

1000 Rio Brazos Rd, Aztec, NM 87410

Santa Fe, New Mexico 87504-2088

JUN 24 1997

RANKING SCORE (TOTAL POINTS): **20**

P:\pits\PrrC@.WK3

Date Remediation Started: N/A Dated Completed: _____

Excavation _____ Approx. cubic yards _____

Landfarmed _____ Insitu Bioremediation _____

Other _____

Remediation Method: Onsite _____ Offsite _____

(Check all appropriate
sections)

General Description of Remedial Action- N/A

Initial assessment showed soils to be clean at the surface and at 3 ft below pit bottom.

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 3 feet below pit bottom in NW corner. Sampled with

Geoprobe

Sample depth 3 ' below pit bottom

Sample date 2/26/97

Sample time 14:00

Sample Results

Benzene(ppm) _____

Total BTEX (PPM) _____

Field Headspace (ppm) 0.0

TPH Non-Detect

RECEIVED
APR 24 1997
OIL CON. DIV.
DIST. 3

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

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETED TO THE BEST
OF MY KNOWLEDGE AND BELIEF.

DATE 4-22-97 PRINTED NAME Bob Wirtanen

SIGNATURE Robert A. Wirtanen and TITLE Sr. Safety & Environmental Specialist

**Pit Closure
San Juan 29-6 #65A**

Depth to Groundwater	40'
Distance to Water Source	>1000'
Distance to Surface Water	>1000'
TPH Limit (ppm)	100

The subject pit was located on moist, brown, clayey silt. The pit is located 55 feet East of the wellhead. The initial size of the pit was 20'x20'x3' deep. The earthen pit has a double bottomed steel tank located in the pit.

On February 26, 1997, Cimarron Oilfield Services, utilizing a Geoprobe, bore a hole to approximately 6 feet in depth (3 feet below pit bottom), for purposes of determining vertical extent of stained soils. A sample at 6 feet was retrieved and tested utilizing an OVM and the field headspace method for BTEX and a TPH sample submitted to Intermountain Labs for TPH analysis utilizing EPA Method 8015. Results provided an OVM reading of 0 ppm and a TPH level of Non-Detect. No groundwater was encountered, and first water was not recorded on the nearby cathodic well until a depth of 40 feet. The bore hole was backfilled with well cuttings and Bentonite.

Having achieved action levels below NMOCD and BLM requirements this pit should be considered to have reached "final closure". By installing a steel pit with a leak detection system, the driving force created by additional fluids will be eliminated. Based on this information and the physical location of the pit, there is little to no risk to human health or environment.

Moist |

Total	
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6 ft

Page 10

Page 10

[illegible]

DIESEL RANGE ORGANICS - DRO

1160 Research Drive
Bozeman, Montana 59718

Client: PHILLIPS PETROLEUM COMPANY
Sample ID: Btm @ 6'
Project ID: None Given
Lab ID: B971016 0397G00276
Matrix: Soil

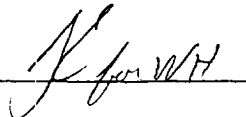
Date Reported: 03/10/97
Date Sampled: 02/26/97
Date Received: 02/28/97
Date Extracted: 03/03/97
Date Analyzed: 03/03/97

Parameter	Result	PQL	Units
Diesel Range Organics	ND	5.0	mg/kg
Diesel Range Organics as Diesel	ND	5.0	mg/kg
Total Extractable Hydrocarbons	ND	5.0	mg/kg

ND - Not Detected at Practical Quantitation Level (PQL)

Reference: DRO - USEPA Method for Determination of Diesel Range Organics. Revision 3, 05/08/92.
WTPH-D Total Petroleum Hydrocarbons Analytical Methods for Soil, Washington State Department of Ecology, Revision 3, October 1991.

Analyst



Reviewed



GASOLINE RANGE ORGANICS - GRO1160 Research Drive
Bozeman, Montana 59718

Client: **PHILLIPS PETROLEUM COMPANY**
Sample ID: Btm @ 6'
Project ID: None Given
Lab ID: B971016 0397G00276
Matrix: Soil

Date Reported: 03/04/97
Date Sampled: 02/26/97
Date Received: 02/28/97
Date Extracted: 02/28/97
Date Analyzed: 02/28/97

Parameter	Result	PQL	Units
Gasoline Range Organics	ND	5.0	mg/kg
Gasoline Range Organics as Gasoline	ND	5.0	mg/kg
Total Purgeable Hydrocarbons	ND	5.0	mg/kg
QUALITY CONTROL - Surrogate Recovery	%	QC Limits	
Bromofluorobenzene	103	40 - 163	

ND - Not Detected at Practical Quantitation Level (PQL)

Reference: GRO - USEPA Method for Determination of Gasoline Range Organics, Rev. 5, February 1992.
WTPH-G Total Petroleum Hydrocarbons Analytical Methods for Soil, Washington State Department of Ecology, Revision 6, 08/18/93.

Analyst SD

Reviewed 

QUALITY ASSURANCE / QUALITY CONTROL

LAB QA/QC
GASOLINE RANGE ORGANICS - GRO
METHOD BLANK


Date Analyzed: 03/03/97
Lab ID: MBS97059
Matrix: Sand
Date Extracted 02/28/97

Parameter	Result	PQL	Units
Gasoline Range Organics	ND	5.0	mg/kg
Gasoline Range Organics as Gasoline	ND	5.0	mg/kg
Total Purgeable Hydrocarbons	ND	5.0	mg/kg

QUALITY CONTROL - Surrogate Recovery	%	QC Limits
Bromofluorobenzene	99	40 - 163

ND - Not Detected at Practical Quantitation Level (PQL)

Analyst SD

Reviewed 

LAB QA/QC
DIESEL RANGE ORGANICS - DRO
METHOD BLANK

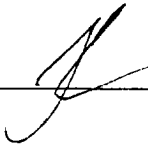
1160 Research Drive
Bozeman, Montana 59718

Date Analyzed: 03/03/97
Lab ID: MBS970062
Matrix: Sand
Date Extracted 03/03/97

Parameter	Result	PQL	Units
Diesel Range Organics	ND	5.0	mg/kg

ND - Not Detected at Practical Quantitation Level (PQL)

Analyst WJB

Reviewed 

**LAB QA/QC
GASOLINE RANGE ORGANICS - GRO
INSTRUMENT BLANK**

Date Analyzed: 02/28/97
Lab ID: IBS97059A
Matrix: Water

Parameter	Result	PQL	Units
Gasoline Range Organics as Gasoline	ND	0.01	mg/L
Total Purgeable Hydrocarbons	ND	0.01	mg/L
QUALITY CONTROL - Surrogate Recovery	%	QC Limits	
Bromofluorobenzene	100	40 - 163	

ND - Not Detected at Practical Quantitation Level (PQL)

Analyst SD

Reviewed 

LAB QA/QC
GASOLINE RANGE ORGANICS - GRO
MATRIX SPIKE / MATRIX SPIKE DUPLICATE SUMMARY

1160 Research Drive
Bozeman, Montana 59718

Date Analyzed: 02/28/97
Lab ID: 0597H01016
Matrix: Sand
Date Extracted: 02/28/97

Original Sample Parameters

Parameter	Spike Added (mg/kg)	Sample Result (mg/kg)	Spike Result (mg/kg)	MS Recovery %	QC Limits Rec.
Gasoline Range Organics as Gasoline	25	0	14	56	52 - 117

Duplicate Sample Parameters

Parameter	Spike Added (mg/kg)	MSD Result (mg/kg)	MSD Recovery %	RPD %	QC Limits RPD Rec.
Gasoline Range Organics as Gasoline	25	16	64	13	25 52 - 117

Note: Spike Recoveries are calculated using zero for Sample result
if Sample result was less than PQL (Practical Quantitation Level).

Spike Recovery: 0 out of 2 outside QC limits.

RPD: 0 out of 1 outside QC limits.

Analyst SP

Reviewed 

LAB QA/QC
GASOLINE RANGE ORGANICS - GRO
LAB CONTROL SAMPLE


Date Analyzed: 02/28/97
Lab ID: LCS97059
Matrix: Sand
Date Extracted 02/28/97

Parameter	Spike Added (mg/kg)	Sample Result (mg/kg)	LCS Result (mg/kg)	LCS Recovery %	QC Limits Rec.
Gasoline Range Organics as Gasoline	25	0	20	80	52 -117

QUALITY CONTROL - Surrogate Recovery	%	QC Limits
Bromofluorobenzene	109	40 -163

Spike Recovery: 0 out of 1 outside QC limits.
Surrogates: Surrogate Recoveries within QC Limits.

Analyst SD

Reviewed 

LAB QA/QC
DIESEL RANGE ORGANICS - DRO
BLANK SPIKE / BLANK SPIKE DUPLICATE SUMMARY

Date Analyzed: 03/03/97
Lab ID: BSS970062
Matrix: Sand
Date Extracted: 03/03/97

Original Sample Parameters

Parameter	Spike Added (mg/kg)	Sample Result (mg/kg)	Spike Result (mg/kg)	BS Recovery %	QC Limits Rec.
Diesel Range Organics	25.5	0	15.5	61	50 - 150

Duplicate Sample Parameters

Parameter	Spike Added (mg/kg)	BSD Result (mg/kg)	BSD Recovery %	RPD %	QC Limits RPD Rec.
Diesel Range Organics	25.5	15.7	62	1	25 50 - 150

Note: Spike Recoveries are calculated using zero for Sample result
if Sample result was less than PQL (Practical Quantitation Level).

Spike Recovery: 0 out of 2 outside QC limits.

RPD: 0 out of 1 outside QC limits.

Analyst



Reviewed

