AP - 019

STAGE 2 REPORT

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NMGSAU BATTERY #94

STAGE 2 ABATEMENT PLAN (AP-19)
FINAL REPORT

JANUARY 2007

HESS CORPORATION
(Formerly Amerada Hess Corp.)
MONUMENT, NM

PREPARED BY:

BBC INTERNATIONAL, INC.
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1.0 INTRODUCTION

The subject site is located southeast of Monument, NM in Section 3, T-20-S, R-36-E of Lea County. Assessment activities were conducted at the abandoned Amerada Hess Corporation (AHC, Hess) operated NMGSAU Battery No. 94, situated within the boundary of the C & C Landfarm. Site pictures are available in **Appendix I**.

AHC purchased the well and tank battery equipment as well as the San Andres rights beneath the Cooper F & G leases from the Byrom Oil Company in 1989. The contamination was resultant from battery and evaporation pit operations.

In August of 2000 AHC proposed to excavate, take samples, install a clay barrier depending on degree of contamination, blend contaminated stockpile with clean material until total petroleum hydrocarbon (TPH) concentration fell below 5000 ppm, backfill with blended material up to three (3) feet of the surface, and complete backfilling with clean soil. It was proposed that excavation would begin with the obvious surface contamination to two (2) feet below ground surface (bgs). Excavation would proceed until TPH bottom hole levels fell below 5000 parts per million (ppm). If, from that point TPH levels of <1000 ppm could be reached within a further five feet, excavation would continue to that point.

During excavation operations in October of 2000, significant hydrocarbon contamination was followed to a depth of thirty one (31) feet with no indication that bottom would be reached. Groundwater contaminated with crude oil was encountered at thirty four (34) feet bgs.

In accordance with SW Rule 19, E, (2)(b)(3), AHC submitted a Stage 1 Abatement Plan to the New Mexico Oil Conservation Division (NMOCD) to determine administrative completion.

The Stage 1 Abatement Plan proposed that four (4) soil borings would be drilled surrounding the excavated area, during which time, soil samples would be collected at vertical intervals and tested for Benzene-Toluene-Ethyl-benzene-Xylene (BTEX), chloride, and Total Petroleum Hydrocarbons (TPH). Three (3) of the soil borings would be placed in the assumed down gradient and one (1) would be placed in the assumed up gradient as all of the soil borings were to be completed as groundwater monitor wells. These monitor wells would then be sampled and analyzed for BTEX, chloride, and Total Dissolved Solids (TDS) concentrations. Groundwater samples would continue to be taken and analyzed quarterly for the first year after drilling and then yearly for the duration of the abatement plan.

The NMOCD granted administrative completion to the Stage 1 Abatement Plan Proposal on July 5, 2001.

2.0 PUBLIC NOTIFICATION-STAGE 1

As stated in NMOCD Rule 19.G.(1), AHC issued written notice of the Stage 1 proposal to "those persons, as identified by the Director, who have requested notification".

Pursuant to NMOCD Rule 19.G.(2), AHC's Stage 1 notice of publication was issued in the Albuquerque Journal, the Lovington Daily Leader, and the Hobbs News Sun.

2.1 NMOCD Rule 19.G

G. Public notice and participation

(1) Prior to public notice, the applicant shall give written notice, as approved by the division, of stage 1 and stage 2 abatement plans to the following persons:

(a) surface owners of record within one (1) mile of the perimeter of the geographic area where the standards and requirements set forth in Subsection B of Section 19.15.1.19 NMAC are exceeded;

(b) the county commission where the geographic area where the standards and requirements set forth in Subsection B of Section 19.15.1.19 NMAC are exceeded is located;

(c) the appropriate city official(s) if the geographic area where the standards and requirements set forth in Subsection B of Section 19.15.1.19 NMAC are exceeded is located or is partially located within city limits or within one (1) mile of the city limits;

(d) those persons, as identified by the director, who have requested notification, who shall be notified by mail;

(e) the New Mexico trustee for natural resources, and any other local, state or federal governmental agency affected, as identified by the director, which shall be notified by certified mail;

(f) the appropriate governor or president of any Indian tribe, pueblo or nation if the geographic area where the standards and requirements set forth in Subsection B of Section 19.15.1.19 NMAC are exceeded is located or is partially located within tribal boundaries oar within one (1) mile of the tribal boundaries, who shall be notified by certified mail;

(g) the distance requirements for notice may be extended by the director is the director determines the proposed abatement plan has the potential to adversely impact public health or the environment at a distance greater than one (1) mile. The director may require additional notice as needed. A copy and proof of such notice will be furnished to the division.

(2) Within fifteen days after the division determines that a stage 1 abatement plan or a stage 2 abatement plan is administratively complete, the responsible person will issue public notice in a form approved by the division in a newspaper of general circulation in the county in which the release occurred, and in a newspaper of general circulation in the state. For the purposes of this paragraph, an administratively complete stage 1 abatement plan is a document that satisfies the requirements of Section 19.15.1.19 NMAC, Subsection E, Paragraph E (3) and an administratively complete stage 2 abatement plan is a document that satisfies the requirements of Section 19.15.1.19 NMAC, Subsection E, Paragraph (4), Subparagraph (b). The public notice shall include, as approved in advance by the director:

(a) name and address of the responsible person;

(b) location of the proposed abatement;

(c) brief description of the source extent, and estimated volume of release, whether the release occurred into the vadose zone, ground water or surface water; and a description of the proposed stage 1 or stage 2 abatement plan;

(d) brief description of the procedures followed by the director in making a final determination;

(e) statement that a copy of the abatement plan can be viewed by the public at the division's main office or at the division's district office for the area in which the release occurred, and a statement describing how the abatement plan can be accessed by the public electronically from a division-maintained site if such access is available;

(f) statement that the following comments and requests will be accepted for consideration if received by the director within thirty (30) days after the date of publication of the public notice:

(i) written comments on the abatement plan; and

(ii) for a stage 2 abatement plan, written requests for a public hearing that include reasons why a hearing should be held.

(g) address and phone number at which interested persons may obtain further information.

AHC provided proof of publication and proof of written notice to the NMOCD on August 6, 2001.

3.0 SUMMARY OF STAGE 1 ABATEMENT ACTIVITIES

Stage 1 Abatement activities began on July 26, 2001 with the drilling of four (4) soil borings that were to be completed as monitor wells. By agreement between AHC and Meridian Alliance Group, L.L.C., White Drilling Company positioned the soil borings surrounding the existing excavation.

3.1 Soils Investigation

For each of the four (4) borings soil samples were collected at five (5) foot intervals to maximum depths of forty (40) feet. The samples were field screened by an Organic Vapor Monitor (OVM) to determine which samples would be submitted for laboratory analysis. Millennium Laboratories, Inc. analyzed the samples for BTEX (Method SW-846 5030B/8021B), Chloride (Method EPA 300.0), and TPH (Method 418.1).

All samples directly above the groundwater interface (26 to 29 ft bgs) were submitted. In addition, for each of the borings, the sample with the highest OVM reading was also submitted. In soil borings 2 and 4, the samples in the 26 to 29 ft bgs also had the highest OVM readings. In samples 1 and 3, the highest OVM readings were in the 5 to 7 bgs range. Two samples each were submitted for borings 1 and 3, and one each for borings 2 and 4. A total of six (6) samples were turned in to Millennium Laboratories.

3.2 Groundwater Investigation

The four (4) soil borings were completed as monitor wells following drilling activities. Groundwater was located at about 36 ft from the top of casing (TOC), and trended to the southwest at 0.0015 ft/ft.

Meridian personnel sampled each monitor well on July 7, 2001. Lab results revealed 163 mg/L TPH in MW-2. However, BTEX was non-detect for all four monitor wells. On July 24, 2001, groundwater samples were lab tested for chlorides, and all levels were below New Mexico WQCC Standards. The chloride level in MW-1 showed 97.8 mg/L, MW-2 contained 71.7 mg/L, MW-3 revealed 71.5 mg/L, and MW-4 had 73.9 mg/L. The laboratory data is summarized in a table located in **Table 2**. Site maps are available in **Appendix III**.

BBC sampled the monitor wells on July 30, 31, and August 1, 2002 during which time, a well recharge test was also conducted. BTEX was non-detect for all monitor wells. Chloride results for MW-1, MW-2, MW-3, and MW-4 were 132 mg/L, 88 mg/L, 108 mg/L, and 100 mg/L respectively. The laboratory data is summarized in a table located in **Table 2**. Site maps are available in **Appendix III**.

BBC also sampled groundwater on April 26 and August 17, 2005. Laboratory analyses showed that chloride levels in MW-1 remained at 112 mg/L from April to August. MW-2 levels from April to August remained at 92 mg/L. MW-3 chloride levels decreased from 380 mg/L in April to 208 mg/L in August, and MW-4 levels decreased from 108 mg/L in April to 96 mg/L in August. BTEX remained non-detect. The laboratory data is summarized in a table located in **Table 2**. Site maps are available in **Appendix III**.

4.0 CORRESPONDENCE

On October 18, 2001, the AHC sent a proposal to close the excavation by lining the bottom with three (3) feet of red bed clay, backfilling to within three (3) feet with excavated soil blended with clean soil to less that 5000 ppm TPH and 50 ppm BTEX, and then backfilling the remaining three (3) feet with clean soil.

The NMOCD replied on January 31, 2002 stating that further information is required before evaluating Stage 2 of the abatement. The OCD required soil samples in the 29 to 36 ft bgs in the area of the release site, soil samples from the walls and bottom of the excavation, groundwater samples from under the excavated site, groundwater samples from down gradient of the site, and descriptions of how the monitoring wells were developed.

AHC sent notification to the NMOCD on February 27, 2002 that more accurate depth to groundwater had yet to be determined as there was some question

about the actual static groundwater level, another monitor well would be installed to obtain a down gradient water sample, and AHC proposed not to sample the bottom or walls of the excavation due to safety concerns.

Following a meeting between the NMOCD and AHC, a memo was sent to NMOCD by AHC summarizing the meeting items of discussion. AHC would have the fluid levels in the existing monitor wells confirmed, monitor well recharge rates would be measured to determine whether the groundwater is "protected groundwater" per Rule 19, and the spoil piles would be sampled at two (2) to three (3) feet within the piles and analyzed for TPH and BTEX.

The NMOCD sent notification on April 19, 2002 stating that bottom or wall samples as well as groundwater samples beneath the excavation should be submitted if at all feasible in a safe manner.

On July 30, July 31, and August 1, 2002, BBC International, Inc. conducted groundwater sampling, spoils pile sampling, and performed a well recharge test. Results were submitted to the NMOCD on September 30, 2002.

On May 14, 2003 the NMOCD stated that the BBC results showed the groundwater to be "protectable". If the absence of BTEX impact on groundwater could be shown, the OCD would withdraw the AP process and approve a remediation plan.

AHC submitted a work plan for closure of the NMGSAU Battery No. 94 on September 24, 2004 to the NMOCD. If the NMOCD determined that the operation was to remain under Rule 19, the work plan would be considered a Stage 2 Abatement Plan.

AHC proposed to first prepare the site for safe re-entry of the excavation which may require one or two of the monitor wells to be plugged. Any remaining hydrocarbon contamination exceeding NMOCD threshold concentrations would be removed from the walls and bottom by analyzing composite samples for TPH and BTEX concentrations. The bottom of the excavation would then be lined with two (2) feet of compacted clay and backfilled to ground level with material remediated to acceptable concentrations.

To date, there has been no decision or correspondence from the NMOCD concerning the work plan submitted on September 24, 2004.

5.0 STAGE 2 ABATEMENT PLAN PROPOSAL

AHC proposes to close the NMGSAU Battery 94 site by first preparing the current excavation for safe re-entry of equipment. Once the site is deemed safe to operate in, the excavation will be backfilled with the soil that had been excavated and stockpiled on site.

A significant amount of the soil stockpiled has not been impacted by hydrocarbons as this was over-burden soil that was removed in order to excavate the impacted soil. This soil will first be placed into the bottom of the excavation since it has not been impacted. After this soil has been placed back into the excavation, a clay liner of one (1) foot thickness will be placed into the excavation and compacted to the appropriate Proctor compaction standards. This liner will serve as an impermeable barrier to protect the existing groundwater.

Prior to the remaining soil being placed in the excavation, it will be blended on site with other soil not to exceed the threshold levels of 2000 ppm of Total Petroleum Hydrocarbons (TPH) and 1000 ppm Chloride. Periodic composite samples will be taken of the blended soil for confirmation that the soil is within these thresholds. Upon laboratory confirmation, the blended soil will be placed into the excavation until a depth of three (3) feet below ground surface (bgs) is achieved. In the event that a portion of the impacted soil cannot meet the thresholds, this soil will be disposed of at an NMOCD-approved disposal facility and clean soil will be brought in to replace it.

After reaching the three (3) foot bgs level, a 20 mil poly liner will be placed into the excavation. The poly liner will cover approximately three (3) feet beyond the edges of the area of impact. This liner will serve as an additional impermeable barrier to protect the existing groundwater. The remaining excavation will then be backfilled with clean soil and leveled to grade.

Upon completion of the backfilling activities, AHC will request closure of the site. In the meantime, AHC will continue to monitor the groundwater at the site until an appropriate amount of consecutive quarters of non-detect laboratory results is reached.

6.0 STAGE 2 ABATEMENT PLAN PROCEDURES

Once NMOCD grants administrative completion to the Stage 2 Abatement Plan, AHC, in accordance with Rule 19, will prepare a public notice approved by the NMOCD and will issue the notice in writing to all surface owners within a one mile radius of the site, the list of persons provided by NMOCD that have requested notification, and publish the notice in both local and state papers.

Upon receiving notification from the NMOCD that the Stage 2 Abatement Plan is approved, AHC will commence site activities according to the Stage 2 Abatement Plan.

7.0 STAGE 2 ABATEMENT PLAN SITE CLOSURE ACTIVITIES

On January 17, 2006 NMOCD approved the Stage 2 Abatement Plan. The following details the site activities in accordance with the approval conditions. A copy of the approval letter can be reviewed in **Appendix IV**.

The backfill soil stockpiled near the south side of the pit was blended and then sampled to determine concentrations of total petroleum hydrocarbons (TPH) and chloride. Laboratory results ranged from non-detect to 105 parts per million (ppm) TPH and chloride ranged from 48 ppm to 192 ppm. Soil laboratory analytical data can be found in **Appendix VI** and a summary table of soil laboratory analytical data can be found in **Table 1**.

On March 24, 2006, Hess began site closure activities by preparing the current excavation for safe re-entry. Soil from the stockpile was used to build a ramp on the west side of the excavation and some of the standing water in the bottom of the pit was drained. Stockpile soil was pushed down the ramp into the pit bottom to level the floor. Site photographs can be viewed in **Appendix I**.

On April 11, 2006, a one-foot thick clay liner was installed on the floor of the pit and exceeded the Proctor compaction standard. Proctor compaction test results can be found in **Appendix V**.

Hess backfilled the excavation with soil from the stockpile in two (2) foot vertical increments. After each two (2) foot lift was installed, two composite samples were collected from the floor and submitted for laboratory analyses. A fixed sample pattern was followed in the collection of lift samples. See **Appendix II** for a sampling diagram depicting the placement of sample points within the excavation for each sample event. The excavation was divided into north and south halves. For each half, five (5) points were sampled and mixed for a representative composite. Lift samples were collected on the following dates in 2006: May 5, May 12, May 22, May 26, June 2, June 14, June 22, July 14, July 31, and August 17. Results for TPH ranged from non-detect to 189 ppm. Chloride ranged from 48 ppm to 338 ppm. Soil lifts were placed until a depth of three (3) feet below ground surface (bgs) was reached.

On September 1, 2006, a 20-mil poly liner was installed at three (3) feet bgs and extended at least three feet beyond the area of impact.

The remaining space was backfilled with clean soil and the site was leveled to grade. Backfill and contour of the site was completed on September 14, 2006.

8.0 STAGE 2 ABATEMENT PLAN GROUNDWATER ACTIVITIES

In addition to the groundwater sampling events described in Section 3.2 of this report, BBC also sampled groundwater on December 30, 2005. Laboratory

analyses showed that chloride in MW-1 was 108 mg/L. MW-2 chloride was 104 mg/L. MW-3 chloride was 134 mg/L and MW-4 chloride was 136 mg/L. BTEX remained non-detect in all samples.

The groundwater was sampled again on March 21, 2006. Laboratory analyses showed that chloride in MW-1 was still 108 mg/L. MW-2 chloride was 92 mg/L. MW-3 chloride was 180 mg/L and MW-4 chloride was 184 mg/L. BTEX remained non-detect in all samples.

Another sampling event occurred on June 29, 2006. Laboratory analyses showed that chloride in MW-1 was 108 mg/L. MW-2 chloride was 116 mg/L. MW-3 chloride was 208 mg/L and MW-4 chloride was 204 mg/L. BTEX remained non-detect in all samples.

Groundwater was additionally sampled on September 25, 2006. Laboratory analyses showed that chloride in MW-1 was 140 mg/L. MW-2 chloride was 152 mg/L. MW-3 chloride was 260 mg/L and MW-4 chloride was 280 mg/L. BTEX remained non-detect in all samples.

Upon review of the groundwater and soil lift laboratory data, the evidence points to the C & C Landfarm as the potential source of the chloride present in the groundwater. The landfarm had accepted chloride impacted soil for many years prior to recent NMOCD rule changes barring landfarms from accepting high concentrations of chloride impacted soils. The September groundwater sampling event shows increased levels of chloride in all of the monitor wells, including MW-3 and the up gradient MW-2 which are located within the boundary of the landfarm. The soil lift data shows chloride was not present in high concentrations, therefore it appears that the excavated soil was not a contributing factor. Since the excavation was open to the groundwater for several years and chloride concentrations in the groundwater were consistent, the former battery does not appear to be the chloride source. The chloride concentration in the groundwater increased between the second and third quarters of 2006 after the Monument area received a significant amount of rainfall. This rainfall event occurred after the excavation had been lined with both a compacted clay and 20-mil plastic liner.

Based on this evidence, Hess respectfully requests that the four groundwater monitoring wells be plugged and abandoned. Groundwater laboratory analytical data can be viewed in **Appendix VII**. The laboratory data is summarized in a table located in **Table 2**. Site and gradient maps are available in **Appendix III**.

9.0 CONCLUSION

Hess Corporation respectfully requests the NMOCD to grant final closure for the NMGSAU Battery #94 Abatement Plan (AP-19). Hess has complied with and

exceeded the soil closure requirements as set forth in the approval of the Stage 2 Abatement Plan granted on January 17, 2006.

Hess also requests that all four (4) groundwater monitoring wells be permanently plugged and abandoned according to NMOCD requirements.

10.0 REFERENCES

Amerada Hess Corporation, Cooper Lease Site Assessment Report (Site Assessment Investigation); Meridian Alliance Group, L.L.C.; August 10, 2001

Amerada Hess NMGSAU Battery 94, Sampling Event And Monitoring Well Recharge Test; BBC International Inc.; September 12, 2002

New Mexico Oil Conservation Division Rule 19 Paragraph G Sections 1 and 2

APPENDIX I

Site Photographs

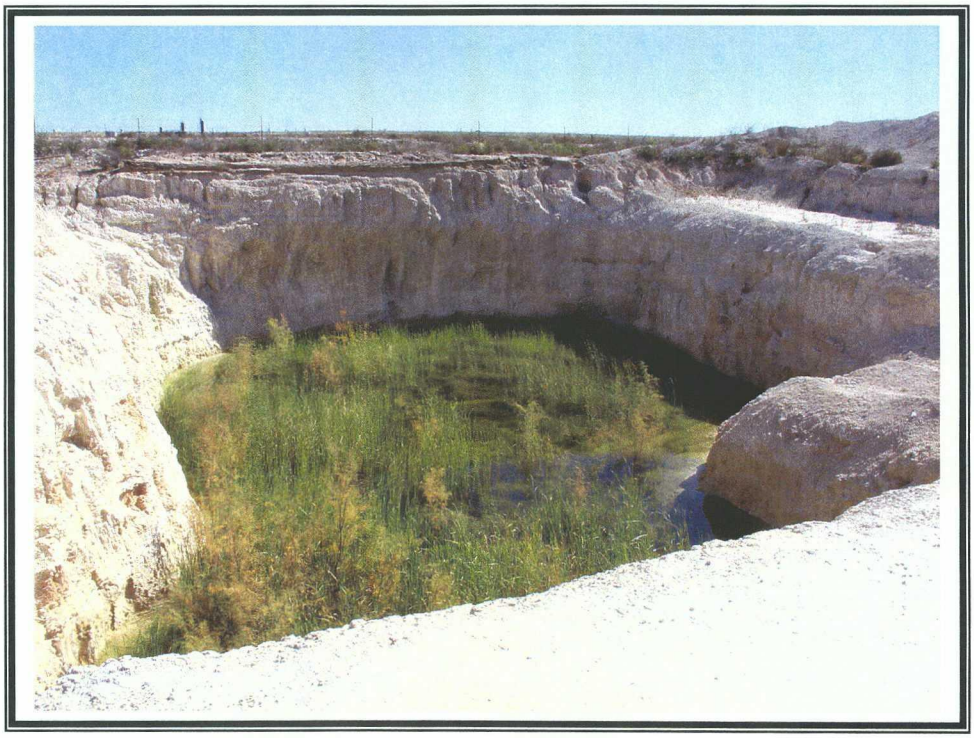
NMGSAU Battery #94
Monument, New Mexico

Prepared for:
Hess Corporation
Seminole, Texas

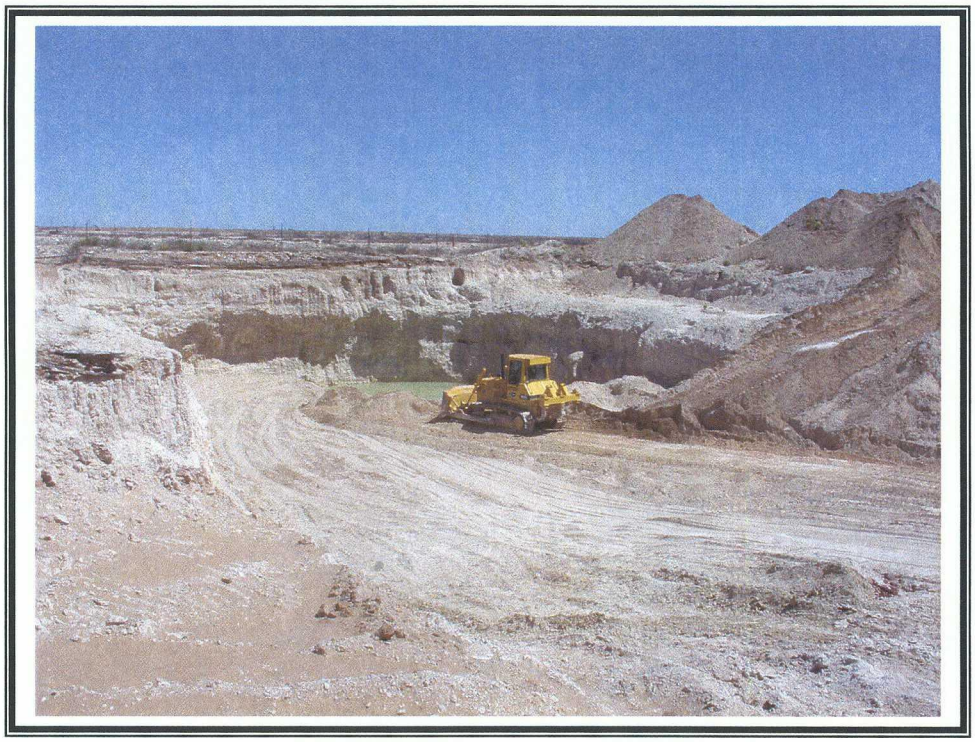
January, 2007

Prepared by:
BBC International, Inc.

Backfilling and Preparation of Excavation



Backfilling and Preparation of Excavation



Installation of Clay Liner

BBC INTERNATIONAL

Installation of Blended Soil Lifts

Installation of 20 mil Plastic Liner

Final Backfilling and Contouring of Site

APPENDIX II

Sampling Diagram

NMGSAU Battery #94
Monument, New Mexico

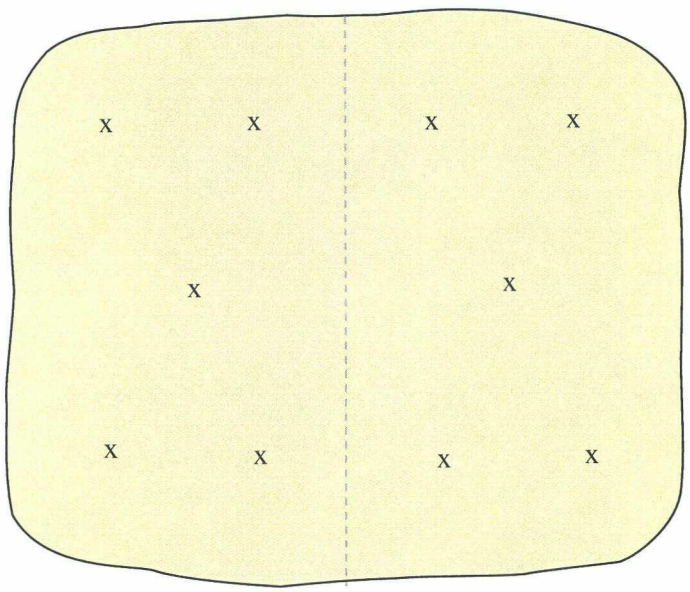
Prepared for:
Hess Corporation
Seminole, Texas

January, 2007

Prepared by:
BBC International, Inc.

HESS CORPORATION
NMGSAU
BATTERY #94

N



LEGEND

x **Sample Points**

Excavation

Dividing line between north and south composite areas

BBC INTERNATIONAL, INC.	
HESS CORPORATION Battery #94	
Date: 1-29-07	Drawn By: AR
Disk:	Sheet 1 of 1 Sheets
Scale: Not to Scale	File Name

APPENDIX III

Site and Gradient Maps

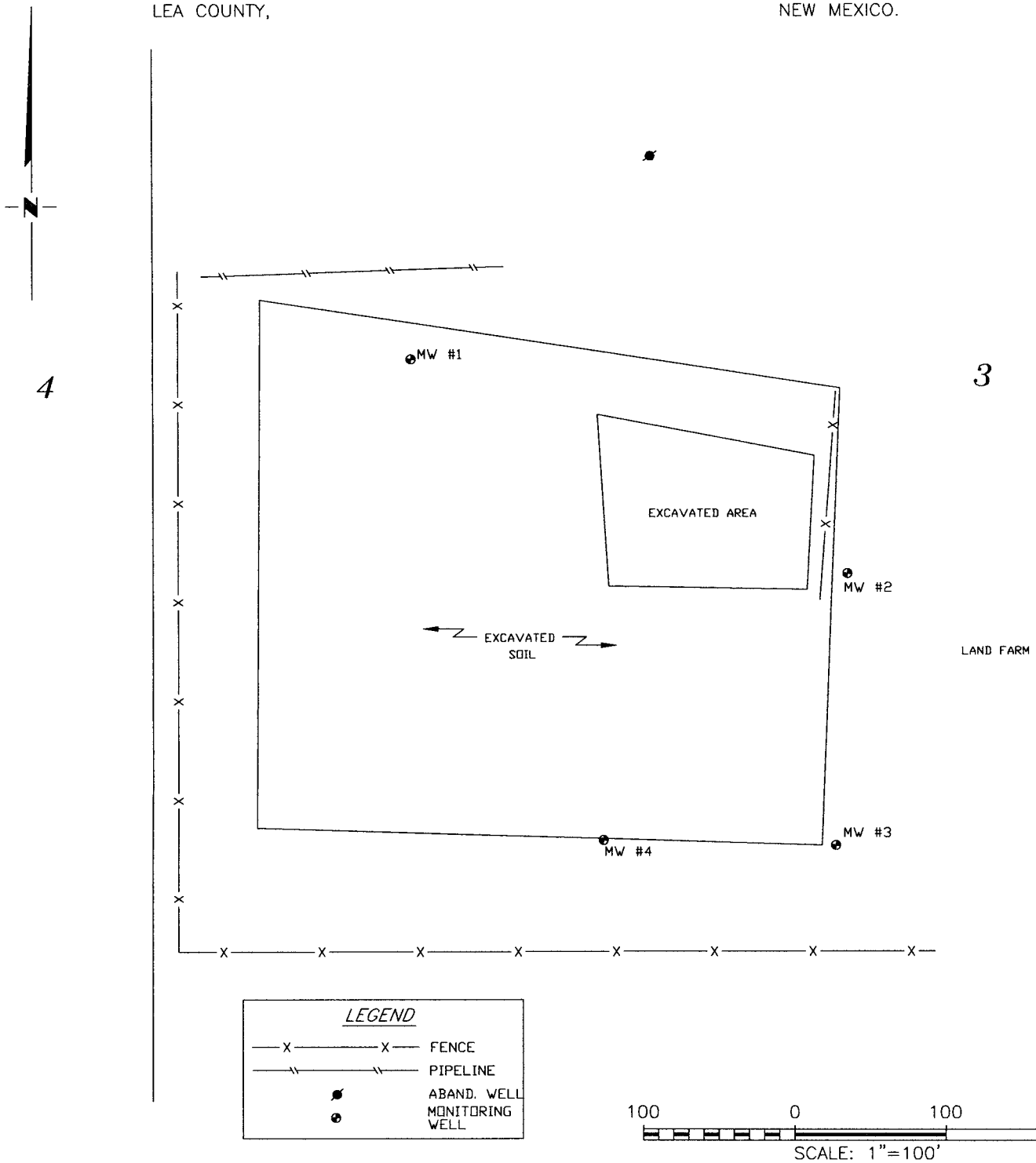
NMGSAU Battery #94
Monument, New Mexico

Prepared for:
Hess Corporation
Seminole, Texas

January, 2007

Prepared by:
BBC International, Inc.

SECTION 3, TOWNSHIP 20 SOUTH, RANGE 37 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO.



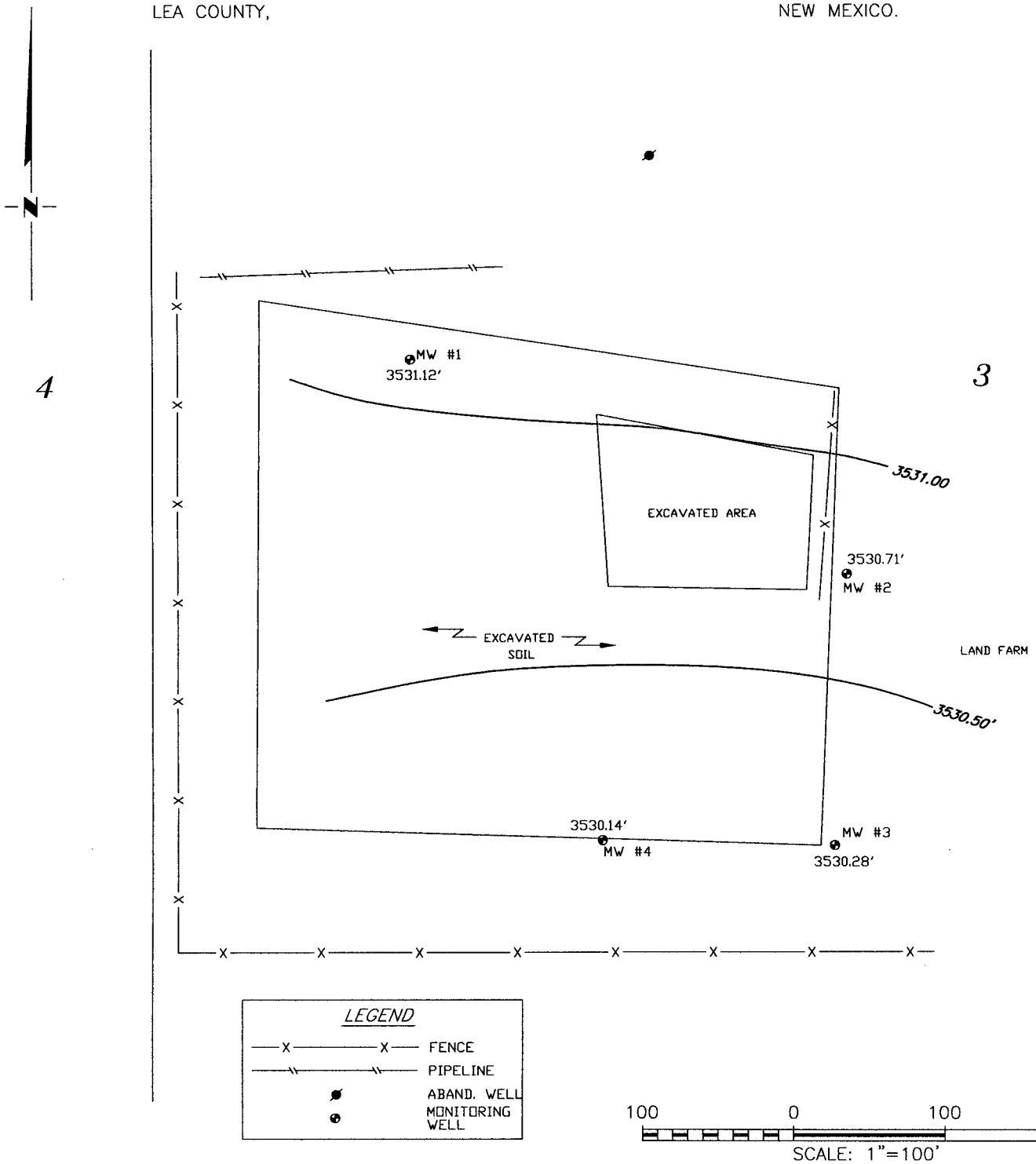
BBC INTERNATIONAL, INC.

SITE MAP
AMERADA HESS CORPORATION
COOPER LEASE
SECTION 3, TOWNSHIP 20 SOUTH, RANGE 37 EAST,
N.M.P.M., LEA COUNTY, NEW MEXICO,

Survey Date: N/A	Sheet 1 of 1 Sheets
W.O. Number: 06.13.0702	Drawn By: L.A.
Date: 4/23/06	DISK: #5

PROVIDING SURVEYING SERVICES
SINCE 1946
JOHN WEST SURVEYING COMPANY
412 N. DAL PASO
HOBBS, N.M. 88240
(505) 393-3117

SECTION 3, TOWNSHIP 20 SOUTH, RANGE 37 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO.



LEGEND

- FENCE
- PIPELINE
- ABAND. WELL
- MONITORING WELL

100 0 100 200

SCALE: 1"=100'

BBC INTERNATIONAL, INC.

SITE MAP
AMERADA HESS CORPORATION
COOPER LEASE (4/26/05)
SECTION 3, TOWNSHIP 20 SOUTH, RANGE 37 EAST,
N.M.P.M., LEA COUNTY, NEW MEXICO,

Survey Date: N/A	Sheet 1 of 1 Sheets
W.O. Number: 06.13.0702	Drawn By: L.A.
Date: 4/23/06 DISK: #5	

PROVIDING SURVEYING SERVICES
SINCE 1946
JOHN WEST SURVEYING COMPANY
412 N. DAL PASO
HOBBS, N.M. 88240
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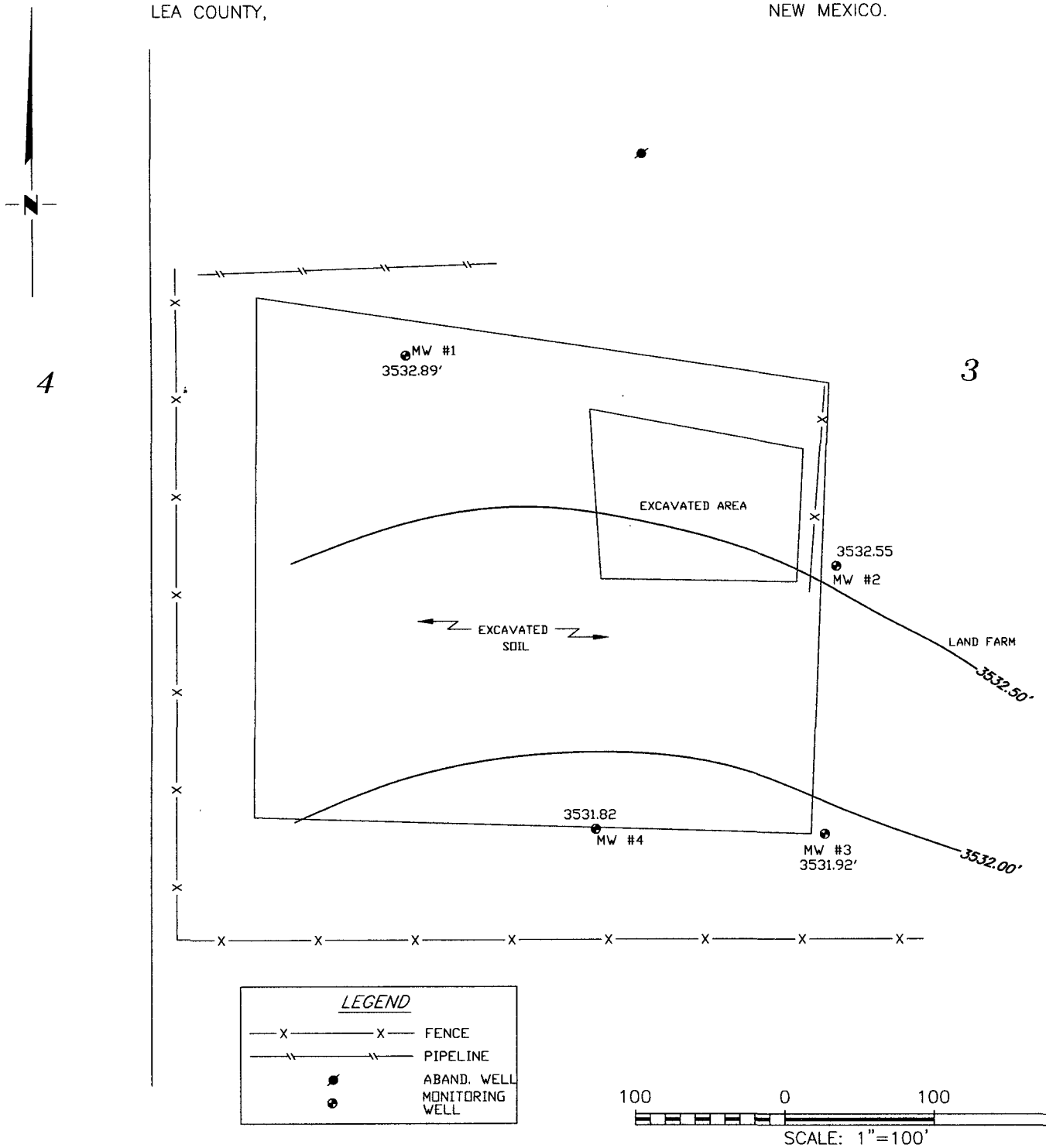
SECTION 3, TOWNSHIP 20 SOUTH, RANGE 37 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO.



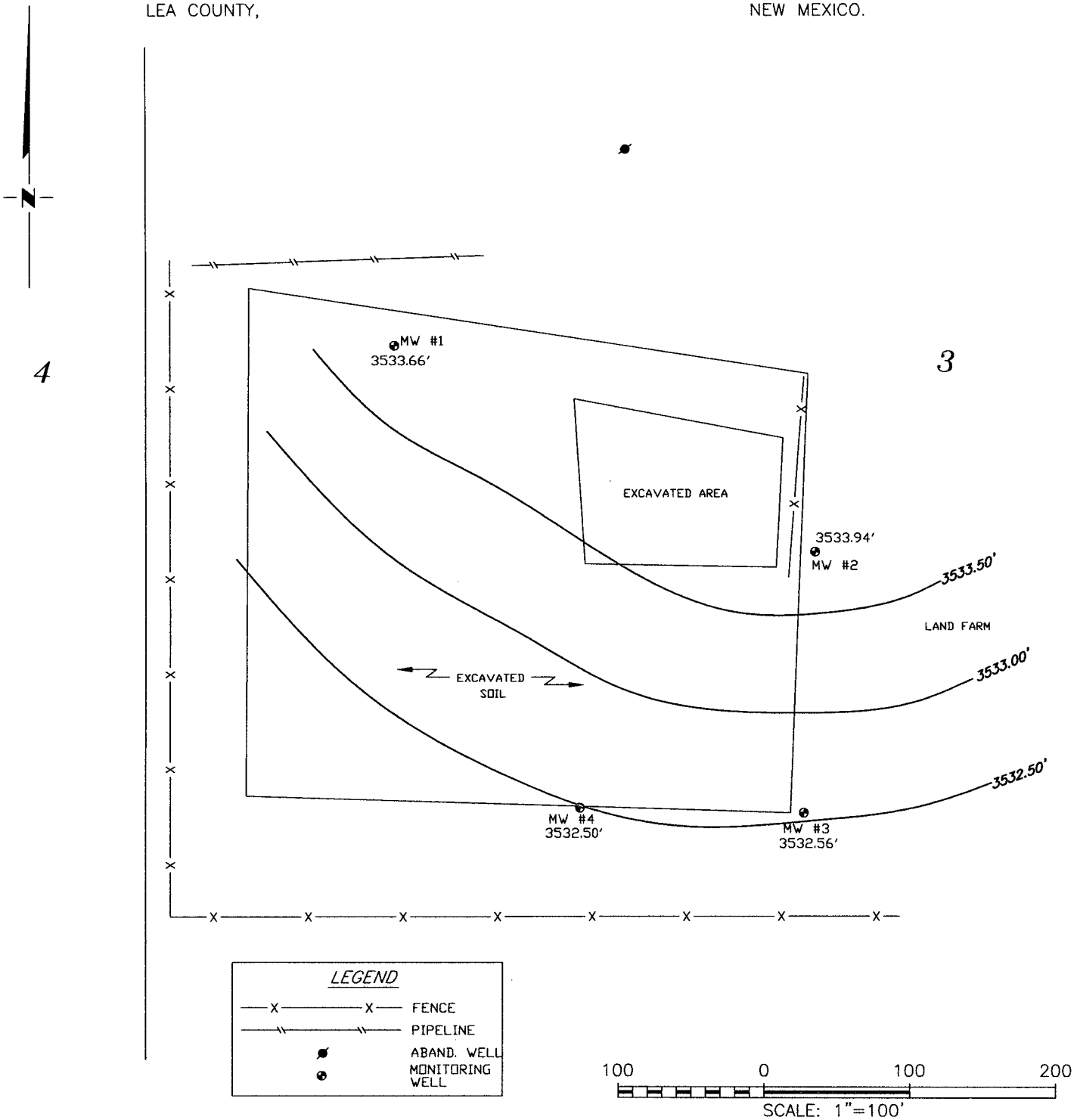
BBC INTERNATIONAL, INC.

SITE MAP
AMERADA HESS CORPORATION
COOPER LEASE (8/17/05)
SECTION 3, TOWNSHIP 20 SOUTH, RANGE 37 EAST,
N.M.P.M., LEA COUNTY, NEW MEXICO,

Survey Date: N/A		Sheet 1 of 1 Sheets	
W.O. Number: 06.13.0702		Drawn By: L.A.	
Date: 4/23/06	DISK: #5		

PROVIDING SURVEYING SERVICES
SINCE 1946
JOHN WEST SURVEYING COMPANY
412 N. DAL PASO
HOBBS, N.M. 88240
(505) 393-3117

SECTION 3, TOWNSHIP 20 SOUTH, RANGE 37 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO.



BBC INTERNATIONAL, INC.

SITE MAP
AMERADA HESS CORPORATION
COOPER LEASE (12/30/05)
SECTION 3, TOWNSHIP 20 SOUTH, RANGE 37 EAST,
N.M.P.M., LEA COUNTY, NEW MEXICO,

Survey Date: N/A	Sheet 1 of 1 Sheets
W.O. Number: 06.13.0702	Drawn By: L.A.
Date: 4/23/06 DISK: #5	

PROVIDING SURVEYING SERVICES
SINCE 1946
JOHN WEST SURVEYING COMPANY
412 N. DAL PASO
HOBBS, N.M. 88240
(505) 393-3117

APPENDIX IV

Approval Letter

NMGSAU Battery #94
Monument, New Mexico

Prepared for:
Hess Corporation
Seminole, Texas

January, 2007

Prepared by:
BBC International, Inc.

NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON
Governor
Joanna Prukop
Cabinet Secretary

Mark E. Fesmire, P.E.
Director
Oil Conservation Division

January 17, 2006

Mr. Samuel W. Small, P.E.
Environmental Coordinator
Amerada Hess Corp.
P.O. Box 840
Seminole, TX 79360

RE: NMGSAU Battery 94
Section 3, Township 20 South, Range 36 East
Lea County New Mexico
Stage 2 Abatement Plan (AP-19)
November 2005

Dear Mr. Small:

The New Mexico Oil Conservation Division has reviewed the proposed abatement plan shown above. This plan is hereby approved with the following conditions and understandings:

1. Amerada Hess Corp. (AHC) will prepare the current excavation for safe re-entry of equipment. Once the site is deemed safe, the excavation will be backfilled with the soil that had been excavated and stockpiled on site.
2. Stockpiled soil that had been un-impacted by the hydrocarbon release will be placed in the excavation first.
3. Upon this layer of un-impacted soil, AHC will install a one-foot thick clay barrier, which shall be compacted to 95% Proctor compaction standard.
4. Remaining stockpiled (impacted) soil will be blended on site such that the resulting blended soil does not exceed 2,000 ppm total petroleum hydrocarbons (TPH) and 1,000 ppm chloride. Composite samples shall be taken for confirmation that the blended soils are within these thresholds. This blended soil will then be placed in the excavation on top of the clay barrier, and up to a depth of three feet below ground surface.
5. Stockpiled soils exceeding the thresholds in #4 above will be disposed of at an NMOCD-approved disposal facility.
6. At the resulting depth of three feet below ground surface AHC will install a 20-mil poly liner. Such poly liner shall extend three feet beyond the edges of the area of impact.
7. AHC will then backfill to ground surface with clean soil and the site will be leveled to grade.
8. AHC will continue groundwater monitoring at the site in the remaining monitor wells until eight consecutive quarters are reached in which New Mexico Water Quality Control Commission groundwater standards are not exceeded. Annual reports shall be submitted to the NMOCD Santa Fe office summarizing such activities.
9. Upon completion of the required activities, AHC will submit to the NMOCD Santa Fe office a report summarizing the activities and including all laboratory analyses results.

NMOCD approval of this abatement plan does not relieve AHC of liability should its operations at this site prove to have been harmful to fresh water, public health, or the environment. Nor does it relieve AHC of its responsibility to comply with the rules and regulations of any other governmental entity.

If you have any questions, contact Ed Martin at (505) 476-3492 or ed.martin@state.nm.us

NEW MEXICO OIL CONSERVATION DIVISION

Roger C. Anderson
Environmental Bureau Chief

Copy: NMOCD, Hobbs
BBC International, Inc.

APPENDIX V

Proctor Compaction Test

NMGSAU Battery #94
Monument, New Mexico

Prepared for:
Hess Corporation
Seminole, Texas

January, 2007

Prepared by:
BBC International, Inc.

PETTIGREW & ASSOCIATES. P.A.

1110 N. GRIMES
HOBBS NM 88240
(505) 393-9827

FOR: Amerada Hess
PROJECT: Cooper #94

DATE: 5/3/06
LAB NO.

DENSITY DETERMINATION

TYPE OF MATERIAL: Red Clay
Control Density: 93.7 @ 28.3
Proctor Type: T-698

Test # SB-1 LOCATION: 90'x50' Pit
Depth of Probe: 12" Elevation: 30' v 850

DC Contact CPM	MC Moisture CPM	Air Gap CPM	WD Bulk Density PCF	M Moisture PCF	DD Dry Density PCF	% Moisture	% Density
924.3	173.7		116.8	15.3	101.5		

Avg. Dry Density:
% M % Moisture (avg.) 15.0
% Comp. % Lab Dens (avg.) 108.4

Test # LOCATION:
Depth of Probe: Elevation:

DC Contact CPM	MC Moisture CPM	Air Gap CPM	WD Bulk Density PCF	M Moisture PCF	DD Dry Density PCF	% Moisture	% Density

Avg. Dry Density:
% M % Moisture (avg.)
% Comp. % Lab Dens (avg.)

Test # LOCATION:
Depth of Probe: Elevation:

DC Contact CPM	MC Moisture CPM	Air Gap CPM	WD Bulk Density PCF	M Moisture PCF	DD Dry Density PCF	% Moisture	% Density

Avg. Dry Density:
% M % Moisture (avg.)
% Comp. % Lab Dens (avg.)

Test # LOCATION:
Depth of Probe: Elevation:

DC Contact CPM	MC Moisture CPM	Air Gap CPM	WD Bulk Density PCF	M Moisture PCF	DD Dry Density PCF	% Moisture	% Density

Avg. Dry Density:
% M % Moisture (avg.)
% Comp. % Lab Dens (avg.)

Required: 95%
Copies:

Tech Time
If testing by time
Tested By: RF.

APPENDIX VI

Soil Laboratory Analytical Results

NMGSAU Battery #94
Monument, New Mexico

Prepared for:
Hess Corporation
Seminole, Texas

January, 2007

Prepared by:
BBC International, Inc.

Table 1. Soil Laboratory Analytical Results Summary

Analyte	Method	Sample Date	1 Sample #: H10957-1	2 Sample #: H10957-2	3 Sample #: H10957-3	4 Sample #: H10957-4
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	S 8021B	03/30/06	<0.002	<0.002	<0.002	<0.002
Toluene	S 8021B	03/30/06	<0.002	<0.002	<0.002	<0.002
Ethylbenzene	S 8021B	03/30/06	<0.002	<0.002	<0.002	<0.002
Total Xylenes	S 8021B	03/30/06	<0.006	<0.006	<0.006	<0.006
Chloride	4500-Cl⁻B	03/30/06	160	96	128	176
GRO	SW-846 8015 M	03/30/06	<50.0	<50.0	<50.0	<50.0
DRO	SW-846 8015 M	03/30/06	178	72	287	<50.0

* Note: Analysis perormed on a 1:4 w:v aqueous extract

Analyte	Method	Sample Date	N Pile SW Sample #: H11054-1	N Pile SE Sample #: H11054-2	S Pile SW Sample #: H11054-3	S Pile S Sample #: H11054-4	S Pile SE Sample #: H11054-5	S Pile E Sample #: H11054-6	S Pile NE Sample #: H11054-7
		04/24/06	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	4500-Cl⁻B	04/24/06	192	160	128	144	96	48	48
GRO	SW-846 8015 M	04/24/06	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
DRO	SW-846 8015 M	04/24/06	<10.0	<10.0	40.2	55.2	58.0	91.6	105

Analyte	Method	Sample Date	S Pile N Sample #: H11054-8	S Pile NW Sample #: H11054-9	S Pile W Sample #: H11054-10	S Pile NW Sample #: H11054-11	S Pile NE Sample #: H11054-12
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	4500-Cl⁻B	04/24/06	144	80	80	128	64
GRO	SW-846 8015 M	04/24/06	<10.0	<10.0	<10.0	<10.0	<10.0
DRO	SW-846 8015 M	04/24/06	59.9	52.4	<10.0	<10.0	<10.0

* Note: Analysis perormed on a 1:4 w:v aqueous extract

Analyte	Method	Sample Date	South Composite Sample #: H11094-1	North Composite Sample #: H11094-2
			mg/Kg	mg/Kg
Chloride	4500-Cl⁻B	05/05/06	*208	*160
GRO	SW-846 8015 M	05/05/06	<10.0	<10.0
DRO	SW-846 8015 M	05/05/06	<10.0	<10.0

* Note: Analysis perormed on a 1:4 w:v aqueous extract

Analyte	Method	Sample Date	South Composite Sample #: H11111-1	North Composite Sample #: H11111-2
			mg/Kg	mg/Kg
Chloride	4500-Cl⁻B	05/12/06	*112	*144
GRO	SW-846 8015 M	05/12/06	<10.0	<10.0
DRO	SW-846 8015 M	05/12/06	18.0	<10.0

* Note: Analysis perormed on a 1:4 w:v aqueous extract

Table 1. Soil Laboratory Analytical Results Summary

Analyte	Method	Sample Date	North Composite Sample #: H11146-1	South Composite Sample #: H11146-2
			mg/Kg	mg/Kg
Chloride	4500-Cl⁻B	05/22/06	*336	*288
GRO	SW-846 8015 M	05/22/06	<10.0	<10.0
DRO	SW-846 8015 M	05/22/06	28.3	<10.0

* Note: Analysis perormed on a 1:4 w:v aqueous extract

Analyte	Method	Sample Date	North Composite Sample #: H11167-1	South Composite Sample #: H11167-2
			mg/Kg	mg/Kg
Chloride	4500-Cl⁻B	05/26/06	*208	*176
GRO	SW-846 8015 M	05/26/06	<10.0	<10.0
DRO	SW-846 8015 M	05/26/06	189	135

* Note: Analysis perormed on a 1:4 w:v aqueous extract

Analyte	Method	Sample Date	North Composite Sample #: H11181-1	South Composite Sample #: H11181-2
			mg/Kg	mg/Kg
Chloride	4500-Cl⁻B	06/02/06	*160	*144
GRO	SW-846 8015 M	06/02/06	<10.0	<10.0
DRO	SW-846 8015 M	06/02/06	<10.0	34.2

* Note: Analysis perormed on a 1:4 w:v aqueous extract

Analyte	Method	Sample Date	South Composite Sample #: H11230-1	North Composite Sample #: H11230-2
			mg/Kg	mg/Kg
Chloride	4500-Cl⁻B	06/14/06	*208	*175
GRO	SW-846 8015 M	06/14/06	<10.0	<10.0
DRO	SW-846 8015 M	06/14/06	22.5	25.4

* Note: Analysis perormed on a 1:4 w:v aqueous extract

Analyte	Method	Sample Date	North Composite Sample #: H11269-1	South Composite Sample #: H11269-2
			mg/Kg	mg/Kg
Chloride	4500-Cl⁻B	06/22/06	*160	*192
GRO	SW-846 8015 M	06/22/06	<10.0	<10.0
DRO	SW-846 8015 M	06/22/06	11.6	19.2

* Note: Analysis perormed on a 1:4 w:v aqueous extract

Table 1. Soil Laboratory Analytical Results Summary

		Sample	North Composite	South Composite
Analyte	Method	Date	Sample #: H11341-1	Sample #: H11341-2
			mg/Kg	mg/Kg
Chloride	4500-Cl⁻B	07/14/06	*80	*48
GRO	SW-846 8015 M	07/14/06	<10.0	<10.0
DRO	SW-846 8015 M	07/14/06	39.3	<10.0

* Note: Analysis perormed on a 1:4 w:v aqueous extract

		Sample	North Composite	South Composite
Analyte	Method	Date	Sample #: H11403-1	Sample #: H11403-2
			mg/Kg	mg/Kg
Chloride	4500-Cl⁻B	07/31/07	*64	*96
GRO	SW-846 8015 M	07/31/07	<10.0	<10.0
DRO	SW-846 8015 M	07/31/07	53.7	37.5

* Note: Analysis perormed on a 1:4 w:v aqueous extract

		Sample	South Composite	North Composite
Analyte	Method	Date	Sample #: H11454-1	Sample #: H11454-2
			mg/Kg	mg/Kg
Chloride	4500-Cl⁻B	08/17/06	*112	*112
GRO	SW-846 8015 M	08/17/06	<10.0	<10.0
DRO	SW-846 8015 M	08/17/06	36.6	56.0

* Note: Analysis perormed on a 1:4 w:v aqueous extract

APPENDIX VII

Groundwater Laboratory Analytical Results

NMGSAU Battery #94
Monument, New Mexico

Prepared for:
Hess Corporation
Seminole, Texas

January, 2007

Prepared by:
BBC International, Inc.

Amerada Hess
NMGSAU Battery 94 -Laboratory Groundwater Analyticals
Summary Table

July 7, 2001

		Sample	MW #1	MW #2	MW #3	MW #4
Analyte	Method	Date				
			mg/L	mg/L	mg/L	mg/L
Benzene	S 8021B	07/24/01	<0.002	<0.002	<0.002	<0.002
Toluene	S 8021B	07/24/01	<0.005	<0.005	<0.005	<0.005
Ethylbenzene	S 8021B	07/24/01	<0.005	<0.005	<0.005	<0.005
Xylene	S 8021B	07/24/01	<0.005	<0.005	<0.005	<0.005
MtBE	S 8021B	07/24/01	<0.010	<0.010	<0.010	<0.010
TPH	418.1	07/24/01	<0.010	<0.010	<0.010	<0.010

July 24, 2001

		Sample	MW #1	MW #2	MW #3	MW #4
Analyte	Method	Date				
			mg/L	mg/L	mg/L	mg/L
Chloride	4500-Cl⁻B	07/24/01	97.8	71.7	71.5	73.9

July 30, 2002

		Sample	MW #4	MW #1	MW #3	MW #2
Analyte	Method	Date				
			mg/L	mg/L	mg/L	mg/L
Chloride	4500-Cl⁻B	07/30/05	100	132	108	88
Benzene	S 8021B	07/30/05	<0.002	<0.002	**0.002**	<0.002
Toluene	S 8021B	07/30/05	<0.002	<0.002	<0.002	<0.002
Ethylbenzene	S 8021B	07/30/05	<0.002	<0.002	<0.002	<0.002
Xylene	S 8021B	07/30/05	<0.006	<0.006	<0.006	<0.006

April 26, 2005

		Sample	MW #1	MW #4	MW #3	MW #2
Analyte	Method	Date				
			mg/L	mg/L	mg/L	mg/L
Chloride	4500-Cl⁻B	04/26/05	112	108	380	92
Benzene	S 8021B	04/26/05	<0.002	<0.002	<0.002	<0.002
Toluene	S 8021B	04/26/05	<0.002	<0.002	<0.002	<0.002
Ethylbenzene	S 8021B	04/26/05	<0.002	<0.002	<0.002	<0.002
Xylene	S 8021B	04/26/05	<0.006	<0.006	<0.006	<0.006

August 17, 2005

		Sample	MW #2	MW #4	MW #1	MW #3
Analyte	Method	Date				
			mg/L	mg/L	mg/L	mg/L
Chloride	4500-Cl⁻B	08/17/05	92	96	112	208
Benzene	S 8021B	08/17/05	<0.002	<0.002	<0.002	<0.002
Toluene	S 8021B	08/17/05	<0.002	<0.002	<0.002	<0.002
Ethylbenzene	S 8021B	08/17/05	<0.002	<0.002	<0.002	<0.002
Xylene	S 8021B	08/17/05	<0.006	<0.006	<0.006	<0.006

Amerada Hess
NMGSAU Battery 94 -Laboratory Groundwater Analyticals
Summary Table

December 30, 2005

		Sample	MW #2	MW #4	MW #1	MW #3
Analyte	Method	Date				
			mg/L	mg/L	mg/L	mg/L
Chloride	4500-Cl B	12/30/05	104	136	108	134
Benzene	S 8021B	12/30/05	<0.002	<0.002	<0.002	<0.002
Toluene	S 8021B	12/30/05	<0.002	<0.002	<0.002	<0.002
Ethylbenzene	S 8021B	12/30/05	<0.002	<0.002	<0.002	<0.002
Xylene	S 8021B	12/30/05	<0.006	<0.006	<0.006	<0.006

March 21, 2006

		Sample	MW #2	MW #1	MW #3	MW #4
Analyte	Method	Date				
			mg/L	mg/L	mg/L	mg/L
Chloride	4500-Cl B	12/30/05	92	108	180	184
Benzene	S 8021B	12/30/05	<0.002	<0.002	<0.002	<0.002
Toluene	S 8021B	12/30/05	<0.002	<0.002	<0.002	<0.002
Ethylbenzene	S 8021B	12/30/05	<0.002	<0.002	<0.002	<0.002
Xylene	S 8021B	12/30/05	<0.006	<0.006	<0.006	<0.006

June 29, 2006

		Sample	MW #2	MW #1	MW #3	MW #4
Analyte	Method	Date				
			mg/L	mg/L	mg/L	mg/L
Chloride	4500-Cl B	06/29/06	116	108	208	204
Benzene	S 8021B	06/29/06	<0.002	<0.002	<0.002	<0.002
Toluene	S 8021B	06/29/06	<0.002	<0.002	<0.002	<0.002
Ethylbenzene	S 8021B	06/29/06	<0.002	<0.002	<0.002	<0.002
Xylene	S 8021B	06/29/06	<0.006	<0.006	<0.006	<0.006

September 25, 2006

		Sample	MW #2	MW #1	MW #3	MW #4
Analyte	Method	Date				
			mg/L	mg/L	mg/L	mg/L
Chloride	4500-Cl B	09/25/06	152	140	260	280
Benzene	S 8021B	09/25/06	<0.002	<0.002	<0.002	<0.002
Toluene	S 8021B	09/25/06	<0.002	<0.002	<0.002	<0.002
Ethylbenzene	S 8021B	09/25/06	<0.002	<0.002	<0.002	<0.002
Xylene	S 8021B	09/25/06	<0.006	<0.006	<0.006	<0.006

TABLE 1

Soil Laboratory Analytical Results Summary

NMGSAU Battery #94
Monument, New Mexico

Prepared for:
Hess Corporation
Seminole, Texas

January, 2007

Prepared by:
BBC International, Inc.

CARDINAL LABORATORIES

PHONE (325) 673-7001 · 2111 BEECHWOOD · ABILENE, TX 79603
PHONE (505) 393-2326 · 101 E. MARLAND · HOBBS, NM 88240

ANALYTICAL RESULTS FOR
AMARADA HESS
ATTN: RANDY BARNES
401 W. STANOLIND
HOBBS, NM 88240
FAX TO:

Receiving Date: 03/30/06
Reporting Date: 04/03/06
Project Number: NOT GIVEN
Project Name: A. HESS
Project Location: #94 TANK BATT. SOUTH STOCKPILE

Analysis Date: 03/31/06
Sampling Date: 03/30/06
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: LB
Analyzed By: AB

LAB NO.	SAMPLE ID	Cl^- (mg/kg)
H10957-1	1	160
H10957-2	2	96
H10957-3	3	128
H10957-4	4	176
Quality Control		500
True Value QC		500
% Recovery		100.0
Relative Percent Difference		0.0

METHOD: Standard Methods	4500-ClˉB

NOTE: Analyses performed on 1:4 aqueous extracts.

Chemist

04-04-06
Date

H10957

CARDINAL LABORATORIES

PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
AMERADA HESS
ATTN: RANDY BARNES
401 WEST STANOLIND
HOBBS, NM 88240

Receiving Date: 3/30/06
Project Owner: NONE GIVEN
Project Number: NONE GIVEN
Project Name: A. HESS
Project Location: #94 TANK BATTERY SOUTH STOCKPILE
Reporting Date: 4/4/06

Sampling Dates: 3/30/06
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: LB
Analyzed By: JC

LAB ID	SAMPLE ID	GRO C_6-C_{12} (mg/kg)	DRO $>C_{12}$-C_{28} (mg/kg)	TOTAL TPH (mg/kg)	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL-BENZENE (mg/kg)	TOTAL XYLENES (mg/kg)
H10957-1	1	<50.0	178	178	<0.002	<0.002	<0.002	<0.006
H10957-2	2	<50.0	72	72	<0.002	<0.002	<0.002	<0.006
H10957-3	3	<50.0	287	287	<0.002	<0.002	<0.002	<0.006
H10957-4	4	<50.0	<50.0	<50.0	<0.002	<0.002	<0.002	<0.006
Extraction Date:		04/03/06	04/03/06	04/03/06	04/03/06	04/03/06	04/03/06	04/03/06
Analysis Date:		04/03/06	04/03/06	04/03/06	04/03/06	04/03/06	04/03/06	04/03/06
Method Blank		<50.00	<50.00	<50.00	<0.002	<0.002	<0.002	<0.006
LCS					0.105	0.100	0.100	0.301
True Value LCS					0.100	0.100	0.100	0.300
LCS % Recovery					105%	100%	100%	100.3%
Matrix Spike (MS)				478				
Matrix Spike Dup (MSD)				491				
True Value Matrix Spike				500				
MS % Recovery				95.5%				
MSD % Recovery				98.3%				
Matrix Spike RPD				2.9%	7.4%	8.8%	7.0%	4.6%

FLAGS:

Methods: TPH SW-846 8015M; BTEX-MTBE SW-846 8021B, 5030B

Burgess J. Cole
Chemist

4/4/06
Date

H10957BTEXTPHSOIL[1].xls

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

CARDINAL LABORATORIES, INC.
2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240
(325) 673-7001 Fax (325) 673-7020 (505) 393-2326 Fax (505) 393-2476

Page ____ of ____

Company Name:	Amerada Hess
Project Manager:	
Address:	EOW
City:	Hobbs State: Zip:
Phone #:	391-7814 Fax #:
Project #:	Project Owner:
Project Name:	A. Hess
Project Location:	#94 Tank Bat. South Stockpile
Sampler Name:	T. Reid

BILL TO

P.O. #:	EOW
Company:	EOW
Attn:	Bill Dyer
Address:	401 W. Standolind
City:	Hobbs
State:	N.M. Zip: 88240
Phone #:	391-7814
Fax #:	

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE:	ICE / COOL	OTHER:	SAMPLING: DATE	TIME	TPH	Chlorides	BTX
H10957-1	(1)	G				✓							3-30-06	12:20	✓	✓	✓
-2	(2)	G				✓								12:30	✓	✓	✓
-3	(3)	G				✓								12:50	✓	✓	✓
-4	(4)	G				✓							↓	12:00	✓	✓	✓

Terms and Conditions: Interest will be charged on all accounts more than 30 days past due at the rate of 24% per annum from the original date of invoice, and all costs of collections, including attorney's fees.

Sampler Relinquished:	Date:	Received By:
Tabby Reid	Time:	
Relinquished By:	Date: 3/30/06	Received By: (Lab Staff)
	Time: 1414	

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:

Sample Condition: Temp, °C	Intact?	Checked By: (Initials)
	☒ Yes ☐ No	

Phone Result: ☐ Yes ☐ No
Fax Result: ☐ Yes ☐ No
REMARKS:

† Cardinal cannot accept verbal changes. Please fax written changes to (325) 673-7020.

CARDINAL 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: 04/25/06
Reporting Date: 04/26/06
Project Owner: AMERADA HESS
Project Name: BATTERY 94
Project Location: MONUMENT, NM

Sampling Date: 04/24/06
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: HM
Analyzed By: BC/AB

LAB NUMBER	SAMPLE ID	GRO (C_6-C_{10}) (mg/Kg)	DRO (>C_{10}-C_{28}) (mg/Kg)	Cl* (mg/Kg)
ANALYSIS DATE		04/25/06	04/25/06	04/25/06
H11054-1	N PILE SW	<10.0	<10.0	192
H11054-2	N PILE SE	<10.0	<10.0	160
H11054-3	S PILE SW	<10.0	40.2	128
H11054-4	S PILE S	<10.0	55.2	144
H11054-5	S PILE SE	<10.0	58.0	96
H11054-6	S PILE E	<10.0	91.6	48
H11054-7	S PILE NE	<10.0	105	48
H11054-8	S PILE N	<10.0	59.9	144
H11054-9	S PILE NW	<10.0	52.4	80
H11054-10	S PILE W	<10.0	<10.0	80
H11054-11	N PILE NW	<10.0	<10.0	128
H11054-12	N PILE NE	<10.0	<10.0	64
Quality Control		741	744	500
True Value QC		800	800	500
% Recovery		92.6	93.0	100
Relative Percent Difference		10.0	7.0	2.0

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; Cl^-: Std. Methods 4500-Cl^-B
*Analyses performed on 1:4 w:v aqueous extracts.

Chemist

4/26/06
Date

H11054

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

CARDINAL 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

Company Name:	BBC International, Inc.
Project Manager:	Cliff Brunson
Address:	1324 W. Marland
City:	Hobbs State: NM Zip: 88240
Phone #:	505-397-6388 Fax #: 505-397-0397
Project #:	Project Owner: Amerada Hess
Project Name:	Battery 94
Project Location:	Monument
Sampler Name:	Amy Ruth

BILL TO

P.O. #:	
Company:	Amerada Hess
Attn:	Randy Barnes
Address:	
City:	Seminole
State:	TX 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	Chloride	TPH (GRO/DRO) 8015 MOD
H11054-1	N Pile SW	G	1			✓					✓		4/24/06	310pm	✓	✓
-2	N Pile SW E HSm	G	1			✓					✓		4/24/06	313pm	✓	✓
-3	S Pile SW	G	1			✓					✓		4/24/06	320pm	✓	✓
-4	S Pile S	G	1			✓					✓		4/24/06	325pm	✓	✓
-5	S Pile SE	G	1			✓					✓		4/24/06	328pm	✓	✓
-6	S Pile E	G	1			✓					✓		4/24/06	332pm	✓	✓
-7	S Pile NE	G	1			✓					✓		4/24/06	335pm	✓	✓
-8	S Pile N	G	1			✓					✓		4/24/06	338pm	✓	✓
-9	S Pile NW	G	1			✓					✓		4/24/06	342pm	✓	✓
-10	S Pile W	G	1			✓					✓		4/24/06	345pm	✓	✓

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 the client for the 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 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.

Terms and Conditions: Interest will be charged on all accounts more than 30 days past due at the rate of 24% per annum from the original date of invoice, and all costs of collections, including attorney's fees.

Sampler Relinquished: Amy Ruth	Date: 4/24/06 Time: 550 pm	Received By: Roger Hernandez	Phone Result: ☐ Yes ☐ No Add'l Phone #:
Relinquished By:	Date: 04/25/06 Time: 8:45	Received By: (Lab Staff) Hope S. Marano	Fax Result: ☐ Yes ☐ No Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Sample Condition Cool / Intact ☐ Yes ☐ No ☑ Yes ☐ No	CHECKED BY: (Initials)	REMARKS:

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

CARDINAL 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

Company Name:	BBC International, Inc
Project Manager:	Cliff Brunson
Address:	1324 W. Marland
City:	Hobbs State: NM Zip: 88240
Phone #:	505-397-6388 Fax #: 505-397-0397
Project #:	Project Owner: Amerada Hess
Project Name:	Battery 94
Project Location:	Monument
Sampler Name:	Amy Ruth

BILL TO

P.O. #:	
Company:	Amerada Hess
Attn:	Randy Barnes
Address:	
City:	Seminole
State:	TX 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	Chloride	TPH (GRO/DRO) 8015 MOD
H11054-11	N Pile NW	G	1			✓					✓		4/24/06	354pm	✓	✓
-12	N Pile NE	G	1			✓					✓		4/24/06	356pm	✓	✓

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 the client for the 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 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.

Terms and Conditions: Interest will be charged on all accounts more than 30 days past due at the rate of 24% per annum from the original date of invoice, and all costs of collection, including attorney's fees.

Sampler Relinquished:	Date: 4/24/06 Time: 550 pm	Received By:	Roger Hernandez
Relinquished By:	Date: 04/25/06 Time: 8:45	Received By: (Lab Staff)	Hope S. Mercer
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Sample Condition: Cool ☐ Yes ☐ No; Intact ☑ Yes ☐ No	CHECKED BY: (Initials)	

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

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

CARDINAL 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: 05/05/06
Reporting Date: 05/10/06
Project Owner: AMERADA HESS
Project Name: BATTERY #94
Project Location: MONUMENT, NM

Sampling Date: 05/05/06
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: NF
Analyzed By: BC/AB

LAB NUMBER	SAMPLE ID	GRO (C_6-C_{10}) (mg/Kg)	DRO (>C_{10}-C_{28}) (mg/Kg)	Cl* (mg/Kg)
ANALYSIS DATE		05/09/06	05/09/06	05/08/06
H11094-1	SOUTH COMPOSITE	<10.0	<10.0	208
H11094-2	NORTH COMPOSITE	<10.0	<10.0	160
Quality Control		807	737	500
True Value QC		800	800	500
% Recovery		101	92.1	100
Relative Percent Difference		2.9	4.1	4.0

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; Cl^-: Std. Methods 4500-Cl^-B
*Analyses performed on 1:4 w:v aqueous extracts.

Chemist

5/10/06
Date

H11094

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

CARDINAL 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

Company Name:	BBC International, Inc.
Project Manager:	Cliff Brunson
Address:	1324 W. Marland
City:	Hobbs State: NM Zip: 88240
Phone #:	505-397-6388 Fax #: 505-397-0397
Project #:	Project Owner: Amerada Hess
Project Name:	Battery #94
Project Location:	Monument
Sampler Name:	Amy Ruth

BILL TO

P.O. #:	
Company:	Amerada Hess
Attn:	Randy Barnes
Address:	
City:	Seminole
State:	TX 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	Chloride	TPH (GRO/DRO) 8015 MOD
H11094-1	South Composite	C	1			✓					✓		5/5/06	10:06am	✓	✓
-2	North Composite	C	1			✓					✓		5/5/06	10:15 am	✓	✓

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 the client for the 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 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.

Terms and Conditions: Interest will be charged on all accounts more than 30 days past due at the rate of 24% per annum from the original date of invoice, and all costs of collection, including attorney's fees.

Sampler Relinquished:	Date:	Received By:	
	Time:		
Relinquished By: Amy Ruth	Date: 5/5/06	Received By: (Lab Staff)	
	Time: 2:15 pm		
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Sample Condition: Cool: ☒ Yes ☐ No; Intact: ☒ Yes ☐ No	CHECKED BY: (Initials)	

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

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

CARDINAL 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 88240
FAX TO: (505) 397-0397

Receiving Date: 05/12/06
Reporting Date: 05/16/06
Project Owner: HESS CORPORATION
Project Name: BATTERY # 94
Project Location: MONUMENT, NM

Sampling Date: 05/12/06
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: NF
Analyzed By: BC/AB

LAB NUMBER	SAMPLE ID	GRO (C_6-C_{10}) (mg/Kg)	DRO (>C_{10}-C_{28}) (mg/Kg)	Cl* (mg/Kg)
ANALYSIS DATE		05/13/06	05/13/06	05/12/06
H11111-1	SOUTH COMPOSITE	<10.0	18.0	112
H11111-2	NORTH COMPOSITE	<10.0	<10.0	144
Quality Control		767	798	510
True Value QC		800	800	500
% Recovery		95.9	99.7	102
Relative Percent Difference		1.2	2.4	1.8

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; Cl^-: Std. Methods 4500-Cl^-B
*Analyses performed on 1:4 w:v aqueous extracts.

Larry L. Bailey

5/16/06
Date

H11111

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

CARDINAL 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

Company Name:	BBC International, Inc.
Project Manager:	Cliff Brunson
Address:	1324 W. Marland
City:	Hobbs State: NM Zip: 88240
Phone #:	505-397-6388 Fax #: 505-397-0397
Project #:	Project Owner: Hess Corporation
Project Name:	Battery #94
Project Location:	Monument
Sampler Name:	Amy Ruth

BILL TO

P.O. #:	
Company:	Hess Corporation
Attn:	Randy Barnes
Address:	
City:	Seminole
State:	TX Zip:
Phone #:	
Fax #:	

FOR LAB USE ONLY		MATRIX								PRESERV.			SAMPLING		ANALYSIS REQUEST																	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	Chloride	TPH 8015 MOD																
H1111 - 1	South Composite	C	1			✓					✓		5/12/06	920 am	✓	✓																
-2	North Composite	C	1			✓					✓		5/12/06	928 am	✓	✓																

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 the client for the 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 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.

Terms and Conditions: Interest will be charged on all accounts more than 30 days past due at the rate of 24% per annum from the original date of invoice, and all costs of collection, including attorney's fees.

Sampler Relinquished:	Date:	Received By:	Phone Result: ☐ Yes ☐ No Add'l Phone #:
	Time:		Fax Result: ☐ Yes ☐ No Add'l Fax #:
Relinquished By:	Date: 5/12/06	Received By: (Lab Staff)	REMARKS:
	Time: 1040 am		
Delivered By: (Circle One)	Sample Condition: Cool ☒ Yes ☐ No; Intact ☒ Yes ☐ No	CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other:			

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

CARDINAL 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: 05/23/06
Reporting Date: 05/24/06
Project Owner: HESS CORPORATION
Project Name: BATTERY #94
Project Location: MONUMENT, NM

Sampling Date: 05/22/06
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: LB
Analyzed By: BC/AH

LAB NUMBER	SAMPLE ID	GRO (C_6-C_{10}) (mg/Kg)	DRO (>C_{10}-C_{28}) (mg/Kg)	Cl* (mg/Kg)
ANALYSIS DATE		05/23/06	05/23/06	05/24/06
H11146-1	NORTH COMPOSITE	<10.0	28.3	336
H11146-2	SOUTH COMPOSITE	<10.0	<10.0	288
Quality Control		778	763	990
True Value QC		800	800	1000
% Recovery		97.3	95.4	99.0
Relative Percent Difference		3.5	7.5	0.0

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; Cl^-: Std. Methods 4500-Cl^-B
*Analyses performed on 1:4 w:v aqueous extracts.

Chemist

5/24/06
Date

H11146

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

CARDINAL 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

Company Name:	BBC International, Inc.
Project Manager:	Cliff Brunson
Address:	1324 W. Marland
City:	Hobbs State: NM Zip: 88240
Phone #:	505-397-6388 Fax #: 505-397-0397
Project #:	Project Owner: Hess Corporation
Project Name:	Battery #94
Project Location:	Monument
Sampler Name:	Amy Ruth

BILL TO

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

FOR LAB USE ONLY				MATRIX							PRESERV.			SAMPLING		ANALYSIS REQUEST	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	Chloride	TPH
H11146-1	North Composite	C	1			✓					✓		5/22/06	1122 am	✓	✓
-2	South Composite	C	1			✓					✓		5/22/06	1130 am	✓	✓

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Sampler Relinquished:	Date:	Received By:	
	Time:		
Relinquished By:	Date: 5/23/06	Received By: (Lab Staff)	
	Time: 1215 pm		
Delivered By: (Circle One)	Sample Condition: Cool ☒ Yes ☐ No; Intact ☒ Yes ☐ No	CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other:			

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

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

CARDINAL 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: 05/30/06
Reporting Date: 05/31/06
Project Owner: HESS CORPORATION
Project Name: BATTERY 94
Project Location: MONUMENT, NM

Sampling Date: 05/26/06
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: NF
Analyzed By: BC/HM

LAB NUMBER	SAMPLE ID	GRO (C_6-C_{10}) (mg/Kg)	DRO (>C_{10}-C_{28}) (mg/Kg)	Cl* (mg/Kg)
ANALYSIS DATE		05/30/06	05/30/06	05/30/06
H11167-1	NORTH COMPOSITE	<10.0	189	208
H11167-2	SOUTH COMPOSITE	<10.0	135	176
Quality Control		743	782	980
True Value QC		800	800	1000
% Recovery		92.9	97.8	98.0
Relative Percent Difference		2.1	2.3	1.0

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; Cl^-: Std. Methods 4500-Cl^-B
*Analyses performed on 1:4 w:v aqueous extracts.

Chemist

5/31/06
Date

H11167

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	BBC International, Inc.
Project Manager:	Cliff Brunson
Address:	1324 W. Marland
City:	Hobbs State: NM Zip: 88240
Phone #:	505-397-6388 Fax #: 505-397-0397
Project #:	Project Owner: Hess Corporation
Project Name:	Battery 94
Project Location:	Monument
Sampler Name:	Amy Ruth

BILL TO

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

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	ANALYSIS REQUEST: Chloride	TPH 8015 M
H11167-1	North Composite	C	1			✓					✓		5/26/06	1001 am	✓	✓
-2	South Composite	C	1			✓					✓		5/26/06	953 am	✓	✓

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 the client for the 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 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.

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Sampler Relinquished:	Date:	Received By:	
	Time:		
Relinquished By: Amy Ruth	Date: 5/30/06	Received By: (Lab Staff) Nick Fulk	
	Time: 9:05 am		
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Sample Condition: Cool: ☒ Yes ☐ No; Intact: ☒ Yes ☐ No	CHECKED BY: (Initials)	

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

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

CARDINAL 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: 06/02/06
Reporting Date: 06/05/06
Project Owner: HESS CORPORATION
Project Name: BATTERY #94
Project Location: MONUMENT, NM

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

LAB NUMBER	SAMPLE ID	GRO (C_6-C_{10}) (mg/Kg)	DRO (>C_{10}-C_{28}) (mg/Kg)	Cl* (mg/Kg)
ANALYSIS DATE		06/05/06	06/05/06	06/05/06
H11181-1	NORTH COMPOSITE	<10.0	<10.0	160
H11181-2	SOUTH COMPOSITE	<10.0	34.2	144
Quality Control		774	777	1000
True Value QC		800	800	1000
% Recovery		96.9	97.2	100
Relative Percent Difference		7.1	4.6	1.0

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; Cl^-: Std. Methods 4500-Cl^-B
*Analyses performed on 1:4 w:v aqueous extracts.

Chemist

6/5/06
Date

H11181

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

CARDINAL 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

Company Name:	BBC International, Inc.
Project Manager:	Cliff Brunson
Address:	1324 W. Marland
City:	Hobbs State: NM Zip: 88240
Phone #:	505-397-6388 Fax #: 505-397-0397
Project #:	Project Owner: Hess Corporation
Project Name:	Battery #94
Project Location:	Monument
Sampler Name:	Amy Ruth

BILL TO

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

FOR LAB USE ONLY				MATRIX							PRESERV.			SAMPLING		ANALYSIS REQUEST	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	Chloride	TPH 8015 MOD
H11181-1	North Composite	C	1			✓					✓		6/2/06	300 pm	✓	✓
-2	South Composite	C	1			✓					✓		6/2/06	302 pm	✓	✓

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 the client for the 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 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.

Terms and Conditions: Interest will be charged on all accounts more than 30 days past due at the rate of 24% per annum from the original date of invoice, and all costs of collection, including attorney's fees.

Sampler Relinquished:	Date:	Received By:	
	Time:		
Relinquished By:	Date: 6/2/06	Received By: (Lab Staff)	
	Time: 520 pm		
Delivered By: (Circle One)	Sample Condition: Cool ☒ Yes ☐ No; Intact ☒ Yes ☐ No	CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other:			

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

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CARDINAL LABORATORIES

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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, NM 88241
FAX TO: (505) 397-0397

Receiving Date: 06/14/06
Reporting Date: 06/17/06
Project Owner: HESS CORP.
Project Name: BATTERY 94
Project Location: MONUMENT, NM

Sampling Date: 06/14/06
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: NF
Analyzed By: BC/HM

LAB NUMBER	SAMPLE ID	GRO (C_6-C_{10}) (mg/Kg)	DRO (>C_{10}-C_{28}) (mg/Kg)	Cl* (mg/Kg)
ANALYSIS DATE		06/16/06	06/16/06	06/14/06
H11230-1	SOUTH COMPOSITE	<10.0	22.5	208
H11230-2	NORTH COMPOSITE	<10.0	25.4	175
Quality Control		769	785	990
True Value QC		800	800	1000
% Recovery		96.1	98.1	99.0
Relative Percent Difference		5.0	0.4	1.0

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; Cl^-: Std. Methods 4500-Cl^-B
*Analyses performed on 1:4 w:v aqueous extracts.

Chemist

6/17/06
Date

H11230A

CARDINAL LABORATORIES, INC.

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101 East Marland, Hobbs, NM 88240 (505) 393-2326 Fax (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 1

Company Name:	BBC International	BILL TO	PO #:
Project Manager:	Cliff Brunson	Company:	
Address:	1324 W Marland	Attn:	
City:	Hobbs State: NM Zip: 88240	Address:	SAME
Phone #:	505-397-6388	City:	
Fax #:	505-397-0397	State:	Zip:
Project #:	Project Owner: Hess Corp	Phone #:	
Project Name:	Battery 94	Fax #:	
Project Location:	Monument		

FOR LAB USE ONLY				MATRIX						PRES.			SAMPLING		ANALYSIS REQUEST															
LAB I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID:	ICE / COOL	OTHER:	DATE	TIME	Chloride	TPH (GRO/DRO) 8015 M													
H11230-1	South Composite	C	1			✓					✓		6/14/06	958	✓	✓													
-2	North Composite	C	1			✓					✓		6/14/06	1000	✓	✓													

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Sampler Relinquished:	Date:	Received By:	Phone Result ☐ Yes ☐ No Additional Fax #:
	Time:		Fax Result: ☐ Yes ☐ No
Relinquished By:	Date: 6/14/06	Received By: (Lab Staff)	REMARKS:
	Time: 1056		
Delivered By: (Circle One)	Sample Condition Cool ☒ Yes ☐ No Intact ☒ Yes ☐ No	CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other:			

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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, NM 88241
FAX TO: (505) 397-0397

Receiving Date: 06/23/06
Reporting Date: 06/27/06
Project Owner: HESS CORPORATION
Project Name: BATTERY 94
Project Location: MONUMENT, NM

Sampling Date: 06/22/06
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: BC/AB

LAB NUMBER	SAMPLE ID	GRO (C_6-C_{10}) (mg/Kg)	DRO (>C_{10}-C_{28}) (mg/Kg)	Cl* (mg/Kg)
ANALYSIS DATE		06/25/06	06/25/06	06/23/06
H11269-1	NORTH COMPOSITE	<10.0	11.6	160
H11269-2	SOUTH COMPOSITE	<10.0	19.2	192
Quality Control		780	814	980
True Value QC		800	800	1000
% Recovery		97.6	102	98.0
Relative Percent Difference		5.3	1.8	2.0

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; Cl^-: Std. Methods 4500-Cl^-B
*Analyses performed on 1:4 w:v aqueous extracts.

Chemist

6/27/06
Date

H11269

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Page 1 of 1

Company Name: BBC International, Inc.
Project Manager: Cliff Brunson
Address: 1324 W. Marland
City: Hobbs State: NM Zip: 88240
Phone #: 505-397-6388 Fax #: 505-397-0397
Project #: Project Owner: Hess Corporation
Project Name: Battery 94
Project Location: Monument
Sampler Name: Amy Ruth

BILL TO
P.O. #:
Company: Hess Corp
Attn: Randy Barnes
Address:
City: Seminole
State: TX Zip:
Phone #:
Fax #:

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	ANALYSIS REQUEST: Chloride	TPH (GRO/DRO) 8015M
H11269-1	North Composite	C	1			✓					✓		6/22/06	1639	✓	✓
-2	South Composite	C	1			✓					✓		6/22/06	1641	✓	✓

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Sampler Relinquished: Date: Time: Received By:

Relinquished By: Amy Ruth Date: 6/23/06 Time: 1050 am Received By: (Lab Staff) [signature]

Delivered By: (Circle One) Sampler - UPS - Bus - Other:

Sample Condition: Cool ☒ Yes ☐ No; Intact ☒ Yes ☐ No

CHECKED BY: (Initials)

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

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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, NM 88241
FAX TO: (505) 397-0397

Receiving Date: 07/14/06
Reporting Date: 07/18/06
Project Owner: HESS CORP.
Project Name: BATTERY 94
Project Location: MONUMENT, NM

Sampling Date: 07/14/06
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: NF
Analyzed By: BC/HM

LAB NUMBER	SAMPLE ID	GRO (C_6-C_{10}) (mg/Kg)	DRO (>C_{10}-C_{28}) (mg/Kg)	Cl* (mg/Kg)
ANALYSIS DATE		07/17/06	07/17/06	07/17/06
H11341-1	NORTH COMPOSITE	<10.0	39.3	80
H11341-2	SOUTH COMPOSITE	<10.0	<10.0	48
Quality Control		769	801	1010
True Value QC		800	800	1000
% Recovery		96.1	100	101
Relative Percent Difference		2.1	2.3	1.0

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; Cl^-: Std. Methods 4500-Cl^-B
*Analyses performed on 1:4 w:v aqueous extracts.

Chemist

7/18/06
Date

H11341

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

CARDINAL LABORATORIES, INC.
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(915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2476

Company Name: BBC International, Inc.	BILL TO
Project Manager: Cliff Brunson	P.O. #:
Address: 1324 W. Marland	Company: Hess Corporation
City: Hobbs State: NM Zip: 88240	Attn: Randy Barnes
Phone #: 505-397-6388 Fax #: 505-397-0397	Address:
Project #: Project Owner: Hess Corp	City: Seminole
Project Name: Battery 94	State: TX Zip:
Project Location: Monument	Phone #:
Sampler Name: Amy Ruth	Fax #:

ANALYSIS REQUEST

FOR LAB USE ONLY				MATRIX						PRESERV.			SAMPLING			
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	Chloride	TPH (GRO/DRO) 8015 M
H11341-1	North Composite	C	1			✓					✓		7/14/06	1416	✓	✓
-2	South Composite	C	1			✓					✓		7/14/06	1420	✓	✓

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Sampler Relinquished:	Date:	Received By:	
	Time:		
Relinquished By: Amy Ruth	Date: 7/14/06	Received By: (Lab Staff)	
	Time: 1705		
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Sample Condition Cool: ☒ Yes ☐ No Intact: ☒ Yes ☐ No	CHECKED BY: (Initials)	

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

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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: 08/01/06
Reporting Date: 08/03/06
Project Owner: HESS CORPORATION
Project Name: BATTERY #94
Project Location: MONUMENT, NM

Sampling Date: 07/31/06
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: BC/AB

LAB NUMBER	SAMPLE ID	GRO (C_6-C_{10}) (mg/Kg)	DRO (>C_{10}-C_{28}) (mg/Kg)	Cl* (mg/Kg)
ANALYSIS DATE		08/03/06	08/03/06	08/01/06
H11403-1	NORTH COMPOSITE	<10.0	53.7	64
H11403-2	SOUTH COMPOSITE	<10.0	37.5	96
Quality Control		748	756	990
True Value QC		800	800	1000
% Recovery		93.5	94.5	99.0
Relative Percent Difference		2.0	0.5	0.0

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

Chemist

8/3/06
Date

H11403

CARDINAL LABORATORIES, INC.

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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101 East Marland, Hobbs, NM 88240 (505) 393-2326 Fax (505) 393-2476

Page 1 of 1

Company Name: BBC International, Inc.	BILL TO
Project Manager: Cliff Brunson	P.O. #:
Address: 1324 W. Marland	Company: Hess Corp.
City: Hobbs State: NM Zip: 88240	Attn: Randy Barnes
Phone #: 505-397-6388 Fax #: 505-397-0397	Address:
Project #: Project Owner: Hess Corporation	City: Seminole
Project Name: Battery #94	State: TX Zip:
Project Location: Monument	Phone #:
Sampler Name: Amy Ruth	Fax #:

FOR LAB USE ONLY				MATRIX						PRESERV.			SAMPLING		ANALYSIS REQUEST	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	Chloride	TPH (GRO/DRO) 8015 M
H11403-1	North Composite	C	1			✓					✓		7/31/04	1700	✓	✓
-2	South Composite	C	1			✓					✓		7/31/04	1703	✓	✓

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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: Amy Ruth	Date: 8/1/04	Received By: (Lab Staff) Burgess J. Cole	REMARKS:
	Time: 1209 pm		
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Sample Condition Cool: ☒ Yes ☐ No Intact: ☒ Yes ☐ No	CHECKED BY: (Initials)	

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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: 08/17/06
Reporting Date: 08/21/06
Project Owner: HESS CORP.
Project Name: C&C LANDFARM BATTERY #94
Project Location: MONUMENT, NM

Sampling Date: 08/17/06
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: BC/AB

LAB NUMBER	SAMPLE ID	GRO (C_6-C_{10}) (mg/Kg)	DRO (>C_{10}-C_{28}) (mg/Kg)	Cl* (mg/Kg)
ANALYSIS DATE		08/18/06	08/18/06	08/18/06
H11454-1	SOUTH COMPOSITE	<10.0	36.6	112
H11454-2	NORTH COMPOSITE	<10.0	56.0	112
Quality Control		769	739	980
True Value QC		800	800	1000
% Recovery		96.1	92.4	98.0
Relative Percent Difference		1.2	4.9	2.0

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; Cl^-: Std. Methods 4500-Cl^-B
*Analyses performed on 1:4 w:v aqueous extracts.

Chemist

8/21/06
Date

H11454

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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(915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2476

Company Name:	BBC International, Inc.
Project Manager:	Cliff Brunson
Address:	1324 Marland
City:	Hobbs State: NM Zip: 88240
Phone #:	505-397-6388 Fax #: 505-397-0397
Project #:	Project Owner: Hess Corp.
Project Name:	C+C Landfarm Battery #94
Project Location:	Monument
Sampler Name:	Amy Ruth

BILL TO

P.O. #:	
Company:	Hess Corp.
Attn:	Randy Barnes
Address:	
City:	Seminole
State:	TX Zip: 882
Phone #:	
Fax #:	

FOR LAB USE ONLY				MATRIX						PRESERV.			SAMPLING		ANALYSIS REQUEST	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	TPH (GRO/DRO) 8015 M	Chloride
H11454-1	South Composite	C	1			✓					✓		8/17/06	1505	✓	✓
-2	North Composite	C	1			✓					✓		8/17/06	1508	✓	✓

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Sampler Relinquished:	Date:	Received By:	
	Time:		
Relinquished By: Amy Ruth	Date: 8/17/06	Received By: (Lab Staff) Burgess W. Cook	
	Time: 433 pm		
Delivered By: (Circle One) Sampler UPS - Bus - Other:		Sample Condition: Cool ☑ Yes ☐ No; Intact ☒ Yes ☐ No	CHECKED BY: (Initials)

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

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TABLE 2

Groundwater Laboratory Analytical Results Summary

NMGSAU Battery #94
Monument, New Mexico

Prepared for:
Hess Corporation
Seminole, Texas

January, 2007

Prepared by:
BBC International, Inc.

CARDINAL 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: 04/26/05
Reporting Date: 04/29/05
Project Number: NOT GIVEN
Project Name: COOPER LEASE
Project Location: MONUMENT, NM

Sampling Date: 04/26/05
Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT
Sample Received By: NF
Analyzed By: AH/BC

LAB NO.	SAMPLE ID	Cl^- (mg/L)	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL BENZENE (mg/L)	TOTAL XYLENES (mg/L)
ANALYSIS DATE:		04/26/05	04/27/05	04/27/05	04/27/05	04/27/05
H9749-1	MW #1	112	<0.002	<0.002	<0.002	<0.006
H9749-2	MW #4	108	<0.002	<0.002	<0.002	<0.006
H9749-3	MW #3	380	<0.002	<0.002	<0.002	<0.006
H9749-4	MW #2	92	<0.002	<0.002	<0.002	<0.006
Quality Control		998	0.090	0.089	0.094	0.293
True Value QC		1000	0.100	0.100	0.100	0.300
% Recovery		99.8	89.8	88.7	94.4	97.7
Relative Percent Difference		0.2	3.2	7.3	2.9	6.1

METODS: Cl^- - Std. Methods 4500-Cl^-B; BTEX - EPA SW-846-8020

Burgess J. A. Cooke, Ph. D.

4/29/05
Date

H9749.XLS

CARDINAL LABORATORIES, INC.

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: BBC International	BILL TO
Project Manager: Cliff Brunson	P.O. #:
Address: 1324 W. Marland	Company: SAME
City: Hobbs State: NM Zip: 88240	Attn:
Phone #: (505) 3976388 Fax #: (505) 3970397	Address:
Project #: Project Owner:	City:
Project Name:	State: Zip:
Project Location: Cooper Lease, Monument NM	Phone #:
Sampler Name: Roger Hernandez	Fax #:

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	ANALYSIS REQUEST: BTEX	Cl-
H9749-1	MW #1 (VOA)	G	2	✓							✓		4.26	9:50	✓	
	MW #1 (500)	G	1	✓							✓		4.26	9:46		✓
2	MW #4 (VOA)	G	2	✓							✓		4.26	10:26	✓	
	MW #4 (500)	G	1	✓							✓		4.26	10:23		✓
3	MW #3 (VOA)	G	2	✓							✓		4.26	10:48	✓	
	MW #3 (500)	G	1	✓							✓		4.26	10:45		✓
4	MW #2 (VOA)	G	2	✓							✓		4.26	11:15	✓	
	MW #2 (500)	G	1	✓							✓		4.26	11:14		✓

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Sampler Relinquished: Roger Hernandez	Date: 4.26.05 Time:	Received By:	Phone Result: ☐ Yes ☐ No Add'l Phone #:
Relinquished By:	Date: Time:	Received By: (Lab Staff)	Fax Result: ☐ Yes ☐ No Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Sample Condition: Cool ☒ Yes ☐ No Intact ☒ Yes ☐ No	CHECKED BY: (Initials)	REMARKS:

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

CARDINAL LABORATORIES

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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, NM 88241
FAX TO: (505) 397-0397

Receiving Date: 08/18/05
Reporting Date: 08/19/05
Project Owner: AMERADA HESS
Project Name: (BAT. #94), NMGSAU
Project Location: MONUMENT, NM

Sampling Date: 08/17/05
Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: AH/BC

LAB NO.	SAMPLE ID	Cl^- (mg/L)	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL BENZENE (mg/L)	TOTAL XYLENES (mg/L)
ANALYSIS DATE:		08/18/05	08/18/05	08/18/05	08/18/05	08/18/05
H10093-1	MW #2	92	<0.002	<0.002	<0.002	<0.006
H10093-2	MW #4	96	<0.002	<0.002	<0.002	<0.006
H10093-3	MW #1	112	<0.002	<0.002	<0.002	<0.006
H10093-4	MW #3	208	<0.002	<0.002	<0.002	<0.006
Quality Control		980	0.103	0.089	0.098	0.307
True Value QC		1000	0.100	0.100	0.100	0.300
% Recovery		98.0	103.0	89.4	98.1	102.0
Relative Percent Difference		1.0	7.0	1.7	4.1	3.3

METODS: Cl^- - Std. Methods 4500-Cl^-B; BTEX - EPA SW-846-8020

Burgess J. A. Cooke, Ph. D.

8/19/05
Date

H10093.XLS

CARDINAL 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

Company Name:	BBC INTERNATIONAL	BILL TO	
Project Manager:	CLIFF BRUNSON	P.O. #:	
Address:	1324 W. MARLAND	Company:	
City:	HOBBS State: NM Zip: 88240	Attn:	
Phone #:	(505) 397 6388 Fax #: (505) 397 0397	Address:	
Project #:	Project Owner: AMERADA HESS	City:	
Project Name:	(Bat #94), NMG-SAU	State: Zip:	
Project Location:	MONUMENT NEW MEXICO	Phone #:	
Sampler Name:	ROGER HERNANDEZ	Fax #:	

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	ANALYSIS REQUEST: BTEX	CL-
H11005-1	MW #2 (VOA)		2	✓						✓	✓		8·17	9:30	✓	
	MW #2 (250)		1	✓							✓		8·17	9:30		✓
-2	MW #4 (VOA)		2	✓						✓	✓		8·17	10:15	✓	
	MW #4 (250)		1	✓							✓		8·17	10:15		✓
-3	MW #1 (VOA)		2	✓						✓	✓		8·17	10:35	✓	
	MW #1 (250)		1	✓							✓		8·17	10:35		✓
-4	MW #3 (VOA)		2	✓						✓	✓		8·17	11:08	✓	
	MW #3 (250)		1	✓							✓		8·17	11:08		✓

Sampler Relinquished: ROGER HERNANDEZ	Date: 8.18 Time: 5:10	Received By:	Phone Result: ☐ Yes ☐ No Add'l Phone #:
Relinquished By:	Date: Time:	Received By: (Lab Staff)	Fax Result: ☐ Yes ☐ No Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Sample Condition: Cool Yes ☒ No ☐ Intact Yes ☒ No ☐	CHECKED BY: (Initials)	REMARKS:

† 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
P.O. BOX 805
HOBBS, NM 88241
FAX TO: (505) 397-0397

Receiving Date: 12/30/05
Reporting Date: 01/04/05
Project Number: NOT GIVEN
Project Name: (BAT #94) NMGSAU
Project Location: MONUMENT, NM

Sampling Date: 12/30/05
Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: AH/BC

LAB NO.	SAMPLE ID	Cl^- (mg/L)	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL BENZENE (mg/L)	TOTAL XYLENES (mg/L)
ANALYSIS DATE:		12/30/05	01/03/06	01/03/06	01/03/06	01/03/06
H10555-1	MW #2	104	<0.002	<0.002	<0.002	<0.006
H10555-2	MW #4	136	<0.002	<0.002	<0.002	<0.006
H10555-3	MW #1	108	<0.002	<0.002	<0.002	<0.006
H10555-4	MW #3	134	<0.002	<0.002	<0.002	<0.006
Quality Control		500	0.092	0.097	0.105	0.317
True Value QC		500	0.100	0.100	0.100	0.300
% Recovery		100	92.4	97.2	105	105.0
Relative Percent Difference		0.0	2.9	1.0	3.4	1.0

METHODS: Cl^- - Std. Methods 4500-Cl^-B; BTEX - EPA SW-846-8020

Burgess J. A. Cooke, Ph. D.

1/4/05
Date

CARDINAL LABORATORIES, INC.

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:	BEC International
Project Manager:	Cliff Brunson
Address:	1324 W. Marland
City: Hobbs	State: NM Zip: 88240
Phone #: (505) 397-6388	Fax #: (505) 397-0397
Project #:	Project Owner:
Project Name:	(Bat #94) NMGSAU
Project Location:	Monument New Mexico
Sampler Name:	Cliff Brunson

BILL TO

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

ANALYSIS REQUEST

FOR LAB USE ONLY		MATRIX						PRESERV.			SAMPLING		ANALYSIS REQUEST
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	BTEX / CL
H10595-1	MW # 2		1	✓							✓		12.30	9:05	✓ / ✓
	MW # 2		1	✓							✓		12.30	9:05	
-2	MW # 4		1	✓							✓		12.30	9:40	✓ / ✓
	MW # 4		1	✓							✓		12.30	9:40	
-3	MW # 1		1	✓							✓		12.30	10:05	✓ / ✓
	MW # 1		1	✓							✓		12.30	10:05	
-4	MW # 3		1	✓							✓		12.30	10:35	✓ / ✓
	MW # 3		1	✓							✓		12.30	10:35	

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Sampler Relinquished:	Date: 12/30/05	Received By:	
	Time: 1:36pm		
Relinquished By:	Date:	Received By: (Lab Staff)	
	Time:		
Delivered By: (Circle One)	Sample Condition: Cool ☐Yes ☐No Intact ☐Yes ☐No	CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other:			

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

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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: 03/21/06
Reporting Date: 03/24/06
Project Owner: AMERADA HESS
Project Name: (BAT #94) NMGSAU
Project Location: MONUMENT, NM

Analysis Date: 03/21/06
Sampling Date: 03/21/06
Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT
Sample Received By: NF
Analyzed By: AB

LAB NUMBER	SAMPLE ID	Cl^- (mg/L)
H10913-1	MW #2	92
H10913-2	MW #1	108
H10913-3	MW #3	180
H10913-4	MW #4	184
Quality Control		510
True Value QC		500
% Recovery		102
Relative Percent Difference		0

METHOD: Standard Methods	4500-Cl^-B

Hope S. Moreno
Chemist

03-27-06
Date

CARDINAL LABORATORIES

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

Receiving Date: 3/21/06
Reporting Date: 3/27/06
Project Number: NONE GIVEN
Project Name: (BAT #94) NMGSAU
Project Location: MONUMENT, NM

Sampling Date: 3/21/06
Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT
Sample Received By: NF
Analyzed By: JC

LAB NUMBER	SAMPLE ID	BENZENE (µg/L)	TOLUENE (µg/L)	ETHYLBENZENE (µg/L)	TOTAL XYLENES (µg/L)
ANALYSIS DATE:		03/24/06	03/24/06	03/24/06	03/24/06
H10913-1	MW #2	<2.00	<2.00	<2.00	<6.00
H10913-2	MW #1	<2.00	<2.00	<2.00	<6.00
H10913-3	MW #3	<2.00	<2.00	<2.00	<6.00
H10913-4	MW #4	<2.00	<2.00	<2.00	<6.00
Quality Control		97	88.7	89	271
True Value QC		100	100	100	300
% Recovery		97	88.7	89	90.3
Relative Percent Difference		3.7	5.4	6.1	4.3

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

Burgess J. Cooke
Laboratory Manager

3/27/06
Date

CARDINAL LABORATORIES, INC.

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 1

Company Name:	BBC International	BILL TO	
Project Manager:	Cliff Brunson	P.O. #:	
Address:	1324 S. Marland	Company:	
City:	Hobbs State: NM Zip: 88240	Attn:	SAME
Phone #:	(505) 397-6388 Fax #: (505) 397-0397	Address:	
Project #:	Project Owner: Amerada Hess	City:	
Project Name:	(Bat #94) NMGSAU	State: Zip:	
Project Location:	Monument NM	Phone #:	
Sampler Name:	Roger Hernandez	Fax #:	

FOR LAB USE ONLY				MATRIX						PRESERV.			SAMPLING		ANALYSIS REQUEST											
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	BTEX	Cl.										
H10913-1	MW # 2		1	✓							✓		3-21-06	1:43	✓	✓										
-2	MW # 1		1	✓							✓		3-21-06	2:00	✓	✓										
-3	MW # 3		1	✓							✓		3-21-06	2:20	✓	✓										
-4	MW # 4		1	✓							✓		3-21-06	2:40	✓	✓										

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Sampler Relinquished: Roger Hernandez	Date: 3-21-06 Time: 3:20	Received By:	Phone Result: ☐ Yes ☐ No Add'l Phone #:
			Fax Result: ☐ Yes ☐ No Add'l Fax #:
Relinquished By:	Date: Time:	Received By: (Lab Staff) Nick Fullerton	REMARKS:
Delivered By: (Circle One) Sampler · UPS · Bus · Other:	Sample Condition Cool: ☒ Yes ☐ No Intact: ☒ Yes ☐ No	CHECKED BY: (Initials) NF	

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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: 06/30/06
Reporting Date: 07/07/06
Project Number: AMERADA HESS
Project Name: (BAT #94) NMSAU
Project Location: MONUMENT, NM

Sampling Date: 06/29/06
Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT
Sample Received By: HM
Analyzed By: HM/BC

LAB NO.	SAMPLE ID	Cl⁻ (mg/L)	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL BENZENE (mg/L)	TOTAL XYLENES (mg/L)
ANALYSIS DATE:		07/07/06	07/06/06	07/06/06	07/06/06	07/06/06
H11309-1	MW #2	116	<0.002	<0.002	<0.002	<0.006
H11309-2	MW #1	108	<0.002	<0.002	<0.002	<0.006
H11309-3	MW #3	208	<0.002	<0.002	<0.002	<0.006
H11309-4	MW #4	204	<0.002	<0.002	<0.002	<0.006
Quality Control		960	0.100	0.098	0.098	0.305
True Value QC		1000	0.100	0.100	0.100	0.300
% Recovery		96.0	99.7	98.1	97.7	102
Relative Percent Difference		4.2	4.0	3.6	1.0	1.14

METODS: Cl⁻ - Std. Methods 4500-ClˉB; BTEX - EPA SW-846-8020

Burgess J. A. Cooke, Ph. D.

7/7/06
Date

CARDINAL LABORATORIES, INC.

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 1

Company Name:	BBC INTERNATIONAL	BILL TO	
Project Manager:	Cliff Brunson	P.O. #:	
Address:	1324 W. MARLAND	Company:	Hess Corp
City:	HOBBS	State: NM Zip:	88240
Phone #:	(505) 3976388	Fax #:	(505) 3970397
Project #:		Project Owner:	Amerada Hess
Project Name:	(Bat #94)	NMSAU	
Project Location:	Monument	New Mexico	
Sampler Name:	Rafer Hernandez	Attn: / Address: / City: / State: / Zip: / Phone #: / Fax #:	

ANALYSIS REQUEST: BTEX; Cl-

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	BTEX	Cl-
H11309-1	MW # 2		VOA 2	✓						✓	✓		6-29	2:40	✓	✓
-7	MW # 2		250 1	✓							✓		6-29	2:40		✓
-2 -2	MW # 1		VOA 2	✓						✓	✓		6-29	3:15	✓	
-8	MW # 1		250 1	✓							✓		6-29	3:15		✓
-3 -3	MW # 3		VOA 2	✓						✓	✓		6-29	3:48	✓	
-3	MW # 3		250 1	✓							✓		6-29	3:48		✓
-4 -4	MW # 4		VOA 2	✓						✓	✓		6-29	4:15	✓	
-4	MW # 4		250 1	✓							✓		6-29	4:15		✓

H&M

Sampler Relinquished: Rafer Hernandez	Date: 6-30-06 Time: 14:00	Received By:	Phone Result: ☐ Yes ☐ No Add'l Phone #:
Relinquished By:	Date: 6-30-06 Time: 14:07	Received By: (Lab Staff) Hope S. Mc	Fax Result: ☐ Yes ☐ No Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Sample Condition Cool: Yes / No Intact: Yes / No	CHECKED BY: (Initials)	REMARKS:

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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: 09/26/06
Reporting Date: 09/27/06
Project Owner: HESS
Project Name: BATTERY #94
Project Location: EUNICE, NEW MEXICO

Sampling Date: 09/25/06
Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT
Sample Received By: NF
Analyzed By: HM/BC

LAB NO.	SAMPLE ID	Cl⁻ (mg/L)	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL BENZENE (mg/L)	TOTAL XYLENES (mg/L)
ANALYSIS DATE:		09/27/06	09/26/06	09/26/06	09/26/06	09/26/06
H11577-1	MW #2	152	<0.002	<0.002	<0.002	<0.006
H11577-2	MW #1	140	<0.002	<0.002	<0.002	<0.006
H11577-3	MW #3	260	<0.002	<0.002	<0.002	<0.006
H11577-4	MW #4	280	<0.002	<0.002	<0.002	<0.006
Quality Control		490	0.100	0.103	0.105	0.300
True Value QC		500	0.100	0.100	0.100	0.300
% Recovery		98.0	100	103	105	100
Relative Percent Difference		0.0	6.1	3.0	8.1	1.1

METODS: Cl⁻ - Std. Methods 4500-Cl⁻B; BTEX - EPA SW-846-8020

Burgess J. A. Cooke, Ph. D.

9/27/06
Date

H11577

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

CARDINAL LABORATORIES, INC.
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Page 1 of 1

Company Name:	BBC International	BILL TO	
Project Manager:	Cliff Brunson	P.O. #:	
Address:	1324 W. Marland	Company:	
City:	Hobbs	State: NM Zip: 88240	Attn: Same
Phone #:		Fax #: (505) 3970397	Address:
Project #:		Project Owner: Hess	City:
Project Name:	Battery #94		State: Zip:
Project Location:	Eunice New Mexico		Phone #:
Sampler Name:	Roger Hernandez		Fax #:

ANALYSIS REQUEST: BTEX 8021 / Cl -

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	BTEX 8021	Cl -
H11577-1	MW # 2	G	1	✓							✓		9.25.06	1:28		✓
	MW # 2	G	2	✓						✓	✓		9.25.06	1:28	✓	
-2	MW # 1	G	1	✓							✓		9.25.06	1:51		✓
	MW # 1	G	2	✓						✓	✓		9.25.06	1:51	✓	
-3	MW # 3	G	1	✓							✓		9.25.06	2:25		✓
	MW # 3	G	2	✓						✓	✓		9.25.06	2:25	✓	
-4	MW # 4	G	1	✓							✓		9.25.06	2:56		✓
	MW # 4	G	2	✓						✓	✓		9.25.06	2:56	✓	

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Terms and Conditions: Interest will be charged on all accounts more than 30 days past due at the rate of 24% per annum from the original date of invoice, and all costs of collection, including attorney's fees.

Sampler Relinquished: Roger Hernandez	Date: 9.26.06 Time: 9:20	Received By:	Phone Result: ☐ Yes ☐ No Add'l Phone #:
Relinquished By:	Date: 9-26-06 Time: 4:30	Received By: (Lab Staff)	Fax Result: ☐ Yes ☐ No Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Sample Condition: Cool: Yes ☒ No ☐ Intact: Yes ☒ No ☐	CHECKED BY: (Initials) N.T.	REMARKS:

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