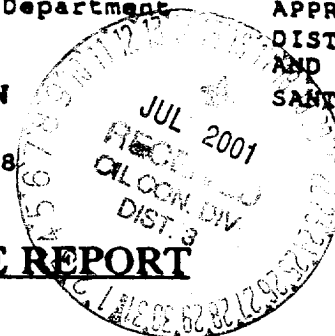


District I
P.O. Box 1980, Hobbs, NM
District II
P.O. Drawer DD, Artesia, NM 88211
District III
1000 Rio Brazos Rd, Aztec, NM 87410

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: Nerdlihc - ~~AAA Development~~ - NMOC D Telephone: 505-334-6178

Address: 1000 Rio Brazos Rd, AZTEC, NM, 87410

Facility or: Nerdlihc - Bullseye #15
Well Name

Location: Unit or Qtr/Qtr Sec P Sec 13 T 16N R 10W County McKinley

Pit Type: Separator Dehydrator Other produced water

Land Type: BLM , State , Fee X, Other

Pit Location: Pit dimensions: length 40, width 12, depth 6
(Attach diagram)

Reference: wellhead X, other

Footage from reference: 175'

Direction from reference: 0 Degrees X East North
of
 West South X

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)

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

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: 01-15-01 Dated Completed: 03-07-01

Remediation Method: Excavation X
(Check all appropriate sections)

Approx. cubic yards 60cy.

Landfarmed X

Insitu Bioremediation

Other

Remediation Location: Onsite X Offsite
(ie. landfarmed onsite, name and location of offsite facility)

General Description Of Remedial Action: Remove oily dirt from bottom of pit. Excavate 2'-3' THICKNESS of Contaminated soil from bottom of pit. SHALE Bedrock under bottom. Move contaminated soil to onsite Landfarm. Tilled after removing debris and large rocks

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 5 point Composite from four sides and center of pit.

Sample depth ± 8 Below Natural Grade

Sample date 3-12-01

Sample time 14:50

Sample Results

Benzene(ppm) ND

Total BTEX(ppm) 0.618

Field headspace(ppm) N/A

TPH 222

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 03-16-01

SIGNATURE Harlan M. Brown

PRINTED NAME
AND TITLE

HARLAN M. BROWN

GEOLOGIST / Hydrogeologist

CLIENT A Plus / NMOC
NEEDLINE LEASE

ENVIROTECH Inc.

5796 US HWY. 64, FARMINGTON, NM 87401
(505) 632-0615

PIT NO: _____

C.O.C. NO: 8546
Sample ID 19370

FIELD REPORT: CLOSURE VERIFICATION

JOB No: 99042-002

PAGE No: 1 of 1

LOCATION: NAME: Bullseye WELL #: 15 PIT: Produced Water
QUAD/UNIT: P SEC: 13 TWP: 16N RNG: 10W BM: _____ CNTY: MR ST: NM
QTR/FOOTAGE: _____ CONTRACTOR: ENVIROTECH

DATE STARTED: 01-15-01
DATE FINISHED: 03-07-01

ENVIRONMENTAL
SPECIALIST: HMB

SOIL REMEDIATION: EXCAVATION APPROX. 12' FT. x 40' FT. x 3' FT. DEEP.
DISPOSAL FACILITY: ONSITE LANDFARM CUBIC YARDAGE: 60 cy.
LAND USE: RANGE LEASE: Fee

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY _____ FEET _____ FROM WELLHEAD.

DEPTH TO GROUNDWATER: 7100 NEAREST WATER SOURCE: 71000 NEAREST SURFACE WATER: 71000

NMOC RANKING SCORE: 0 NMOC TPH CLOSURE STD: 5000 PPM

SOIL AND EXCAVATION DESCRIPTION:

SANDY SHALE surface to 3' below pit surface. SHALY SAND-
stone bedrock
Loose soil in bottom of pit very oily appearance
Removed oily soil from bottom of pit and this spread
in on-site LANDFARM.

FIELD 418.1 CALCULATIONS

SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm

SCALE

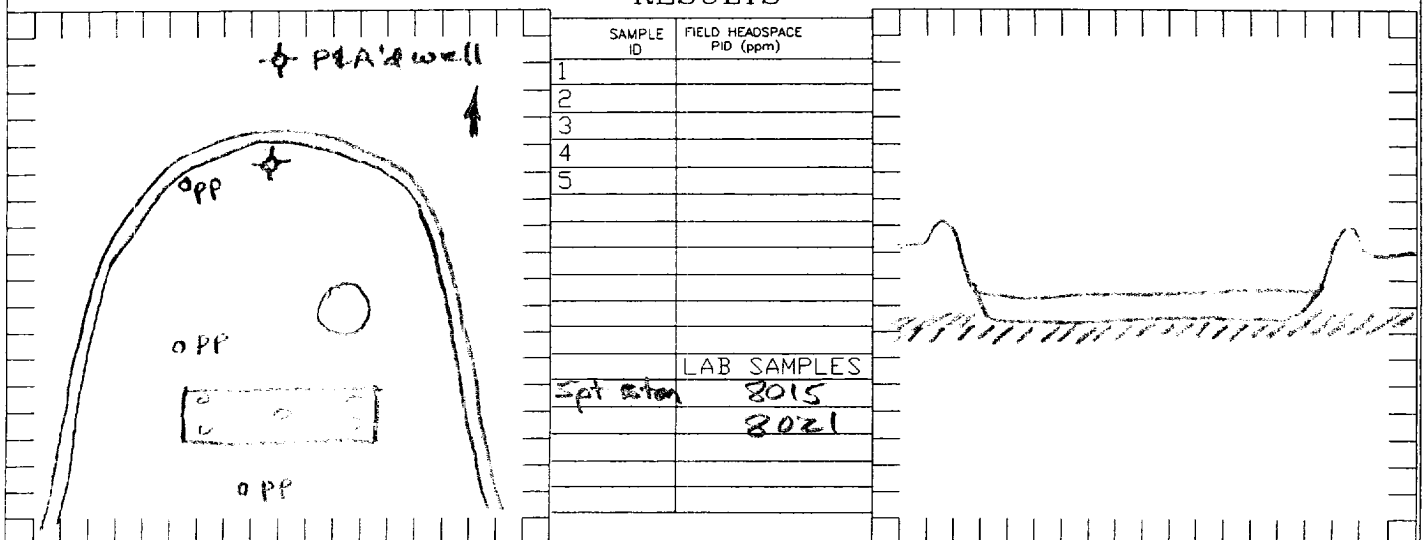


0

FEET
PIT PERIMETER

OVM
RESULTS

PIT PROFILE



TRAVEL NOTES:

CALLOUT: _____

ONSITE: _____

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	A Plus / NMOCD	Project #:	99042-002
Sample ID:	Bullseye #5 @ 8' BNG	Date Reported:	03-14-01
Laboratory Number:	19370	Date Sampled:	03-12-01
Chain of Custody:	8546	Date Received:	03-12-01
Sample Matrix:	Soil	Date Analyzed:	03-14-01
Preservative:	Cool	Date Extracted:	03-14-01
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	1.8
Toluene	50.4	1.7
Ethylbenzene	92.9	1.5
p,m-Xylene	249	2.2
o-Xylene	226	1.0
Total BTEX	618 <i>ppb</i>	

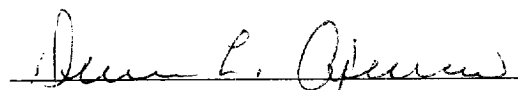
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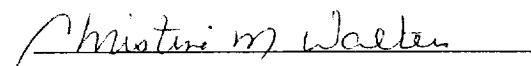
Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	100 %
	Bromofluorobenzene	100 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Nerdlihc Bedrock.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

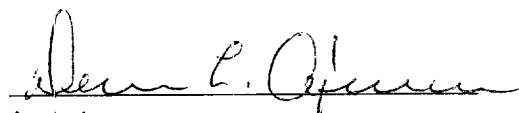
Client:	A Plus / NMOCD	Project #:	99042-002
Sample ID:	Bullseye #5 @ 8' BNG	Date Reported:	03-14-01
Laboratory Number:	19370	Date Sampled:	03-12-01
Chain of Custody No:	8546	Date Received:	03-12-01
Sample Matrix:	Soil	Date Extracted:	03-14-01
Preservative:	Cool	Date Analyzed:	03-14-01
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

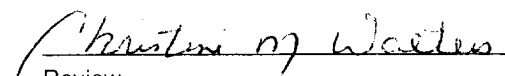
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	9.6	0.2
Diesel Range (C10 - C28)	212	0.1
Total Petroleum Hydrocarbons	222	0.1

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Nerdlihc Bedrock.**


Analyst


Review

08546

[illegible]

ENVIROTECH Inc.

5796 US HWY. 64, FARMINGTON, NM 87401
(505) 632-0615

PIT No: _____
C.O.C #: 9265

FIELD REPORT: REMEDIATION FACILITY CLOSURE VERIFICATION

JOB No: 99042-002
PAGE No: 1 of 1

FACILITY LOCATION: Nordline Bullseye #15, P Sec 13, T16N, R10W
SOURCE LOCATION: produced water pit.
SOURCE LOCATION: _____
SOURCE LOCATION: _____
FACILITY CLASSIFICATION: ON-SITE LANDFARM PIT TYPE: Produced water

DATE STARTED: 01-15-01
DATE FINISHED: 06-22-01

ENVIRONMENTAL
SPECIALIST: HMB

SOIL REMEDIATION: QUANTITY: 60 cy # OF COMP. SAMPLES: 1
DIMENSIONS: 75' X 115'
VISIBLE OBSERVATIONS: Tilled when wet; hard SANDY SHALE
SAMPLING PLAN: 5 pt. composite

FIELD NOTES & REMARKS: FACILITY CENTER LOCATED APPROX 1 YARDS S FROM WELLHEAD.

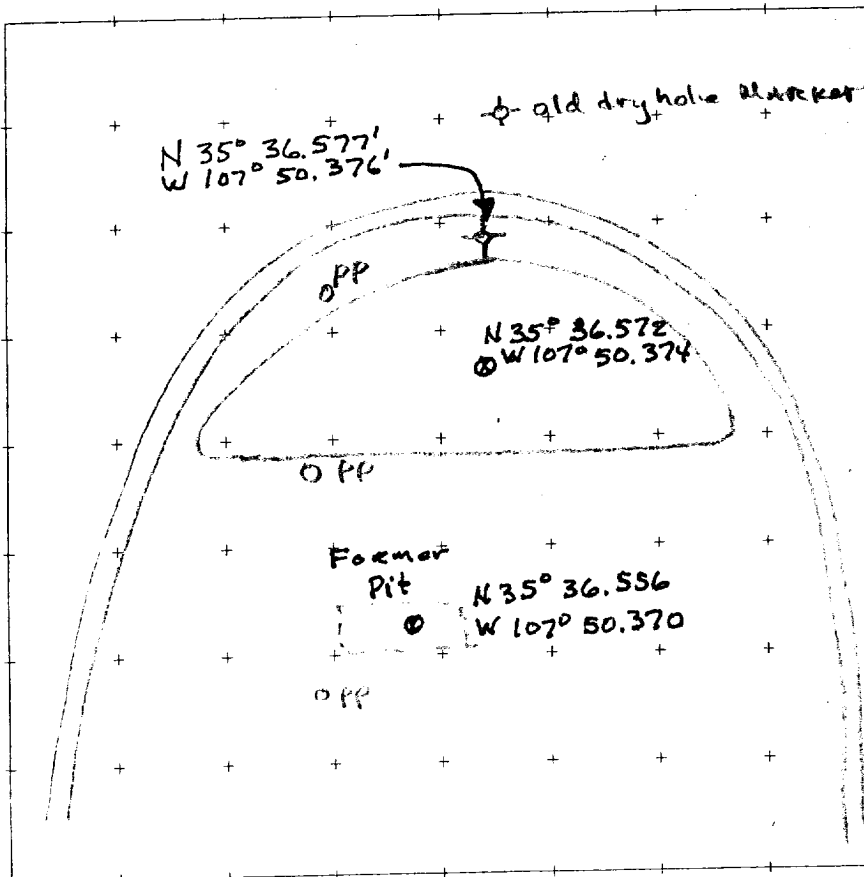
DEPTH TO GROUNDWATER: >100
NEAREST WATER SOURCE/TYPE: >1000
NEAREST SURFACE WATER: >1000
MAX TPH PER NMOC: 5000

Surface of Landfarm very dry
hard clods. Minor oil spots in
Tilled material

No. OF 5-POINT
COMPOSITE SAMPLES:
YARDAGE--#
0-200=1
201-400=2
401-1000=3
>1000=5

FACILITY DIAGRAM

GRID SCALE:

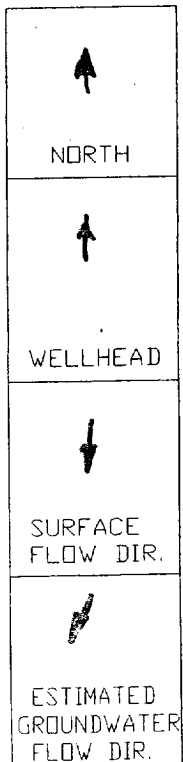


OVN RESULTS

SAMPLE ID:	FIELD HEADSPACE PID (ppm)

LAB RESULTS

SAMPLE ID:	ANALYSIS REQUESTED:	RESULTS PPM:



ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

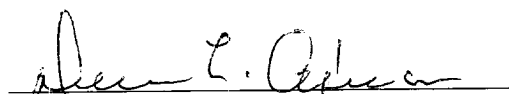
Client:	A Plus Well Service	Project #:	99042-002
Sample ID:	Bullseye #15	Date Reported:	06-27-01
Laboratory Number:	20126	Date Sampled:	06-22-01
Chain of Custody No:	9265	Date Received:	06-22-01
Sample Matrix:	Soil	Date Extracted:	06-25-01
Preservative:	Cool	Date Analyzed:	06-27-01
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

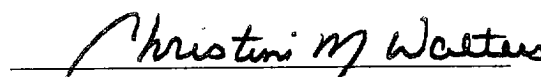
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	2.7	0.2
Diesel Range (C10 - C28)	2,530	0.1
Total Petroleum Hydrocarbons	2,530	0.1

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Nerdlihc on-site Landfarm 5 Pt. Composite.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	A Plus Well Service	Project #:	99042-002
Sample ID:	Bullseye #15	Date Reported:	06-27-01
Laboratory Number:	20126	Date Sampled:	06-22-01
Chain of Custody:	9265	Date Received:	06-22-01
Sample Matrix:	Soil	Date Analyzed:	06-27-01
Preservative:	Cool	Date Extracted:	06-25-01
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	3.5
Toluene	3.8	3.3
Ethylbenzene	14.5	3.0
p,m-Xylene	ND	4.3
o-Xylene	2.7	2.1
Total BTEX	21.0	

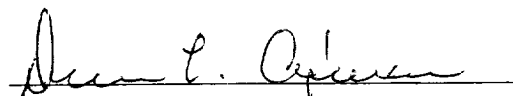
ND - Parameter not detected at the stated detection limit.

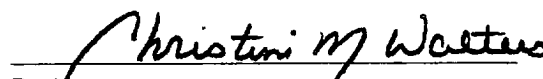
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	100 %
	1,4-difluorobenzene	100 %
	Bromochlorobenzene	100 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Nerdlihc on-site Landfarm 5 Pt. Composite.


Analyst


Review

CHAIN OF CUSTODY RECORD

09265

Client / Project Name				Project Location		ANALYSIS / PARAMETERS																		
A Plus Well Service				VEROLITE																				
Sampler: HARLAN M. BROWN				Client No. 99042-002																				
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	8015	TP4	8021	BTX						Remarks									
Bullseye #15	6-22-01	11:35	20126	Soil	1	✓		✓							ON-SITE Landfarm									
Marcellina #1	6-22-01	11:45	20127	Soil	1	✓		✓							ON-SITE Landfarm									
Bullseye Tank #1	6-22-01	12:00	20128	Soil	1	✓		✓							ON-SITE Landfarm									
Bullseye #7	6-22-01	12:23	20129	Soil	1	✓		✓							LANDFARM FOR TANK BATTERY SOIL									
Bullseye 1Y	6-22-01	12:35	20130	Soil	1	✓		✓							ON-SITE Landfarm									
Bullseye #3	6-22-01	12:52	20131	Soil	1	✓		✓							ON-SITE Landfarm									
Bullseye #12	6-22-01	13:04	20132	Soil	1	✓		✓							ON-SITE Landfarm									
Bullseye #16	6-22-01	13:18	20133	Soil	1	✓		✓							ON-SITE Landfarm									
Relinquished by: (Signature) <i>Harlan M. Brown</i>					Date	6-22-01	Time	17:00	Received by: (Signature) <i>Harlan M. Brown</i>															
Relinquished by: (Signature)					Date		Time		Received by: (Signature)															
Relinquished by: (Signature)					Date		Time		Received by: (Signature)															
ENVIROTECH INC. 5796 U.S. Highway 64 Farmington, New Mexico 87401 (505) 632-0615																								
Sample Receipt <table border="1"> <tr> <td>Y</td> <td>N</td> <td>N/A</td> </tr> <tr> <td>Received Intact</td> <td>✓</td> <td></td> </tr> <tr> <td>Cool - Ice/Blue Ice</td> <td>✓</td> <td></td> </tr> </table>																Y	N	N/A	Received Intact	✓		Cool - Ice/Blue Ice	✓	
Y	N	N/A																						
Received Intact	✓																							
Cool - Ice/Blue Ice	✓																							