	_
11/2	8021 (TCL)		Н			一	$\dashv$		一	┪	-
1	8021 (BTEX)   MTBE   TMB   PCE				_	- 1		一	$\neg$	$\dashv$	
14.1	8021 (BTEX)/8015 (Gasoline)				ᅱ	ᅱ	-	-		$\dashv$	$\dashv$
	dsiT & Sas/Purge & 108M)		$\vdash$			-	-	_	7.	$\dashv$	-
4	(MOD.8015) Diesel/Direct Inject	$\overline{\mathbf{x}}$	V	S	X	S	$\dashv$	_		$\dashv$	$\dashv$
10.1	Petroleum Hydrocarbons (418.1) TRPH	$\stackrel{\cdot}{\rightarrow}$		$\overrightarrow{}$		$\overline{}$	-	$\dashv$	$\dashv$	$\dashv$	-
	HIGH (1914) contractive and constant	1		73.7	- W. E.				12	<b>7.2</b>	
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AN	× 60	980574	980575	980576	98057	980578					
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PROJECT MANAGER: John LAmbain	AC B T T AC						.	- 1			Ì
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					Time: Signature: Time:	88	Hoose 924/4 Printed Name: Date:	Company:		Time:	Date: Proposition of the Proposi		KARI 944.4449 NICTDIBITIONI MAIN ATM ATM COLORS
					(RUSH)   24hr   72hr   1 WEEK (NORMAL)   Signalurey	PROJ. NAME: PHOSE IF On 1) IN G CERTIFICATION REQUIRED. CINM CISDWA COTHER	METHANOL PRESERVATION □ MAP IN ON IT NOT TO STATE OF THE	COMMENTS: FIXED FEE	end New COC's when	ACALLAD & Signature:	Printed Name:	Company:	1/5/98 AEN Inc.: American Environmental Network (NM), Inc 2709-D Pan American Freeway. NE • Albuquerdis. New Maxim 87107 • 15051 3.44-3777 • Esv (SAS.) 2.44-49
ואס	3T	37d	IMC	N C	PROJ. NO.:			SHIPPED VIA: Fed EX			BSA	Z	

## **BTEX SOIL SAMPLE WORKSHEET**

File		:	980577	Date Printed :	8/27/98
Soil Mass	(g)	:	5.05	Multiplier (L/g) :	0.00099
Extraction vol.	(mL)	:	10	CAL FACTOR (Analytical):	200
<b>Shot Volume</b>	(uL)	:	50	CAL FACTOR (Report):	0.19802

		DILUTION	FACTOR:	1	Det. Limit
Benzene	(ug/L) : <0.5	Benzene	(mg/Kg):	<b>#VALUE!</b>	0.495
Toluene	(ug/L) : <0.5	Toluene	(mg/Kg):	<b>#VALUE!</b>	0.495
Ethylbenzene	(ug/L) : <0.5	Ethylbenzene	(mg/Kg):	<b>#VALUE!</b>	0.495
p & m-xylene	(ug/L) : <1.0	p & m-xylene	(mg/Kg):	<b>#VALUE!</b>	0.990
o-xylene	(ug/L) : <0.5	o-xylene	(mg/Kg):	<b>#VALUE!</b>	0.495
		Total xylenes	(mg/Kg):	<b>#VALUE!</b>	1.485
		Total BTEX	(mg/Kg):	<b>#VALUE!</b>	

## RECORD OF SUBSURFACE EXPLORATION

PHILIP SERVICES CORP.

	0 Monro	e Ro	ad		
	ington,	New	Mexico	87401	
1	5) 326-22	62	FAX (50	5) 326-2	388

Borehol	e #	вн-	
Well#		NA	
Page	1	of	

Project Number	19643	Phase	1001.77	
Project Name	EPFS PITS	>10		
Project Location	NORMA	ws 3	87-045	

Elevation				
Borehole Location	LTR: C	S: 17	T: 25	R: 7
GWL Depth	NA			
Drilled By	K. PADII	LA _		
Well Logged By	H. BRAD	BURY		
Date Started	81	20/9	8	
Date Completed	8/2	0195	?	

Drilling Method 4 1/4 ID HSA
Air Monitoring Method PID

Depth (Feet)	Sample Number	Sample Interval	Sample Type & Recovery	Sample Description Classification System: USCS	USCS Symbol	Depth Lithology Change	U	Monitor	PM	Drilling Conditions & Blow Counts
0			(inches)	EXCAVATION SAMPLE COLLECTED at 3'		(feet)	82	BH	S/HS	BZ=Breathing Zone BH=Borehole S/HS=Sample/Headspace  hALA  JL; Iliu
10	(	10-11	6"	LT GR SILTSTONE MED CEMENTED			0	0	00	1231 hRS
15	2	(ラール	12	LTGR SILTSTONE SOFT CEMENTED TOB 16'			D	0	0/5	1042hes
20										
30										
35   40			4							

comments:

HABG 15-16' WAS SENT to 1AB FOR TPH, BTEX GW NOT ENCOUNTERED OH GROVED to SUFFACE

**Geologist Signature** 

Holly Beading