

1R - 427-216

REPORTS

DATE:

3-15-07

EME Jct O-32

1R-427-216

RECEIVED

APR - 4 2007

Environmental Bureau
Oil Conservation Division

Closure



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON
Governor

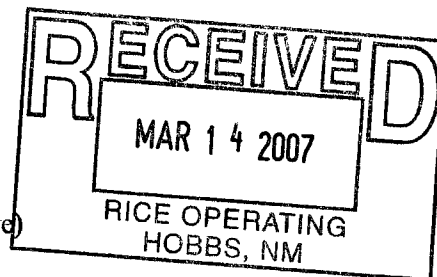
Joanna Prukop
Cabinet Secretary
Acting Director
Oil Conservation Division

COPY

June 4, 2004

Amerada Hess Corporation
Attn: Samuel Small
P.O. Box 840
Seminole, Texas 79360

Re: Abandon Battery Site Closure Approval
NMGSAU Battery No. 67 (Chevron May Love)
UL-O - Sec. 32-T19S-R35E



Dear Mr. Small:

The closure request referenced above submitted to the New Mexico Oil Conservation Division (OCD) by Amerada Hess Corporation is **hereby approved**. According to the information provided, no further action is required at this time.

Please be advised that OCD approval of this plan does not relieve Amerada Hess Corporation of liability should their operations fail to adequately investigate and remediate contaminants that threaten ground water, surface water, human health or the environment. In addition, OCD approval does not relieve Amerada Hess Corporation of responsibility for compliance with any other federal, state, or local laws and/or regulations.

If you have any questions or need any assistance please email: psheeley@state.nm.us or call: (505) 393-6161 x113.

Sincerely,

Paul Sheeley-Environmental Engineer

Cc: Roger Anderson - Environmental Bureau Chief
Chris Williams - District I Supervisor
Larry Johnson - Environmental Engineer
William Olson - Hydrologist

EMIE jct. O-32

Unit 'O', Sec. 32, T19S, R37E



flagged stake marking former junction box site 10/12/2005



flagged stake marking former junction box site 10/12/2005



new junction box 50 ft south of former site 11/10/2005

EME jct. O-32

Unit 'O', Sec. 32, T19S, R37E

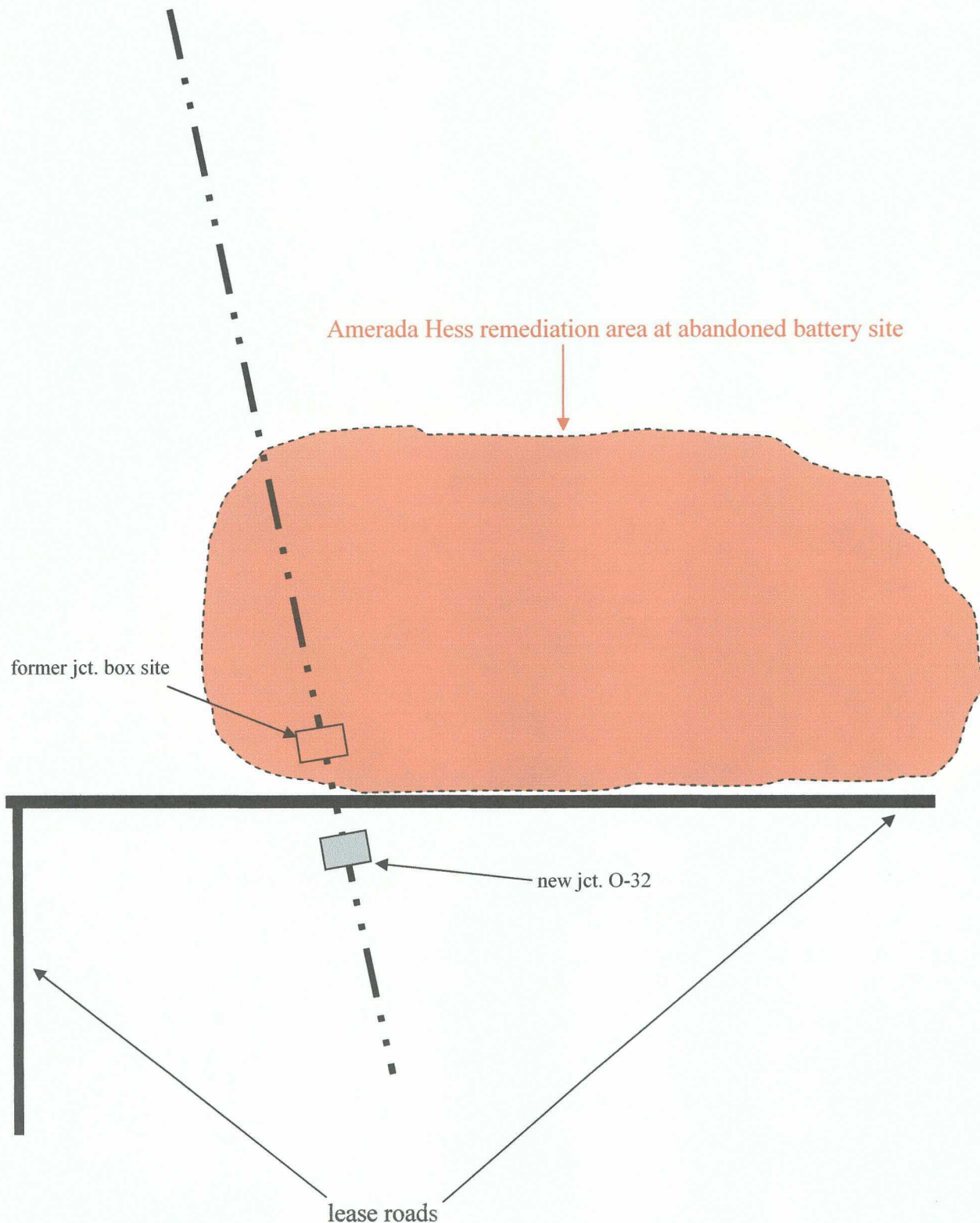
NORTH

Amerada Hess remediation area at abandoned battery site

former jct. box site

new jct. O-32

lease roads



**RICE OPERATING COMPANY
JUNCTION BOX FINAL REPORT**

BOX LOCATION

SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	NEW BOX DIMENSIONS - FEET		
EME	jct. O-32	O	32	19S	37E	Lea	Length	Width	Depth
							moved 50 ft south		

LAND TYPE: BLM _____ STATE _____ FEE LANDOWNER Edwin Johnston OTHER _____

Depth to Groundwater 30 feet NMOCD SITE ASSESSMENT RANKING SCORE: 20

Date Started Sept. 2001 Date Completed Sept. 2004 NMOCD Witness no

Soil Excavated n/a cubic yards Excavation Length n/a Width n/a Depth n/a feet

Soil Disposed n/a cubic yards Offsite Facility n/a Location n/a

FINAL ANALYTICAL RESULTS: Sample Date n/a Sample Depth n/a

5-point composite sample of bottom and 4-point composite sample of excavation sidewalls. TPH and chloride laboratory test results completed by using an approved laboratory and testing procedures pursuant to NMOCD guidelines.

CHLORIDE FIELD TESTS

Sample Location	PID (field) ppm	GRO mg/kg	DRO mg/kg	Chloride mg/kg
4-WALL COMP.	see attached report			
BOTTOM COMP.				
BACKFILL				

LOCATION	DEPTH (ft)	ppm
n/a		

General Description of Remedial Action:

This junction box was encompassed within the remediation of a production battery site by

Amerada Hess Corporation. The abandoned battery was called the NMGSAU Battery No. 67 (Chevron May Love). OCD approved Amerada Hess's request for closure of this on June 4, 2004 and a closure report was submitted to OCD on September 24, 2004. A copy of this closure report is enclosed.

enclosures: ROC photos, ROC site diagram, Amerada Hess Corp. Closure Report & OCD approval.

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY
KNOWLEDGE AND BELIEF.

REPORT ASSEMBLED BY Kristin Farris Pope

SIGNATURE Kristin Farris Pope

DATE 3/15/2007

TITLE Project Scientist

AMERADA HESS CORPORATION

SAMUEL W. SMALL, PE
OFFICE 432/758-6741
FAX 432/758-6768
EMAIL ssmall@hess.com

P.O. BOX 840
SEMINOLE, TEXAS 79360
432/758-6700

September 24, 2004

DELIVERED BY HAND

Mr. Chris Williams
District 1 Supervisor
New Mexico Oil Conservation Division
1625 North French Drive
Hobbs, New Mexico 88240

RE: ENV – STUDIES, SURVEYS & REPORTS

Site Remediation
NMGSAU Battery No. 67
Closure Report

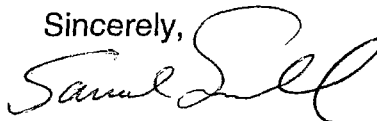
Dear Mr. Williams:

Attached is the closure report for the remedial work recently completed at the abandoned NMGSAU No. 67 tank battery site. Work began at this site in September, 2001. Work was suspended in January, 2002 due to landowner concerns and began again in July, 2004 after the landowner concerns were resolved.

The attached report contains the results of analyses conducted for TPH, BTEX and chloride concentrations on composite samples collected from the walls and bottom of each excavation prior to backfilling and of the backfill material. Monitor well test results are also included. All laboratory documentation is available in the report.

Amerada Hess Corporation would appreciate written acknowledgement from the NMOCD that the remedial work at the site satisfies current NMOCD cleanup standards. If you have any questions or require additional information, please contact me at 505-758-6741 or at the letterhead address.

Sincerely,



Samuel Small
Environmental Coordinator

Xc: NMOCD - Santa Fe
Houston Environmental File
PB Environmental File
Monument Environmental File

CLOSURE REPORT

**NORTH MONUMENT GRAYBURG SAN ANDRES UNIT
ABANDONED BATTERY SITE NO. 67
(CHEVRON MAY LOVE)**

**SE ¼, SE ¼ , Section 32, Township 19 South, Range 37 East
Lea County, New Mexico**

**Samuel Small, PE
September, 2004**

I. INTRODUCTION

The North Monument Grayburg/San Andres Unit (NMGSAU) abandoned tank battery site No. 67 is located in the SE ¼ of the SE ¼, Section 32, Township 19 South, Range 37 East, Lea County, New Mexico. The tank battery was formerly the May Love Tank Battery and was operated by Chevron USA, Inc. prior to being incorporated into the NMGSAU in 1992. The site is approximately 1 mile south of the town of Monument, NM.

There were two major areas of surface and vadose zone contamination identified at the site, the battery tank pad and a probable pit area located to the east of the tank battery pad. A possible flare or blow-down pit was also identified. An assessment of the groundwater underlying the site was conducted and the site was remediated.

II. SUMMARY OF ACTIVITIES

Activities to remediate the site commenced on September 18, 2001 with excavation in the tank battery pad area. An area approximately 164 feet by 87 feet was excavated to a depth 31 feet below the surface at which point groundwater was encountered. The NMOCD Hobbs District office was notified of the groundwater encounter telephonically and in writing on October 5, 2001. Analyses of samples of groundwater taken from the excavation, as well as four monitor wells drilled to assess the condition of the groundwater indicated that the groundwater had not been impacted by battery operations. All contaminated material was removed from the excavation, to a depth approximately 32 feet below the surface, and clean material was installed to cover the exposed groundwater. The probable pit area east of the tank battery pad, an area approximately 113 feet by 72 feet, was excavated to an approximate depth 20 feet below the surface. After sampling the excavation walls and bottom, approximately 4 feet of clay was installed in the bottom of the excavation and the excavation was backfilled with blended material to a depth approximately 4 feet below the surface. The flare pit, approximately 20 feet by 15 feet, was excavated to a depth of approximately 1.5 feet, where clean material was encountered. On January 21, 2002 work was suspended at the request of the landowner, Mr. Ed Johnston. A detailed description of the activities, sampling, analytical results and groundwater assessment is found in the interim report prepared by ETGI in June, 2002 and submitted to the NMOCD on July 22, 2002.

After prolonged negotiations, a work plan to complete the project was accepted by the landowner, AHC and the NMOCD and activities to close the excavations and complete the project commenced on July 19, 2004. Two trenches were dug in the bottom of the tank battery pad excavation to satisfy the landowner that no groundwater contamination or contaminated material was being covered up. Samples of the excavation walls and bottom were collected by BBC International, Inc. (BBC) and were submitted to Cardinal Laboratories for TPH, BTEX and chloride analyses. The results of the analyses are found in Exhibit 1. BBC also collected groundwater samples from the monitor wells and submitted them to Cardinal Laboratories for BTEX and chloride analysis. The results of the analyses, along with previous groundwater analyses, are found in Exhibit 2. What

remained of the east excavation was backfilled with clean material obtained from the landowner and the area was returned to contour. Approximately 3 feet of clean caliche capped with approximately 2 feet of red bed clay was installed in the bottom of the tank battery pad excavation. The excavation was then backfilled to within 3 feet of the surface with material blended onsite to State guidelines for TPH and BTEX concentrations. Clean material obtained from the landowner was used to complete backfilling the excavation and the area was returned to contour. The remaining spots of surface contamination along the lease road were removed from the site and replaced with clean material. The site was seeded with blue grama grass and winter rye.

Approximately 1064 yards of contaminated material was hauled to the South Monument Waste Facility in October, 2001 and approximately 1008 yards of contaminated material was hauled to the C&C Landfarm in July, 2004. Approximately 4032 yards of remediated material was hauled to a caliche pit owned by Mr. Johnston, with his approval.

The monitor wells will be plugged after one additional sampling event.

**ANALYTICAL
SUMMARIES**

EXHIBIT 1
SOIL ANALYSES

SAMPLE LOCATION	SAMPLE DATE	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL - BENZENE (mg/kg)	TOTAL XYLENES (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	CHLORIDE (mg/kg)
East Pit - North Wall	10/03/2001	< 0.025	0.062	< 0.025	0.093	< 50	138	20
East Pit - West Wall	10/03/2001	< 0.025	0.074	0.029	0.147	< 50	60	21
East Pit - East Wall	10/03/2001	< 0.025	0.031	< 0.025	0.029	< 50	62	21
East Pit - South Wall	10/03/2001	< 0.025	< 0.025	< 0.025	0.038	< 10	12	21
East Pit - Bottom	10/23/2001	< 0.025	< 0.025	< 0.025	< 0.025	< 10	24	51
East Pit - Backfill	11/28/2001	< 0.025	< 0.025	< 0.025	< 0.025	< 10	202	18
Battery Pad - East Wall	07/20/2004	< 0.005	< 0.005	< 0.005	< 0.015	< 10.0	< 10.0	80
Battery Pad - North Wall	07/20/2004	< 0.005	< 0.005	< 0.005	< 0.015	< 10.0	< 10.0	16
Battery Pad - South Wall	07/20/2004	< 0.005	< 0.005	< 0.005	< 0.015	< 10.0	< 10.0	48
Battery Pad - West Wall	07/20/2004	< 0.005	< 0.005	< 0.005	< 0.015	< 10.0	< 10.0	16
Battery Pad - SW Wall	07/20/2004	< 0.005	< 0.005	< 0.005	< 0.015	< 10.0	74.3	16
Battery Pad - Bottom Center	07/20/2004	< 0.005	< 0.005	< 0.005	< 0.015	< 10.0	< 10.0	32
Battery Pad - SW Bottom	07/20/2004	< 0.005	< 0.005	< 0.005	< 0.015	< 10.0	117	16
Battery Pad - E Pit Bottom	07/20/2004	< 0.005	< 0.005	< 0.005	< 0.015	< 10.0	< 10.0	16
Clean Caliche	07/28/2004	< 0.005	< 0.005	< 0.005	< 0.015	< 10.0	< 10.0	16
East Pit - Backfill	11/28/2001	< 0.025	< 0.025	< 0.025	< 0.025	< 10	202	18
Battery Pad - Backfill	07/28/2004	< 0.005	< 0.005	< 0.005	< 0.015	< 10.0	78.3	48

**EXHIBIT 2
WATER ANALYSES**

SAMPLE LOCATION	SAMPLE DATE	CHLORIDE (mg/kg)	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL - BENZENE (mg/kg)	TOTAL XYLENE (mg/kg)
Monitor Well # 1	07/21/2004	264	< 0.002	< 0.002	< 0.002	< 0.006
Monitor Well # 2	07/21/2004	232	< 0.002	< 0.002	< 0.002	< 0.006
Monitor Well # 3	07/21/2004	192	< 0.002	< 0.002	< 0.002	< 0.006
Monitor Well # 4	07/21/2004	252	< 0.002	< 0.002	< 0.002	< 0.006
Monitor Well # 1	07/08/2003	266	< 0.001	< 0.001	< 0.001	0.002
Monitor Well # 2	07/08/2003	248	< 0.001	< 0.001	< 0.001	< 0.001
Monitor Well # 3	07/08/2003	186	< 0.001	< 0.001	< 0.001	0.001
Monitor Well # 4	07/08/2003	257	< 0.001	< 0.001	< 0.001	< 0.001
Monitor Well # 1	10/17/2001	266	< 0.001	< 0.001	< 0.001	< 0.001
Monitor Well # 2	10/17/2001	248	< 0.001	< 0.001	< 0.001	< 0.001
Monitor Well # 3	10/17/2001	213	< 0.001	< 0.001	< 0.001	< 0.001
Monitor Well # 4	10/17/2001	301	< 0.001	< 0.001	< 0.001	< 0.001

MAPS & PLATS

↑ N

CHEVRON MAY LOVE

MW-1 DTW: 28.20

98'

Approx. 29 feet deep
Approx. 29 feet deep

TANK BATTERY
164 x 87'

135'

PIT
113 x 72'

101'

48'

CALICHE ROAD

88'

102'

117'

209'

235'

143'

MW-4
DTW: 27.80

MW-2
DTW: 27.57

MW-3
DTW: 31.76

DTW - NOT corrected for elevation

NOT TO SCALE
KEN DUTTON - ETGI

LABORATORY ANALYSES

CLAY

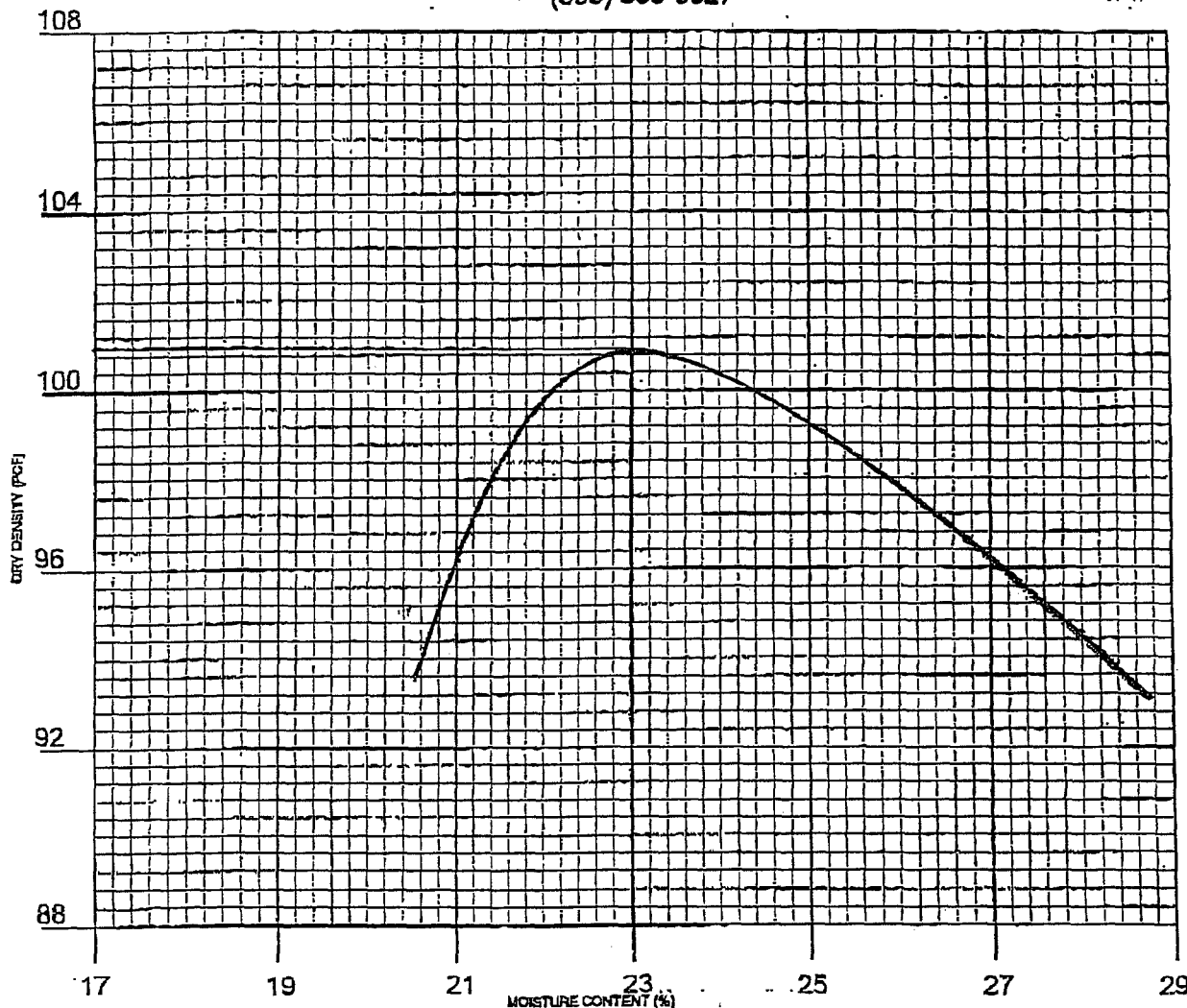


PETTIGREW and ASSOCIATES, P.A.

1110 N. GRIMES ST.

HOBBS, NM 88240

(505) 393-9827



CLIENT: Rice Operating PROJECT: General Information

SAMPLE LOCATION: Byrd Pit

SOIL DESCRIPTION: Red Clay

SOIL CLASSIFICATION: _____ TEST METHOD: ASTM: D 698

ATTERBERG: LL _____ PI _____ Sampled & Delivered 2/9/04

DATE: 2/13/04 LAB NO. 04 2257-2259

DRY WEIGHT LB/CU. FT. 101.0 MOISTURE CONTENT % 23.0

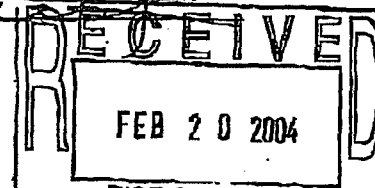
SIEVE ANALYSIS - % PASSING									

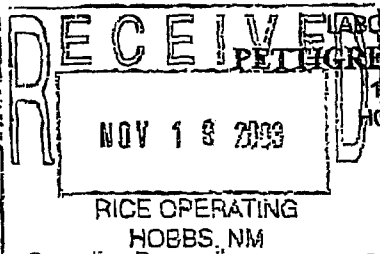
PETTIGREW and ASSOCIATES

COPIES: Rice

BY: 

S.E.T.





LABORATORY TEST REPORT
PETTIGREW and ASSOCIATES, P.A.
1110 N. GRIMES
HOBBS, NM 88240
(505) 393-9827



DEBRA P. HICKS, P.E./L.S.I.
WILLIAM M. HICKS, III, P.E./P.S.

To: Rice Operating Corporation
Attn: Carolyn Haynes
122 W. Taylor
Hobbs, NM 88240

Material: Red Byrd Clay

Test Method: Measurement of Hydraulic
Conductivity of Saturated Porous
Materials Using a Flexible Wall
Permeameter
ASTM: D 5084
Method C

Project: General Information

Date of Test: November, 2003

Location: Pit

Average Permeability	2.22E-09	cm/sec
Initial Length of Specimen	7.15	cm
Initial Diameter of Specimen	7.15	cm
Initial Water Content	21.6%	
Initial Dry Unit Weight	100.3	pcf
Initial Volume	17.52	cu. in.
Permeant Liquid	Bottled Water	
Magnitude of Total Back Pressure	65.1	psi
Effective Consolidation Stress	5	psi
Range of Hydraulic Gradient Used	15.0 to 3.9	
Final Length of Specimen	7.17	cm
Final Diameter of Specimen	7.22	cm
Final Water Content	26.3%	
Final Dry Unit Weight	98.0	pcf
Final Volume	17.91	cu. in.
Degree of Saturation (Before & After Test)	88% and 102%	
Specific Gravity used in Calculations of Saturation	2.651	

Time Interval
sec

K
cm/sec

K
ft/Yr.

164701
235804
244742
253995

2.21E-09
2.23E-09
2.20E-09
2.23E-09

0.00
0.00
0.00
0.00

Remolded to 95% of ASTM: D 698 and Optimum Moisture
ASTM: D 698 - 104.2 @ 23.1

Lab No.: 03 6839-6340

PETTIGREW and ASSOCIATES

Copies To: Rice Operating

By:

TANK BATTERY PAD



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

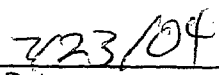
Receiving Date: 07/20/04
Reporting Date: 07/23/04
Project Owner: AMERADA HESS
Project Name: BATTERY #67
Project Location: MONUMENT, NM

Sampling Date: 07/20/04
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: BC

LAB NO.	SAMPLE ID	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS DATE		07/22/04	07/22/04	07/22/04	07/22/04
H8931-1	EAST WALL #1	<0.005	<0.005	<0.005	<0.015
H8931-2	BOTTOM CENTER	<0.005	<0.005	<0.005	<0.015
H8931-3	BOTTOM #2	<0.005	<0.005	<0.005	<0.015
H8931-4	NORTH WALL #3	<0.005	<0.005	<0.005	<0.015
H8931-5	SOUTH WALL #4	<0.005	<0.005	<0.005	<0.015
H8931-6	WEST WALL #5	<0.005	<0.005	<0.005	<0.015
H8931-7	SOUTHWEST BOTTOM #6	<0.005	<0.005	<0.005	<0.015
H8931-8	SOUTHWEST WALL #7	<0.005	<0.005	<0.005	<0.015
Quality Control		0.093	0.094	0.091	0.273
True Value QC		0.100	0.100	0.100	0.300
% Recovery		92.6	93.7	91.0	91.0
Relative Percent Difference		2.8	0.6	1.3	0.6

METHOD: EPA SW-846 8260


Chemist


Date

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



ARDINAL LABORATORIES

PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

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

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

Receiving Date: 07/20/04
Reporting Date: 07/21/04
Project Owner: AMERADA HESS
Project Name: BATTERY #67
Project Location: MONUMENT, NM

Sampling Date: 07/20/04
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: BC
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)
		07/20/04	07/20/04	07/21/04
H8931-1	EAST WALL #1 ✓	<10.0	<10.0	80
H8931-2	BOTTOM CENTER	<10.0	<10.0	32
H8931-3	BOTTOM #2	<10.0	<10.0	16
H8931-4	NORTH WALL #3 ✓	<10.0	<10.0	16
H8931-5	SOUTH WALL #4 ✓	<10.0	<10.0	48
H8931-6	WEST WALL #5 ✓	<10.0	<10.0	16
H8931-7	SOUTHWEST BOTTOM #6	<10.0	117	16
H8931-8	SOUTHWEST WALL #7 ✓	<10.0	74.3	16
Quality Control		744	768	990
True Value QC		800	800	1000
% Recovery		93.1	96.1	99.0
Relative Percent Difference		5.1	0.4	1.0

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

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

Chemist

Bryant A. Cooke

Date

7/21/04

H8931A.XLS

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



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

Page 1 of 1

BILL TO										ANALYSIS REQUEST										
Company Name: <u>BBC Environmental</u>										P.O. #:										
Project Manager: <u>Cliff Bevenson</u>										Company: <u>SA</u>										
Address: <u>1324 W. Marland</u>										Attn: <u>SA</u>										
City: <u>Hobbs</u>										State: <u>NM</u> Zip: <u>88240</u>										
Phone #: <u>(505) 397-6388</u>										Fax #: <u>(505) 397-0397</u>										
Project #: <u></u>										Project Owner: <u>Amanda Hess</u>										
Project Name: <u>Battery #67</u>										City: <u>ME</u>										
Project Location: <u>Manuelito New Mexico</u>										State: <u></u> Zip: <u></u>										
Sampler Name: <u>Rene Hernandez</u>										Phone #: <u></u>										
Fax #: <u></u>										P.O. #:										
FOR LAB USE ONLY																				
Lab I.D.	Sample I.D.	(C) RAB OR (C) OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	PRESERV	SAMPLING	DATE	TIME	TPH	BOIS	BTEX	GL
15893-1	East wall #1	C 1	1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	7:20	9:00	✓	✓	✓	✓
2	Bottom Center	G 1	1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	7:20	9:20	✓	✓	✓	✓
3	Bottom #2	C 1	1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	7:20	9:30	✓	✓	✓	✓
4	North wall #3	C 1	1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	7:20	10:15	✓	✓	✓	✓
5	South wall #4	C 1	1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	7:20	10:21	✓	✓	✓	✓
6	West wall #5	C 1	1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	7:20	10:30	✓	✓	✓	✓
7	South west Bottom #6	C 1	1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	7:20	10:40	✓	✓	✓	✓
8	South west Wall #7	C 1	1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	7:20	10:45	✓	✓	✓	✓

PLEASE NOTE: Liability and Ownership. Cardinal's liability and ownership is limited to the amount paid by the client for the analysis. All claims, including those for negligence and any other claims whatsoever, shall be deemed waived upon receipt of the applicable invoice. 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 furnished by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Tarmin and Condensates: Inerted will be charged on all accurate more than 30 days paid due at the rate of 24% per annum from the original date of invoice, and all costs of collection, including laboratory's fees.

Sampler Relinquished: Rene Hernandez Date: 7/20/01 Time: 11:40

Relinquished By: Rene Hernandez Date: 7/20/01 Time: 11:40

Delivered By: (Circle One) Bus

Sampler - UPS - Bus - Other: Bus

Received By: (Lab Staff) Burgess Checked By: (Initials) Burgess

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

Fax Result: ☒ Yes ☐ No Add'l Fax #:

REMARKS:



PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

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

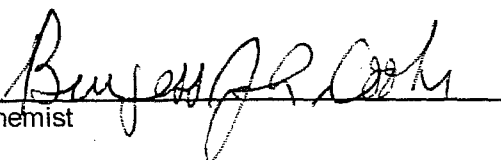
ANALYTICAL RESULTS FOR
BBC INTERNATIONAL, INC.
ATTN: C. BRUNSON
P.O. BOX 805
HOBBS, NM 88241
FAX TO: (505) 397-0397

Receiving Date: 07/28/04
Reporting Date: 07/30/04
Project Owner: AMERADA HESS
Project Name: BATTERY 67
Project Location: MONUMENT, NM

Sampling Date: 07/28/04
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: HM
Analyzed By: BC

LAB NO.	SAMPLE ID	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS DATE		07/29/04	07/29/04	07/29/04	07/29/04
H8956-1	BLENDED SOIL COMPOSITE	<0.005	<0.005	<0.005	<0.015
H8956-2	CALICHE COMPOSITE	<0.005	<0.005	<0.005	<0.015
Quality Control		0.105	0.104	0.098	0.293
True Value QC		0.100	0.100	0.100	0.300
% Recovery		105	104	98.0	97.6
Relative Percent Difference		5.2	3.7	2.0	2.4

METHOD: EPA SW-846 8260


Chemist

7/30/04
Date

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



ARDINAL LABORATORIES

PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

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

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

Receiving Date: 07/28/04
Reporting Date: 07/30/04
Project Owner: AMERADA HESS
Project Name: BATTERY 67
Project Location: MONUMENT, NM

Sampling Date: 07/28/04⁴
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: HM
Analyzed By: BC/HM

LAB NO.	SAMPLE ID	GRO (C ₆ -C ₁₀) (mg/Kg)	DRO (>C ₁₀ -C ₂₈) (mg/Kg)	Cl* (mg/Kg)
	ANALYSIS DATE	07/29/04	07/29/04	07/28/04
H8956-1	BLENDED SOIL COMPOSITE	<10.0	78.3	48
H8956-2	CALICHE COMPOSITE	<10.0	<10.0	16
	Quality Control	794	788	990
	True Value QC	800	800	1000
	% Recovery	93.1	98.5	99.0
	Relative Percent Difference	8.1	6.1	1.0

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

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

Bryson J. Cooke
Chemist

7/30/04
Date

H8956A.XLS

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

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[illegible]

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

EAST PIT

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

ENVIRONMENTAL TECHNOLOGY GROUP, INC.
ATTN: CAMILLE REYNOLDS
2540 W. MARLAND
HOBBS, NM 86240
FAX: 505-397-4701

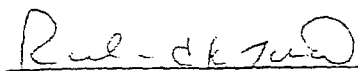
Sample Type: Soil
Sample Condition: Intact/ Iced/ -0.5 deg C
Project Name: Chevron May Love
Project #: AHC 1205R
Project Location: Monument, NM

Sampling Date: 10/03/01
Receiving Date: 10/05/01
Analysis Date: 10/05/01

ELT#	FIELD CODE	BENZENE mg/kg	TOLUENE mg/kg	ETHYLBENZENE mg/kg	m,p-XYLENE mg/kg	o-XYLENE mg/kg
0101722-01	East Pit, North Wall	<0.025	0.062	<0.025	0.093	<0.025
0101722-02	East Pit, West Wall	<0.025	0.074	0.029	0.147	<0.025
0101722-03	East Pit, East Wall	<0.025	0.031	<0.025	0.029	<0.025

QUALITY CONTROL	0.104	0.103	0.102	0.212	0.099
TRUE VALUE	0.100	0.100	0.100	0.200	0.100
% IA	104	103	102	106	99
SPIKED AMOUNT	0.100	0.100	0.100	0.200	0.100
ORIGINAL SAMPLE	<0.025	<0.025	<0.025	<0.025	<0.025
SPIKE	0.097	0.094	0.093	0.193	0.089
SPIKE DUP	0.092	0.090	0.088	0.179	0.084
%EA	102	81	91	81	93
BLANK	<0.025	<0.025	<0.025	<0.025	<0.025
RPD	10	9	14	16	8

METHODS: SW 846-8021B, 5030


Randal K. Tuttle

10-12-01
Date

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

ENVIRONMENTAL TECHNOLOGY GROUP, INC.
ATTN: CAMILLE REYNOLDS
2540 W. MARLAND
HOBBBS, NM 86240
FAX: 505-397-4701

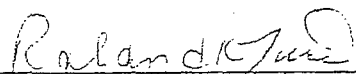
Sample Type: Soil
Sample Condition: Intact/ Iced/ -0.5 deg C
Project Name: Chevron May Love
Project #: AHC 1205R
Project Location: Monument, NM

Sampling Date: 10/03/01
Receiving Date: 10/05/01
Analysis Date: 10/06/01

ELT#	FIELD CODE	BENZENE mg/kg	TOLUENE mg/kg	ETHYLBENZENE mg/kg	m,p-XYLENE mg/kg	o-XYLENE mg/kg
0101722-04	East Pit, Bottom	<0.040	<0.040	<0.040	0.052	<0.040
0101722-05	East Pit, South Wall	<0.025	<0.025	<0.025	0.038	<0.025

QUALITY CONTROL	0.105	0.105	0.103	0.214	0.099
TRUE VALUE	0.100	0.100	0.100	0.200	0.100
% IA	105	105	103	107	99
SPIKED AMOUNT	0.100	0.100	0.100	0.200	0.100
ORIGINAL SAMPLE	<0.025	<0.025	<0.025	0.038	<0.025
SPIKE	0.093	0.094	0.086	0.176	0.086
SPIKE DUP	0.102	0.101	0.098	0.200	0.093
%EA	97	94	93	96	89
BLANK	<0.025	<0.025	<0.025	<0.025	<0.025
RPD	6	4	6	7	7

METHODS: SW 846-8021B, 5030


Raland K. Tuttle

10-12-01
Date

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

ENVIRONMENTAL TECHNOLOGY GROUP, INC.
ATTN: CAMILLE REYNOLDS
2540 W. MARLAND
HOBES, NM 88240
FAX: 505-397-4701

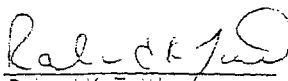
Sample Type: Soil
Sample Condition: Intact/ Iced/ -0.5 deg C
Project #: AHC 1205R
Project Name: Chevron May Love
Project Location: Monument, NM

Sampling Date: 10/03/01
Receiving Date: 10/05/01
Analysis Date: 10/08/01

ELT#	FIELD CODE	GRO C6-C10 mg/kg	DRO >C10-C28 mg/kg
0101722-01	East Pit, North Wall	<50	138
0101722-02	East Pit, West Wall	<50	60
0101722-03	East Pit, East Wall	<50	62
0101722-04	East Pit, Bottom	<100	574
0101722-05	East Pit, South Wall	<10	12

QUALITY CONTROL	592	544
TRUE VALUE	500	500
% INSTRUMENT ACCURACY	118	109
SPIKED AMOUNT	476	476
ORIGINAL SAMPLE	<10	68
SPIKE	589	679
SPIKE DUP	573	686
% EXTRACTION ACCURACY	124	128
BLANK	<10	<10
RPD	2.75	1.02

Methods: SW 846-8015M


Roland K. Tuttle

10-12-01
Date

ENVIRONMENTAL

LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

ENVIRONMENTAL TECHNOLOGY GROUP, INC.

ATTN: CAMILLE REYNOLDS

2540 W. MARLAND

HOBBS, NM 86240

FAX: 505-397-4701

Sample Type: Soil

Sample Condition: Intact/ Iced/ -0.5 deg C

Project Name: Chevron May Love

Project #: AHC 1205R

Project Location: Monument, NM

Sampling Date: 10/03/01

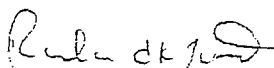
Receiving Date: 10/05/01

Analysis Date: 10/08/01

ELT#	FIELD CODE	Chloride mg/kg
0101722-01	East Pit, North Wall	20
0101722-02	East Pit, West Wall	21
0101722-03	East Pit, East Wall	21
0101722-04	East Pit, Bottom	21
0101722-05	East Pit, South Wall	21

QUALITY CONTROL	5050
TRUE VALUE	5000
% INSTRUMENT ACCURACY	101
SPIKED AMOUNT	556
ORIGINAL SAMPLE	20
SPIKE	581
SPIKE DUP	591
% EXTRACTION ACCURACY	101
BLANK	<5.00
RPD	1.71

Methods: SW 846-9253


Roland K. Tuttle

10-12-01
Date

Environmental Lab of Texas, Inc.

Phone: 915-563-1802
Fax: 915-563-1713

Lab: 2014-01
Lab: 2014-01

Project Manager: Camille Reynolds

Company Name: ET&E

Company Address: 2540 W. Markland

City/State/Zip: Hobbs, NM 88240

Telephone No: (505) 397-4701

Sampler Signature: Camille Reynolds

505-370-0677

Fax No: (505) 397-4701

Project Name: Chexcon Mtny Loc

Project #: AJC 12058

Project Loc: Monument, NM

PO #:

LAB (if field use only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative						Matrix			Analyze For				
					HNO ₃	HCl	NaOH	H ₂ SO ₄	None	Other (Specify)	Water	Sludge	Soil	TDS (Cl/SAR/BD)	TDS 113	TDS 1003/1006	TDS 1014/1016/1020	Trace Metals
0101722-01	EAST P.I.T., North wall	10-3-01	1500	1	X													
02	EAST P.I.T., West wall		1520															
03	EAST P.I.T., East wall		1510															
04	EAST P.I.T., Bottom		0800															
05	EAST P.I.T., South wall		1515															
06	GLW	10-5-01	0250	3														

Sample Containers Impact?
Temperature Upon Receipt
Laboratory Comments: ADD 10-5-01 (00) 1137

Prepared by	Date	Time	Received by	Date	Time
Camille Reynolds	10/5/01	0800	Camille Reynolds	10/5/01	1137
Lab: 2014-01	10/5/01	1137	Lab: 2014-01	10/5/01	1137

Special Instructions:

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

E.T.G.I.
ATTN: CAMILLE REYNOLDS
2540 W. MARLAND
HOBBS, NM 88240
FAX: 505-397-4701

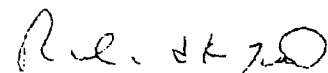
Sample Type: Soil
Sample Condition: Intact/ Iced/ 4.0 deg C
Project Name: AHC-Chevron May Love
Project #: AHC-1205R
Project Location: Monument, NM

Sampling Date: 10/23/01
Receiving Date: 10/23/01
Analysis Date: 10/24/01

ELT#	FIELD CODE	BENZENE mg/kg	TOLUENE mg/kg	ETHYLBENZENE mg/kg	m,p-XYLENE mg/kg	o-XYLENE mg/kg
0101827-01	East Pit Bottom	<0.025	<0.025	<0.025	<0.025	<0.025
0101827-02	Tank Battery Pit Bottom	<0.025	<0.025	<0.025	0.033	<0.025

QUALITY CONTROL	0.091	0.095	0.094	0.191	0.089
TRUE VALUE	0.100	0.100	0.100	0.200	0.100
% IA	91	95	94	96	89
SPIKED AMOUNT	0.100	0.100	0.100	0.200	0.100
ORIGINAL SAMPLE	<0.025	<0.025	<0.025	<0.025	<0.025
SPIKE	0.091	0.090	0.087	0.173	0.085
SPIKE DUP	0.097	0.091	0.086	0.174	0.085
%EA	91	90	87	86	85
BLANK	<0.025	<0.025	<0.025	<0.025	<0.025
RPD	5.38	1.10	1.16	1.16	0.00

METHODS: EPA SW 846-8021B, 5030



Rafael K. Tuttle

10-25-01
Date

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

E.T.G.I.
ATTN: CAMILLE REYNOLDS
2540 W. MARLAND
HOBBBS, NM 88240
FAX: 505-397-4701

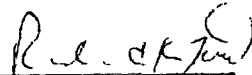
Sample Type: Soil
Sample Condition: Intact/ Iced/ 4.0 deg C
Project #: AHC-120SR
Project Name: AHC-Chevron May Love
Project Location: Monument, NM

Sampling Date: 10/23/01
Receiving Date: 10/23/01
Analysis Date: 10/23/01

ELT #	FIELD CODE	GRO C6-C10 mg/kg	DRO >C10-C28 mg/kg
0101827-01	East Pit Bottom	<10	24
0101827-02	Tank Battery Pit Bottom	<50	1190

QUALITY CONTROL	582	512
TRUE VALUE	500	500
% INSTRUMENT ACCURACY	116	102
SPIKED AMOUNT	500	500
ORIGINAL SAMPLE	<10	<10
SPIKE	560	496
SPIKE DUP	557	481
% EXTRACTION ACCURACY	111	96
BLANK	<10	<10
RPD	0.54	3.07

Methods: SW 846-8015M


Randall K. Tuttle

10-25-01
Date

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

E.T.G.I.
ATTN: CAMILLE REYNOLDS
2540 W. MARLAND
HOBBS, NM 88240
FAX: 505-397-4701

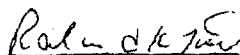
Sample Type: Soil
Sample Condition: Intact/ Iced/ 4.0 deg C
Project #: AHC-1205R
Project Name: AHC-Chevron May Love
Project Location: Monument, NM

Sampling Date: 10/23/01
Receiving Date: 10/23/01
Analysis Date: 10/24/01

ELT#	FIELD CODE	Chloride mg/kg
0101827-01	East Pit Bottom	51
0101827-02	Tank Battery Pit Bottom	66

QUALITY CONTROL	5050
TRUE VALUE	5000
% INSTRUMENT ACCURACY	101
SPIKED AMOUNT	714
ORIGINAL SAMPLE	51
SPIKE	772
SPIKE DUP	772
% EXTRACTION ACCURACY	101
BLANK	<5.00
RPD	0.0

Methods: SW 846-9253


Roland K. Tuttle

10-25-01
Date

VIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

E.T.G.I.
ATTN: CAMILLE REYNOLDS
2540 WEST MARLAND
HOBBS, NM 86240
FAX: 505-397-4701

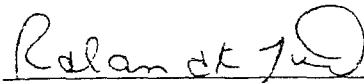
Sample Type: Soil
Sample Condition: Intact/ Iced/ -0.5 deg C
Project Name: AHC Chevron May Love
Project #: AHC 1205R
Project Location: Monument, NM

Sampling Date: 11/28/01
Receiving Date: 11/30/01
Analysis Date: 11/29/01

ELT#	FIELD CODE	BENZENE mg/kg	TOLUENE mg/kg	ETHYLBENZENE mg/kg	m,p-XYLENE mg/kg	o-XYLENE mg/kg
0102098-01	Former Tank Batt. Pit Bottom	<0.025	<0.025	<0.025	<0.025	<0.025
0102098-02	East Pit Backfill 5-10'	<0.025	<0.025	<0.025	<0.025	<0.025
0102098-03	Former Tank Batt. NW Sidewall	<0.025	<0.025	<0.025	<0.025	<0.025

QUALITY CONTROL	0.090	0.089	0.093	0.192	0.089
TRUE VALUE	0.100	0.100	0.100	0.200	0.100
% IA	90	89	93	96	89
SPIKED AMOUNT	0.100	0.100	0.100	0.200	0.100
ORIGINAL SAMPLE	<0.025	0.061	0.257	0.418	0.143
SPIKE	0.089	0.090	0.101	0.198	0.097
SPIKE DUP	0.090	0.095	0.110	0.220	0.106
%EA	90	93	100	102	100
BLANK	<0.025	<0.025	<0.025	<0.025	<0.025
RPD	1.12	5.52	9.42	12.5	9.42

METHODS: EPA SW 846-8021B, 5030


Raland K. Tuttle

12-04-01
Date

ENVIRONMENTAL

LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

E.T.G.I.
ATTN: CAMILLE REYNOLDS
2540 WEST MARLAND
HOBBS, NM 88240
FAX: 505-397-4701

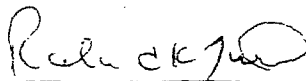
Sample Type: Soil
Sample Condition: Intact/ Iced/ -0.5 deg C
Project Name: AHC Chevron May Love
Project #: AHC 1205R
Project Location: Monument, NM

Sampling Date: 11/28/01
Receiving Date: 11/30/01
Analysis Date: 12/02/01

ELT#	FIELD CODE	GRO	DRO
		C6-C10 mg/kg	>C10-C28 mg/kg
0102098-01	Former Tank Batt. Pit Bottom	<10	41
0102098-02	East Pit Backfill 5-10'	<10	202
0102098-03	Former Tank Batt. NW Sidewall	<10	142

QUALITY CONTROL	483	586
TRUE VALUE	500	500
% INSTRUMENT ACCURACY	97	117
SPIKED AMOUNT	476	476
ORIGINAL SAMPLE	<10	<10
SPIKE	499	638
SPIKE DUP	503	634
% EXTRACTION ACCURACY	106	123
BLANK	<10	<10
RPD	0.80	0.63

Methods: SW 846-8015M


Raland K. Tuttle

12-04-01
Date

ENVIRONMENTAL

LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

E.T.G.I.
ATTN: CAMILLE REYNOLDS
2540 WEST MARLAND
HOBBS, NM 88240
FAX: 505-397-4701

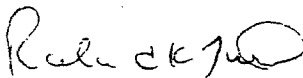
Sample Type: Soil
Sample Condition: Intact/ Iced/ -0.5 deg C
Project Name: AHC Chevron May Love
Project #: AHC 1205R
Project Location: Monument, NM

Sampling Date: 11/28/01
Receiving Date: 11/30/01
Analysis Date: 12/02/01

ELT#	FIELD CODE	GRO	DRO
		C6-C10 mg/kg	>C10-C28 mg/kg
0102098-01	Former Tank Batt. Pit Bottom	<10	41
0102098-02	East Pit Backfill 5-10'	<10	202
0102098-03	Former Tank Batt. NW Sidewall	<10	142

QUALITY CONTROL	483	586
TRUE VALUE	500	500
% INSTRUMENT ACCURACY	97	117
SPIKED AMOUNT	476	476
ORIGINAL SAMPLE	<10	<10
SPIKE	499	638
SPIKE DUP	503	634
% EXTRACTION ACCURACY	106	123
BLANK	<10	<10
RPD	0.80	0.63

Methods: SW 846-8015M


Raland K. Tuttle

12-04-01
Date

12600 West I-20 East
Odessa, Texas 79763

CHAIN OF CUSTODY RECORD AND ANALYSIS REPORT

Sampler Signature: Camille Reynolds

PO 44

[illegible]

MONITOR WELLS

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

E.T.G.I.
ATTN: KEN DUTTON
2540 W. MARLAND
HOBBS, NM 88240
FAX: 505-397-4701

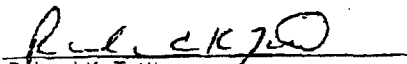
Sample Type: Water
Sample Condition: Intact/ Iced/ HCl/ -1.0 deg C
Project Name: Chevron May Love
Project #: AHC 1205R
Project Location: Monument, NM

Sampling Date: 10/17/01
Receiving Date: 10/17/01
Analysis Date: 10/19/01

ELT#	FIELD CODE	BENZENE mg/L	TOLUENE mg/L	ETHYLBENZENE mg/L	m,p-XYLENE mg/L	o-XYLENE mg/L
0101789-01	MW 1	<0.001	<0.001	<0.001	<0.001	<0.001
0101789-02	MW 2	<0.001	<0.001	<0.001	<0.001	<0.001
0101789-03	MW 3	<0.001	<0.001	<0.001	<0.001	<0.001
0101789-04	MW 4	<0.001	<0.001	<0.001	<0.001	<0.001

QUALITY CONTROL	0.102	0.104	0.112	0.226	0.094
TRUE VALUE	0.100	0.100	0.100	0.200	0.100
% IA	102	104	112	113	94
SPIKED AMOUNT	0.100	0.100	0.100	0.200	0.100
ORIGINAL SAMPLE	<0.001	<0.001	<0.001	<0.001	<0.001
SPIKE	0.094	0.093	0.085	0.171	0.085
SPIKE DUP	0.092	0.091	0.088	0.177	0.087
%EA	94	93	85	86	85
BLANK	<0.001	<0.001	<0.001	<0.001	<0.001
RPD	2.15	2.17	3.47	2.30	2.32

METHODS: EPA SW 846-8021B ,5030


Roland K. Tuttle

10-22-01
Date

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

E.T.G.I.
ATTN: KEN DUTTON
2540 W. MARLAND
HOBBS, NM 88240
FAX: 505-397-4701

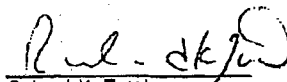
Sample Type: Water
Sample Condition: Intact/ Iced/ -1.0 deg C
Project Name: Chevron May Love
Project #: AHC 1205R
Project Location: Monument, NM

Sampling Date: 10/17/01
Receiving Date: 10/17/01
Analysis Date: 10/18/01

ELT#	FIELD CODE	Chloride mg/L
0101789-01	MW 1	266
0101789-02	MW 2	248
0101789-03	MW 3	213
0101789-04	MW 4	301

QUALITY CONTROL	5050
TRUE VALUE	5000
% INSTRUMENT ACCURACY	101
SPIKED AMOUNT	500
ORIGINAL SAMPLE	266
SPIKE	762
SPIKE DUP	771
% EXTRACTION ACCURACY	101
BLANK	<5.00
RPD	1.17

Methods: SW 846-9253


Roland K. Tuttle

10-22-01
Date

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240
505/397/4701

Order#: G0306916
Project:
Project Name: Chevron Maylove
Location: None Given

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted.

<u>Lab ID:</u>	<u>Sample :</u>	<u>Matrix:</u>	<u>Date / Time</u> <u>Collected</u>	<u>Date / Time</u> <u>Received</u>	<u>Container</u>	<u>Preservative</u>
0306916-01	MW-1	WATER	7/8/03 9:20	7/8/03 14:26	See COC	ice
<u>Lab Testing:</u> 8021B/5030 BTEX Chloride		Rejected: No	Temp: 4.0 C			
0306916-02	MW-2	WATER	7/8/03 9:31	7/8/03 14:26	See COC	ice
<u>Lab Testing:</u> 8021B/5030 BTEX Chloride		Rejected: No	Temp: 4.0 C			
0306916-03	MW-3	WATER	7/8/03 9:45	7/8/03 14:26	See COC	ice
<u>Lab Testing:</u> 8021B/5030 BTEX Chloride		Rejected: No	Temp: 4.0 C			
0306916-04	MW-4	WATER	7/8/03 10:00	7/8/03 14:26	See COC	ice
<u>Lab Testing:</u> 8021B/5030 BTEX Chloride		Rejected: No	Temp: 4.0 C			

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Camille Reynolds
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240

Order#: G0306916
Project:
Project Name: Chevron Maylove
Location: None Given

Lab ID: 0306916-01
Sample ID: MW-1

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0006126-02		7/12/03 15:36	1	1	CK	8021B

Parameter	Result mg/L	RL
Benzene	<0.001	0.001
Toluene	<0.001	0.001
Ethylbenzene	<0.001	0.001
p/m-Xylene	0.002	0.001
o-Xylene	0.001	0.001

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	94%	80	120
Bromofluorobenzene	95%	80	120

Lab ID: 0306916-02
Sample ID: MW-2

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0006126-02		7/10/03 1:00	1	1	CK	8021B

Parameter	Result mg/L	RL
Benzene	<0.001	0.001
Toluene	<0.001	0.001
Ethylbenzene	<0.001	0.001
p/m-Xylene	<0.001	0.001
o-Xylene	<0.001	0.001

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	109%	80	120
Bromofluorobenzene	99%	80	120

DI. = Diluted out N/A = Not Applicable RL = Reporting Limit

Page 1 of 3

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Cassile Reynolds
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240

Order#: G0306916
Project:
Project Name: Chevron Maylove
Location: None Given

Lab ID: 0306916-03
Sample ID: MW-3

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
Blank	Prepared	Analyzed	Amount	Factor		
0006126-02		7/12/03 15:58	1	1	CK	8021B

Parameter	Result mg/L	RL
Benzene	<0.001	0.001
Toluene	<0.001	0.001
Ethylbenzene	<0.001	0.001
p/m-Xylene	0.001	0.001
o-Xylene	<0.001	0.001

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	96%	80	120
Bromofluorobenzene	96%	80	120

Lab ID: 0306916-04
Sample ID: MW-4

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
Blank	Prepared	Analyzed	Amount	Factor		
0006126-02		7/10/03 12:10	1	1	CK	8021B

Parameter	Result mg/L	RL
Benzene	<0.001	0.001
Toluene	<0.001	0.001
Ethylbenzene	<0.001	0.001
p/m-Xylene	<0.001	0.001
o-Xylene	<0.001	0.001

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	108%	80	120
Bromofluorobenzene	101%	80	120

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

Page 2 of 3

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Camille Reynolds
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240

Order#: G0306916
Project:
Project Name: Chevron Maylove
Location: None Given

Approval:  07/14/03

Roland K. Tuttle, Lab Director, QA Officer

Date

Celcy D. Keene, Org. Tech. Director

Jeanne McMurry, Inorg. Tech. Director

Sandra Biczugbe, Lab Tech.

Sara Molina, Lab Tech.

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Camille Reynolds
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240

Order#: G0306916
Project:
Project Name: Chevron Maylove
Location: None Given

Lab ID: 0306916-01
Sample ID: MW-1

Test Parameters

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Chloride	266	mg/L	1	5.00	9253	7/9/03	SB

Lab ID: 0306916-02
Sample ID: MW-2

Test Parameters

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Chloride	248	mg/L	1	5.00	9253	7/9/03	SB

Lab ID: 0306916-03
Sample ID: MW-3

Test Parameters

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Chloride	186	mg/L	1	5.00	9253	7/9/03	SB

Lab ID: 0306916-04
Sample ID: MW-4

Test Parameters

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Chloride	257	mg/L	1	5.00	9253	7/9/03	SB

Approval:

Celestine K. Tuttle 07/14/03
Raland K. Tuttle, Lab Director, QA Officer
Celestine D. Keene, Org. Tech. Director
Jeanne McMurrey, Inorg. Tech. Director
Sandra Biezugbe, Lab Tech.
Sara Molina, Lab Tech.

Date

RL = Reporting Limit N/A = Not Applicable

Page 1 of 1

ENVIRONMENTAL LAB OF TEXAS I, LTD. 12600 West I-20 East, Odessa, TX 79765 Ph: 915-563-1800

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0306916

BLANK	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/L		0006126-02			<0.001		
Toluene-mg/L		0006126-02			<0.001		
Ethylbenzene-mg/L		0006126-02			<0.001		
p/m-Xylene-mg/L		0006126-02			<0.001		
o-Xylene-mg/L		0006126-02			<0.001		
MS	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/L		0306927-01	0	0.1	0.101	101.0%	
Toluene-mg/L		0306927-01	0	0.1	0.104	104.0%	
Ethylbenzene-mg/L		0306927-01	0	0.1	0.109	109.0%	
p/m-Xylene-mg/L		0306927-01	0	0.2	0.221	110.5%	
o-Xylene-mg/L		0306927-01	0	0.1	0.106	106.0%	
MSD	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/L		0306927-01	0	0.1	0.103	103.0%	2.0%
Toluene-mg/L		0306927-01	0	0.1	0.107	107.0%	2.8%
Ethylbenzene-mg/L		0306927-01	0	0.1	0.112	112.0%	2.7%
p/m-Xylene-mg/L		0306927-01	0	0.2	0.229	114.5%	3.6%
o-Xylene-mg/L		0306927-01	0	0.1	0.112	112.0%	5.5%
SRM	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/L		0006126-05		0.1	0.110	110.0%	
Toluene-mg/L		0006126-05		0.1	0.114	114.0%	
Ethylbenzene-mg/L		0006126-05		0.1	0.111	111.0%	
p/m-Xylene-mg/L		0006126-05		0.2	0.233	116.5%	
o-Xylene-mg/L		0006126-05		0.1	0.117	117.0%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Test Parameters

Order#: G0306916

BLANK	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/L		0006108-01			<5.00		
MS	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/L		0306916-01	266	500	762	99.2%	
MSD	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/L		0306916-01	266	500	753	97.4%	1.2%
SRM	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/L		0006108-04		5000	4960	99.2%	

CHAIN-OF-CUSTODY
Send Reports To:
Company Name: Camille Reynolds
Address: 3512 Montpelier Drive, Austin, TX 787-
Phone: (512) 485-5686 Fax: (512) 485-7122
City: Austin State: TX Zip: 78740
ATTN: Camille Reynolds
Phone: (512) 485-5686 Fax: (512) 485-7122

WWW.ANALYSYSINC.COM
Bill to (if different):
Company Name: AnalySys Inc.
Address: 3512 Montpelier Drive, Austin, TX 787-
Phone: (512) 485-5686 Fax: (512) 485-7122
City: Austin State: TX Zip: 78740
ATTN: Camille Reynolds
Phone: (512) 485-5686 Fax: (512) 485-7122

ANALYSYS INC.
3512 Montpelier Drive, Austin, TX 787-
Phone: (512) 485-5686 Fax: (512) 485-7122
2209 N.P.D., Ste K, Corpus Christi, TX 78406
Phone: (361) 289-6361 Fax: (361) 289-6361

Analyses Requested (1)
Please attach explanatory information as req
Rich States must be confirmed with lab mgr.):
Project Name: Chloroacetylene, AIC-12078 Sampler: Justin Erik

Client Sample No	Date Sampled	Time Sampled	No. of Containers	Water	Waste	Lab I.D. # (Lab only)	Comments
01 MW-1	7-8-03	9:20	3	X		X	
02 MW-2	7-8-03	9:31	3	X		X	
03 MW-3	7-8-03	9:45	3	X		X	
04 MW-4	7-8-03	10:00	3	X		X	

When requested, analyses on this Chain-of-custody under attached documentation, all analyses will be conducted using ASI's method of choice and all data will be reported to ASI's normal reporting method (MFL, PGL). For GC/MS Volatiles and exposables, unless specific analytical parameter lists are specified on this chain-of-custody, ASI will default to Priority Path GC/MS list at ASI's option. Specific compound lists must be supplied for all GC procedures.

Sample Relinquished By			Sample Received By		
Name	Affiliation	Date	Name	Affiliation	Date
<u>Justin Erik</u>	<u>ASI</u>	<u>7-8-03</u>	<u>Justin Erik</u>	<u>ASI</u>	<u>7-8-03</u>
<u>Edo</u>	<u>ASI</u>	<u>7-8-03</u>	<u>Edo</u>	<u>ASI</u>	<u>7-8-03</u>

Handing of above described samples to AnalySys, Inc. for analytical testing constitutes agreement by buyer/supplier to AnalySys, Inc.'s standard terms.



CARDINAL LABORATORIES

PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

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

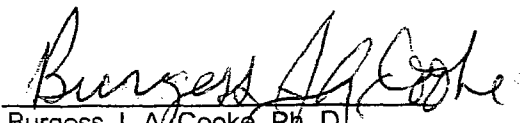
ANALYTICAL RESULTS FOR
BBC INTERNATIONAL, INC.
ATTN: CLIFF BRUNSON
P.O. BOX 805
HOBBS, NM 88241
FAX TO: (505) 397-0397


Receiving Date: 07/21/04
Reporting Date: 07/23/04
Project Owner: AMERADA HESS
Project Name: BATTERY #67
Project Location: MONUMENT, NM

Sampling Date: 07/21/04
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:		07/21/04	07/22/04	07/22/04	07/22/04	07/22/04
H8938-1	MW #3	192	<0.002	<0.002	<0.002	<0.006
H8938-2	MW #2	232	<0.002	<0.002	<0.002	<0.006
H8938-3	MW #1	264	<0.002	<0.002	<0.002	<0.006
H8938-4	MW #4	252	<0.002	<0.002	<0.002	<0.006
Quality Control		990	0.093	0.094	0.091	0.273
True Value QC		1000	0.100	0.100	0.100	0.300
% Recovery		99.0	92.6	93.7	91.0	91.0
Relative Percent Difference		1.0	2.8	0.6	1.3	0.6

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


Burgess J. A. Cooke, Ph. D.


Date

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 1

ARDINAL LABORATORIES, INC.

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

BILL TO		ANALYSIS REQUEST												
Company Name: <u>BBC International</u>		P.O. #:												
Project Manager: <u>Jeff Brunson</u>		Company:												
Address: <u>1324 W. Marland</u>		Attn:												
City: <u>ABILENE</u>		State: <u>NM</u>	Zip: <u>88240</u>											
Phone #: <u>(505) 397-6388</u>		Fax #: <u>(505) 397-0397</u>												
Project #:		Project Owner: <u>Amadeo Hess</u>												
Project Name: <u>Battery # 67</u>		City:	State:	Zip:										
Project Location: <u>MOVEMENT NM</u>		Phone #:												
Sampler Name:		Fax #:												
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
H8438-1	MW # 3	G	1	✓						✓			7-21	11:20
	MW # 3	G	2	✓						✓			7-21	11:20
-2	MW # 2	G	1	✓						✓			7-21	11:52
	MW # 2	G	2	✓						✓			7-21	11:52
-3	MW # 1	G	1	✓						✓			7-21	12:31
	MW # 1	G	2	✓						✓			7-21	12:31
-4	MW # 4	G	1	✓						✓			7-21	12:58
	MW # 4	G	2	✓						✓			7-21	12:58

Terms and Conditions: Invoices will be charged on all accounts more than 30 days past due at the rate of 2.5% per annum from the original date of invoice, and all costs of collections, including attorney's fees.

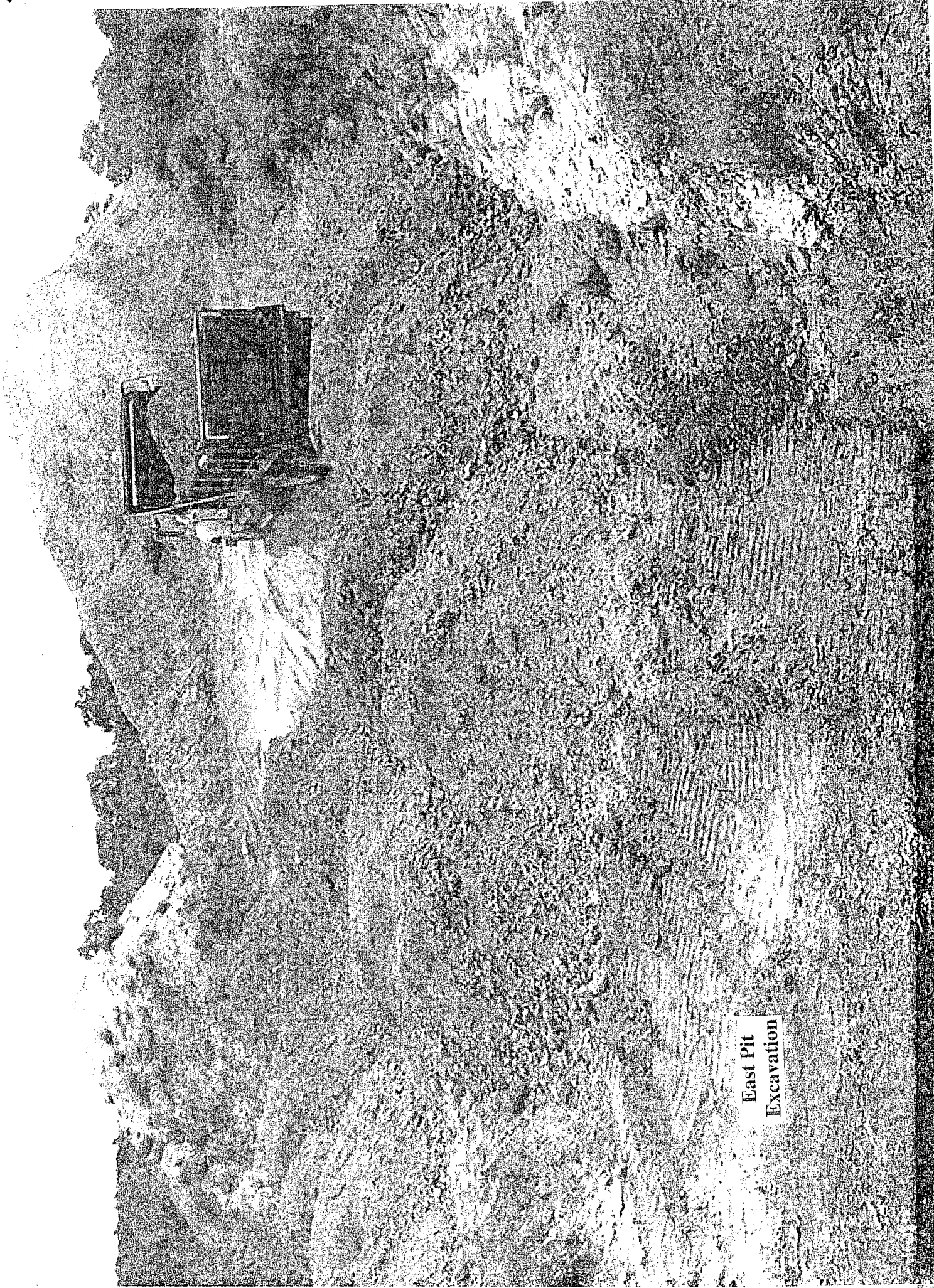
Sampler Relinquished:		Date: <u>7-21-04</u>	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
<u>Deane J. Hernandez</u>		Time: <u>7:50</u>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:		Date: <u>07-21-04</u>	Received By: (Lab Staff)	REMARKS:	
		Time: <u>2:59</u>	<u>Deane J. Hernandez</u>		
Delivered By: (Circle One)					
Sampler - UPS - Bus - Other:					

PICTURES

Tank Battery Pad
Excavation

7-19-04 8:30





East Pit
Excavation

Completed Site