



## AMERADA HESS CORPORATION

### A.H.C. HUSTON BATTERY #28 LEA COUNTY, NEW MEXICO

#### SITE CLOSURE REPORT

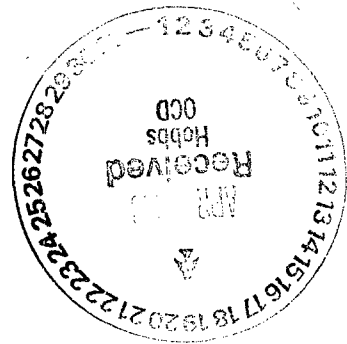
PREPARED BY:

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

**MARCH 22, 2006**

PREPARED FOR:

**MR. RANDY BARNES  
AMERADA HESS CORPORATION  
P.O. BOX 840  
SEMINOLE, TX 79360**



*Facility - APAC0613141220  
Incident - APAC0613141953  
Application - pPAC 0613142212*



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

**BILL RICHARDSON**

Governor

**Joanna Prukop**

Cabinet Secretary

**Mark E. Fesmire, P.E.**

Director

**Oil Conservation Division**

April 20, 2006

Mr. Randy Barnes  
Amerada Hess Corporation, (Amerada)  
POB 840  
Seminole, TX 79360

Re: Huston Battery #28 Site Closure Approval  
Dated: March 22, 2006

Dear Mr. Barnes,

New Mexico Oil Conservation Division (OCD) personnel reviewed the closure report submitted by BBC for Amerada and referenced above. The closure is **hereby approved** according to the information provided.

Please be advised that OCD approval does not relieve Amerada of liability should operations result in pollution of surface water, ground water, or the environment. In addition, OCD approval does not relieve Amerada of responsibility for compliance with other federal, state or local laws and/or regulations.

If you have any questions or need assistance please write or call: (505) 393-6161, ext. 113, or e-mail: [psheeeley@state.nm.us](mailto:psheeeley@state.nm.us)

Sincerely,

Paul Sheeley-Environmental Engineer  
xc: Wayne Price - Environmental Bureau Chief  
Chris Williams - District I Supervisor  
Larry Johnson - Environmental Engineer  
Amy Ruth - BBC

# **Amerada Hess Corporation**

## **A.H.C. Huston Battery #28**

### **1.0 INTRODUCTION**

The subject site is north of Monument, New Mexico in Lea County in Unit Letter K, of Section 21, Township 19 South, and Range 37 East. The site is an abandoned tank battery. Amerada Hess Corporation (Amerada) sent a remediation plan to the New Mexico Oil Conservation Division (NMOCD), and the plan was approved on December 5, 2005.

### **2.0 SITE CHARACTERIZATION**

The area of the site measures approximately 9,650 square feet. 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 United States Geological Survey, average depth to groundwater is less than 50 feet. Bedrock in the Monument area is very shallow and it is approximately one foot below the surface of the topsoil.

### **3.0 SITE ACTIVITIES**

Amerada retained E.D. Walton Construction (E.D. Walton) to excavate the site and haul contaminated soil to a landfarm approved by NMOCD. BBC International, Inc. (BBC) was also retained by Amerada to collect soil samples for laboratory analysis. The site was scanned for naturally occurring radioactive materials (NORM), and readings were normal. Excavation began on January 11, 2006.

Clean surface soil was stockpiled on the west end of the site. BBC personnel collected a composite sample from the pile on January 12, 2006, and sent it to a laboratory for an analysis. The sample was analyzed for total petroleum hydrocarbons (TPH) – gasoline range organics (GRO)/diesel range organics (DRO). GRO was non-detect and the DRO level was 12.9 parts per million (ppm). All site diagrams including sample point locations can be found in Appendix I. All site photographs can be viewed in Appendix III of this report.

BBC returned on January 13, 2006 to collect seven (7) samples from the bottom of trenches excavated across the site to one (1) foot below ground surface (bgs). The TPH results were non-detect for GRO. DRO appeared from non-detect to 432 ppm. The area on the far west end of the site could not be sampled at this

time due to the presence of the clean soil pile that was sampled on January 12, 2006.

On January 16, 2006, after the pile of clean soil was moved to the far west edge of the site, BBC collected a sample at one (1) foot bgs in the location where the pile sat. GRO and DRO were non-detect.

Hauling was completed on January 18, 2006, and seven (7) closure samples were collected on January 20, 2006. Laboratory analyses included TPH (GRO/DRO), Chloride, and Benzene-Toluene-Ethylbenzene-Xylene (BTEX). The samples were non-detect for BTEX and GRO. DRO ranged from non-detect to 11.3 ppm. One sample located in the northeast portion of the site contained 703 ppm DRO. Chlorides ranged from 16 ppm to 144 ppm. All laboratory analytical results for the site can be found in **Appendix II** of this report.

The northeast corner of the site that contained 703 ppm DRO was excavated one (1) foot deeper on January 27, 2006. A sample was collected in this area at two (2) feet bgs on February 1, 2006 and sent to a laboratory for analyses. BTEX totaled 0.036 ppm. GRO was non-detect, DRO was 325 ppm, and the chloride concentration was 144 ppm.

As DRO remained 325 ppm in the northeast corner, the site was excavated half a foot deeper in the northeast section on February 13, 2006. On February 15, 2006, the NMOCD was notified of sampling results, that the location was excavated further, and that final sampling would take place the following day. Correspondences regarding sampling events for this site are included in **Appendix IV**.

A sample was collected on February 16, 2006 from the bottom of the northeast corner and sent to a laboratory. GRO, DRO, and BTEX were non-detect. Chloride content was 16 ppm.

A total of 244 cubic yards were hauled to a landfarm by February 16, 2006. E.D. Walton completed backfilling and contouring the site on February 22, 2006 with 160 cubic yards of clean soil that was stockpiled on site and 96 cubic yards of clean topsoil. The site was reseeded on March 16, 2006.

#### **4.0 CONCLUSION**

According to the United States Geological Survey, depth to groundwater is less than 50 feet. There are no water sources or surface water bodies within 1,000 horizontal feet. GRO and BTEX were non-detect, DRO ranged from non-detect to 11.3 ppm, and chloride content ranged from 16 ppm to 144 ppm. The laboratory data for this site indicates that BTEX, TPH (GRO/DRO), and chloride levels are all within NMOCD guidelines.

# APPENDIX I

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## Site Diagrams

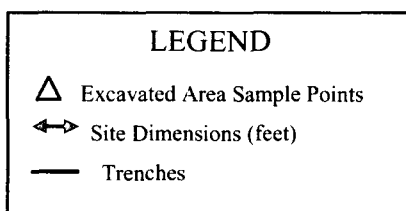
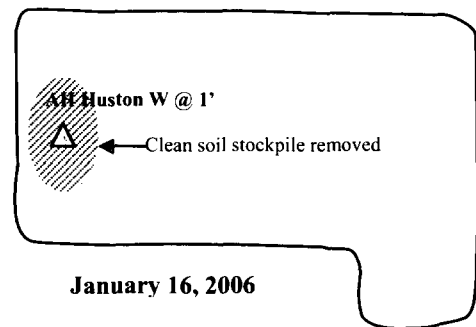
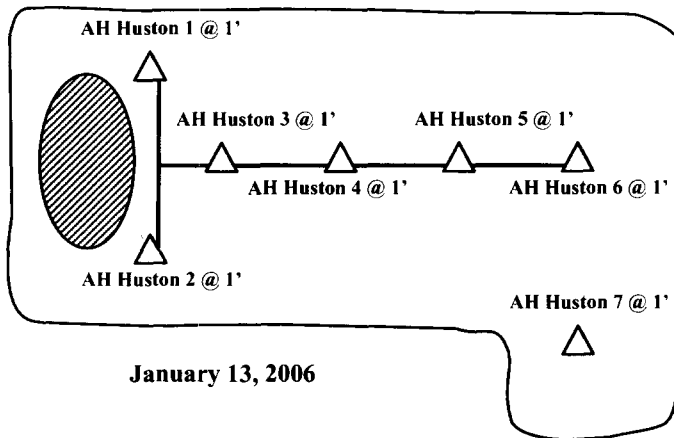
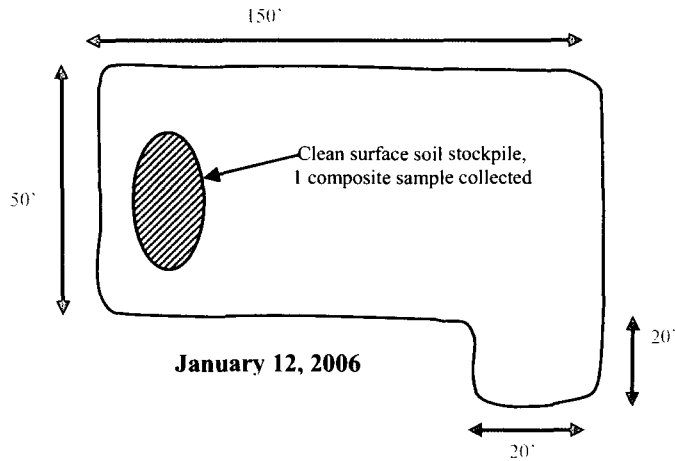
### **A.H.C. Huston Battery #28** Monument, New Mexico

Prepared for:  
Amerada Hess Corporation  
Seminole, Texas

**March, 2006**

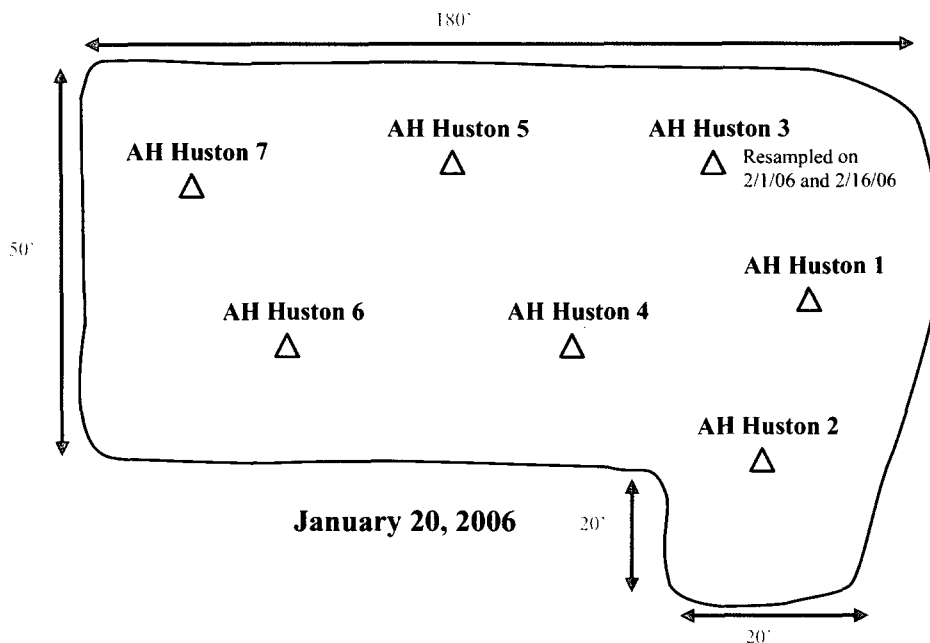
Prepared by:  
BBC International, Inc.

# Amerada Hess Corporation A.H.C. Huston Battery #28 Sampling



BBC INTERNATIONAL, INC.	
Amerada Hess Corporation A.H.C. Huston (1-12-06 thru 1-16-06)	
Date: 3-15-06	Drawn By: ACR
Disk:	Sheet 1 of 1 Sheets
Scale: Not to Scale	File Name

# Amerada Hess Corporation A.H.C. Huston Battery #28 Sampling



LEGEND	
	Excavated Area Sample Points
	Site Dimensions (feet)
	Trenches

BBC INTERNATIONAL, INC.	
Amerada Hess Corporation A.H.C. Huston (1-20-06)	
Date: 3-15-06	Drawn By: ACR
Disk:	Sheet 1 of 1 Sheets
Scale: Not to Scale	File Name

# **APPENDIX II**

---

## **Laboratory Analytical Results**

**A.H.C. Huston Battery #28**  
Monument, New Mexico

Prepared for:  
Amerada Hess Corporation  
Seminole, Texas

**March, 2006**

Prepared by:  
BBC International, Inc.





# ARDINAL LABORATORIES

PHONE (325) 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: 01/13/06  
Reporting Date: 01/16/06  
Project Owner: AMERADA HESS  
Project Name: A.H.C. HUSTON  
Project Location: MONUMENT, NM

Sampling Date: 01/12/06  
Sample Type: SOIL  
Sample Condition: COOL & INTACT  
Sample Received By: NF  
Analyzed By: BC

LAB NUMBER	SAMPLE ID	GRO	DRO
		(C <sub>6</sub> -C <sub>10</sub> ) (mg/Kg)	(>C <sub>10</sub> -C <sub>28</sub> ) (mg/Kg)
ANALYSIS DATE:		01/13/06	01/13/06
H10606-1	A.H.C. HUSTON PILE	<10.0	12.9
Quality Control		766	789
True Value QC		800	800
% Recovery		95.8	98.7
Relative Percent Difference		2.0	1.7

METHOD: SW-846 8015 M

Chemist

Date

H10606.XLS

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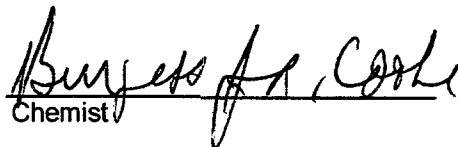
ANALYTICAL RESULTS FOR  
BBC INTERNATIONAL, INC.  
ATTN: CLIFF BRUNSON  
P.O. BOX 805  
HOBBS, NM 88241  
FAX TO: (505) 397-0397

Receiving Date: 01/13/06  
Reporting Date: 01/17/06  
Project Owner: AMERADA HESS  
Project Name: A.H.C. HUSTON  
Project Location: MONUMENT, NM

Sampling Date: 01/13/06  
Sample Type: SOIL  
Sample Condition: COOL & INTACT  
Sample Received By: NF  
Analyzed By: BC

LAB NO.	SAMPLE ID	GRO (C <sub>6</sub> -C <sub>10</sub> ) (mg/Kg)	DRO (>C <sub>10</sub> -C <sub>28</sub> ) (mg/Kg)
		01/16/06	01/16/06
H10616-1	AH HUSTON 1 @ 1'	<10.0	<10.0
H10616-2	AH HUSTON 2 @ 1'	<10.0	<10.0
H10616-3	AH HUSTON 3 @ 1'	<10.0	<10.0
H10616-4	AH HUSTON 4 @ 1'	<10.0	<10.0
H10616-5	AH HUSTON 5 @ 1'	<10.0	168
H10616-6	AH HUSTON 6 @ 1'	<10.0	36.3
H10616-7	AH HUSTON 7 @ 1'	<10.0	432
Quality Control		808	802
True Value QC		800	800
% Recovery		101	100
Relative Percent Difference		1.3	2.4

METHOD: SW-846 8015 M

  
Chemist

1/17/06  
Date

H10616.XLS

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

Receiving Date: 01/16/06  
Reporting Date: 01/18/06  
Project Owner: AMERADA HESS  
Project Name: A.H.C. HUSTON  
Project Location: MONUMENT, NM

Sampling Date: 01/16/06  
Sample Type: SOIL  
Sample Condition: COOL & INTACT  
Sample Received By: BC  
Analyzed By: BC

LAB NUMBER	SAMPLE ID	GRO	DRO
		(C <sub>6</sub> -C <sub>10</sub> ) (mg/Kg)	(>C <sub>10</sub> -C <sub>28</sub> ) (mg/Kg)
ANALYSIS DATE:		01/17/06	01/17/06
H10619-1	AH HUSTON W @ 1	<10.0	<10.0
Quality Control		800	802
True Value QC		800	800
% Recovery		100	100
Relative Percent Difference		0.8	0.3

METHOD: SW-846 8015 M

Chemist

Date

H10619.XLS

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

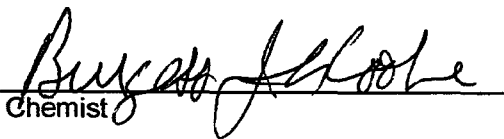
Receiving Date: 01/20/06  
Reporting Date: 01/25/06  
Project Number: NOT GIVEN  
Project Name: A.H.C. HUSTON BATTERY 28  
Project Location: MONUMENT, NM

Sampling Date: 01/20/06  
Sample Type: SOIL  
Sample Condition: COOL & INTACT  
Sample Received By: HM  
Analyzed By: BC/HM

LAB NUMBER	SAMPLE ID	GRO (C <sub>6</sub> -C <sub>10</sub> ) (mg/Kg)	DRO (>C <sub>10</sub> -C <sub>28</sub> ) (mg/Kg)	Cl* (mg/Kg)
		01/24/06	01/24/06	01/23/06
H10646-1	AH HUSTON 1	<10.0	3.76	32
H10646-2	AH HUSTON 2	<10.0	<10.0	144
H10646-3	AH HUSTON 3	<10.0	703	32
H10646-4	AH HUSTON 4	<10.0	11.3	32
H10646-5	AH HUSTON 5	<10.0	<10.0	16
H10646-6	AH HUSTON 6	<10.0	<10.0	32
H10646-7	AH HUSTON 7	<10.0	<10.0	48
Quality Control		804	750	500
True Value QC		800	800	500
% Recovery		100	93.7	100
Relative Percent Difference		2.7	2.2	2.0

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; Cl: Std. Methods 4500-ClB

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

  
Chemist

1/25/06  
Date

H10646A.XLS

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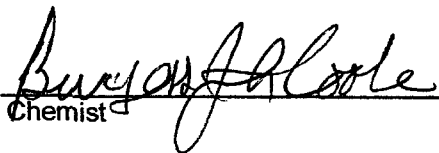
ANALYTICAL RESULTS FOR  
BBC INTERNATIONAL, INC.  
ATTN: CLIFF BRUNSON  
P.O. BOX 805  
HOBBS, NM 88241  
FAX TO: (505) 397-0397

Receiving Date: 01/20/06  
Reporting Date: 01/25/06  
Project Number: NOT GIVEN  
Project Name: A.H.C. HUSTON BATTERY 28  
Project Location: MONUMENT, NM

Sampling Date: 01/20/06  
Sample Type: SOIL  
Sample Condition: COOL & INTACT  
Sample Received By: HM  
Analyzed By: BC

LAB NUMBER	SAMPLE ID	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS DATE		01/24/06	01/24/06	01/24/06	01/24/06
H10646-1	AH HUSTON 1	<0.005	<0.005	<0.005	<0.015
H10646-2	AH HUSTON 2	<0.005	<0.005	<0.005	<0.015
H10646-3	AH HUSTON 3	<0.005	<0.005	<0.005	<0.015
H10646-4	AH HUSTON 4	<0.005	<0.005	<0.005	<0.015
H10646-5	AH HUSTON 5	<0.005	<0.005	<0.005	<0.015
H10646-6	AH HUSTON 6	<0.005	<0.005	<0.005	<0.015
H10646-7	AH HUSTON 7	<0.005	<0.005	<0.005	<0.015
Quality Control		0.104	0.098	0.096	0.283
True Value QC		0.100	0.100	0.100	0.300
% Recovery		104	98.1	96.0	94.4
Relative Percent Difference		0.8	2.5	8.8	5.0

METHOD: EPA SW-846 8260

  
Chemist

1/25/06  
Date

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CARDINAL LABORATORIES, INC.

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 1

BILL TO										ANALYSIS REQUEST									
Company Name: <b>BCC International, Inc.</b>										P.O. #: <b>Drauser D</b>									
Project Manager: <b>Cliff Benton</b>										Company: <b>Amerada Hess</b>									
Address: <b>1324 W. Marland</b>										Attn: <b>Sam Small</b>									
City: <b>Hobbs</b>										Address:									
Phone #: <b>505 397-6388</b>										State: <b>NM</b> Zip: <b>88240</b>									
Fax #: <b>505 397-6388</b>										City: <b>Monument</b>									
Project #: <b>505 397-6388</b>										State: <b>NM</b> Zip: <b>88240</b>									
Project Name: <b>A.H.C. Huston Battery 28</b>										Phone #:									
Project Location: <b>Monument</b>										Fax #:									
Sampler Name: <b>Amy Ruth</b>																			
FOR LAB USE ONLY																			
Lab I.D.										Sample I.D.									
H0646 - AH Huston 1										Chlorides									
-2 AH Huston 2										TPH 8015 MJD									
-3 AH Huston 3										BTEX									
-4 AH Huston 4																			
-5 AH Huston 5																			
-6 AH Huston 6																			
-7 AH Huston 7																			

MATRIX	PRESERV	SAMPLING	DATE	TIME
GROUNDWATER			1-20-06	8:05 AM
WASTEWATER			1-20-06	8:12 AM
SOIL			1-20-06	8:14 AM
CRUDE OIL			1-20-06	8:17 AM
SLUDGE			1-20-06	8:20 AM
OTHER:			1-20-06	8:24 AM
ACID/BASE:			1-20-06	8:24 AM
ICE / COOL			1-20-06	8:24 AM
OTHER:			1-20-06	8:24 AM

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Sampler Relinquished: **Amy C. Ruth** Date: **1-20-06** Time: **10:00 AM**  
Relinquished By: **Sam Small** Date: **1-20-06** Time: **12:07**  
Delivered By: **Sam Small**  
Sampler - UPS - Bus - Other: **Sam Small**

REMARKS:

Phone Result: ☐ Yes ☐ No Add'l Phone #:  
Fax Result: ☐ Yes ☐ No Add'l Fax #:

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



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ANALYTICAL RESULTS FOR  
BBC INTERNATIONAL, INC  
ATTN: CLIFF BRUNSON  
1324 WEST MARLAND  
HOBBS, NM 88240  
FAX TO: 505-397-0397

Receiving Date: 2/1/06  
Reporting Date: 2/6/06  
Project Number: NONE GIVEN  
Project Name: A.H.C. HUSTON BATTERY 28  
Project Location: MONUMENT

Sampling Date: 2/1/06  
Sample Type: SOIL  
Sample Condition: COOL & INTACT  
Sample Received By: NF  
Analyzed By: JC

LAB NUMBER	SAMPLE ID	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYLBENZI (mg/kg)	TOTAL XYLENES (mg/kg)
------------	-----------	--------------------	--------------------	-----------------------	-----------------------------

ANALYSIS DATE:	2/3/06	2/3/06	2/3/06	2/3/06
H10693-1 AH HUSTON NE	0.009	0.006	0.009	0.012

Quality Control	0.105	0.101	0.102	0.277
True Value QC	0.100	0.100	0.100	0.300
% Recovery	105	101	102	92.3
Relative Percent Difference	7.1	1.7	0.9	4.7

METHODS: EPA - SW 846-8021B, 5030B; Gas Chromatography

  
Laboratory Manager

2/6/06  
Date



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

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

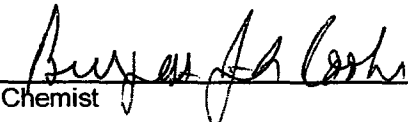
Receiving Date: 02/01/06  
Reporting Date: 02/06/06  
Project Owner: AMERADA HESS  
Project Name: A.H.C. HUSTON BATTERY 28  
Project Location: MONUMENT, NM


Sampling Date: 02/01/06  
Sample Type: SOIL  
Sample Condition: COOL & INTACT  
Sample Received By: NF  
Analyzed By: BC/HM

LAB NUMBER	SAMPLE ID	GRO	DRO	CI*
		(C <sub>6</sub> -C <sub>10</sub> ) (mg/Kg)	(>C <sub>10</sub> -C <sub>28</sub> ) (mg/Kg)	(mg/Kg)
ANALYSIS DATE		02/02/06	02/02/06	02/02/06
H10693-1	AH HUSTON NE	<10.0	325	144
Quality Control		793	742	500
True Value QC		800	800	500
% Recovery		99.1	92.7	100
Relative Percent Difference		<0.1	2.3	8.0

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CI: Std. Methods 4500-CI B

\*Analysis performed on a 1:4 w:v aqueous extract.

  
Chemist

  
Date

H10693A.XLS

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.

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

Page 1 of 1

(915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2478		<b>ANALYSIS REQUEST</b>																																
Company Name: <b>BBC International, Inc.</b> Project Manager: <b>Cliff Brunson</b> Address: <b>1324 W. Marland</b> City: <b>Hobbs</b> State: <b>NM</b> Zip: <b>88240</b> Phone #: <b>505-397-6388</b> Fax #: <b>505-397-0397</b> Project #: _____ Project Owner: <b>Amerada Hess</b> Project Name: <b>A.H.C. Huston Battery 28</b> Project Location: <b>Monument</b> Sampler Name: <b>Amy Ruth</b>		<b>BILL TO</b> P.O. #: <b>45-157156</b> Company: <b>Amerada Hess</b> Attn: <b>Randy Barnes</b> Address: _____ City: <b>Monument</b> State: <b>NM</b> Zip: <b>88265</b> Phone #: _____ Fax #: _____																																
FOR LAB USE ONLY	Lab I.D. _____ Sample I.D. _____	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th rowspan="2">MATRIX</th> <th rowspan="2"># CONTAINERS</th> <th colspan="5">PRESERV.</th> <th rowspan="2">DATE</th> <th rowspan="2">TIME</th> </tr> <tr> <th>GROUNDWATER</th> <th>WASTEWATER</th> <th>SOIL</th> <th>CRUDE OIL</th> <th>SLUDGE</th> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td><input checked="" type="checkbox"/></td> <td></td> <td></td> <td>2/1/06</td> <td>1107am</td> </tr> </table>	MATRIX	# CONTAINERS	PRESERV.					DATE	TIME	GROUNDWATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE					<input checked="" type="checkbox"/>			2/1/06	1107am	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th rowspan="2">OTHER:</th> <th rowspan="2">ACID/BASE:</th> <th rowspan="2">ICE / COOL</th> <th rowspan="2">OTHER:</th> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table>	OTHER:	ACID/BASE:	ICE / COOL	OTHER:				
MATRIX	# CONTAINERS	PRESERV.					DATE	TIME																										
		GROUNDWATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE																												
				<input checked="" type="checkbox"/>			2/1/06	1107am																										
OTHER:	ACID/BASE:	ICE / COOL	OTHER:																															
H10683-1 AH Huston NE		✓ Chloride ✓ TPH 8015 MGD ✓ BTEX																																

**PLEASE NOTE:** Liability and Damages. Cardinal's liability and that of its subsidiaries, Cardinal's liability and that of its subsidiaries, shall be limited to the amount paid by the client for the services. 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).

**Terms and Conditions:** Interest will be charged on all accounts more than 30 days past due at the rate of 2 1/4% per annum from the original date of invoice, and all costs of collections, including attorney's fees.

Sampler Relinquished: _____ Relinquished By: <i>Amy Ruth</i> Delivered By: (Circle One) Sampler / UPS - Bus - Other: _____	Received By: _____ Date: 2/1/06 Time: 2:38 pm	Received By: (Lab Staff) <i>Neil Tullis</i> Checked By: _____ Sample Condition Cool/Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: _____ Add'l Fax #: _____
REMARKS: AFE # MONUM 06ES001			

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



# ARDINAL LABORATORIES

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

Receiving Date: 02/16/06  
Reporting Date: 02/22/06  
Project Number: MONUM06ES001  
Project Name: A.H.C. HUSTON BATTERY 28  
Project Location: MONUMENT, NM

Sampling Date: 02/16/06  
Sample Type: SOIL  
Sample Condition: COOL & INTACT  
Sample Received By: HM  
Analyzed By: BC/HM

LAB NUMBER SAMPLE ID	GRO (C <sub>6</sub> -C <sub>10</sub> ) (mg/Kg)	DRO (>C <sub>10</sub> -C <sub>28</sub> ) (mg/Kg)	Cl* (mg/Kg)
ANALYSIS DATE	02/20/06	02/20/06	02/17/06
H10756-1 AH HUSTON 3	<10.0	<10.0	16
Quality Control	786	783	490
True Value QC	800	800	500
% Recovery	98.2	97.9	98.0
Relative Percent Difference	3.8	1.6	2.0

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; Cl: Std. Methods 4500-ClB

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

Chemist

*Burgess A. Cooke*

Date

2/22/06

H10756A.XLS

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

Receiving Date: 02/16/06  
Reporting Date: 02/22/06  
Project Number: MONUM06ES001  
Project Name: A.H.C. HUSTON BATTERY 28  
Project Location: MONUMENT, NM

Sampling Date: 02/16/06  
Sample Type: SOIL  
Sample Condition: COOL & INTACT  
Sample Received By: HM  
Analyzed By: BC

LAB NUMBER	SAMPLE ID	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS DATE		02/17/06	02/17/06	02/17/06	02/17/06
H10756-1	AH HUSTON 3	<0.005	<0.005	<0.005	<0.015
Quality Control		0.094	0.092	0.092	0.262
True Value QC		0.100	0.100	0.100	0.300
% Recovery		93.6	92.4	92.4	87.5
Relative Percent Difference		8.2	6.1	4.7	6.5

METHOD: EPA SW-846 8260

Burgess J. A. Cook  
Chemist

2/22/06  
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 any other person in connection with 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.

H10756B.XLS

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111 Beechwood, Abilene, TX 79603 (915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2476  
101 East Marland/Hobbs, NW 880

Page \_\_\_\_\_ of \_\_\_\_\_

Company Name: <b>RBC International, Inc.</b> Project Manager: <b>Cliff Brunson</b> Address: <b>1324 W. Maryland</b> City: <b>Hobbs</b> State: <b>NM</b> Zip: <b>88260</b> Phone #: <b>505-397-6388</b> Fax #: <b>505-397-0397</b> Project #: <b>MONUM06ES001</b> Project Owner: <b>Amerada Hess</b> Project Name: <b>A.H.C. Huston Battery 28</b> Project Location: <b>Monument</b> Sampler Name: <b>Amy Ruth</b>		P.O. #: <b>45-157156</b> Company: <b>Amerada Hess</b> Attn: <b>Randy Barnes</b> Address: City: <b>Monument</b> State: <b>NM</b> Zip: <b>88265</b> Phone #: Fax #: <b>BILL TO</b>		ANALYSIS REQUEST	
Lab I.D.		Sample I.D.			
H10756-1 AH Huston 3		Chloride TPH 8015 MOD BTEX			
Matrix:		PRESERV.		SAMPLING	
(G)RAB DR (C)OMP.		# CONTAINERS		DATE TIME	
WASTEWATER		GROUNDWATER		2/16/06 837am	
SOIL		CRUDE OIL		OTHER:	
SLUDGE		ACID/BASE:		ICE / COOL	
OTHER:		OTHER:		OTHER:	

Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Received By: \_\_\_\_\_  
 Relinquished By: \_\_\_\_\_  
 Delivered By: (Circle One) \_\_\_\_\_  
 Sampler - UPS - Bus - Other: \_\_\_\_\_

Date: 2/16/06 Time: 2:35 PM  
 Received By: (Lab Staff) \_\_\_\_\_  
 Checked By: \_\_\_\_\_ (Initials)  
 Sample Condition: Cool ☒ Intact ☒  
 Yes ☒ No ☐

Phone Result: ☐ Yes ☐ No Add'l Phone #: \_\_\_\_\_  
 Fax Result: ☐ Yes ☐ No Add'l Fax #: \_\_\_\_\_  
 REMARKS:

PLEASE NOTE: Liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the service. In no event shall liability or damages exceed the amount paid by the client for the service. In no event shall liability or damages exceed the amount paid by the client for the service. In no event shall liability or damages exceed the amount paid by the client for the service.

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

# **APPENDIX III**

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## **Site Photographs**

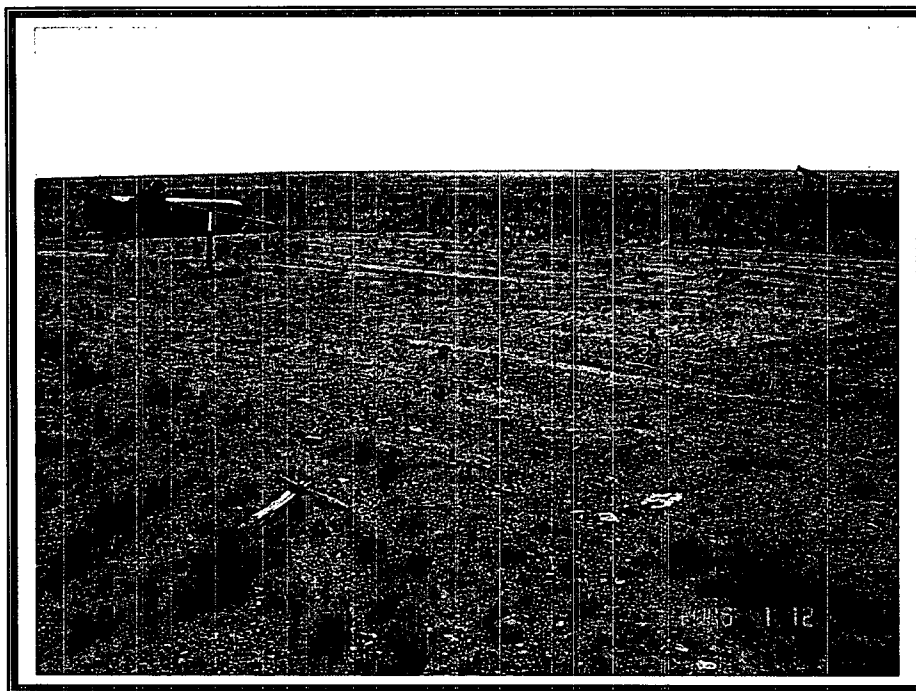
### **A.H.C. Huston Battery #28** Monument, New Mexico

Prepared for:  
Amerada Hess Corporation  
Seminole, Texas

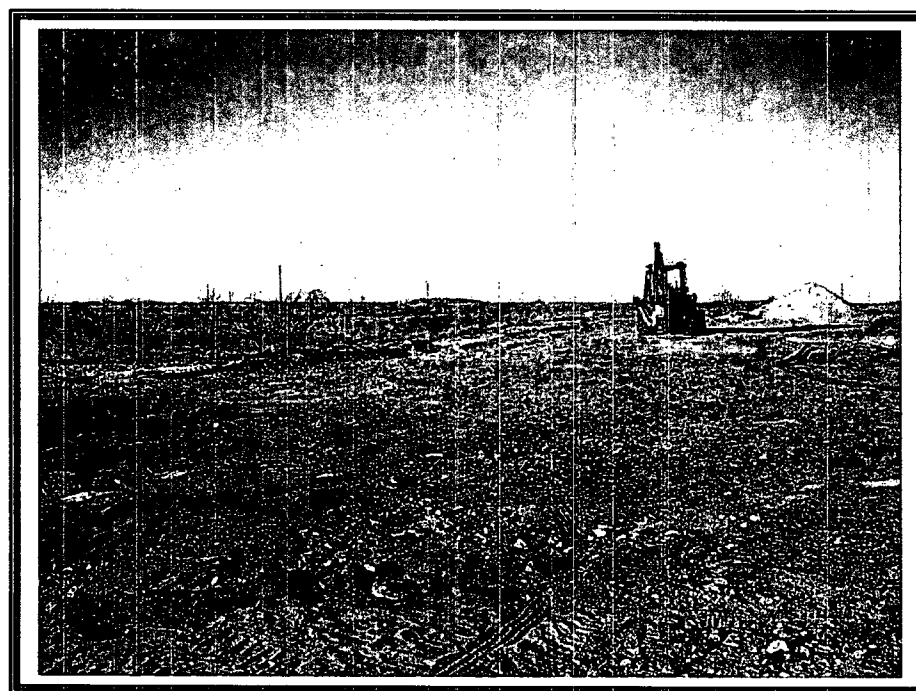
**March, 2006**

Prepared by:  
BBC International, Inc.

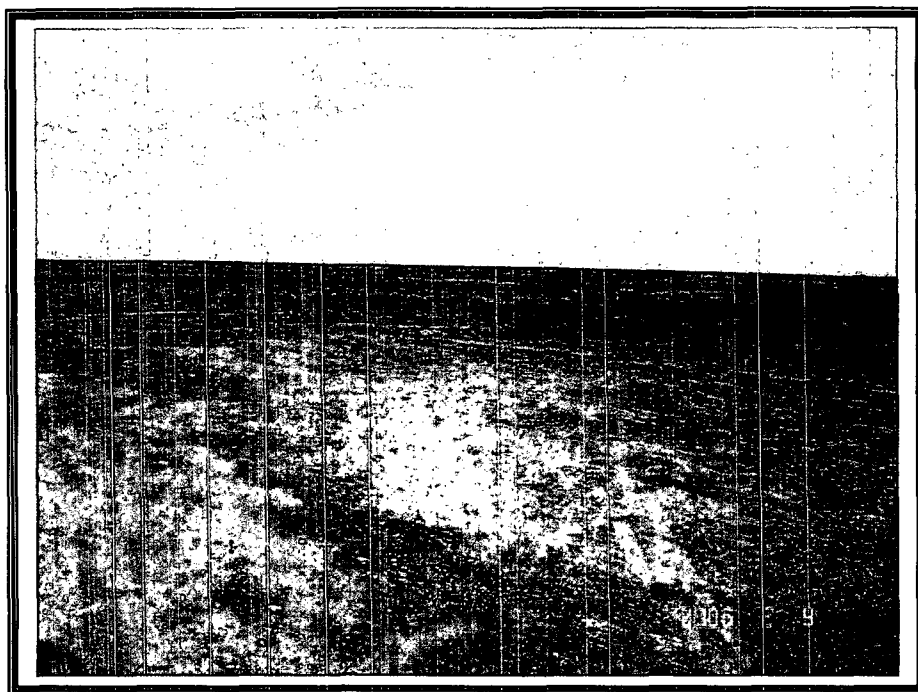




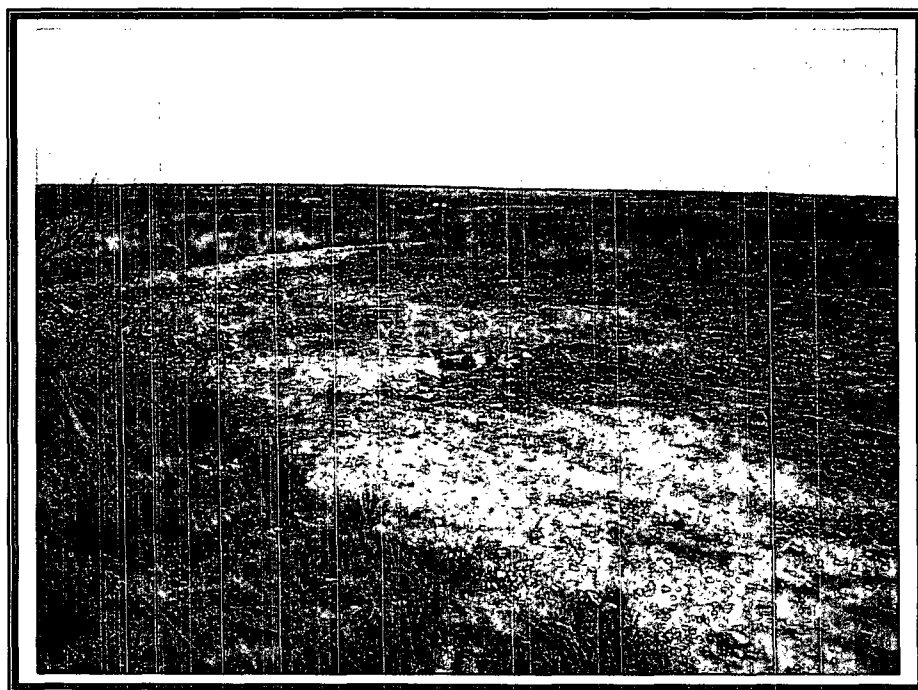
East end and center of A.H.C. Huston Battery #28 after clean soil removed from the surface.



Center and west end of A.H.C. Huston Battery #28 after clean soil removed from the surface.



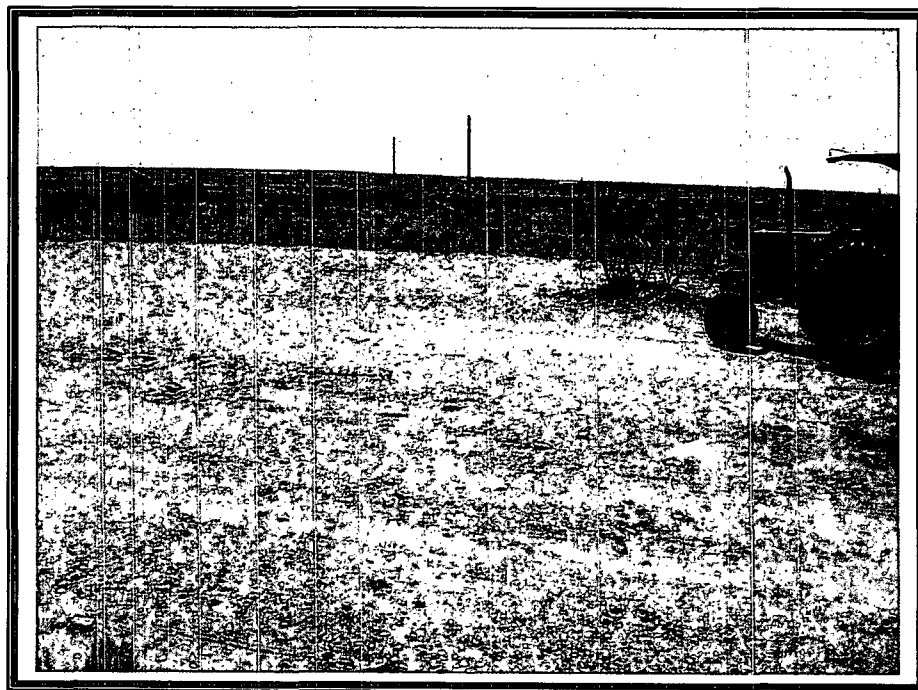
East end and center of A.H.C. Huston Battery #28 after excavation.



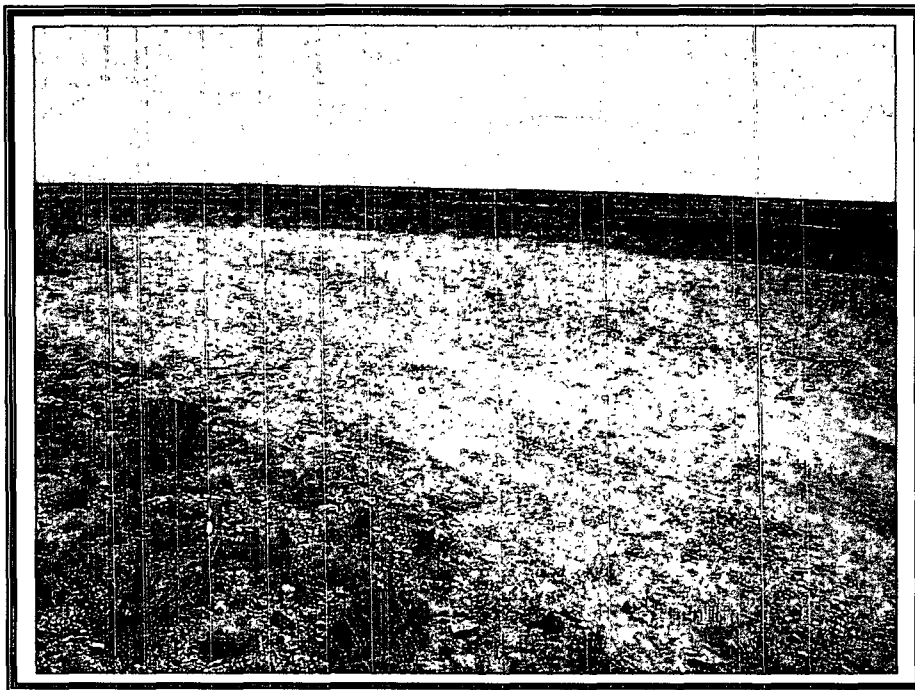
Northeast corner of A.H.C. Huston Battery #28 after excavation.



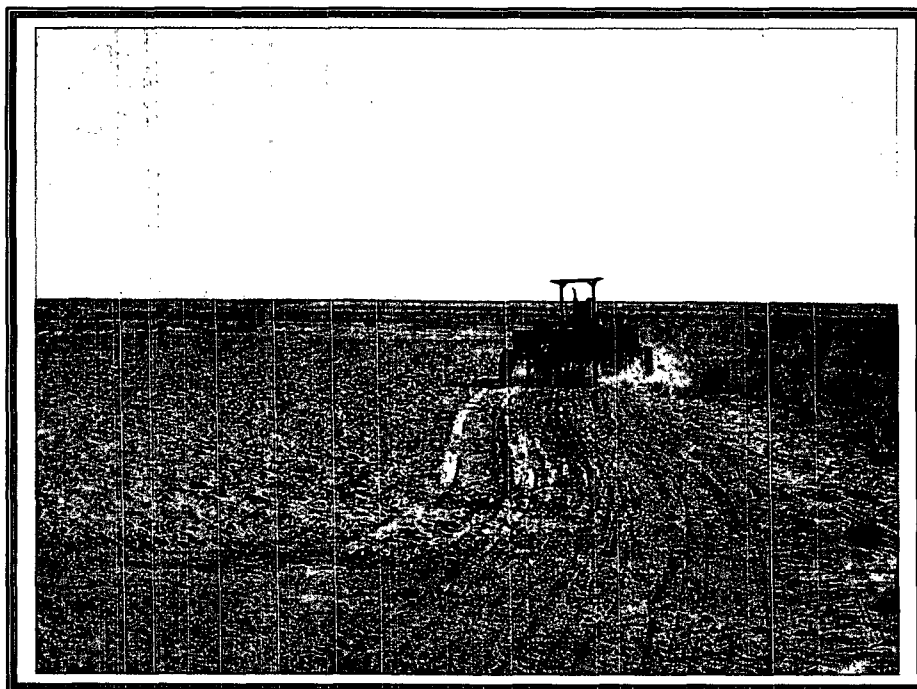
West end and center of A.H.C. Huston Battery #28 after excavation.



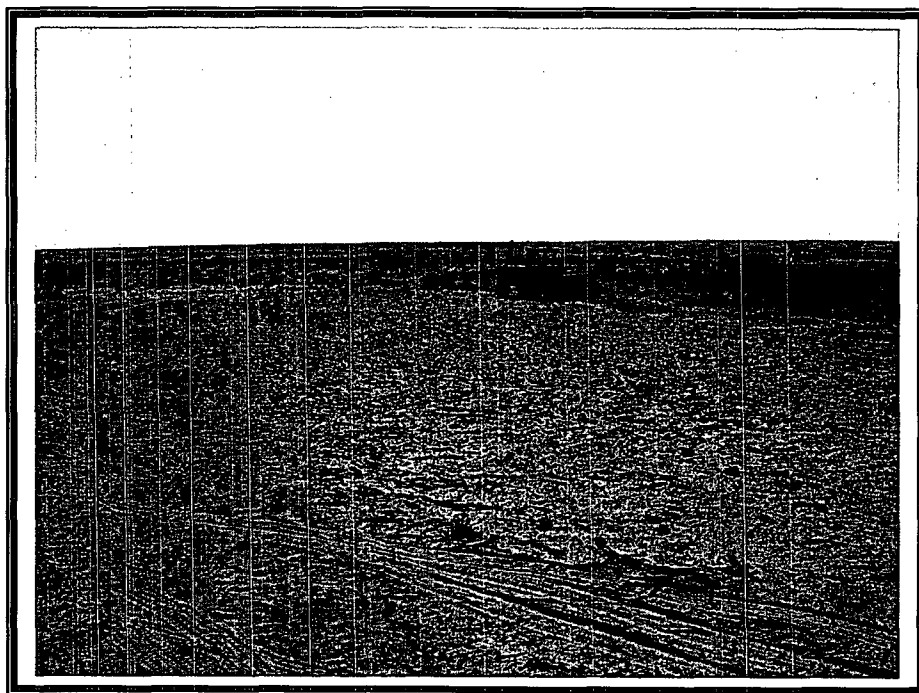
West end of A.H.C. Huston Battery #28 after backfill.



East end and center of A.H.C. Huston Battery #28 after backfill.



A.H.C. Huston Battery #28 reseeding.



A.H.C. Huston Battery #28 reseeding.

# **APPENDIX IV**

---

## **Correspondences**

### **A.H.C. Huston Battery #28** Monument, New Mexico

Prepared for:  
Amerada Hess Corporation  
Seminole, Texas

**March, 2006**

Prepared by:  
BBC International, Inc.

**Amy C. Ruth**

**From:** Amy C. Ruth [Amy@bbcinternational.com]  
**Sent:** Wednesday, February 15, 2006 1:39 PM  
**To:** 'psheeley@state.nm.us'  
**Cc:** 'rbarnes@hess.com'; 'jbaker@hess.com'; Jennifer (jgilkey@bbcinternational.com); 'Cliff P. Brunson'  
**Subject:** Re: Sampling Event-Amerada Hess Monument Abandoned Battery

<b>Tracking: Recipient</b>	<b>Read</b>
'psheeley@state.nm.us'	
'rbarnes@hess.com'	Read: 2/15/2006 2:20 PM
'jbaker@hess.com'	
Jennifer (jgilkey@bbcinternational.com)	Read: 2/15/2006 3:01 PM
'Cliff P. Brunson'	

Addition: BBC will sample the A.H.C. Huston Battery #28 at 8:30 am tomorrow morning.

---

**From:** Amy C. Ruth [mailto:Amy@bbcinternational.com]  
**Sent:** Wednesday, February 15, 2006 9:51 AM  
**To:** 'psheeley@state.nm.us'  
**Cc:** 'rbarnes@hess.com'; 'jbaker@hess.com'; Jennifer (jgilkey@bbcinternational.com); 'Cliff P. Brunson'  
**Subject:** Sampling Event-Amerada Hess Monument Abandoned Battery

Paul,

BBC collected samples for Amerada Hess at the A.H.C. Huston Battery #28 on January 20, 2006 from the bottom of the excavated area. Of those samples, all were well under required limits with the exception of one sample in the northeast corner. This sample had a TPH-DRO level of 703 ppm. Amerada has excavated this area, and BBC will resample the floor of the northeast corner tomorrow, February 16, 2006. The site is located about a mile north of Monument, just off of Highway 8 to the east. Following are legals and GPS coordinates for your convenience. *Please call me if you have questions.* Thank you.

**A.H.C. Huston Battery #28**

Sec 21, T19S, R37E

N 32° 38.616'  
W 103° 15.595'

**Amy C. Ruth**  
Environmental Scientist  
BBC International, Inc.  
Phone: 505-397-6388  
Cell: 505-441-5252

4/18/2006

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-141  
Revised October 10, 2003

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	Amerada Hess Corporation	Contact	Randy Barnes
Address	P.O. Box 840, Seminole, TX 79360	Telephone No.	(432) 758-6778
Facility Name	A.H.C. Huston Battery #28	Facility Type	Abandoned Tank Battery

Surface Owner	Mineral Owner	Lease No.
---------------	---------------	-----------

### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
K	21	19S	37E					

83' Latitude 32° 38.616' Longitude 103° 15.595'

### NATURE OF RELEASE

Type of Release	Historical	Volume of Release	Unknown	Volume Recovered	Unknown
Source of Release	Unknown	Date and Hour of Occurrence		Date and Hour of Discovery	
Was Immediate Notice Given?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?			
By Whom?		Date and Hour			
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.\*

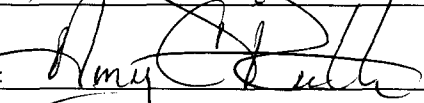
Describe Cause of Problem and Remedial Action Taken.\*

Hydrocarbon contamination of soil by oil production activities. Site investigation was conducted in preparation for cleanup activities. Multiple soil samples were collected and sent to a laboratory for analyses. A remediation plan was developed.

Describe Area Affected and Cleanup Action Taken.\*

Contaminated soil was removed from the site and taken to a NMOCD approved landfarm. Before backfilling, closing samples were collected to confirm compliance to guidelines. The site was backfilled with clean soil, contoured, and reseeded.

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: 		<u>OIL CONSERVATION DIVISION</u>	
Printed Name: Amy C. Ruth		Approved by District Supervisor:	
Title: Environmental Scientist		Approval Date:	Expiration Date:
E-mail Address: amy@bbcinternational.com		Conditions of Approval:	
Date: 5/9/06 Phone: (505) 397-6388		Attached <input type="checkbox"/>	

\* Attach Additional Sheets If Necessary