Risk
Bedrock

EL PASO FIELD SERVICES
PRODUCTION PIT CLOSURE

Florance # 6
Meter/Line ID – 75253

SITE DETAILS

Legals - Twn: 30N **Rng: 9W** **Sec: 23** **Unit: M**
NMOCD Hazard Ranking: 20 **Land Type: BLM**
Operator: Amoco **Pit Closure Date: 02/13/95**

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 Phase I excavation was conducted on February 13, 1995, to three feet below ground surface, 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 pit. The pit was backfilled and graded in a manner to direct surface runoff away from the pit area. Headspace analysis indicated an organic vapor content of 37 ppm; laboratory analysis indicated a TPH concentration of 550 mg/kg. TPH was above required remediation levels for the Hazard Ranking Score.

On January 22, 1998, a Phase II borehole was conducted to five feet below ground surface where bedrock was encountered, and a soil sample was collected for field headspace analysis, and laboratory analysis for benzene, total BTEX, and TPH. Groundwater was not encountered in the borehole. The borehole was grouted to the surface in a manner to direct surface runoff away from the pit area. Headspace analysis indicated an organic vapor content of 12 ppm; laboratory analysis indicated a benzene concentration of <0.5 mg/kg, a total BTEX concentration of <3.0 mg/kg, and a TPH concentration of <10 mg/kg.

El Paso Field Services Company (EPFS) 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 five years.
- The pit was backfilled and the former pit area graded to direct surface runoff away from the former pit.
- Groundwater was not encountered in the excavation or the borehole.
- Residual hydrocarbons in the soil will degrade naturally with minimal risk to the environment.
- Bedrock was encountered at five feet below ground surface; consequently, impact to groundwater is unlikely.
- There are no water supply wells or other sources of fresh water extraction within 1,000 feet of site.
- Based on the Hazard Ranking Score, benzene, BTEX, and TPH were below required remediation levels.

ATTACHMENT
Field Pit Assessment Form
Phase II Geologic Log

FIELD PIT SITE ASSESSMENT FORM

GENERAL

Meter: 75253 Location: Florance 6

Operator #: 0203 Operator Name: Amoco P/L District: Bloomfield

Coordinates: Letter: M Section 23 Township: 30 Range: 9

Or Latitude _____ Longitude _____

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

Site Assessment Date: 1/16/95 Area: 10 Run: 33

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, 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: 20 **POINTS**

REMARKS

Remarks : Redline Book: Outside Vulnerable Zone Topo: Outside

3 pits. Close 1. Deby on pit

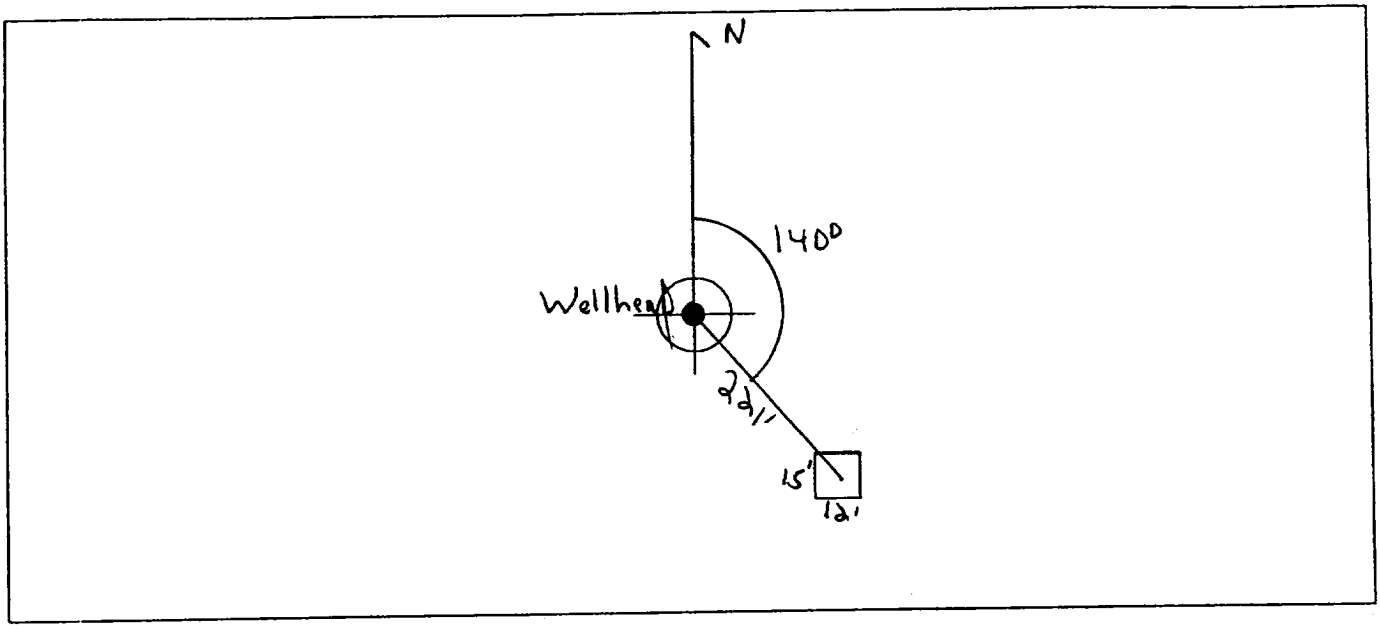
PUSH-IN

ORIGINAL PIT LOCATION

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 140° Footage from Wellhead 221'

b) Length : 15' Width : 12' Depth : 3'



REMARKS

Remarks :

Pictures @ 1430 hr 1-5 roll 3

Completed By:

Cory Chance
Signature

1/16/95
Date

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL

Meter: 75253 Location: Florance #6

Coordinates: Letter: M Section 23 Township: 30 Range: 9

Or Latitude _____ Longitude _____

Date Started : 2-13-95 Run: 10 33

FIELD OBSERVATIONS

Sample Number(s): MK381 _____ _____ _____

Sample Depth: 3' Feet

Final PID Reading 37 PPM PID Reading Depth 3' 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: 2-13-95 Pit Closed By: BET

REMARKS

Remarks : Arrived Dug Sample Hole Hit Sandstone 3' Soil Grayish brown Slight Hydrocarbon odor

Signature of Specialist: Morgan Killion

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:	MK 381	9416674
MTR CODE | SITE NAME:	75253	N/A
SAMPLE DATE | TIME (Hrs):	2-13-95	1140
SAMPLED BY:	N/A	
DATE OF TPH EXT. | ANAL.:	2/17/95	2/17/95
DATE OF BTEX EXT. | ANAL.:	N/A	N/A
TYPE | DESCRIPTION:	VG	Brown-Gray sand and clay

REMARKS: TPH done at ATI

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
TPH (418.1)	550	MG/KG				
HEADSPACE PID	37	PPM				
PERCENT SOLIDS	90.1	%				

-- TPH is by EPA Method 418.1 --

Narrative: ATI Results attached

DF = Dilution Factor Used

Approved By: _____ Date: 3-20-95

Analytical Technologies, Inc.

GENERAL CHEMISTRY RESULTS

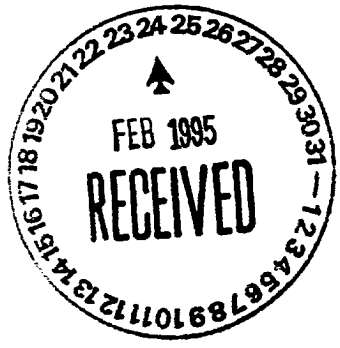
CLIENT	: EL PASO NATURAL GAS CO.	ATI I.D.	: 502381
PROJECT #	: 24324	DATE RECEIVED	: 02/17/95
PROJECT NAME	: PIT CLOSURE	DATE ANALYZED	: 02/17/95

PARAMETER	UNITS	17	18	19	20
PETROLEUM HYDROCARBONS, IR	MG/KG	550	5100	<20	1200

94k674

Analytical Technologies, Inc.

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



ATI I.D. **502381**

February 23, 1995

El Paso Natural Gas Co.
P. O. Box 4990
Farmington, NM 87499

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

On **02/17/95**, Analytical Technologies, Inc., (ADHS License No. AZ0015), received a request to analyze **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.

EPA Method 8020 analyses were added on February 21, 1995 for samples 946659, 946660, 946661, 946662, 946663, 946664, 94666, 946667, 946668, 946669, 946680, 946682 per John Lambdin.

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

Letitia Krakowski, Ph.D.
Project Manager

H. Mitchell Rubenstein, Ph.D.
Laboratory Manager

MR:jt

Enclosure

El Paso Natural Gas Company

CHAIN OF CUSTODY RECORD

Page _____ of _____

PROJECT NUMBER	PROJECT NAME
# 24324	Pit Closure Project

SAMPLERS: (Signature) Morgan Killion

DATE: 2-13-95

LAB ID	DATE	TIME	MATRIX	FIELD ID	TOTAL NUMBER OF CONTAINERS	SAMPLE TYPE	TPH EPA 418.1	BTEX EPA 8020	LAB PID			SEQUENCE #	REMARKS
94666 70	2-13-95	09:55	Soil	MK 377	1	VG	X					340	Brown soil No Hydrocarbon odor
94666 71	2-13-95	09:55	soil	MK 378	1	D	X						
94666 72	2-13-95	10:00	Soil	MK379	1	B	X						
94666 73	2-13-95	10:55	soil	MK 380	1	VG	X					341	Brown soil No Hydrocarbon odor
94666 74	2-13-95	11:40	soil	MK 381	1	VG	X					342	Gray-Sl Brown soil Slight Hydrocarbon odor
94666 75	2-13-95	12:15	soil	MK382	1	VG	X					343	Black Soil Strong Hydrocarbon odor
94666 76	2-13-95	13:25	soil	MK383	1	VG	X					344	Brown soil No Hydrocarbon odor
94666 77	2-13-95	14:20	soil	MK 384	1	VG	X					345	Gray Soil Strong Hydrocarbon odor
94666 78	2-13-95	14:50	soil	MK 385	1	VG	X					346	Brown soil strong Hydrocarbon odor
94666 79	2-13-95	15:40	soil	MK 386	1	VG	X					347	White Sand Slight Hydrocarbon odor

REQUESTED ANALYSIS

CONTRACT LABORATORY P. O. NUMBER

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
Morgan Killion	2-13-95 17:45	Brenda Reas	Brenda Reas	2/14/95 1020	
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-08-0565 A (Rev. 05-94)

RECORD OF SUBSURFACE EXPLORATION

Borehole # BH-1
Well #
Page 1 of

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

Project Number: 18007 Phase: 1001.77
Project Name: EPFS 5 Wellhead Protection Pits
Project Location: Florance #6
(75253) No Meter Oil Site
T-30, R-9, Sec 23, M

Elevation:
Borehole Location:
GWL Depth:
Drilled By: K. Padilla
Well Logged By: S. Pope
Date Started: 1/22/98 1345
Date Completed: 1/22/98 1400

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

Depth (Feet)	Sample Number	Sample Interval	Sample Type & Recover (inches)	Sample Description Classification System: USCS	USCS Symbol	Depth Lithology Change (feet)	Air Monitoring Units: PPM BZ	BH	S	Drilling Conditions & Blow Counts
0				Brown Clayey SAND, Med Co grained, Moist						
5	1	5 7	3	Light Gray SANDSTONE trace clay Fine Med grain Very hard Dry TOB-5.3			0	0	1	- Sandstone @ 3' 1400 Sample Refusal @ 3" Auger Refusal
10										
15										
20										
25										
30										
35										
40										

Comments: No meter on Location. Auger Refusal @ 5 feet Collect Sample 5-5.3' STP-38 BTEX & TPH. Backfill hole w/ Hole Plug.

Geologist Signature

PROJECT ____________ Notebook No. ______

Continued From Page ______

Sample	Pan wt - Sample wt =	Pan + Dry	Dry wt	% Solids
1/25/98				
980083	2.61 - 14.00 = 11.39	12.31	9.70	85.2
980083 dup	2.61 - 13.17 = 10.56	11.66	9.05	85.7
980084	2.62 - 13.07 = 10.45	11.27	8.65	82.8
980085	2.63 - 15.52 = 12.89	13.24	10.61	82.3
980086	2.62 - 21.12 = 18.50	19.02	16.40	88.6
980087	2.62 - 13.72 = 11.10	12.28	9.66	87.0
980088	2.60 - 23.32 = 20.72	19.91	17.31	83.5
980089	2.58 - 14.12 = 11.54	12.59	10.01	86.7
980090	2.60 - 14.69 = 12.09	12.98	10.38	85.9
980091	2.60 - 13.26 = 10.66	11.87	9.27	87.0
980092	2.62 - 12.24 = 9.62	11.69	9.07	94.3
980093	2.65 - 20.66 = 18.01	17.82	15.17	89.2
980094	2.64 - 15.31 = 12.67	14.07	11.43	90.2
980095	2.63 - 14.83 = 12.20	13.62	10.99	90.1

+

Sample	Pan wt - Sample wt =	Pan + Dry	Dry wt	Dry wt (g)	Diff (g)
1/26/98	2.64 - 8.82 = 6.18	11.11	8.47	5.83	0.[illegible] (crossed out) 943
980076	2.64 - 9.19 = 6.55	11.82	9.18	6.54	99.8
980077	2.63 - 8.88 = 6.25	11.18	8.55	5.92	94.7
980078	2.61 - 8.98 = 6.37	11.35	8.74	6.13	96.2
980079					
980080	2.62 - 9.02 = 6.40	10.93	8.31	5.69	88.9
980081	2.62 - 9.10 = 6.48	11.44	8.82	6.20	95.7
980082	2.62 - 9.09 = 6.47	11.13	8.51	5.89	91.4
980082 dup	2.63 - 9.32 = 6.69	11.39	8.76	6.13	91.6

Continued on Page

Read and Understood By

PROJECT _____ Continued From Page _____

Sample	mass	MeOH	Project / Description
10/31/97			
1031 Ext Blk	—	10mL	—
971167	5.23		Masters Creek Spoil Pile
971167 Dup	5.16		" " " "
971168	5.38		LPG Tank Drainage #1
971169	5.07		LPG Tank Drainage #2
971170	5.53		LPG Tank Drainage #3
12/2/97			
1202 Ext Blk	—	10mL	
971254	5.08		North Lansing Firewall Exterior
971255	5.33		" " By DeHy
971255dup	5.22		" " "
971256	5.85		" " Firewall Internal North
971257	5.27		" " Firewall Internal West
971258	5.40		" " Firewall Internal East
971259	5.23		Willow Springs Soil by Delty
1/30/98			
0130 Ext Blk	—	10mL	—
980076	5.11		STP-3R Vanderwort A#1 70259 20'-20.5'
980077	5.23		STA-33 Blank
980078 dup			
980078	5.44		STP-34-38.5-38.8, LAT A-21, Drip Y-1, L0011
980079	5.31		STP-35-23-24', BH-1, San Juan #5, 72386
980080	5.08		STP-36 20-22', BH-1, Elliot Gas Com Y No. 1
980081	5.06		STP-37 20-22, BH-2, Elliot Gas Com Y No 1
980082	5.04		STP-38 BH-1 5-9.3, Florance G 75253
980081 dup	5.05		STP-37 20-22' BH-2, Elliot Gas Com Y No. 1

Continued on Page

Read and Understood By

Signed _____ Date _____ Signed _____ Date _____

Sample	Description	wt	Volume
12/2/97			
12/2 BLK			28
QC #1	ERA QC LOT 91030 #1	2.45	
QC #2	ERA QC LOT 91030 #2	2.71	
971254	mostly pebbles	2.06	
971255	Red/Brown Clay	2.33	
971255 dup	↓ ↓ ↓	2.23	
971255 spk		2.47	
971256	Gray/Brown Clay	2.05	
971257	Brown/Red/Yellow Clay	2.21	
971258	Brown Sand & Clay	2.29	
971259	Brown Sand w pebbles	2.15	↓

SAMPLE	DESCRIPTION	WT	VOLUME
12/6/97			
QC #1	ERA QC LOT 91030 #1	2.18	28
QC #2	ERA QC LOT 91030 #2	2.11	
980076	BROWN SAND + SANDSTONE	1.96	
980077	BROWN SAND	2.08	
980078	LIGHT GRAY SAND + SANDSTONE	1.01	
980079	BROWN SAND	2.18	
980080	BROWN SAND + CLAY	2.36	
980081	BROWN SAND + CLAY	2.48	
980082	LIGHT GRAY + BROWN SAND	2.08	
980079 dup		2.06	↓
980079 spk		2.26	28

Continued on Page

Read and Understood By

Signed Date Signed Date

EL PASO FIELD SERVICES

FIELD SERVICES LABORATORY
ANALYTICAL REPORT

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	STP-38	980082
MTR CODE | SITE NAME:	75253	Florance 6
SAMPLE DATE | TIME (Hrs):	1/22/98	1400
PROJECT:	Phase II Drilling	
DATE OF TPH EXT. | ANAL.:	1/26/98	1/26/98
DATE OF BTEX EXT. | ANAL.:	1/30/98	2/2/98
TYPE | DESCRIPTION:	VG	Light Gray and Brown Sand

Field Remarks: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS DF	Q	MQL	SDL
BENZENE	<0.5	MG/KG				
TOLUENE	<0.5	MG/KG				
ETHYL BENZENE	<0.5	MG/KG				
TOTAL XYLENES	<1.5	MG/KG				
TOTAL BTEX	<3.0	MG/KG				
TPH (M8015)	10	MG/KG				
TPH (418.1)	136	MG/KG				
HEADSPACE PID	1	PPM				
PERCENT SOLIDS	91.4	%				

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

The Surrogate Recovery was at 102 % for this sample All QA/QC was acceptable.

Narrative:

TPH M8015 run by AEN Labs.

Approved By: John Gardner Date: 3/16/98

Paragon Analytics, Incorporated

Sample Number(s) Cross-Reference Table

Paragon OrderNum: 9802002
Client Name: El Paso Field Services
Client Project Name: 24324
Client Project Number: Pit Closure
Client PO Number:

Client Sample	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
980079	9802002-1		Soil	1/21/98	15:50
980082	9802002-2		Soil	1/22/98	14:00

TPH(418.1) = 220 mg/kg

Phase II Drill
San Jacinto #5
Meter Code 72386

Total Extractable Petroleum Hydrocarbons

Modified Method 8015

Sample ID
980079

Lab Name: Paragon Analytics, Inc.
Client Name: El Paso Field Services
Client Project ID: Pit Closure 24324

Lab Sample ID: 9802002-1

Sample Matrix: Soil
Cleanup: N/A
% Moisture: 0 %
Results based on wet weight

Date Collected: 1/21/98
Date Extracted: 2/04/98
Date Analyzed: 2/05/98

Sample Weight: 20 g
Final Volume: 5 mL
Dilution Factor: 1

Analyte	Conc (mg/kg)	Reporting Limit (mg/kg)
TEPH[1]	11 #	5.0

SURROGATE RECOVERY

Analyte	% Recovery	% Rec Limits
Hexacosane	93	54 - 146

ND = Not Detected at or above client requested reporting limit.
TEPH[1] = Any combination of diesel and other hydrocarbons within the range of C8 - C36 quantitated as diesel.
# - The chromatogram indicates hydrocarbons in the range of C8 - C30

TPH(418.1) = 136 mg/kg

Phase II Drill
Florance 6
Meter Code 75253

Total Extractable Petroleum Hydrocarbons

Modified Method 8015

Sample ID
980082

Lab Name: Paragon Analytics, Inc.
Client Name: El Paso Field Services
Client Project ID: Pit Closure 24324

Lab Sample ID: 9802002-2

Sample Matrix: Soil
Cleanup: N/A
% Moisture: 0 %
Results based on wet weight

Date Collected: 1/22/98
Date Extracted: 2/04/98
Date Analyzed: 2/05/98

Sample Weight: 20 g
Final Volume: 5 mL
Dilution Factor: 1

Analyte	Conc (mg/kg)	Reporting Limit (mg/kg)
TEPH[1]	10 #	5.0

SURROGATE RECOVERY

Analyte	% Recovery	% Rec Limits
Hexacosane	95	54 - 146

ND = Not Detected at or above client requested reporting limit.
TEPH[1] = Any combination of diesel and other hydrocarbons within the range of C8 - C36 quantitated as diesel.
# - The chromatogram indicates hydrocarbons in the range of C16 - C36

Total Extractable Petroleum Hydrocarbons Matrix Spike

Modified Method 8015

Sample ID

980082

Lab Name: Paragon Analytics, Inc.
Client Name: El Paso Field Services
Client Project ID: Pit Closure 24324

Lab Sample ID: 9802002-2MS

Sample Matrix: Soil

% Moisture: 0 %
Results based on wet weight

Date Collected: 1/22/98
Date Extracted: 2/04/98
Date Analyzed: 2/05/98

Sample Weight: 20 g
Final Volume: 5 mL
Dilution Factor: 1

Analyte	Spike Added (mg/kg)	Sample Concentration (mg/kg)	MS Concentration (mg/kg)	MS Percent Recovery	QC Limits % Rec
Diesel	25.0	10.2	35.1	100	43 - 139

Analyte	Spike Added (mg/kg)	MSD Concentration (mg/kg)	MSD Percent Recovery	RPD	QC Limits RPD
Diesel	25.0	37.6	110	7	20

SURROGATE RECOVERY MS/MSD

Analyte	% Recovery MS	% Recovery MSD	% Rec Limits
Hexacosane	107	106	54 - 146

ND = Not Detected

Acceptable
3/4/98

PARAGON ANALYTICS, INC.
225 Commerce Drive ◆ Fort Collins, CO 80524 ◆ (800) 443-1511◆ (970) 490-1511 ◆ FAX (970) 490-1522

February 12, 1998

Mr. John Lambdin
El Paso Field Services
770 W. Navajo
Farmington, NM 87401

RE: Paragon Workorder: 98-02-002
Client Project Name: Pit Closure
Client Project Number: 24324

Dear Mr. Lambdin:

Two soil samples were received from El Paso Field Services on February 3, 1998. The samples were scheduled for Total Extractable Hydrocarbons (Diesel) analysis. The results for this analysis are contained in the enclosed report pages 1-8.

Thank you for your confidence in Paragon Analytics, Inc. Should you have any questions, please call.

Sincerely,

Paragon Analytics, Inc.
Victoria Bayly
Project Manager

VB/arp
Enclosure: Report

PARAGON ANALYTICS, INC.
225 Con...ce Drive Ft. Collins, CO 80524
(800) 443-1511 or (970) 490-1511
(970) 490-1522 - Fax

CHAIN OF CUSTODY

DATE 2-2-98 Page __ of 1

REPORT TO: JOHN LAMBDIN
COMPANY: EL PASO FIELD SERVICE CO.
ADDRESS: 614 REILLY AVENUE
FARMINGTON, NM 87401

SAMPLER: SCOTT POPE
(505) 599-2144 (505) 599-2061
PHONE NO. FAX NO.

SAMPLE ID	DATE	TIME	MATRIX
980079	1-21-98	1550	SOIL
980082	1-22-98	1400	SOIL

ANALYSIS REQUESTED

Oil & Grease 9070/9071/413.2	418.1 - TRPH	8015 Mod. - Gasoline	8015 Mod. - Diesel	8015m/8020 - Gasoline/BETX	8020 - BETX only	8240/8260 - GC/MS VOC's	8270 - GC/MS SVOC's	8080 - Pesticides/PCB's	8080 - PCB's only	8310/610 - HPLC PNA's	8150 - Herbicides	8141/614 - OP Pesticides	TOX - EOX - AOX - TX	Total Metals *(specify in comments)*	TCLP: *(specify parameters in comments)*	Gross Alpha / Beta	Gross Gamma	Gamma Spec	Isotopic Plutonium	Isotopic Uranium	Total Uranium (KPA)	Radium 226 / 228	Tritium (H3)	Strontium 89 / 90	8315 - Formaldehyde	% Moisture	Number of Containers
			X																							1
			X																							1

PROJECT INFORMATION
PROJECT NUMBER: 24324
PROJECT NAME: PIT CLOSURE
P.O. NUMBER:
TAT: STANDARD X RUSH DUE ____
SAMPLE DISPOSAL: HAZ WASTE $5.00 ea RAD CHEM $15.00 ea RETURN

COMMENTS:

RELINQUISHED BY: 1	RELINQUISHED BY: 2	RELINQUISHED BY: 3
Sign. Time: 1201	Sign. Time	Sign. Time
Print: DENNIS BIRD Date: 2-2-98	Print Date	Print Date
Company: EL PASO FIELD SERVICES	Company: FEDX	Company
RECEIVED BY: 1	**RECEIVED BY: 2**	**RECEIVED BY: 3**
Sign. Time	Sign. Time: 0930	Sign. Time
Print Date	Print: V BAILEY Date: 2/3/98	Print Date
Company: FEDX	Company: PAI	Company

*** DO NOT WRITE IN SHADED AREAS**

DISTRIBUTION: White, Canary - PARAGON ANALYTICS, INC. Pink - Originator

Paragon Analytics, Inc. - Fort Collins, Colorado

CONDITION OF SAMPLE UPON RECEIPT

CLIENT: El Paso Field Svces SHIPPING CONTAINER #: cooler

WORKORDER NO. 9802002 INITIALS: FB DATE: 4/3/98

1. Does this project require special handling according to NEESA, Level 3, or CLP protocols? If yes, complete a. and b. a. Cooler Temperature_____ b. Lot No's._____ c. Airbill Number_____		Yes	(No)
2. Are custody seals on the cooler intact? If so, how many_____	(N/A)	Yes	No
3. Are custody seals on sample containers intact?	(N/A)	Yes	No
4. Is there a Chain of Custody (COC) or other representative documents, letters or shipping memos?		(Yes)	No
5. Is the COC complete? Relinquished: Yes ✓ No___ Requested Analysis: Yes ✓ No___	N/A	(Yes)	No
6. Is the COC in agreement with the samples received? No. of Samples: Yes ✓ No___ Sample ID's: Yes ✓ No___ Matrix: Yes ✓ No___ No. of Containers: Yes___ No		(Yes)	No
7. Are the samples requiring chemical preservation preserved correctly?	(N/A)	Yes	No
8. Is there enough sample? If so, are they in the proper containers?		(Yes)	No
9. Are all samples within holding times for the requested analyses?		(Yes) *	No
10. Were the sample(s) shipped on ice?	N/A	(Yes)	No
11. Were all sample containers received intact? (not broken or leaking, etc.)		(Yes)	No
12. Are samples requiring no headspace, headspace free?	(N/A)	Yes	(No)
13. Do the samples require quarantine?		(Yes)	(No)
14. Do samples require Paragon disposal?		(Yes)	(No)
15. Did the client return any unused bottles?		(Yes)	(No)

Describe "NO" items (except No's 1, 13, &14):_____

* only 1-2 days left on hold time

Was the client contacted? Yes_____ No_____

If yes, Date:_____ Name of person contacted:_____

Describe actions taken or client instructions:_____

Group Leader's Signature:_____ Date:_____

Cooler Temperature: 4°C (Temp Blk)

BTEX SOIL SAMPLE WORKSHEET

File	: 980080	**Date Printed**	: 2/4/98		
Soil Mass (g)	: 5.08	**Multiplier (L/g)**	: 0.00098		
Extraction vol. (mL)	: 10	**CAL FACTOR (Analytical):**	200		
Shot Volume (uL)	: 50	**CAL FACTOR (Report):**	0.19685		
		DILUTION FACTOR:	**1**	**Det. Limit**	
Benzene (ug/L)	: 0.00	**Benzene (mg/Kg):**	**0.000**	0.492	
Toluene (ug/L)	: 0.00	**Toluene (mg/Kg):**	**0.000**	0.492	
Ethylbenzene (ug/L)	: 0.00	**Ethylbenzene (mg/Kg):**	**0.000**	0.492	
p & m-xylene (ug/L)	: 0.00	p & m-xylene (mg/Kg):	0.000	0.984	
o-xylene (ug/L)	: 0.00	o-xylene (mg/Kg):	0.000	0.492	
		Total xylenes (mg/Kg):	**0.000**	1.476	
		Total BTEX (mg/Kg):	**0.000**		

BTEX SOIL SAMPLE WORKSHEET

File	: 980081	**Date Printed**	: 2/4/98	
Soil Mass (g)	: 5.06	**Multiplier (L/g)**	: 0.00099	
Extraction vol. (mL)	: 10	**CAL FACTOR (Analytical):**	200	
Shot Volume (uL)	: 50	**CAL FACTOR (Report):**	0.19763	
		DILUTION FACTOR:	**1**	**Det. Limit**
Benzene (ug/L)	: 0.00	**Benzene (mg/Kg):**	**0.000**	0.494
Toluene (ug/L)	: 0.00	**Toluene (mg/Kg):**	**0.000**	0.494
Ethylbenzene (ug/L)	: 0.00	**Ethylbenzene (mg/Kg):**	**0.000**	0.494
p & m-xylene (ug/L)	: 0.00	p & m-xylene (mg/Kg):	0.000	0.988
o-xylene (ug/L)	: 0.00	o-xylene (mg/Kg):	0.000	0.494
		Total xylenes (mg/Kg):	**0.000**	1.482
		Total BTEX (mg/Kg):	**0.000**	

BTEX SOIL SAMPLE WORKSHEET

File	980082	**Date Printed**	2/4/98	
Soil Mass (g)	5.04	**Multiplier (L/g)**	0.00099	
Extraction vol. (mL)	10	**CAL FACTOR (Analytical):**	200	
Shot Volume (uL)	50	**CAL FACTOR (Report):**	0.19841	
		DILUTION FACTOR:	**1**	**Det. Limit**
Benzene (ug/L)	0.00	**Benzene (mg/Kg):**	**0.000**	0.496
Toluene (ug/L)	0.00	**Toluene (mg/Kg):**	**0.000**	0.496
Ethylbenzene (ug/L)	0.00	**Ethylbenzene (mg/Kg):**	**0.000**	0.496
p & m-xylene (ug/L)	0.00	p & m-xylene (mg/Kg):	0.000	0.992
o-xylene (ug/L)	0.00	o-xylene (mg/Kg):	0.000	0.496
		Total xylenes (mg/Kg):	**0.000**	1.488
		Total BTEX (mg/Kg):	**0.000**	

El Paso Natural Gas Company

Phase II – Drilling

CHAIN OF CUSTODY RECORD

Page _____ of _____

PROJECT NUMBER	PROJECT NAME
# 24324	Pit Closure Project

SAMPLERS: (Signature) Scott T. Pope DATE: 1/22/98

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 MS/DS	PID	SEQUENCE #	REMARKS
980080	1/22/98	1015	Soil	STP-36	1	VG	X	X			12 0 1/22/98	4	20-22', BH-1, Elliot Gas Com Y No 1 92157
980081	1/22/98	1200	Soil	STP-37	1	VG	x	X			0	5	20-22', BH-2, Elliot Gas Com Y No 1 92157
980082	1/22/98	1400	Soil	STP-38	1	VG	x	x			1	6	5-5.3', BH-1, Florance 6, 75253

1/22/98 STP

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
Scott T. Pope 1/22/98	1730				
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED OF LABORATORY BY: (Signature)
					Dennis P. Bich

CONTRACT LABORATORY P. O. NUMBER

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