1R - 316

REPORTS

DATE:

2000

IR370

CHUZA OPERATING

REMEDIATION STATUS REPORT

GINSBURG FEDERAL #5

Unit Letter D, NW¼ NW¼ Sec31, T25S, R38E,
~7 miles east of Jal
Lea County, New Mexico

May 31, 2001

Prepared by

Environmental Plus, Inc.
1324 North Main Street
P.O. Box 1558
Eunice, New Mexico 88231
Tele 505•394•3481 FAX 505•394•2601

CONTRACT #:

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 South First, Artesia, NM 88210
District III
000 Rio Brazos Road, Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

Form C-141
Revised March 17, 1999

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

Release Notification and Corrective Action

OPERATOR

☑ Initial Report ☐ Final Report

Name of Company: CHUZA OPERATING	Contact: William K. Dean
Address: P.O. Box 51010 Midland TX 79702	Telephone No.
Facility Name: Ginsburg Federal #5	Facility Type: Flow line

Surface Owner	Mineral Owner	Lease No.
ARCO Permian	Federal	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
D	31	25S	38E	NW4	NW4			LEA

NATURE OF RELEASE

Type of Release: Production Fluid (oil + water)	Volume of Release: <5 bbls	Volume Recovered: 0
Source of Release: Flowline	Date and Hour of Occurrence: March 22, 2000	Date and Hour of Discovery: March 22, 2000
Was Immediate Notice Given? ☐ Yes ☑ No ☑ Not Required	If YES, To Whom? Buddy Hill ~~Donna Williams~~ (at location)	
Whom?	Date and Hour: June 27, 2000	
Was a Watercourse Reached? ☐ Yes ☑ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
Flow line ruptured. Repaired line. No fluid present on land surface. Sampled on 7-6-00 to determine vertical extent of TPH, BTEX, & Chloride

Describe Area Affected and Cleanup Action Taken.*
Spill Dimension: ~50' wide tapering down 2'. Extends ~500 SW. 72 yds of bovine manure was raked into the surface of the impacted area.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: William K. Dean By [illegible]	OIL CONSERVATION DIVISION
Printed Name: William K. Dean	Approved by District Supervisor:
Title: Lease Operator	Approval Date: / Expiration Date:
Date: July 11, 2000 Phone: ~~39~~631-5010	Conditions of Approval: / Attached ☐

* Attach Additional Sheets If Necessary

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1.0 INTRODUCTION

On March 22, 2000, the Chuza Ginsburg Federal #5 oil well flow line ruptured and released approximately 5 barrels of production fluid, i.e., a mixture of saline water and crude oil, approximately 90% and 10%, respectively. The affected surface area extended approximately 500' southwest of the rupture tapering from approximately 50' to 2' in width. The surface at this site tilts slightly to the southwest. It was reported that a rain event occurred simultaneously with the release that caused the crude oil component to be washed down gradient and exaggerated the magnitude of the surface area of the spill. The site was characterized, the report submitted to the New Mexico Oil Conservation Division (NMOCD). The selected remediation strategy was to disk bovine manure into the affected surface area and monitor progress until closure thresholds were attained. This status report provides the analytical results from the May 12, 2001 sampling of the site and discusses remediation progress. The initial investigation determined that the only remedial action threshold exceeded was the 1000 mg/Kg Total Petroleum Hydrocarbon (TPH-EPA method 8015M) in the 0-1' below ground surface (bgs) interval, therefore, only the 0-1' bgs interval is being monitored.

2.0 REMEDIATION PROGRESS

Samples were obtained from the same general sample locations as during the 12-19-00 sampling event. The original analytical reports from the 5-12-01 sampling event are included as Attachment I and summarized below along with previous data.

East Composite

		7/6/2000	12/19/2000	5/12/2001
GRO[1]	mg/Kg	*50*	*50*	*50*
DRO[2]	mg/Kg	15300	2620	12800
GRO+DRO	**mg/Kg**	**15350**	**2670**	**12850**
BTEX[3]	mg/Kg	*0.03*	0.03	0.084
Benzene	mg/Kg	*0.005*	*0.005*	*0.005*
Toluene	mg/Kg	*0.005*	*0.005*	0.02
Ethyl Benzene	mg/Kg	*0.005*	*0.005*	0.01
Total Xylene	mg/Kg	*0.015*	*0.015*	0.049

Middle Composite

		7/6/2000	12/19/2000	5/12/2001
GRO	mg/Kg	*50*	*50*	*na*
DRO	mg/Kg	15300	2610	na
GRO+DRO	**mg/Kg**	**15350**	**2660**	**na**
BTEX	mg/Kg	*0.03*	na	na
Benzene	mg/Kg	*0.005*	*na*	*na*
Toluene	mg/Kg	*0.005*	*na*	na
Ethyl Benzene	mg/Kg	*0.005*	*na*	na
Total Xylene	mg/Kg	*0.015*	*na*	na

West Composite

		7/6/2000	12/19/2000	5/12/2001
GRO	mg/Kg	*50*	*50*	*50*
DRO	mg/Kg	15300	1620	2710
GRO+DRO	**mg/Kg**	**15350**	**1670**	**2760**
BTEX	mg/Kg	*0.03*	0.03	0.116
Benzene	mg/Kg	*0.005*	*0.005*	*0.005*
Toluene	mg/Kg	*0.005*	*0.005*	0.017
Ethyl Benzene	mg/Kg	*0.005*	*0.005*	0.014
Total Xylene	mg/Kg	*0.015*	*0.015*	0.08

[1]GRO – Gasoline Range Organics
[2]DRO – Diesel Range Organics
[3]TPH – Total Petroleum Hydrocarbon (GRO+DRO)

3.0 Discussion

The data indicates that the remediation strategy of mixing bovine manure with the hydrocarbon contaminated soil was initially effective in reducing TPH concentrations. Chloride concentrations are declining in the near surface, probably due to dispersion and leaching into the subsurface. The increase TPH level indicated in the east composite area is probably due to random sampling variation but nevertheless needs to be addressed.

4.0 Conclusion

Given that the site has not remediated to below the NMOCD guideline remedial goal for TPH, i.e., <1000 mg/Kg, the NMOCD will be asked to extend the time necessary to achieve the remediation goals to March 2002. During the interim, the site will be monitored and tilled as necessary to promote natural attenuation of the hydrocarbon.

Attachment I: Analytical Reports and Summary

CARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
ENVIRONMENTAL PLUS, INC.
ATTN: PAT McCASLAND
P.O. BOX 1558
EUNICE, NM 88231
FAX TO: (505) 394-2601

Receiving Date: 05/17/01
Reporting Date: 05/21/01
Project Owner: CHUZA
Project Name: GINSBURG FEDERAL #5
Project Location: ULD NW/4 NW/4 S31, T25S, R38E

Sampling Date: 05/12/01
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: BC

LAB NUMBER	SAMPLE ID	GRO (C_6-C_{10}) (mg/Kg)	DRO (>C_{10}-C_{28}) (mg/Kg)	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS DATE:		05/18/01	05/18/01	05/17/01	05/17/01	05/17/01	05/17/01
H5876-1	S51201GF5EC	<50	12800	<0.005	0.020	0.010	0.049
H5876-2	S51201GF5WC	<50	2710	<0.005	0.017	0.014	0.080
Quality Control		926	1052	0.104	0.108	0.101	0.285
True Value QC		1000	1000	0.100	0.100	0.100	0.300
% Recovery		92.6	105	104	108	101	95.1
Relative Percent Difference		0.5	7.4	0.5	5.4	1.0	0.6

METHODS: TPH GRO & DRO - EPASW-846 8015 M; BTEX - SW-846 8260.

Burgess J. A. Cooke, Ph. D.

5/21/01
Date

H5876.XLS

CARDINAL LABORATORIES, INC.

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240
(915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2476

Page 1 of 1

Company Name:	Environmental Plus, Inc.
Project Manager:	Pat McCasland
Address:	P.O. Box 1558
City:	Eunice State: NM Zip: 88231
Phone #:	505.394.2600 Fax #: 505.394.2601
Project #:	Project Owner: Chiza
Project Name:	Ginsburg Federal #5
Project Location:	Ut D NW/4 NW/4 S31, T25S, R36E
Sampler Name:	Pat McCasland

BILL TO

P.O. #:	SAME
Company:	
Attn:	
Address:	
City:	
State:	Zip:
Phone #:	
Fax #:	

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	TPH 8015m	Chloride	BTEX 8260/8020	TDS	Anions/Cations
H5876-1	S51201 GF5EC	C	1			✓							5.12.01	1330	✓		✓		
-2	S51201 GF5WC	C	1			✓							5.12.01	1335	✓		✓		

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Sampler Relinquished:	Date:	Received By:	Phone Result: ☐ Yes ☐ No Add'l Phone #:
	Time:		Fax Result: ☒ Yes ☐ No Add'l Fax #:
Relinquished By: Eric McCasland	Date: 05/17/2001 Time: 1:30P	Received By: (Lab Staff)	REMARKS: C of C requested
Delivered By: (Circle One) Sampler - UPS - Bus - (Other):	Sample Condition Cool: ☒ Yes ☐ No Intact: ☒ Yes ☐ No	CHECKED BY: (Initials)	

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476.