

## **AMERADA HESS CORPORATION**

## STATE "L" & "T" BATTERY #23 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 (505)397-6388 • FAX (505)397-0397 EMAIL: bbc@bbcinternational.com WEBSITE: www.bbcinternational.com

MARCH 1, 2006

PREPARED FOR:

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

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## 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 24, 2006

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

Re: State "L" & "T" Battery #23 Site Closure Approval Unit B, Section 20-Township 19 South-Range 37 East Dated: March 1, 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: <u>psheeeley@state.nm.us</u>

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 State "L" & "T" Battery #23

### **1.0 INTRODUCTION**

The subject site is north of Monument, New Mexico in Lea County in Unit Letter B, of Section 20, 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 16,500 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 greater 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. Excavation began on January 11, 2006.

On January 12, 2006, during excavation activities, BBC personnel collected one soil sample at two (2) feet below ground surface (bgs) in the central part of the site under the tank pad. The sample was tested for total petroleum hydrocarbons (TPH) – gasoline range organics (GRO)/diesel range organics (DRO). GRO was non-detect and the DRO level was 40.2 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.

While excavation proceeded on the north end of the site, BBC returned on January 13, 2006 to collect seven (7) samples at one (1) foot bgs from the south end of the site. The TPH results were non-detect for GRO. DRO appeared from 23 ppm to 316 ppm.



## NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON Governor Joanna Prukop Cabinet Secretary Mark E. Fesmire, P.E. Director Oil Conservation Division

December 5, 2005

Sam Small Amerada Hess Corporation, (Amerada) POB 840 Seminole, TX 79360

Re: NMGSAU Abandon Battery Sites-Corrective Action Plan Approval using the "Generic Plan" that follows NMOCD Guidelines. Dated: September 24, 2005

Dear Mr. Small,

The New Mexico Oil Conservation Division (OCD) has reviewed the corrective action work plan submitted by Amerada for the abandon sites of the NMGSAU and referenced above. The work plan is **hereby approved** including the following:

- 1. Amerada shall delineate each site including chloride impact and: Propose, (for OCD approval), a soil remediation level demonstrating that remaining chloride contamination will not cause an exceedance of the New Mexico Water Quality Control Commission (WQCC) groundwater standard of 250 mg/L [Chloride].
- 2. Amerada shall notify Paul Sheeley and Larry Johnson, (by email), a minimum of 48-hr before sampling, drilling and backfilling any site before closure approval is granted.
- 3. Amerada shall provide OCD with the list of batteries where corrective action has been completed and a current list of all the abandon battery sites pending corrective action covered by this plan.

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: <u>psheeeley@state.nm.us</u>

Sincerely,

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Paul Sheeley-Énvironmental Engineer xc: Roger Anderson - Environmental Bureau Chief Chris Williams - District I Supervisor Larry Johnson - Environmental Engineer

On January 16, 2006, BBC collected seven (7) samples from the bottom of the near completed excavation. GRO was non-detect for all samples and DRO ranged from non-detect to 87.9 ppm.

On January 17, 2006, BBC and Amerada notified the NMOCD of the final sampling to take place on January 18, 2006.

Hauling was completed on January 18, 2006, and ten (10) closure samples were collected. 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 211 ppm. Chloride levels were from 16 ppm to 128 ppm. All laboratory analytical results for the site can be found in **Appendix II** of this report.

E.D. Walton began backfilling the site on January 23, 2006. Backfilling and contouring was completed with a total of 580 yards of clean soil on February 5, 2006. The site was reserved on February 16, 2006.

#### 4.0 CONCLUSION

According to the United States Geological Survey, depth to groundwater is <u>greater than 50 feet</u>. There are no water sources or surface water bodies within 1,000 horizontal feet. Therefore, the laboratory data for this site indicates that BTEX, TPH (GRO/DRO), and chloride levels are all within NMOCD guidelines.

# **APPENDIX I**

## **Site Diagrams**

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## State "L" & "T" Battery #23 Monument, New Mexico

Prepared for: Amerada Hess Corporation Seminole, Texas

March, 2006

Prepared by: BBC International, Inc.



# **APPENDIX II**

## Laboratory Analytical Results

## State "L" & "T" Battery #23

Monument, New Mexico

Prepared for: Amerada Hess Corporation Seminole, Texas

March, 2006

Prepared by: BBC International, Inc.



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: STATE L&T BATTERY 23 Project Location: MONUMENT, NM Sampling Date: 01/12/06 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: NF Analyzed By: BC

	GRO	DRO
	(C <sub>6</sub> -C <sub>10</sub> )	(>C <sub>10</sub> -C <sub>28</sub> )
LAB NUMBER SAMPLE ID	(mg/Kg)	(mg/Kg)
ANALYSIS DATE:	01/13/06	01/13/06
H10607-1 AH L&T 1 @ 2'	<10.0	40.2
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

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Date

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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. STATE L&T BATTERY 23 Project Location: MONUMENT, NM Sampling Date: 01/13/06 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: NF Analyzed By: BC

		GRO	DRO
		(C <sub>6</sub> -C <sub>10</sub> )	(>C <sub>10</sub> -C <sub>28</sub> )
LAB NO.	SAMPLE ID	(mg/Kg)	(mg/Kg)
			1
ANALYSIS [	DATE:	01/16/06	01/16/06
H10615-1	AH L&T 1 @ 1.5'	<10.0	32.1
H10615-2	AH L&T 2 @ 1.5'	<10.0	287
H10615-3	AH L&T 3 @ 1.5'	<10.0	53.2
H10615-4	AH L&T 4 @ 1.5'	<10.0	316
H10615-5	AH L&T 5 @ 1.5'	<10.0	207
H10615-6	AH L&T 6 @ 1'	<10.0	76.7
H10615-7	AH L&T 7 @ 1'	<10.0	23.0
Quality Cont	trol	800	802
True Value (	2C	800	800
% Recovery		100	100
Relative Per	cent Difference	0.8	0.3

METHOD: SW-846 8015 M

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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. STATE "L&T" BATT. 23 Project Location: MONUMENT, NM Sampling Date: 01/16/06 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: BC Analyzed By: BC

		GRO	DRO
		(C <sub>6</sub> -C <sub>10</sub> )	(>C <sub>10</sub> -C <sub>28</sub> )
LAB NUMBER	SAMPLE ID	(mg/Kg)	(mg/Kg)
ANALYSIS DAT	E:	01/17/06	01/17/06
H10621-1	AH L&T 1	<10.0	39.5
H10621-2	AH L&T 2	<10.0	87.9
H10621-3	AH L&T 3	<10.0	14.7
H10621-4	AH L&T 4	<10.0	<10.0
H10621-5	AH L&T 5	<10.0	<10.0
H10621-6	AH L&T 6	<10.0	33.9
H10621-7	AH L&T 7	<10.0	59.3
Quality Control		767	803
True Value QC		800	800
% Recovery		95.9	100
Relative Percer	t Difference	2.1	8.7

METHOD: SW-846 8015 M

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

Receiving Date: 1/18/06 Reporting Date: 1/23/06 Project Number: NOT GIVEN Project Name: A.H.C. STATE "L" & "T" Batt. 23 Project Location: MONUMENT Sampling Date: 1/18/06 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: BC Analyzed By: JC

					TOTAL
LAB NUMBER	R SAMPLE ID	BENZENE	TOLUENE	ETHYLBENZE	XYLENES
		(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
ANALYSIS D	ATE:	1/20/2006	1/20/2006	1/20/2006	1/20/2006
H10633-1	AHL&T1	< 0.002	0.003	< 0.002	<0.006
H10633-2	AHL&T2	<0.002	<0.002	< 0.002	<0.006
H10633-3	AHL&T3	< 0.002	<0.002	<0.002	<0.006
H10633-4	AHL&T4	< 0.002	<0.002	<0.002	< 0.006
H10633-5	AHL&T5	<0.002	<0.002	<0.002	<0.006
H10633-6	AHL&T6	< 0.002	<0.002	<0.002	< 0.006
H10633-7	AHL&T7	<0.002	<0.002	<0.002	<0.006
H10633-8	AHL&T8	< 0.002	<0.002	<0.002	<0.006
H10633-9	AHL&T9	< 0.002	<0.002	<0:002	<0.006
H10633-10	AH L & T 10	< 0.002	<0.002	<0.002	<0.006
Quality Contro	ol	0.104	0.098	0.100	0.279
True Value Q	С	0.100	0.100	0.100	0.300
% Recovery		104%	98%	100%	93%
Relative Perc	ent Difference	4.0%	5.5%	5.4%	5.6%

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

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Receiving Date: 01/18/06 Reporting Date: 01/25/06 Project Number: NOT GIVEN Project Name: A.H.C. STATE "L" & "T" BATT. 23 Project Location: MONUMENT, NM Sampling Date: 01/18/06 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: BC Analyzed By: BC/HM

	GRO	DRO	
	$(C_{6}-C_{10})$	(>C <sub>10</sub> -C <sub>28</sub> )	Cl*
LAB NUMBER SAMPLE ID	(mg/Kg)	(mg/Kg)	(mg/Kg)
ANALYSIS DATE	01/23/06	01/23/06	01/19/06
H10633-1 AH L&T 1	<10.0	<10.0	16
H10633-2 AH L&T 2	<10.0	87.1	96
H10633-3 AH L&T 3	<10.0	211	128
H10633-4 AH L&T 4	<10.0	120	32
H10633-5 AH L&T 5	<10.0	142	48
H10633-6 AH L&T 6	<10.0	17.7	32
H10633-7 AH L&T 7	<10.0	28.6	48
H10633-8 AH L&T 8	<10.0	30.1	32
H10633-9 AH L&T 9	<10.0	16.8	64
H10633-10 AH L&T 10	<10.0	19.8	16
Quality Control	787	792	500
True Value QC	800	800	500
% Recovery	98.4	98.9	100
Relative Percent Difference	1.4	1.1	0.0

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CI<sup>\*</sup>: Std. Methods 4500-CI<sup>\*</sup>B \*Analyses performed on 1:4 w:v aqueous extracts.

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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 limiked 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.

Inclusion the original data of 1 CHAIN-OF-CUSTODY AND ANALYSIS REQUEST 0 30 days past das x ha jala d'24% per innun hor and af costs of colordina, bridding adonta/s feat Page REQUES' Ţ Add'l Phone #: Add'l Fax #: ANALYSIS PITHE MINE CON XJ18 (GEP/PED) Jaw 5198 HdL 0'002 8/40 HJ3 ride Phone Result Fax Result: REMARKS: 18/06 1108 am phyton of the replica 06 1035 am 18/06 1038 am 18/06 1045 am 18/06 1051 am 19/06/055 3m 1103 am 18/06 1030 am 18/64 1059 am 1025am Hess TIME tert. It subsidiaries. State: NM Zlp: 88265 SAMPLING CHY: Nonument Company: Hmerada 118/06 18/06 BILL TO Attn: Sam Sima DATE P.O. # Drawer 101 East Marland, Hobbs, NM 88240 181 (initials) (505) 393-2326 Fax (505) 393-2476 PRESERV. : язнтс Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476. Address: ICE / COOF Phone #: Fax #: :32A8\GIOA : ABHTO Received By: (Lab Staff SUDDEE Project OWINET: HAN ET 2 des MATRUX CKNDE OIL 397-0397 30 JIOS State: NM ZIP: 8824D **ABTAWBTZAW** ecelved a mo È The Batt. **АЭТАWONUOЯЭ** ARDINAL LABORATORIES, INC. # CONTAINERS 55 ব 2 ৎগ I (G) RAB OR (C) OMP. いだ **৫ মু ৫ মু** 2111 Beechwood, Abilene, TX 79603 (915) 673-7001 Fax (915) 673-7020 International Fax #: 505-10 1 1 1 + V 106 8 Brueson Marland Time: ())() ())() Date: Date Sample I.D. Ŵ Project Location: Mon Lum en ٩ Style Ľ 0 Do Phone # 505- 397- 6388 ł + + すす reacted to the parts + Sampler - UPS - Bus - Other: Circle One 7 7 Company Name: BBC HMM In me were work Cardinal by Jacks A.H. F Ŧ ात्मन र २०००४० १४४५ वर्ष व व Sampler Reilnquished AH H V 44 AH A H T T AH nort unbug 1324 Project Manager: Sampler Name: city: Hobbs đ 0)-Project Name: HI0633H ſ,  $\hat{i}$ 5 LEISE NOTE: LEISEN FOR LAB USE CNLY telinguished Lab I.D. Vmu Address: Device A ceim live R Project # R

# **APPENDIX III**

## **Site Photographs**

### State "L" & "T" Battery #23 Monument, New Mexico

Prepared for: Amerada Hess Corporation Seminole, Texas

March, 2006

Prepared by: BBC International, Inc.





State "L" & "T" January 12, 2006, view of north end of site



State "L" & "T" January 12, 2006, view of south end of site



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State "L" & "T" January 18, 2006, view of south end of site after excavation complete



State "L" & "T" January 18, 2006, view from the southeast corner toward the north end of the site after excavation complete



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State "L" & "T" February 9, 2006, view of site from southwest corner after backfill complete



State "L" & "T" February 9, 2006, view of site from southwest corner after backfill complete





State "L" & "T" February 9, 2006, view of site from southeast corner during reseeding



State "L" & "T" February 9, 2006, view of site from southeast corner during reseeding





State "L" & "T" February 9, 2006, view of site from southeast corner after reseeding

Surface Owner

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

Lease No.

### **Release Notification and Corrective Action**

	OPERATOR	Initial Report	X 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 State "L"&"T" Battery #23	Facility Type Abandoned Tan	k Battery	
Facinty Name State L & I Battery #25	racinty type Abandoned fail	K Dattery	

#### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
В	20	19S	37E					Lea

μ<sup>δ</sup> Latitude <u>32° 38.964</u> Longitude <u>103° 16.288</u>

Mineral Owner

#### **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?	If YES, To Whom?			
🗋 Yes 🔲 No 🐼 Not Required				
De U/hom?	Date and Hour	·····		
By Whom? Was a Watercourse Reached?	If YES, Volume Impacting the Wa	taraquiraq		
Yes X No	IT TES, Volume Impacting the wa	icicouise.		
If a Watercourse was Impacted, Describe Fully.*	1			
Describe Cause of Problem and Remedial Action Taken.*				
Hydrocarbon contamination of soil by oil production activities. S				
Multiple soil samples were collected and sent to a laboratory for a	analyses. A remediation plan was	developed.		
Describe Area Affected and Cleanup Action Taken.*		70.5 177 <b>0</b> 194 <b>8</b>		
Contaminated soil was removed from the site and taken to a NMC	OCD approved landfarm. Before b	ackfilling, closing samples were		
collected to confirm compliance to guidelines. The site was back				
1 8	, ·, ··, ··-			
I have be sentified by the information given about is to a set of the second seco	the bast of more larger day and the day			
I hereby certify that the information given above is true and complete to regulations all operators are required to report and/or file certain release				
public health or the environment. The acceptance of a C-141 report by t	he NMOCD marked as "Final Report"	does not relieve the operator of liability		
should their operations have failed to adequately investigate and remedia				
or the environment. In addition, NMOCD acceptance of a C-141 report				
federal, state, or local laws and/or regulations.				
	OIL CONSER	VATION DIVISION		
	<u></u>			
Signature: MMY Tul				
	Approved by District Supervisor:			
Printed Name: Amy C. Ruth				
Title: Environmental Scientist	Approval Date:	Expiration Date:		
	Approval Date.			
E-mail Address: amy@bbcinternational.com	Conditions of Approval:			
		Attached		
Date: 5/9/06 Phone: (505) 397-6388				

\* Attach Additional Sheets If Necessary