

District I
P.O. Box 1980, Hobbs, NM
District II
P.O. Drawer DD, Artesia, NM 88211
District III
1000 Rio Brazos Rd, Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

SUBMIT 1 COPY TO
APPROPRIATE
DISTRICT OFFICE
AND 1 COPY TO
SANTA FE OFFICE

PIT REMEDIATION AND CLOSURE REPORT

Operator : Synergy Operating, LLC Telephone: (505) 325-5449

Address: P.O. Box 5513 Farmington, NM 87499

Facility Or: Papers Wash Unit # 3

Well Name

Location: Unit or Qtr/Qtr Sec K Sec 15 T 19N R 5W County McKinley

Pit Type: Separator _____ Dehydrator _____ Other Earthen Reserve

Land Type: BLM _____ State _____ Fee _____ Other Navajo Allotted

Pit Location: Pit dimensions: Length 30 ft, width 40 ft, depth 5 ft
(Attach diagram)
Reference: wellhead X other _____
Footage from reference: 27 ft
Direction from reference: _____ Degrees _____ East North _____
_____ West South X

Depth to Ground Water: (vertical distance from contaminants to seasonal highwater elevation of ground water)	<u>>100 feet</u>	Less than 50 feet	(20 points)	
		50 ft to 99 feet	(10 points)	
	<u>X</u>	Greater than 100 feet	(0 points)	<u>0</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)	
	<u>X</u>	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)	
	<u>X</u>	Greater than 1000 feet	(0 points)	<u>0</u>

Distance to nearest ephemeral stream Greater than 10 feet in width		Less than 50 feet	(20 points)	
		Less than 100 feet	(10 points)	
	<u>X</u>	Greater than 100 feet	(0 points)	<u>0</u>

Date Remediation Started: 7/10/00 Date Completed: 7/10/00
Excavation X Approx. cubic yards 178
Landfarmed _____ Insitu Bioremediation _____
Other Diluted on location

Remediation Method: Onsite X Offsite _____
(Check all appropriate sections)

General Description of Remedial Action : On 7/10/00, the pit was excavated to a depth of 9 feet.
A soil sample was obtained from the center bottom of the pit at
a depth of 9 feet utilizing U.S.E.P.A. protocol and evaluated for GRO/DRO analysis.
Excavated soils were landfarmed on site. The remediation was tested and provided
concentrations below NMOCD and BLM guidelines.

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 Center Bottom

Sample depth 9 feet

Sample date 7/10/00

Sample time _____

Sample Results

Benzene(ppm) _____

Total BTEX (PPM) _____

Field Headspace (ppm) 16

TPH <40

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 9/7/2000 PRINTED NAME Frank McDonald

SIGNATURE [Signature] and TITLE Environmental Specialist

Client: Synergy Operating, LLC

Date Began: 7/10/2000 Date End: 7/10/2000

Location: <u>Papers Wash Unit # 3</u>		Site Diagram:
Lease # <u>NOOC-14-20-5377</u>		
Unit Letter: <u>"K"</u>	Sec. <u>15</u> Twn. <u>19N</u> Rng <u>5W</u>	
2310FSL & 2000FWL - McKinley County, NM		
Pit Reference from Wellhead:		
<u>27 ft South</u>		
Pit: <u>Reserve</u>		
Initial size: <u>30 ft x 40 ft x 5 ft deep</u>		
Final Size: <u>30 ft x 40 ft x 9 ft deep</u>		
Total Cubic Yards: <u>178</u>		
Distances from (ft):		
Groundwater:	<u>>100 ft</u>	
Wellhead Protection Area:	<u>>1000 ft</u>	
Nearest Surface Water:	<u>>1000 ft</u>	
Distance to ephemeral stream:	<u>>1000 ft</u>	
Ranking Score (points): <u>0</u>		
Sample ID	Sample Depth (ft)	OVM Reading
1	center bottom @ 9'	16 ppm
2	N wall @ 9'	6 ppm
3	E wall @ 9'	non-detect
4	S wall @ 9'	non-detect
5	W wall @ 9'	non-detect
6		
7		
8		
9		
10		
Comments:		
Topography is flat. Soil is a gray clay with some clay loam.		
Black staining occurs within the first 6-8 inches and was extracted for remediation on-site.		
No staining was encountered after the initial 8 inches.		
Sample from center bottom @ 8 ft sent to IML for 8015		

Environmental Specialist: FM



Inter-Mountain Laboratories, Inc.

Phone (505) 326-4737 Fax (505) 325-4182

2506 West Main Street, Farmington, NM 87401

Client: Synergy Operating, LLC

Project: Papers Wash #3 Pit

Sample ID: Center Bottom @ 9 ft

Lab ID: 0300W02752

Matrix: Soil

Condition: Intact

Date Reported: 07/24/00

Date Sampled: 07/10/00

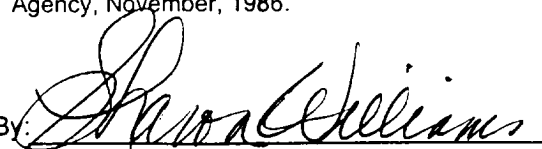
Date Received: 07/10/00

Parameter	Analytical Result	PQL	Units
DRO - Method 8015AZ			
Diesel Range Organics (C10 - C22)	<20	20	mg/Kg
Diesel Range Organics as Diesel	<20	20	mg/Kg

Quality Control - Surrogate Recovery	%	QC Limits
o-Terphenyl(SUR-8015)	97	70 - 130

Reference: SW-846 - "Test Methods for Evaluating Solid Waste: Physical/Chemical Methods", United States Environmental Protection Agency, November, 1986.

Reviewed By:


Sharon Williams, Organic Lab Supervisor



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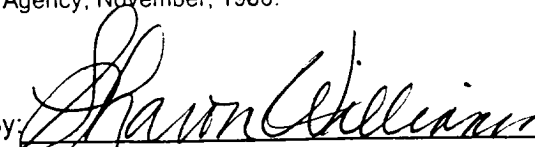
Date Reported: 07/24/00
Date Sampled: 07/10/00
Date Received: 07/10/00

Parameter	Analytical Result	PQL	Units
GRO - METHOD 8015AZ			
Gasoline Range Organics(C6-C10)	<20	20	mg/Kg
Gasoline Range Organics as Gasoline	<20	20	mg/Kg

Quality Control - Surrogate Recovery	%	QC Limits
4-Bromofluorobenzene(SUR-8015B)	119	70 - 130
a,a,a-Trifluorotoluene(SUR-8015)	123	70 - 130

Reference: SW-846 - "Test Methods for Evaluating Solid Waste: Physical/Chemical Methods", United States Environmental Protection Agency, November, 1986.

Reviewed By:


Sharon Williams, Organic Lab Supervisor



Inter Mountain
Laboratories, Inc.

CHAIN OF CUSTODY RECORD

Client/Project Name		Project Location		ANALYSES / PARAMETERS	
Sample: (Signature) <i>[Signature]</i>		Chain of Custody Tape No.		Remarks	
Sample No./ Identification	Date	Time	Lab Number	Matrix	No. of Containers
<i>10000000</i>	<i>9/10/00</i>	<i>11:57</i>	<i>11002-1520</i>	<i>Soil</i>	<i>1</i>
<i>[Large diagonal line across the table]</i>					
Relinquished by: (Signature) <i>[Signature]</i>	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature) <i>[Signature]</i>	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature) <i>[Signature]</i>	Date	Time	Received by: (Signature)	Date	Time

Inter-Mountain Laboratories, Inc.

☐ 555 Absaraka
Sheridan, Wyoming 82801
Telephone (307) 674-7506

☐ 1633 Terra Avenue
Sheridan, Wyoming 82801
Telephone (307) 672-8945

☐ 1701 Phillips Circle
Gillette, Wyoming 82718
Telephone (307) 682-8945

☐ 2506 West Main Street
Farrington, NM 87401
Telephone (505) 326-4737

☐ 11183 State Hwy. 30
College Station, TX 77845
Telephone (979) 776-8945

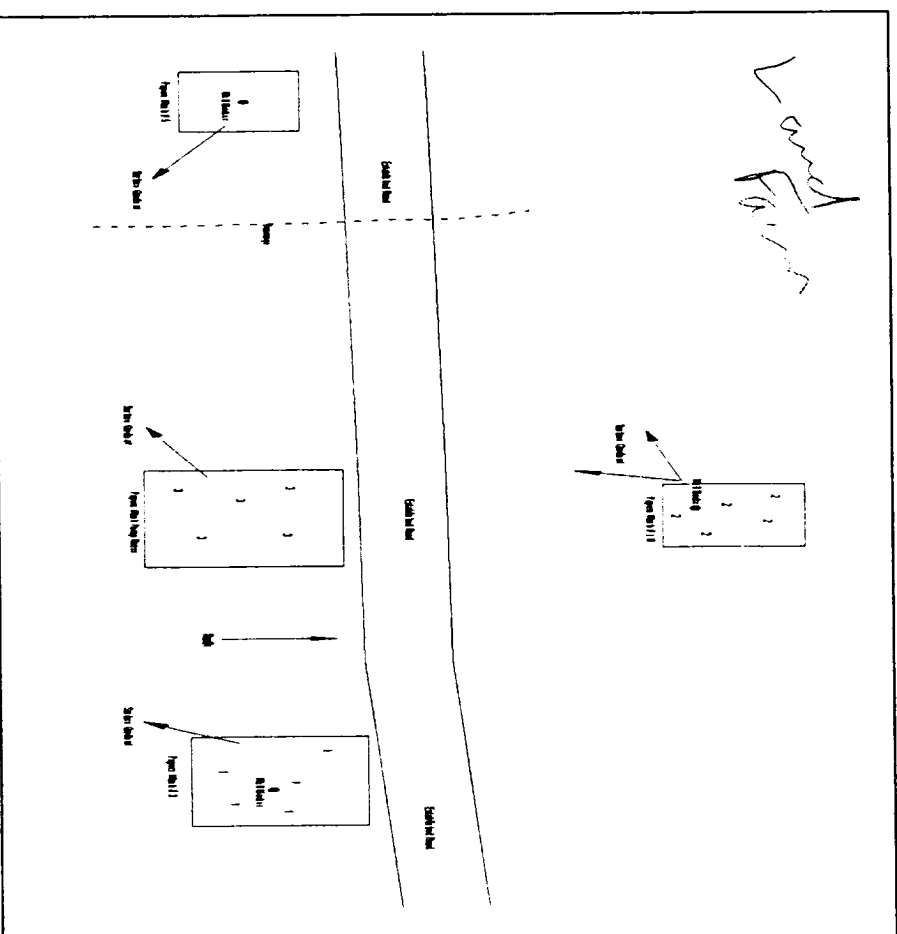
075415

Client: Synergy Operating, LLC

Date Began: 7/11/2000 Date End: 7/22/2000

Location: <u>Papers Wash Unit Remediation (Navajo)</u>		
Unit Letter: <u></u>	Sec. <u>15</u> Twn. <u>19N</u> Rng <u>5W</u>	
Lease # <u>N00C-14-20-5377</u>		
Pit Reference from Wellhead: <u></u>		
Pit: <u></u>		
Landfarm size: <u>150' x 150' x 3" deep</u>		
Total # of 5-point composite samples <u>1</u>		
Total Cubic Yards: <u>200</u>		
Distances from (ft):		
Groundwater:	<u>>100 ft</u>	
Wellhead Protection Area:	<u>>1000 ft</u>	
Nearest Surface Water:	<u>>1000 ft</u>	
Distance to ephemeral stream:	<u>>1000 ft</u>	
Ranking Score (points): <u>0</u>		
Sample ID	Sample Depth (ft)	OVM Reading
1	1" to 3"	15 ppm
2	1" to 3"	non-detect
3	1" to 3"	non-detect
4		
5		
6		
7		
8		
9		
10		
Comments:		
<u>Topography is flat. Soil is a brown sand with some clay loam.</u>		
<u>Sample from # 1 5-point composite sent to IML for 8015</u>		

Site Diagram:



Not to Scale

Environmental Specialist: FM

Biosphere Environmental Sciences Technologies



Inter-Mountain Laboratories, Inc.

Phone (505) 326-4737 Fax (505) 325-4182

2506 West Main Street, Farmington, NM 87401

Client: Synergy Operating, LLC
Project: Papers Wash Navajo Remediation
Sample ID: Navajo Remediation
Lab ID: 0300W02993
Matrix: Soil
Condition: Cool/Intact

Date Reported: 08/08/00
Date Sampled: 07/22/00
Date Received: 07/24/00

Parameter	Analytical Result	PQL	Units
DRO-Method 8015AZ			
Diesel Range Organics (C10 - C22)	440	20	mg/Kg
Diesel Range Organics as Diesel	440	20	mg/Kg
Quality Control - Surrogate Recovery		QC Limits	
o-Terphenyl(SUR-8015)	82	70 - 130	

Reference: SW-846 - "Test Methods for Evaluating Solid Waste: Physical/Chemical Methods", United States Environmental Protection Agency, November, 1986.

Reviewed By: 

William Lipps



Inter-Mountain Laboratories, Inc.

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2506 West Main Street, Farmington, NM 87401

Client: Synergy Operating, LLC
Project: Papers Wash Navajo Remediation
Sample ID: Navajo Remediation
Lab ID: 0300W02993
Matrix: Soil
Condition: Cool/Intact

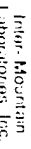
Date Reported: 08/08/00
Date Sampled: 07/22/00
Date Received: 07/24/00

Parameter	Analytical Result	PQL	Units
GRO - METHOD 8015AZ			
Gasoline Range Organics(C6-C10)	<5	5	mg/Kg
Gasoline Range Organics as Gasoline	<5	5	mg/Kg
Quality Control - Surrogate Recovery		QC Limits	
4-Bromofluorobenzene(SUR-8015B)	88	70 - 130	
Total Purgeable Hydrocarbons	0		

Reference: SW-846 - "Test Methods for Evaluating Solid Waste: Physical/Chemical Methods", United States Environmental Protection Agency, November, 1986.

Reviewed By: 

William Lipps



CHAIN OF CUSTODY RECORD

[illegible]

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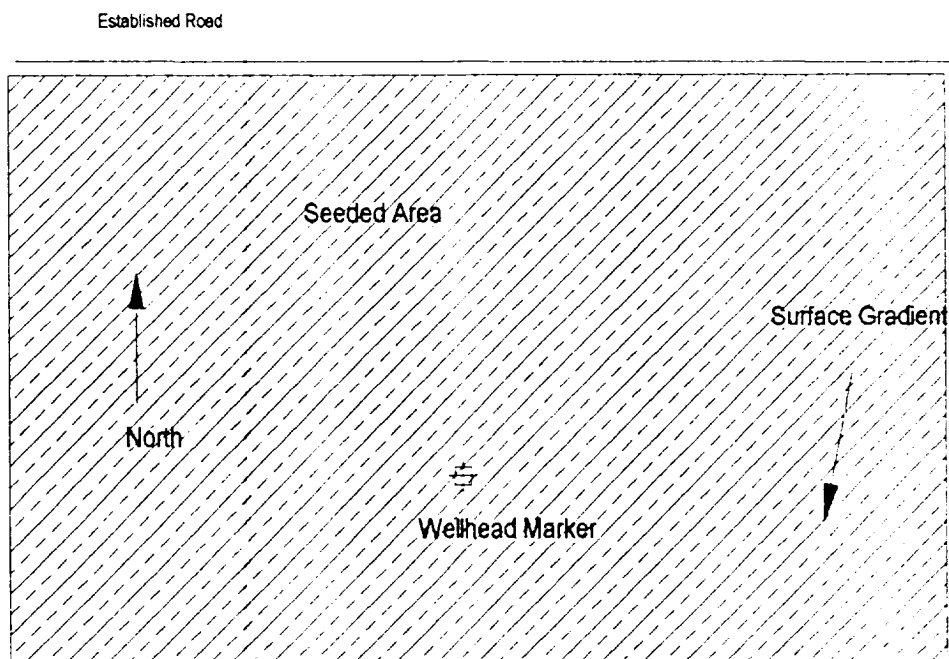
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College Station, TX 77845
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(NOT TO SCALE)

Company: Synergy Operating, LLC

Location: Papers Wash Unit # 3

Legal Description: 2310' FSL & 2000' FWL ("K"), Section 15, T19 N, R5W, NMPM

County: McKinley

State: NM

Lease #: NOOC-14-20-5377

Area Seeded: Approximately 2 acre

Seed Mix: BLM Mix # 6 (BIA)

Seed Rate: 8 PLS Lbs/ Acre

Seed Process: Drill X Hand Other

Seed Bag Number: 1

Date of Seeding: August 4, 2000

Was location ripped before seeding? Yes X No If No, describe

Topography: Flat

Comments: