

District I
P.O. Box 1000 Santa Fe, N.M. 87504
District II
DEPUTY OIL & GAS INSPECTOR
District III
1000 Rio Brazo S.E. Santa Fe, N.M. 87504

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

Approved

PIT REMEDIATION AND CLOSURE REPORT

Operator: Louis Dreyfus Natural Gas Telephone: (915) 387-5355

Address: P.O. Box 525 Sonora, Tx. 76950

Facility Or: Mudge "A" #5
Well Name

Location: Unit or Qtr/Qtr Sec 650'S/990'E Sec 6 T 27N R 11W County San Juan

Pit Type: Separator X Dehydrator Other

Land Type: BLM X, State , Fee , Other

Pit Location: Pit dimensions: length 21, width 23, depth 7
(Attach diagram)

Reference: wellhead X, other

Footage from reference: 12 feet

Direction from reference: 348 Degrees East North X
of
X West South

Depth To Ground Water:
(Vertical distance from
contaminants to seasonal
high water elevation of
ground water)

Less than 50 feet (20 points)
50 feet to 99 feet (10 points)
Greater than 100 feet (0 Points) 0

Wellhead Protection Area:
(Less than 200 feet from a private
domestic water source, or; less than
1000 feet from all other water sources)

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Yes (20 points)
No (0 points) 0

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)
Greater than 1000 feet (0 points) 0

Date Remediation Started: 2-27-96

Dated Completed: 2-28-96

Remediation Method: Excavation X

Approx. cubic yards 526

(Check all appropriate sections)

Landfarmed

Insitu Bioremediation

Other

Remediation Location: Onsite X Offsite

(ie. landfarmed onsite, name and location of offsite facility)

General Description Of Remedial Action:

Contamination was remediated by Dilution and Aeration.

This report is for re-sample of completed remediation.

Ground Water Encountered:

No X

Yes

Depth

Final Pit:

Sample location See Attached

Closure Sampling:

(if multiple samples, attach sample results and diagram of sample locations and depths)

Sample depth See Attached

Sample date 7-9-97

Sample time

Sample Results

Benzene(ppm) See Attached

Total BTEX(ppm) See Attached

Field headspace(ppm) See Attached

TPH See Attached

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

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

DATE 7-21-97

SIGNATURE

Tommy H. Arnwine

PRINTED NAME Tommy H. Arnwine A.S.P.
AND TITLE Environmental & Safety Director

LOUIS DREYFUS NATURAL GAS
SAN JUAN COUNTY, NEW MEXICO
MUDGE "A" #5
1650'S/990'E S6 T27N R11W

Plastic
Tank

Separator

Separator
Pit

12' 348' NW

Wellhead

Original Pit Excavation:
Length 21ft., Width 23 ft., Depth 7 ft.

Re-Samples taken at:
4 feet and 10 feet

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

Mudge "A" 5
4 ft.

EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Louis Dreyfus Natural Gas	Project #:	97300-26
Sample ID:	3	Date Reported:	07-10-97
Laboratory Number:	B630	Date Sampled:	07-09-97
Chain of Custody:	5302	Date Received:	07-09-97
Sample Matrix:	Soil	Date Analyzed:	07-10-97
Preservative:	Cool	Date Extracted:	07-09-97
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	8.8
Toluene	ND	8.4
Ethylbenzene	ND	7.6
p,m-Xylene	12.4	10.8
o-Xylene	12.3	5.2
Total BTEX	24.7	

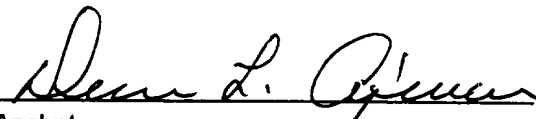
ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	98 %
	Bromofluorobenzene	98 %

References: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1994.

Comments: NAPI.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

Mudge "A" 5
16 ft.

EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Louis Dreyfus Natural Gas	Project #:	97300-26
Sample ID:	4	Date Reported:	07-10-97
Laboratory Number:	B631	Date Sampled:	07-09-97
Chain of Custody:	5302	Date Received:	07-09-97
Sample Matrix:	Soil	Date Analyzed:	07-10-97
Preservative:	Cool	Date Extracted:	07-09-97
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	8.8
Toluene	ND	8.4
Ethylbenzene	ND	7.6
p,m-Xylene	22.5	10.8
o-Xylene	15.4	5.2
Total BTEX	37.9	

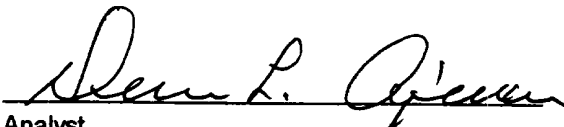
ND - Parameter not detected at the stated detection limit.

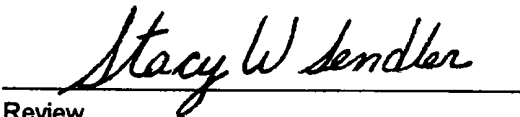
Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	101 %
	Bromofluorobenzene	101 %

References: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1994.

Comments: NAPI.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Mudc "A" 5
4 ft.

Client:	Louis Dreyfus Natural Gas	Project #:	97300-26
Sample ID:	3	Date Reported:	07-10-97
Laboratory Number:	B630	Date Sampled:	07-09-97
Chain of Custody No:	5302	Date Received:	07-09-97
Sample Matrix:	Soil	Date Extracted:	07-10-97
Preservative:	Cool	Date Analyzed:	07-10-97
Condition:	Cool and Intact	Analysis Needed:	TPH-418.1

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	ND	5.0

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: NAPI.

Christine Walters
Analyst

Stacy Wender
Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

Mudge "A" 5
10 ft.
EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Client:	Louis Dreyfus Natural Gas	Project #:	97300-26
Sample ID:	4	Date Reported:	07-10-97
Laboratory Number:	B631	Date Sampled:	07-09-97
Chain of Custody No:	5302	Date Received:	07-09-97
Sample Matrix:	Soil	Date Extracted:	07-10-97
Preservative:	Cool	Date Analyzed:	07-10-97
Condition:	Cool and Intact	Analysis Needed:	TPH-418.1

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	ND	5.0

ND = Parameter not detected at the stated detection limit.

References: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978.

Comments: NAPI.

Christine Walter
Analyst

Stacy W Sandler
Review