



**CONOCO INC.**

**MCA BTRY #1 TRUNKLINE LEAK**

**ENVIRONMENTAL SITE INVESTIGATION**

PERFORMED BY:

**BBC INTERNATIONAL, INC.**  
WORLD-WIDE ENVIRONMENTAL SPECIALISTS  
1324 W. MARLAND BLVD.  
P. O. BOX 805  
HOBBS, NEW MEXICO 88240  
(505)397-6388 • FAX (505)397-0397  
EMAIL: [bbc@bbcinternational.com](mailto:bbc@bbcinternational.com)  
WEBSITE: [www.bbcinternational.com](http://www.bbcinternational.com)

**NOVEMBER 19, 2001**

PREPARED FOR:

**MR. JOHN COY**  
**CONOCO INC.**  
**PO BOX 180**  
**MALJAMAR, NEW MEXICO 88264**

*Conoco - 217817*  
*facility -*  
*incident - NPAC0606852536*

*application - NPAC0606852740*



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E-MAIL: [bbc@bbcinternational.com](mailto:bbc@bbcinternational.com)

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April 12, 2002

Chris Williams  
NM Oil Conservation Division

Hobbs, NM 88240

**RE: Conoco, Inc. – MCA Btry #1 Trunkline Leak**

Dear Mr. Williams:

BBC International, Inc. respectfully submits this site investigation report for the MCA Btry #1 Trunkline Leak on behalf of Conoco, Inc.

This site is an area that was investigated due to an injection line leak that occurred on December 6, 2000. Approximately 250 barrels of produced water was released with 200 barrels recovered.


The initial investigation and sampling was conducted on January 25, 2001. Additional samples were taken at greater depths on October 11, 2001. This report details the results.

As can be found in the report, the chlorides are reduced greatly at depth. The recommendation is to halt any further investigations activities and conduct surface remediation measures only.

I look forward to your review of this report and the agreement to our recommendation. If you have any questions, please do not hesitate to contact me at (505)397-6388 or at the address above.

Sincerely,

BBC International, Inc.

  
Ken Swinney, CEI, CRS  
Director of Operations

KS:js

encl.

# Conoco MCA Btry #1 Trunkline Leak

## 12/6/00

### 1.0 INTRODUCTION

The subject site is located south of Maljamar, New Mexico in Section 29, Township 17 South, Range 32 East. The site consists of undeveloped range land. On December 6, 2000 a trunkline leaked approximately 250 barrels of produced water, with approximately 200 barrels being recovered from the surface.

### 2.0 SITE CHARACTERIZATION

The leak area is in a depression surrounded by sand hills. The leak area runs East-West for approximately 76 feet. The leak area is approximately 24 feet wide at the widest point. The surface soil is red sand. There is no water source within 1,000 feet of the site. There is no surface water within 1,000 feet of the site. Based on data from the ground water monitoring well located at the Conoco Maljamar Plant, depth to ground water is approximately 90 feet.

### 3.0 SITE INVESTIGATION ACTIVITIES

On January 25, 2001, BBC personnel conducted an inspection of the site. Three sample points were dug at the site, using a backhoe, to a depth of approximately 21 feet. Samples were taken at 3 feet and at 20 feet at sample point MC1-1, at 3 feet and at 21 feet at sample point MC1-2, and at 11 feet and 20.5 feet at sample point MC1-3. On October 11, 2001, BBC personnel returned to the site to take additional soil samples at greater depths. One sample point was drilled to a depth of 30 feet using BBC's tractor mount drilling rig. Samples were taken at 25 feet and 30 feet at sample point MCA 1. Field screening for chloride was performed on site. Field screening data is located on Figure 1. Soil samples were then sent to Cardinal Laboratories for analysis. Lab results are located on Figure 1 and in Appendix I. Pictures of investigation activities are located in Appendix II.

### 4.0 CONCLUSION AND RECOMMENDATION

Laboratory analysis for TPH and BTEX shows TPH at levels well below OCD guidelines and BTEX at non-detect. Therefore, TPH and BTEX are not considered an environmental concern at this site. The lab results for TPH and BTEX are located in Appendix 1. The data shows a reduction in chloride concentrations from 3 feet to approximately 30 feet. At the 25 feet and 30 feet depths the chloride concentrations are 752 ppm and 400 ppm respectively, this reduction is significant. The lab results for chloride is located on Figure 1 and in Appendix I. Taking into consideration that the depth to groundwater is greater

than sixty-five feet, and the subsurface soil lithology at the site consists of caliche and sandstone layers, it is evident that the migration of chlorides to groundwater is unlikely. Therefore it is recommended that only surface remediation is necessary. This could consist of the addition of gypsum, ammonium nitrate, Salt Block, or other amendments that will reduce the chloride concentrations in the soil to allow for revegetation.

**CONOCO**

Conoco Inc.

**Record of Accidental Discharge  
of Crude Oil, Water or  
Hazardous Substances**SPILL CATEGORY: B

EP - Americas

10/18/1999

1. Lease <b>MCA BTR 1</b>		2. Field <b>MALJAMAR (BMP)</b>		3. Person In Charge of Site <b>L. MINNICK</b>	
4. Person Reporting Discharge <i>Trunk Line</i> <b>L. MINNICK</b>				Person Receiving Report	
5. Discharge Discovered By <b>NAVAJO PIPELINE</b>				Date and Time Discovered <b>12/6/00 - 10AM</b>	
Witnesses					
6. How Did Company Learn of Discharge <b>GAUGER FOR NAVAJO REPORTED TO US</b>					
7. Date and Time Discharge Began <b>12/6/00 - 4AM?</b>		7a. Date and Time Discharge Ended <b>12/6/00 - 10:30AM</b>		8. Date and Time Initial Report Received	
9. Discharge Site	Unit Letter	Section	Blk./ TWP	Survey/Range	County State
		<b>29</b>	<b>17S</b>	<b>32E</b>	<b>LEA NM</b>
Highway Map Location <b>mm7SR529,N1.5m,E1.5m</b>					
10. Location of Discharge Click Here Feet to Wellhead No. Other <b>MCA BTRY 1 - SWD LINE</b>					
11. Source of Discharge - Pipe Piping Size ( In Inches)		Type	Placement	Coating	Other Source of Discharge
<b>3 INCH</b>		<b>Fiberglass</b>	<b>Buried</b>	<b>N/A</b>	<b>Click Here</b>
12. Possible Reason for Discharge <b>Corrosion(External)</b>		12a. Describe Cause of Discharge and Action Taken to Prevent Recurrence <b>3" F.G. Line had a steel "dresser sleeve" (old) on it that rotted out beveled and glued fg flanges with new 10' sect. 3" fg. Line</b>			
13. Names and Volumes of Substances Involved			14. Remedial Action - Picked Up		
Bbls. Oil	Bbls. Water	<b>250</b>	Salt	Bbls. Oil	Other Volume
Other	Other Volume			Bbls. Water	<b>200</b>
15. Describe Nature and Extent of Area Affected and Cleanup Action Taken Contained Within a Dike/Pad? <b>No</b> <b>20 yard x 40 yard sandy field, back drag w/ b.hoe - test and remediate in place</b>					
16. Water Courses Reached		Type	Condition	Volume Entering Water	
Name		<b>None</b>	<b>N/A</b>	Bbls. Oil	
				Bbls. Water	
17. How Was Discharge Stopped <b>closed valves to isolate affected sect.</b>					
18. Operating Conditions at Time of Discharge		Injection Well		BWPD @	PSI
Click Here BOPD		<b>SWD LINE</b>		BWPD <b>4000</b>	Line PSI <b>110#</b>
19. General Weather Conditions at Time of Discharge <b>cool / clear</b>				20. Cost of Repair/Cleanup <b>\$1000 ( EST. )</b>	
21. Federal, State, and Local Agencies Notified and/or Non - Company On - Site Investigators					
Agency	Person Notified	Date Notified	Time Notified	Method Used	Person Notifying
<b>NMOCD</b>	<b>SYLVIA</b>	<b>12/06/00</b>	<b>2PM</b>	<b>PHONE</b>	<b>L MINNICK</b>
<b>BLM</b>	<b>KATHY</b>	<b>"</b>	<b>"</b>	<b>"</b>	<b>"</b>
<b>RITTER</b>	<b>NA</b>	<b>12/07/00</b>	<b>9AM</b>	<b>e-mail</b>	<b>"</b>
22. Federal Lease No. <b>071029410a</b>		Unit/CA No. <b>8920003410</b>		Right of Way No.	
23. Landowner/ Tenant <b>Caswell</b>		Telephone Number: <b>676-2222</b>			
I Hereby Certify That The Information Above Is True and Complete To The Best of My Knowledge.					
Signature and Title <i>Larry Minnick</i> <b>MSO</b>			Date and Location <b>12/7/00 MALJAMAR, N.M.</b>		

*SIGNED?*

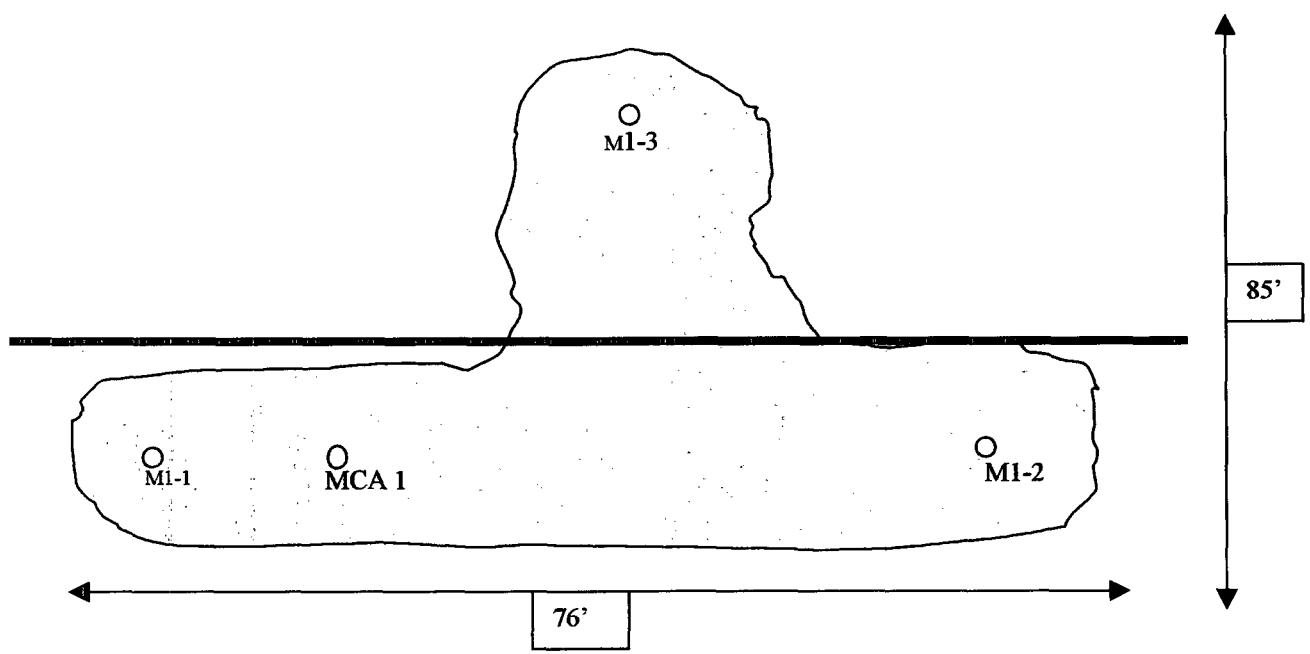
# Figure 1



# CONOCO

## MCA BTRY # 1 TRUNKLINE LEAK

### 12-06-00



SAMPLE POINT	DEPTH	FIELD CHLORIDE	LAB CHLORIDE
M1-1	3'	3800 PPM	4110 PPM
M1-1	20'	1900 PPM	2220 PPM
M1-2	3'	3000 PPM	2750 PPM
M1-2	21'	700 PPM	550 PPM
M1-3*	11'	3000 PPM	3230 PPM
M1-3	20.5'	2700 PPM	2910 PPM
MCA 1	25'	890 PPM	752 PPM
MCA 1	30'	400 PPM	400 PPM

\*Could not get extraction on field analysis above 11' at point M1-3

#### LEGEND

- 3 Inch Pipeline
- BBC sample point 01-25-01 and 10-11-01 grab sample

BBC INTERNATIONAL, INC.

CONOCO MCA BTRY #1

Date: 11-19-01	Drawn By: Ken
Disk:	Sheet of Sheets
Scale: Not to Scale	File Name

# **Appendix I**





# ARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR  
BBC INTERNATIONAL, INC.  
ATTN: CLIFF BRUNSON  
P.O. BOX 805  
HOBBS, NM 88241  
FAX TO: (505) 397-0397

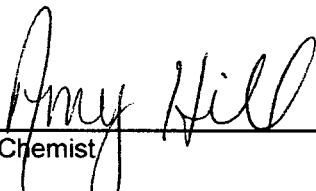
Receiving Date: 10/15/01  
Reporting Date: 10/16/01  
Project Owner: CONOCO  
Project Name: MCA BATTERY #1  
Project Location: MALJAMAR

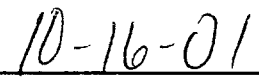
Analysis Date: 10/16/01  
Sampling Date: 10/11/01  
Sample Type: SOIL  
Sample Condition: COOL & INTACT  
Sample Received By: BC  
Analyzed By: AH

LAB NUMBER	SAMPLE ID	Cl <sup>-</sup> (mg/Kg)
H6216-1	MCA 1-25'	752
H6216-2	MCA 1-30'	400
Quality Control		1010
True Value QC		1000
% Recovery		101
Relative Percent Difference		1.0

METHOD: Standard Methods	4500-ClB
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Analyses performed on 1:4 w:v aqueous extracts.

  
Chemist

  
Date

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

H6216



# ARDINAL LABORATORIES, INC.

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 1

### ANALYSIS REQUEST

Company Name: BBC Talcott and Inc

Project Manager: Cliff Brown

Address: 1324 W. Merle

City: Hobbs

State: NM Zip: 88240

Phone #: (505) 397-6388

Attn: Steve

Fax #: (505) 397-0397

City:

Project #:

Project Owner: Conoco

State:

Project Name: MCA OTRP

Phone #:

Project Location: Malheur

Fax #:

FOR LAB USE ONLY

LAB I.D.

Sample I.D.

(G)RAB OR (C)OMP.

# CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER:

ACID:

ICE / COOL

OTHER:

DATE

TIME

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PLEASE NOTE: Liability and Damages: Cardinal's liability and alert's estimate remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal. Acceptance of whether each claim is based upon any of the above stated reasons or otherwise.

Sampler Relinquished:

Date:

Time:

Received By:

Phone Result:

Yes

No

Additional Fax #:

Yes

No

REMARKS:

Relinquished By:

Date:

Time:

Received By: (Lab Staff)

Delivered By: (Circle One)

Sample Condition

Cool

Intact

Checked By:

(Initials)

Sampler - UPS - Bus - Other:

+ Cardinal cannot accept verbal changes. Please fax written changes to 915-673-7020.



# ARDINAL LABORATORIES

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ANALYTICAL RESULTS FOR  
BBC INTERNATIONAL  
ATTN: CLIFF P. BRUNSON  
P.O. BOX 805  
HOBBS, NM 88241  
FAX TO: (505) 397-0397

Receiving Date: 01/26/01  
Reporting Date: 01/30/01  
Project Number: NOT GIVEN  
Project Name: MCA BTR #1  
Project Location: MALJAMAR

Sampling Date: 01/25/01  
Sample Type: SOIL  
Sample Condition: COOL & INTACT  
Sample Received By: BC  
Analyzed By: BC/AH

LAB NUMBER	SAMPLE ID	TPH (mg/Kg)	Cl* (mg/Kg)
ANALYSIS DATE:		01/26/01	01/30/01
H5556-1	MC1-1- 3'	<10	4110
H5556-2	MC1-1-20'	11.2	2220
H5556-3	MC1-2- 3'	<10	2750
H5556-4	MC1-2-21'	<10	550
H5556-5	MC1-3-11'	<10	3230
H5556-6	MC1-3-20.5'	11.3	2910
Quality Control		241	1051
True Value QC		240	1000
% Recovery		100	105
Relative Percent Difference		3.9	3.9

METHODS: TPH-EPA 600/4-79-020 418.1; Cl-Std. Methods 4500-Cl'B

\*Analyses performed on 1:4 w:v aqueous extracts.

Chemist

Date

1/30/01

H5556A.XLS

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# ARDINAL LABORATORIES

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PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR  
BBC INTERNATIONAL  
ATTN: CLIFF P. BRUNSON  
1324 W. MARLAND  
HOBBS, NM 88240  
FAX TO: 505-392-0397

Receiving Date: 01/25/01  
Reporting Date: 01/30/01  
Project Number: NOT GIVEN  
Project Name: MCA BTR #1  
Project Location: MALJAMAR

Sampling Date: 01/25/01  
Sample Type: SOIL  
Sample Condition: COOL, INTACT  
Sample Received By: BC  
Analyzed By: JA

LAB NUMBER	SAMPLE ID	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS DATE		01/30/01	01/30/01	01/30/01	01/30/01
H5556-1	MC1-1-3'	<0.002	<0.002	<0.002	<0.006
H5556-2	MC1-1-20'	<0.002	<0.002	<0.002	<0.006
H5556-3	MC1-2-3'	<0.002	<0.002	<0.002	<0.006
H5556-4	MC1-2-21'	<0.002	<0.002	<0.002	<0.006
H5556-5	MC1-3-11'	<0.002	<0.002	<0.002	<0.006
H5556-6	MC1-3-20.5'	<0.002	<0.002	<0.002	<0.006
Quality Control		0.099	0.114	0.103	0.315
True Value QC		0.100	0.100	0.100	0.300
% Accuracy		99	114	103	105
Relative Percent Difference		2.9	2.5	0.7	4.4

METHOD: EPA SW 846-8020, 5030, Gas Chromatography

  
Chemist

1-30-01  
Date

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H5556SBBCHOBBSBTEXONLY

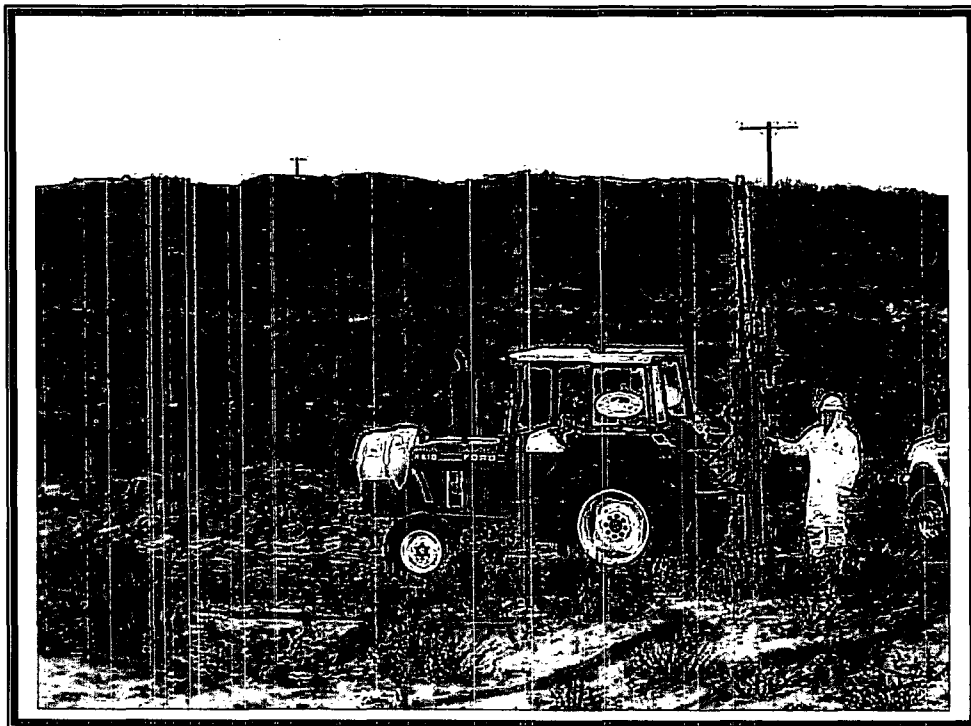
2411 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240  
(915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2476

Page 7 of 7[illegible]

## **Appendix II**



MCA Battery #1 Trunkline – Spill date 12/06/00 – Sample taken at 21’.



MCA Battery #1 Trunkline Leak – Sample taken at 25' and 30'  
on 10-11-01