

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

JK

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 # 5
Well Name _____
Location: Unit or Qtr/Qtr Sec N Sec 15 T 12N R 5W County McKinley
Pit Type: Separator _____ Dehydrator _____ Other Earthen Reserve
Land Type: BLM _____, State _____, Fee _____, Other Navajo Allotted

Pit Location: Pit dimensions: Length 20 ft, width 20 ft, depth 4 ft
(Attach diagram)
Reference: wellhead X other _____
Footage from reference: 40 ft
Direction from reference: _____ Degrees _____ East North _____
_____ West South X

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

Wellhead Protection Area:		_____	Yes	(20 points)	
(less than 200 feet from a private		<u>X</u>	No	(0 points)	<u>0</u>
domestic water source, or: less than					
1000 feet from all other water sources).					

Distance to Surface Water:		_____	Less than 200 feet	(20 points)	
(Horizontal distance to perennial		_____	200 feet to 1000 feet	(10 points)	
lakes, ponds, rivers, streams, creeks,		<u>X</u>	Greater than 1000 feet	(0 points)	<u>0</u>
irrigation canals and ditches.)					

Distance to nearest ephemeral stream		_____	Less than 50 feet	(20 points)	
Greater than 10 feet in width		_____	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 15
Landfarmed _____ Insitu Bioremediation _____
Other Transported to Papers Wash Unit # 3

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

General Description of Remedial Action The reserve pit was sampled 4 feet below pit bottom. Each Side was sampled 4 feet below pit bottom. Black staining occurred within the first Foot of excavation. The black stained soil was excavated and transported to the papers Wash Unit # 3 for remediation. Samples provided results exceeding, Navajo EPA, 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 8 feet

Sample date 7/10/00

Sample time _____

Sample Results

Benzene(ppm) _____

Total BTEX (PPM) _____

Field Headspace (ppm) 65

TPH <115

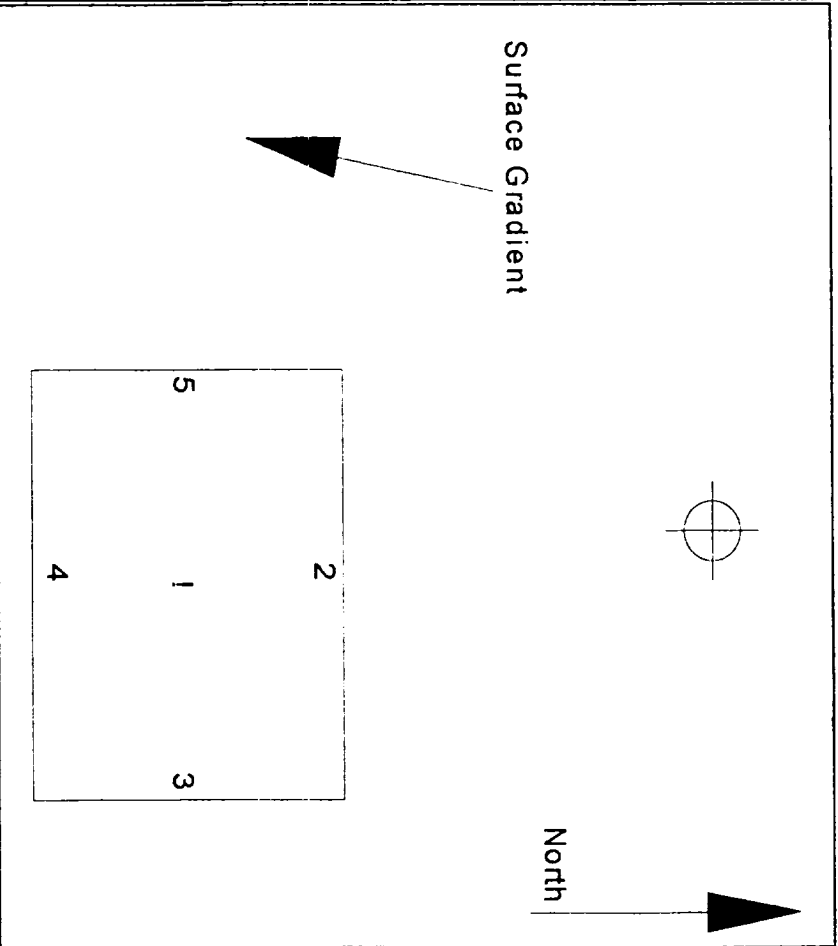
Ground Water Sample: Yes _____ No X (if yes, attach sample results)

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

DATE 9/4/2000 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: Papers Wash Unit # 5		Site Diagram: 																																	
Lease # NOOC-14-20-5377 Sec. 15 Twn. 19N Rng 5W																																			
Unit Letter: "N"																																			
890'FNL & 1650'FWL - McKinley County, NM																																			
Pit Reference from Wellhead:																																			
40 ft South																																			
Pit: Reserve																																			
Initial size: 20 ft x 20 ft x 4 ft deep																																			
Final Size: 20 ft x 20 ft x 5 ft deep																																			
Total Cubic Yards:		15																																	
Distances from (ft):																																			
Groundwater:		>100 ft																																	
Wellhead Protection Area:		>1000 ft																																	
Nearest Surface Water:		>1000 ft																																	
Distance to ephemeral stream:		>1000 ft																																	
Ranking Score (points):		0																																	
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Sample ID</th> <th>Sample Depth (ft)</th> <th>OVM Reading</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>cenetr bottm @ 8'</td> <td>55 ppm</td> </tr> <tr> <td>2</td> <td>N wall @ 8'</td> <td>10 ppm</td> </tr> <tr> <td>3</td> <td>E wall @ 8'</td> <td>non-detect</td> </tr> <tr> <td>4</td> <td>S wall @ 8'</td> <td>18 ppm</td> </tr> <tr> <td>5</td> <td>W wall @ 8'</td> <td>3 ppm</td> </tr> <tr> <td>6</td> <td></td> <td></td> </tr> <tr> <td>7</td> <td></td> <td></td> </tr> <tr> <td>8</td> <td></td> <td></td> </tr> <tr> <td>9</td> <td></td> <td></td> </tr> <tr> <td>10</td> <td></td> <td></td> </tr> </tbody> </table>			Sample ID	Sample Depth (ft)	OVM Reading	1	cenetr bottm @ 8'	55 ppm	2	N wall @ 8'	10 ppm	3	E wall @ 8'	non-detect	4	S wall @ 8'	18 ppm	5	W wall @ 8'	3 ppm	6			7			8			9			10		
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5	W wall @ 8'	3 ppm																																	
6																																			
7																																			
8																																			
9																																			
10																																			
Comments: Topography is flat. Soil is a gray clay with some clay loam. Black staining occurs within the first 8 inches and was extracted for remediation at the Papers Wash Unit # 3. 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) 325-4152

2506 West Main Street, Farmington, NM 87401

Client: Synergy Operating, LLC

Project: Papers Wash #5 Pit

Sample ID: Center Bottom @ 8 ft

Lab ID: 0300W02750

Matrix: Soil

Condition: Intact

Date Reported: 07/24/00

Date Sampled: 07/10/00

Date Received: 07/10/00

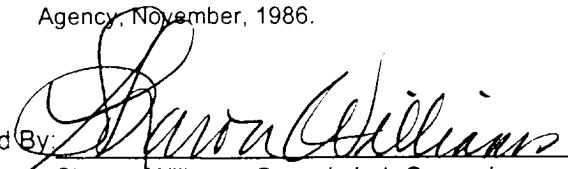
Date Analyzed: 07/21/00

Parameter	Analytical Result	PQL	Units
DRO - Method 8015AZ			
Diesel Range Organics (C10 - C22)	95	20	mg/Kg
Diesel Range Organics as Diesel	95	20	mg/Kg

Quality Control - Surrogate Recovery	%	QC Limits
o-Terphenyl(SUR-8015)	115	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.

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

2506 West Main Street, Farmington, NM 87401

Client: Synergy Operating, LLC

Project: Papers Wash #5 Pit

Sample ID: Center Bottom @ 8 ft

Lab ID: 0300W02750

Matrix: Soil

Condition: Intact

Date Reported: 07/24/00

Date Sampled: 07/10/00

Date Received: 07/10/00

Date Analyzed: 07/18/00

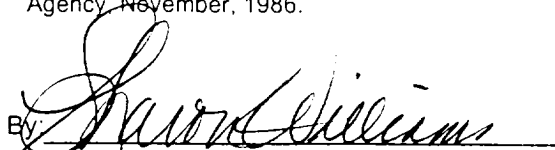
Parameter	Analytical Result	PQL	Units
GRO - METHOD 8015AZ			
Gasoline Range Organics(C6-C10)	<20	20	mg/Kg
Gasoline Range Organics as Gasoline	<20	20	mg/Kg

Quality Control - Surrogate Recovery	%	QC Limits
4-Bromofluorobenzene(SUR-8015B)	65 **	70 - 130
a,a,a-Trifluorotoluene(SUR-8015)	112	70 - 130

** - Surrogate Recovery failed QC Limits due to matrix interference.

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

Reviewed By:


Sharon Willams, Organic Lab Supervisor



CHAIN OF CUSTODY RECORD

Client/Project Name		Project Location		Analyses / Parameters							
BES7		At 5 pit									
Sampler: (Signature)		Chain of Custody Tape No.		Remarks							
15-16-1-10				5108							
Sample No./ Identification	Date	Time	Lab Number	Matrix	No. of Containers						
15-16-1-10	10/26/00	10:36	11127150	Soil	1						
210											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)							
15-16-1-10		10/26/00	10:35	15-16-1-10							
Relinquished by: (Signature)		Date	Time	Received by: (Signature)							
15-16-1-10				15-16-1-10							
Relinquished by: (Signature)		Date	Time	Received by laboratory: (Signature)							
15-16-1-10				15-16-1-10							

☐ 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
Farmington, NM 87401
Telephone (505) 326-4737

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

Inter-Mountain Laboratories, Inc.

67547

Client: Synergy Operating, LLC

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

Location: <u>Papers Wash Unit Remediation (Navajo)</u>		Site Diagram:	
Unit Letter: <u>Sec. 15 Twn. 19N Rng 5W</u>		Not to Scale	
Lease # <u>N00C-14-20-5377</u>			
Pit Reference from Wellhead:			
Pit:			
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:
 Topography is flat. Soil is a brown sand with some clay loam.
 Sample from # 1 5-point composite 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 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.

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

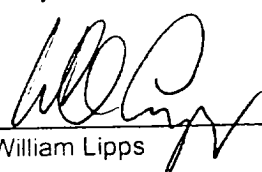
2506 West Main Street, Farmington, NM 87401

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
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

Inter-Mountain
Laboratories, Inc.

Client/Project Name

Sample Identification

Chain of Custody Tape No.

Project Location

Matrix

No. of Containers

ANALYSES / PARAMETERS

Remarks

Sample No./

Date

Time

Lab Number

Matrix

No. of Containers

ANALYSES / PARAMETERS

Remarks

Relinquished by: (Signature)

Relinquished by: (Signature)

Relinquished by: (Signature)

Date

Time

Received by: (Signature)

Date

Time

Received by: (Signature)

Date

Time

Received by laboratory: (Signature)

Date

Time

Date

Time

Date

Time

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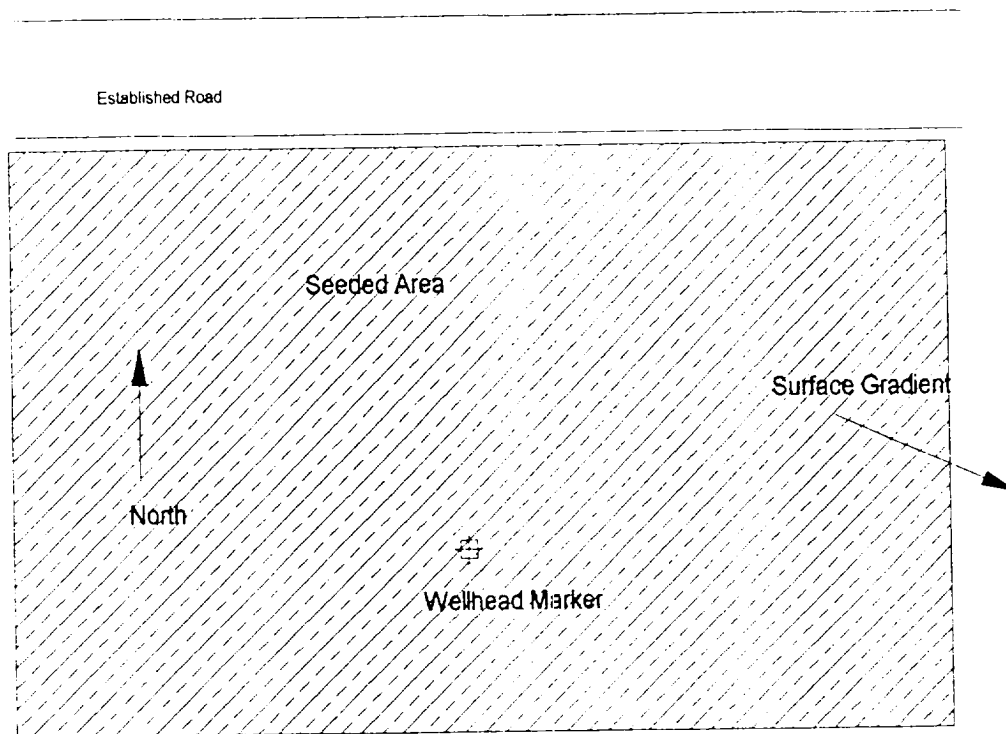
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Telephone (505) 326-4737

☐ 11183 State Hwy. 30
College Station, TX 77845
Telephone (409) 776-8945

65189



Company: Synergy Operating, LLC

Location: Papers Wash Unit # 5

Legal Description: 890' FSL & 1650' FWL ("N"), Section 15, T19 N, R5W, NMPM

County: McKinley

State: NM

Lease #: NOOC-14-20-5377

Area Seeded: Approximately 1 acre

Seed Mix: BLM Mix # 6 (BIA)

Seed Rate: 8 PLS Lbs/ Acre

Seed Process: Drill X Hand Other

Seed Bag Number: 2

Date of Seeding: August 4, 2000

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

Topography: Flat

Comments: