1R - 494

REPORTS

DATE:

9-5-07

ENVIRONMENTAL SITE ASSESSMENT
Plantation Operating, LLC
C.T. Bates #4
Spill

Prepared for
John Allred
Approach Operating
2203 Timberloch Place, Suite 229
The Woodlands, TX 77380

September 5, 2007

Chad Greegson,
Environmental Scientist

White Buffalo Environmental Services
5425 Ben Ficklin Rd.
San Angelo, TX 76904

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(CONTINUED)

APPENDICES

1.0 INTRODUCTION

1.1 Project Background

White Buffalo Environmental Services was retained by John Allred on behalf of Plantation Operating, LLC to conduct an Environmental Site Assessment (ESA) and necessary cleanup on the C.T. Bates #4 located in Jal, NM. The 30 bbl release was reported to the Oil Conservation Division of New Mexico on 7-9-07.

1.2 Project Objective

The objective of this ESA was to identify and quantify the C.T. Bates #4 Tank Battery spill contamination onto the surrounding soil and to remove the contamination. From interviews and on site investigation it was obvious that the spill had discharged salt water and skim oil on an area approximately 55ft. wide and 72 ft. long south of the tank battery, 8 ft. wide and 25 ft long on the east side, and an area approximately 28 ft. long and 14 ft wide north and under the tank. (See attached site map) Plantation Operating LLC employee (William Pilkington) contracted RMA Roustabout Service, Inc. out of Lovington, NM to excavate the contaminated soil over the entire spill area and properly remove the soil offsite to a local landfill. (See attached site Map).

2.0 Scope of Services

Perform ESA via visual inspection and sample collection after excavation to verify contamination is removed. A total of eight samples were collected on 7-11-07 from the surface after excavating the entire spill area. Total Petroleum Hydrocarbons (TRPH) method 8015N, Benzene, Toluene, Ethyl benzene, Xylene (BTEX) method 8260 GC/MS, and Chlorides method 300 Ion Chromatography analysis was performed on each sample. See collection point map and analytical results. The Oil Conservation Division (OCD) of New Mexico was contacted and informed of the 30 bbl spill and the clean up.

3.0 CHRONOLOGY

White Buffalo Environmental Services, Inc. of San Angelo, TX, was contracted to do the necessary ESA to obtain the need information to remediate the contaminated soil located around the tank battery of the C.T. Bates #4 well. Initially eight samples were collected from the site and surrounding area on 7-11-07 after the excavation. These samples will be used to verify that all of the contaminated soil from the salt water and skim oil release is properly removed from the site to below OCD regulatory limits. The soil samples were collected with a decontaminated, rinsed, aluminum hand scoop and immediately placed in appropriately labeled, sealed, 4-oz. glass containers with Teflon lids. The samples were immediately placed in an ice chest and transported to White Buffalo Environmental Services for sample preparation. The samples were transported to ASK Laboratories, Inc. located in Amarillo, TX to be analyzed for Total Petroleum Hydrocarbons (TRPH) method 8015N, Benzene, Toluene, Ethyl benzene, Xylene (BTEX) method 8260 GC/MS, and Chlorides method 300 Ion Chromatography.

The sample locations and field control information is summarized below. Compare to site map locations.

FC#	Description	Date	Time
01	Soil #1	7-11-07	12:00
02	Soil #2	7-11-07	12:05
03	Soil #3	7-11-07	12:09
04	Soil #4	7-11-07	12:15
05	Soil #5	7-11-07	12:19
06	Soil #6	7-11-07	12:24
07	Background	7-11-07	12:26
08	Spoils	4-26-07	12:30

4.0 SUMMARY OF FINDINGS

Evaluation of the results from the assessment samples and on site inspection on 7-11-2007, indicated that a release had occurred.

Evidence gathered during the site investigation after excavation indicated that:

A. Soil #1

1) No Visual or olfactory evidence of petroleum hydrocarbon contamination **was** present.

2) No surface water or free product was observed during the investigation.

3) TRPH Analysis indicated ***normal*** readings for the region.

4) Chloride Analysis indicated elevated readings for the region.

B. Soil #2

1) No Visual or olfactory evidence of petroleum hydrocarbon contamination **was** present.

2) No surface water or free product was observed during the investigation.

3) TRPH Analysis indicated the normal readings for the region or below OCD regulations.

4) Chloride Analysis indicated elevated readings for the region.

C. Soil #3

1) No visual or olfactory evidence of petroleum hydrocarbon contamination **was** present.

2) No surface water or free product was observed during the investigation.

3) TRPH Analysis indicated the normal readings for the region or below OCD regulations.

4) Chloride Analysis indicated normal readings for the region.

D. Soil #4

1) No Visual or olfactory evidence of petroleum hydrocarbon contamination **was** present.

2) No surface water or free product was observed during the investigation.

3) TRPH Analysis indicated the normal readings for the region or below OCD regulations.

4) Chloride Analysis indicated elevated readings for the region.

E. Soil #5

1) No visual or olfactory evidence of petroleum hydrocarbon contamination **was** present.

2) No surface water or free product was observed during the investigation.

3) TRPH Analysis indicated the normal readings for the region or below OCD regulations.

4) Chloride Analysis indicated elevated readings for the region.

F. Soil #6

1) No visual or olfactory evidence of petroleum hydrocarbon contamination **was** present.

2) No surface water or free product was observed during the investigation.

3) TRPH Analysis indicated the normal readings for the region or below OCD regulations.

4) Chloride Analysis indicated elevated readings for the region.

G. Background

1) No visual or olfactory evidence of petroleum hydrocarbon contamination **was** present.

2) No surface water or free product was observed during the investigation.

3) TRPH Analysis indicated the normal readings for the region or below OCD regulations.

4) Chloride Analysis indicated normal readings for the region..

H. Spoils

1) No visual or olfactory evidence of petroleum hydrocarbon contamination **was** present.

2) No surface water or free product was observed during the investigation.

3) TRPH Analysis indicated the normal readings for the region or below OCD regulations.

4) Chloride Analysis indicated elevated readings for the region.

The analytical results from the samples collected on 7-11-07 from the excavated area indicated Soil samples number 1, 4, 5, 6 and the spoils (refer to site Map) were still elevated with Chlorides or above OCD regulations and further excavation was needed in these areas. Contact was made by WBES employees to Plantation Operating LLC. to request further excavation in these areas. Contact was made to RMA Roustabout Service, Inc and on 8-1-07 these area were over excavated and six confirmation samples were collected to verify all contaminated soil has been removed from the site. The samples were transported to ASK Laboratories, Inc. located in Amarillo, TX to be analyzed for Chlorides method 300 Ion Chromatography.

Evidence gathered during the site investigation after excavation on 8-1-07 indicated that:

A. Soil #1A

1) No Visual or olfactory evidence of petroleum hydrocarbon contamination **was** present.

2) No surface water or free product was observed during the investigation.

3) Chloride Analysis indicated normal readings for the region.

B. Soil #4A

1) No Visual or olfactory evidence of petroleum hydrocarbon contamination **was** present.

2) No surface water or free product was observed during the investigation.

3) Chloride Analysis indicated normal readings for the region.

C. Soil #5A

1) No Visual or olfactory evidence of petroleum hydrocarbon contamination **was** present.

2) No surface water or free product was observed during the investigation.

3) Chloride Analysis indicated elevated readings for the region.

D. Soil #6A

1) No Visual or olfactory evidence of petroleum hydrocarbon contamination **was** present.

2) No surface water or free product was observed during the investigation.

3) Chloride Analysis indicated normal readings for the region.

E. Spoils 1

1) No Visual or olfactory evidence of petroleum hydrocarbon contamination **was** present.

2) No surface water or free product was observed during the investigation.

3) Chloride Analysis indicated elevated readings for the region.

F. Spoils 2

1) No Visual or olfactory evidence of petroleum hydrocarbon contamination **was** present.

2) No surface water or free product was observed during the investigation.

3) Chloride Analysis indicated elevated readings for the region.

The analytical results from the samples collected on 8-1-07 from the excavated area indicated Soil samples number 5A (refer to site Map) was still elevated with Chlorides or above OCD regulations and further excavation was needed in these areas. Contact was made by WBES employees to Plantation Operating LLC. to request further excavation in these areas. Contact was made to RMA Roustabout Service, Inc and on 8-16-07 this area was over excavated and one confirmation sample was collected to verify all contaminated soil has been removed from the site. The sample was transported to ASK Laboratories, Inc. located in Amarillo, TX to be analyzed for Chlorides method 300 Ion Chromatography.

Evidence gathered during the site investigation after excavation on 8-16-07 indicated that:

A. Soil #5B

1) No Visual or olfactory evidence of petroleum hydrocarbon contamination **was** present.

2) No surface water or free product was observed during the investigation.

3) Chloride Analysis indicated normal readings for the region.

5.0 CONCLUSIONS AND RECOMMENDATIONS

White Buffalo Environmental Services, Inc. has performed an Environmental Site Assessment for the C.T. Bates #4 Tank Battery Spill remediation, located in Jal, NM using industry standard practices.

A review of the samples ***after excavation and removing the material the site indicated*** that all of the contaminated soil which could environmentally impact the property was properly removed offsite and disposed of in a local landfill. The excavated materials were transported to Sundance Services Inc. located in Eunice, NM.

In review of the sample results the following information and recommendations are given.

> ***All results are below the immediate 100 mg/Kg required for Chlorides by the OCD. All excavated materials were properly removed and disposed at Sundance Services Inc. located in Eunice, NM..***

No other environmental encumbrances were found on this property during this limited investigation.

White Buffalo Environmental
Chad Gregson
5425 Ben Ficklin Rd.
San Angelo, TX 76904
(325) 651–9054

Sundance Services Inc.
Soil Disposal
P.O. Box 1737
Eunice, New Mexico 88231

Plantation Operating, LLC
John Allred
2203 Timberloch Place, Suite 229
The Woodlands, TX 77380
(281) 296-7222

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505
(505) 393-6161

APPENDIX A
LABORATORY SAMPLES AND CHAIN OF CUSTODY

ASK Laboratories, Inc.

Analytical Services Kwik!

ASK LABORATORIES, INC.
5935 GLENOAK LANE
AMARILLO, TEXAS 79109

Attn: CUSTOMER SERVICES
Phone: (806) 353-4425

WHITE BUFFALO ENVIRO. SERVICE
5425 BEN FICKLIN ROAD
SAN ANGELO, TX 76904

Attn: GREG SWINDLE

Order #: 07-07-049
Date: 07/25/07 10:30
Work ID: SOIL SAMPLES
Date Received: 07/13/07
Date Completed: 07/25/07

Purchase Order: PLANTATION CT BATES #4
Invoice Number:

Client Code: WHITE_BUFF

SAMPLE IDENTIFICATION

Sample Number	Sample Description	Sample Number	Sample Description
01	SOIL 1	05	SOIL 5
02	SOIL 2	06	SOIL 6
03	SOIL 3	07	BACKGROUND
04	SOIL 4	08	SPOILS

Certified By
ALAN D. KING

5935 Glenoak Lane
Amarillo, Texas 79109
Telephone (806) 353-4425
Toll Free 1-800-423-9443
Facsimile (806) 352-6454

TEST RESULTS BY SAMPLE

Sample: 01A SOIL 1 **Collected: 07/11/07 12:00**

Test Description	Result	SQL	Units	Analyzed	By
PERCENT SOLIDS - DRY WT.	90.40		wt % solids	07/16/07	BJP
CHLORIDE ON SOLIDS	6970	800	mg/kg	07/18/07	BNH
Total Pet. Hydrocarbons					
TPH C6-C12 - GRO	<28.7	28.7	mg/kg	07/24/07	BNH
TPH C12-C28 - DRO	<28.7	28.7	mg/kg	07/24/07	BNH
TPH C28-C35	<28.7	28.7	mg/kg	07/24/07	BNH
BTEX					
BENZENE	<0.006	0.006	mg/kg	07/18/07	JRM
TOLUENE	<0.011	0.006	mg/kg	07/18/07	JRM
ETHYLBENZENE	<0.006	0.006	mg/kg	07/18/07	JRM
XYLENE	<0.017	0.006	mg/kg	07/18/07	JRM
Surrogates					
BROMOFLUOROBENZENE	104	Min: 80	Max: 120		

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Amarillo, Texas 79109
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Facsimile (806) 352-6454

Order # 07-07-049 **ASK LABORATORIES, INC.** **Page 3**
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TEST RESULTS BY SAMPLE

Sample: 02A SOIL 2 **Collected: 07/11/07 12:05**

Test Description	Result	SQL	Units	Analyzed	By
PERCENT SOLIDS - DRY WT.	94.30		wt % solids	07/16/07	BJP
CHLORIDE ON SOLIDS	9.2	8.0	mg/kg	07/18/07	BNH
Total Pet. Hydrocarbons					
TPH C6-C12 - GRO	<32.2	32.2	mg/kg	07/24/07	BNH
TPH C12-C28 - DRO	<32.2	32.2	mg/kg	07/24/07	BNH
TPH C28-C35	<32.2	32.2	mg/kg	07/24/07	BNH

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Amarillo, Texas 79109
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TEST RESULTS BY SAMPLE

Sample: 03A SOIL 3 **Collected: 07/11/07 12:09**

Test Description	Result	SQL	Units	Analyzed	By
PERCENT SOLIDS - DRY WT.	93.11		wt % solids	07/16/07	BJP
CHLORIDE ON SOLIDS	<8.0	8.0	mg/kg	07/18/07	BNH
Total Pet. Hydrocarbons					
TPH C6-C12 - GRO	<31.1	31.1	mg/kg	07/24/07	BNH
TPH C12-C28 - DRO	<31.1	31.1	mg/kg	07/24/07	BNH
TPH C28-C35	<31.1	31.1	mg/kg	07/24/07	BNH
BTEX					
BENZENE	<0.005	0.005	mg/kg	07/18/07	JRM
TOLUENE	<0.010	0.010	mg/kg	07/18/07	JRM
ETHYLBENZENE	<0.005	0.005	mg/kg	07/18/07	JRM
XYLENE	<0.015	0.015	mg/kg	07/18/07	JRM
Surrogates					
BROMOFLUOROBENZENE	103	Min: 80	Max: 120		

5935 Glenoak Lane
Amarillo, Texas 79109
Telephone (806) 353-4425
Toll Free 1-800-423-9443
Facsimile (806) 352-6454

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TEST RESULTS BY SAMPLE

Sample: 04A SOIL 4 **Collected: 07/11/07 12:15**

Test Description	Result	SQL	Units	Analyzed	By
PERCENT SOLIDS - DRY WT.	92.37		wt % solids	07/16/07	BJP
CHLORIDE ON SOLIDS	1470	800	mg/kg	07/18/07	BNH
Total Pet. Hydrocarbons					
TPH C6-C12 - GRO	<32.6	32.6	mg/kg	07/24/07	BNH
TPH C12-C28 - DRO	<32.6	32.6	mg/kg	07/24/07	BNH
TPH C28-C35	<32.6	32.6	mg/kg	07/24/07	BNH

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Amarillo, Texas 79109
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TEST RESULTS BY SAMPLE

Sample: 05A SOIL 5 **Collected: 07/11/07 12:19**

Test Description	Result	SQL	Units	Analyzed	By
PERCENT SOLIDS - DRY WT.	93.24		wt % solids	07/16/07	BJP
CHLORIDE ON SOLIDS	1350	800	mg/kg	07/18/07	BNH
Total Pet. Hydrocarbons					
TPH C6-C12 - GRO	<32.0	32.0	mg/kg	07/24/07	BNH
TPH C12-C28 - DRO	<32.0	32.0	mg/kg	07/24/07	BNH
TPH C28-C35	35.8	32.0	mg/kg	07/24/07	BNH

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Amarillo, Texas 79109
Telephone (806) 353-4425
Toll Free 1-800-423-9443
Facsimile (806) 352-6454

TEST RESULTS BY SAMPLE

Sample: 06A SOIL 6 **Collected: 07/11/07 12:24**

Test Description	Result	SQL	Units	Analyzed	By
PERCENT SOLIDS - DRY WT.	91.51		wt % solids	07/16/07	BJP
CHLORIDE ON SOLIDS	1650	800	mg/kg	07/18/07	BNH
Total Pet. Hydrocarbons					
TPH C6-C12 - GRO	<32.1	32.1	mg/kg	07/24/07	BNH
TPH C12-C28 - DRO	<32.1	32.1	mg/kg	07/24/07	BNH
TPH C28-C35	<32.1	32.1	mg/kg	07/24/07	BNH

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Amarillo, Texas 79109
Telephone (806) 353-4425
Toll Free 1-800-423-9443
Facsimile (806) 352-6454

Order # 07-07-049 **ASK LABORATORIES, INC.** **Page 8**
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TEST RESULTS BY SAMPLE

Sample: 07A BACKGROUND **Collected: 07/11/07 12:26**

Test Description	Result	SQL	Units	Analyzed	By
PERCENT SOLIDS - DRY WT.	99.37		wt % solids	07/16/07	BJP
CHLORIDE ON SOLIDS	<8.0	8.0	mg/kg	07/18/07	BNH
Total Pet. Hydrocarbons					
TPH C6-C12 - GRO	<28.4	28.4	mg/kg	07/24/07	BNH
TPH C12-C28 - DRO	<28.4	28.4	mg/kg	07/24/07	BNH
TPH C28-C35	<28.4	28.4	mg/kg	07/24/07	BNH

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Amarillo, Texas 79109
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Order # 07-07-049 **ASK LABORATORIES, INC.** **Page 9**
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TEST RESULTS BY SAMPLE

Sample: 08A SPOILS **Collected: 07/11/07 12:30**

Test Description	Result	SQL	Units	Analyzed	By
PERCENT SOLIDS - DRY WT.	91.74		wt % solids	07/16/07	BJP
CHLORIDE ON SOLIDS	1370	5.0	mg/kg	07/18/07	BNH
Total Pet. Hydrocarbons					
TPH C6-C12 - GRO	<62.8	62.8	mg/kg	07/24/07	BNH
TPH C12-C28 - DRO	648	62.8	mg/kg	07/24/07	BNH
TPH C28-C35	<62.8	62.8	mg/kg	07/24/07	BNH

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Amarillo, Texas 79109
Telephone (806) 353-4425
Toll Free 1-800-423-9443
Facsimile (806) 352-6454

QA/QC INFORMATION

BATCH ID# V11-24	LCS	MS	MSD	RPD	BLANK
BENZENE	105%	104%	102%	1.9%	bdl
TOLUENE	98%	84%	89%	6.2%	bdl
ETHYLBENZENE	96%	95%	96%	0.9%	bdl
m,p-XYLENES	93%	93%	96%	2.8%	bdl
o-XYLENE	98%	98%	102%	3.7%	bdl

BATCH TPH008-24

TX1005	LCS	MS	MSD	RPD	BLANK
TPH	90%	88%	87%	1.8%	bdl

COMPOUND	RPD	SPIKE RECOVERY	QC RECOVERY	BLANK
CHLORIDE	0.2%	100%	100%	bdl

bdl = below detectable levels

TEST METHODOLOGIES

TEST CODE : SOLIDS TEST NAME : PERCENT SOLIDS FOR DRY WT CORRECTIONS

REFERENCE CLP PROTOCOL/ SECTION IV/ PART F

TEST CODE : 8015N TEST NAME : TRPH-8015M (GRO, DRO, C28-35)

METHOD 8015M GCFID GAS CHROMATOGRAPHY WITH FLAME-IONIZATION DETECTOR. SW-846 TEST METHODS FOR EVALUATING SOLID WASTES.

TEST CODE : BTEX TEST NAME : BTEX

METHOD 8260 GC/MS GAS CHROMATOGRAPHY WITH MASS-SELECTIVE DETECTOR. SW-846 TEST METHODS FOR EVALUATING SOLID WASTES.

TEST CODE : CL_SOL TEST NAME : CHLORIDE ON SOLID

METHOD 300.0 : ION CHROMATOGRAPHY
METHODS FOR CHEMICAL ANALYSIS OF WATER AND WASTES, EPA-600/4-79-020

METHOD 9056: ION CHROMATOGRAPHY
SW-846 TEST METHODS FOR EVALUATING SOLID WASTES.

5935 Glenoak Lane
Amarillo, Texas 79109
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ASK Laboratories

Analytical Services Kwik!

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Telephone: (806) 353-4425
Facsimile: (806) 352-6454

Chain of Custody Record

Work Order No. _____
Client Name White Buffalo Environmental
Project I.D./Location Plantation CT Bates #4
Address 5425 Ben Ficklin Rd. San Angelo, TX 76904
Telephone (325) 651-9054
Sampled By Chad Gregson

Sample #	Date	Time	Matrix	Composite	Grab	Sample Description	No. of Containers	Analysis Required: BTEX	NM TRPH	Chlorides					Remarks
01	7/11/07	12:00	soil		X	Soil 1	1	X	X	X					
02		12:05			X	Soil 2	1		X	X					
03		12:09			X	Soil 3	1	X	X	X					
04		12:15			X	Soil 4	1		X	X					
05		12:19			X	Soil 5	1		X	X					
06		12:24			X	Soil 6	1		X	X					
07		12:26			X	Background	1		X	X					
08		12:30			X	Spoils	1		X	X					
09															
10															

Relinquished by: (Signature)	Date	Time	Received by: (signature)
Chad Gregson	7/11/07	19:00	Chad Greg-
Chad Gregson	7/12/07	16:30	BUS
Bus	7/13/07	0900	ZB

Client Agrees to:

Accept Returned Sample ☐

Pay for sample Disposal ($30 per 100 grams) ☐

Client's Signature _____

Remarks:

	Yes	No
Headspace		X
Properly Sealed	X	
Chilled to 40° F	X	
Tamper Seal	X	

If Yes, Amt. _____
If No, Explain _____
If No, Temp. 2.8°C
Comments _____

Type of Container Glass

Additional Comments: ASK # Q707049

ASK LABORATORIES, INC

Login Checklist

Order # 0707049

Shipping Method: Bus Date/Time of Receipt: 7/13/7 0900

Cooler Check

Shipping Container	Ice in Cooler			Custody Seal				Tracking Number
			If No,	Present?		Intact?		
	Yes	No	Temperature	Yes	No	Yes	No	
Cooler	X		2.8	X		X		858 486

Note: If the temperature of a cooler/sample is above 6°C fill out NCR.

Custody Seals on Bottles Present: Yes X No____
If Yes, is it intact? Yes X No____
If Not intact, fill out NCR

Condition of Containers:
Loose Caps: Yes____ No X
If Yes, fill out NCR

Broken Containers: Yes____ No X
If Yes, fill out NCR

Chain of Custody Included: Yes X No____
If Yes, verify receipt of all containers listed and all required fields are complete. Sign and Date COC and fill out laboratory boxes. Document any discrepancies on NCR.

Acid Preserved Samples: pH</=2 Yes NA No____
If No, fill out NCR

Base Preserved Samples: pH>/=12 Yes NA Solids No____
If No, fill out NCR

Coolers Unpacked/Checked by:_____ **Date:**_____

NCRs (y/n):_____ **Faxed Confirmation (y/n):**_____

5935 Glenoak Lane
Amarillo, TX 79109

KERRVILLE BUS COMPANY
1430 E. HOUSTON ST.
SAN ANTONIO, TEXAS 78202

E58486

OUT	CARRIER	IN	MO	DAY	YEAR	TIME	AM	PM	FORWARDING AGENCY NO.

ROUTING

DESTINATION STATION CITY & STATE: Amarillo, TX — ZIP: 79109

To (Recipient's Name): [illegible] — Phone Number: ( ) 353-4425

Exact Street Address (Cannot deliver to P.O. Box or Zip Code): [illegible]

City: Amarillo — State: TX — Zip: 79109

From (Shipper's Name): [illegible] — Phone Number: ( ) 651-[illegible]

Street Address: [illegible]

Origin City: [illegible] — State: TX — Zip: [illegible]

(NOT NEGOTIABLE) SUBJECT TO TARIFF REGULATIONS LIABILITY: This carrier will not pay loss or damages claims over $100 per shipment or $50 per package, whichever is greater, unless a greater value is declared and charges for greater value paid. Maximum valuation of any one shipment is limited by tariff. (See tariff for intrastate exceptions.) In no event shall the Carrier be liable for consequential or incidental damage for loss, damage or delay. Shipper agrees to these terms.

Shipper's Signature X [signature]

FORWARDING AGENT — PICK-UP AGENT

CHARGE ACCOUNT NO.

CASH	CHG	C.O.D.
	X	

Length X Width X Height

X X = ÷ 200 =

DIMENSIONAL WGT. COMPUTATION — DIMENSIONAL WGT. LBS.

NO. OF PIECES	ACTUAL WGT. (LBS)
1	8

TYPE OF CONTAINER: [illegible]

☐ ENV. ☐ BGGE. ☐ SACK ☐ CTN ☒ OTHER

☐ NBO ☐ OVERNIGHT ☐ STD ☐ INT'L ☐ SAME DAY

PREPAID	CHARGES	COLLECT
13.46	EXPRESS	
	REFWD	
	VALUE	
	COLLECT/ C.O.D. FEE	
	SUB TOTAL	
	PICK-UP	
	DELIVERY	
	STORAGE	
	OTHER	
	C.O.D. AMOUNT	
13.46	TOTAL	

LABEL/DELIVERY

APPENDIX 1
LABORATORY DATA COVER PAGE

ASK Laboratories, Inc.

Analytical Services Kwik!

Laboratory Name:	ASK Laboratories, Inc.	Date:	08/13/07
Project Name:	Plantation Operating	Laboratory ID#:	0708027
Reviewer Name:	Alan D. King		

This data package consists of:

This signature page, the laboratory review checklist, and the following reportable data:

R1 Field chain-of-custody documentation;

R2 Sample identifecation cross-reference;

R3 Test reports (analytical data sheets) for each environmental sample that includes:
- a) Items consistent with NELAC 5.13 or ISO/IEC 17025 Section 5.10,
- b) Dilution factors,
- c) Ppreparation methods,
- d) Cleanup methods, and
- e) If required for the project, tentatively identified compounds (TICs).

R4 Surrogate recovery data including:
- a) Calculated recovery (%R), and
- b) The laboratory's surrogate QC limits.

R5 Test reports/summary forms for blank samples;

R6 Test reports/summary forms for laboratory control samples(LCSs) including:
- a) LCS spiking amounts,
- b) Calculated %R for each analyte, and
- c) The laboratory's LCS QC limits.

R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
- a) Samples associated with the MS/MSD clearly identified,
- b) MS/MSD spiking amounts,
- c) Concentration of each MS/MSD analyte measured in the parent ans spiked samples,
- d) Calculated %Rs and relative percent differences (RPDs), and
- e) The laboratory's MS/MSD QC limits.

R8 Laboratory analytical duplicate (if applicable) recovery and precision:
- a) The amount of analyte measured in the duplicate,
- b) The calculated RPD, and
- c) The laboratory's QC limits for analytical duplicates.

R9 List of method quantitation limits (MQLs) for each analyte for each method and matrix;

R10 Other problems or anamalies.

The Exception Report for every "No" or Not Reviewed (NR)" item in laboratory review chechlist.

Release Statement: I am responsible for the release of this laboratory data package. This data package has been reviewed by the laboratory and is complete and technically compliant with requirements of the methods used, except where noted by the laboratory in the attached exception reports. By my signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory in the Laboratory Review Checklist, and no infromation or data have been knowingly withheld that would affect the quality of the data.

President	8/13/2007
Official Title (Printed)	Date
Alan D. King	Alan D King
Name (Printed)	Signature

5935 Glenoak Lane
Amarillo, Texas 79109
Telephone (806) 353-4425
Toll Free 1-800-423-9443
Facsimile (806) 352-6454

ASK Laboratories, Inc.

Analytical Services Kwik!

ANALYTICAL REPORT

Plantation Operating

Laboratory ID#
0708027

Greg Swindle

White Buffalo Environmental Service
5425 Ben Ficklin Road

San Angelo, TX 76904

ASK LABORATORIES, INC.

Alan D. King

08/13/07

5935 Glenoak Lane
Amarillo, Texas 79109
Telephone (806) 353-4425
Toll Free 1-800-423-9443
Facsimile (806) 352-6454

Sample Summary

Laboratory ID	Description	Sampled Date	Time	Matrix	Received
0708027-01	1a Second Excavation	08/01/07	12:00	Solid	08/07/07
0708027-02	4a	08/01/07	15:00	Solid	08/07/07
0708027-03	5a	08/01/07	15:15	Solid	08/07/07
0708027-04	6a	08/01/07	15:30	Solid	08/07/07
0708027-05	Spoils 1	08/01/07	15:50	Solid	08/07/07
0708027-06	Spoils 2	08/01/07	16:00	Solid	08/07/07

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Amarillo, Texas 79109
Telephone (806) 353-4425
Toll Free 1-800-423-9443
Facsimile (806) 352-6454

Test Results By Sample

Laboratory ID: 0708027-01
Sample Description: 1a Second Excavation
Test Description: CL
Matrix: Solid

Sample Collected
Date: 08/01/07
Time: 12:00

Analyte	Result	Flag	MQL	SQL	Units	df	Analyzed	Analyst	Method	QC Batch ID
Chloride	40.3		8.47	8.47	mg/kg	4	08/08/07	BNH	EPA 300(s)	IC0808

Test Results By Sample

Laboratory ID: 0708027-02
Sample Description: 4a
Test Description: CL
Matrix: Solid

Sample Collected
Date: 08/01/07
Time: 15:00

Analyte	Result	Flag	MQL	SQL	Units	df	Analyzed	Analyst	Method	QC Batch ID
Chloride	<9.26	U	9.26	9.26	mg/kg	4	08/08/07	BNH	EPA 300(s)	IC0808

Test Results By Sample

Laboratory ID: 0708027-03
Sample Description: 5a
Test Description: CL
Matrix: Solid

Sample Collected
Date: 08/01/07
Time: 15:15

Analyte	Result	Flag	MQL	SQL	Units	df	Analyzed	Analyst	Method	QC Batch ID
Chloride	793		92.1	92.1	mg/kg	40	08/08/07	BNH	EPA 300(s)	IC0808

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Telephone (806) 353-4425
Toll Free 1-800-423-9443
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Test Results By Sample

Laboratory ID:	**0708027-04**	**Sample Collected**	
Sample Description:	**6a**	**Date:**	**08/01/07**
Test Description:	**CL**	**Time:**	**15:30**
Matrix:	**Solid**		

Analyte	Result	Flag	MQL	SQL	Units	df	Analyzed	Analyst	Method	QC Batch ID
Chloride	47.5		8.37	8.37	mg/kg	4	08/08/07	BNH	EPA 300(s)	IC0808

Test Results By Sample

Laboratory ID:	**0708027-05**	**Sample Collected**	
Sample Description:	**Spoils 1**	**Date:**	**08/01/07**
Test Description:	**CL**	**Time:**	**15:50**
Matrix:	**Solid**		

Analyte	Result	Flag	MQL	SQL	Units	df	Analyzed	Analyst	Method	QC Batch ID
Chloride	875		132	132	mg/kg	60	08/08/07	BNH	EPA 300(s)	IC0808

Test Results By Sample

Laboratory ID:	**0708027-06**	**Sample Collected**	
Sample Description:	**Spoils 2**	**Date:**	**08/01/07**
Test Description:	**CL**	**Time:**	**16:00**
Matrix:	**Solid**		

Analyte	Result	Flag	MQL	SQL	Units	df	Analyzed	Analyst	Method	QC Batch ID
Chloride	80.6		42.4	42.4	mg/kg	20	08/08/07	BNH	EPA 300(s)	IC0808

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Toll Free 1-800-423-9443
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QC Results: Wet Chem Blank and LCS

Test Description: CL

Analyte	Blank	Spike	LCS	% Recovery	Limits	QC Batch ID
Chloride	ND	10	9.98	100%	80%-120%	IC808

QC Results: Wet Chem Matrix Spike

Test Description: CL

Analyte	Sample ID	Result	Spike	MS Result	% Recovery	Limits	QC Batch ID
Chloride	0708027-01	4.785	5	9.7	98%	75%-125%	IC808

QC Results: Wet Chem Duplicate

Test Description: CL

Analyte	Sample ID	MS Result	MSD Result	% RPD	Limits	QC Batch ID
Chloride	0708027-01	9.7	9.66	0%	20%	IC808

Narrative

All exceptions are discussed in Appendix 2.

Methods

TEST NAME: CHLORIDE
Method EPA 300.0: ANIONS by ION Chromatrography.
EPA Method for Evaluation of Wastes

Comments

J Flag = Measurement is >SQL and <MQL and is an estimated result.

U Flag = Measurement is <SQL and is undetected.

E Flag = Measurement above calibration range.

ND Flag = Measurement <MQL in QC Samples.

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Amarillo, Texas 79109
Telephone: (806) 353-4425
Facsimile: (806) 352-6454

Chain of Custody Record

Work Order No. _____
Client Name White Buffalo Environmental
Project I.D./Location Plantation Operating
Address 5425 Ben Ficklin Rd San Angelo, TX 76904
Telephone (325) 651-9054
Sampled By Chad Gregson

Sample #	Date	Time	Matrix	Composite	Grab	Sample Description	No. of Containers	Analysis Required: Chlorides	Remarks
01	8/1/07	12:00	Soil		X	1a Second excavation	1	X	
02		3:00			X	4a	1	X	
03		3:15			X	5a	1	X	
04		3:30			X	6a	1	X	
05		3:50			X	Spoils 1	1	X	
06		4:00			X	Spoils 2			
07									
08									
09									
10									

Relinquished by: (Signature)	Date	Time	Received by: (Signature)
Chad Gregson	8-2-07	8:00	A Floyd
A Floyd	8/6/07	17:00	BUS
BUS	8/7/07	0845	

Client Agrees to:
- Accept Returned Sample ☐
- Pay for sample Disposal ($30 per 100 grams) ☐

Client's Signature _____

Remarks:

	Yes	No
Headspace		X
Properly Sealed	X	
Chilled to 40° F	X	
Tamper Seal	X	

If Yes, Explain _____
If No, Explain _____
If No, Temp. _____
Comments _____

Type of Container _____

Additional Comments: _____

ASK Laboratories, Inc.
Analytical Services Kwik!

WBES
Order #0708027
6 of 6

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Amarillo, Texas 79109
Telephone (806) 353-4425
Toll Free 1-800-423-9443
Facsimile (806) 352-6454

ASK Laboratories
Analytical Services Kwik!

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Amarillo, Texas 79109
Telephone: (806) 353-4425
Facsimile: (806) 352-6454

Chain of Custody Record

Work Order No. _____
Client Name White Bluffalo Environmental
Project I.D./Location Plantation Operating
Address 5425 Ben Ficklin Rd. San Angelo, TX 76904
Telephone (325) 651-9054
Sampled By Chad Gregson

Sample #	Date	Time	Matrix	Composite	Grab	Sample Description	No. of Containers	Analysis Required: Chlorides	Remarks
01	8/1/07	12:00	Soil		X	1a Second excavation	1	X	
02		3:00			X	4a	1	X	
03		3:15			X	5a	1	X	
04		3:30			X	6a	1	X	
05		3:50			X	Spoils 1	1	X	
06		4:00			X	Spoils 2			
07									
08									
09									
10									

	Relinquished by: (Signature)	Date	Time	Received by: (Signature)
1	Chad Gregson	8-2-07	8:00	K Floyd
2	K Floyd	8/16/07	17:00	BLIS
3	Bus	8/17/07	0845	

Client Agrees to:

Accept Returned Sample ☐

Pay for sample Disposal ($30 per 100 grams) ☐

Client's Signature _____

Remarks:

	Yes	No
Headspace		X
Properly Sealed	X	
Chilled to 40° F	X	
Tamper Seal	X	

If Yes, Amt. _____
If No, Explain _____
If No, Temp. 5.5°C
Comments _____

Type of Container _____

Additional Comments:

0708027

Login Checklist

Order # 0708087

Shipping Method: Bus Date/Time of Receipt: 08/07/07 0845

Cooler Check

Shipping Container	Ice in Cooler			Custody Seal				Tracking Number
			If No,	Present?		Intact?		
	Yes	No	Temperature	Yes	No	Yes	No	
Cooler	X		5.5°C		X			

Note: If the temperature of a cooler/sample is above 6°C fill out NCR.

Custody Seals on Bottles Present: Yes X No____
If Yes, is it intact? Yes X No____
If Not intact, fill out NCR

Condition of Containers:
Loose Caps: Yes____ No X
If Yes, fill out NCR

Broken Containers: Yes____ No X
If Yes, fill out NCR

Chain of Custody Included: Yes X No____
If Yes, verify receipt of all containers listed and all required fields are complete. Sign and Date COC and fill out laboratory boxes. Document any discrepancies on NCR.

Acid Preserved Samples: pH</=2 Yes NA No____
If No, fill out NCR

Base Preserved Samples: pH>/=12 Yes NA No____
If No, fill out NCR

Solid Matrix

Coolers Unpacked/Checked by: BB **Date:** 08/07/08

NCRs (y/n): no **Faxed Confirmation (y/n):**____

5935 Glenoak Lane
Amarillo, TX 79109

KERRVILLE BUS COMPANY
1430 E. HOUSTON ST.
SAN ANTONIO, TEXAS 78202

OUT CARRIER IN	MO	DAY	YEAR	TIME	AM	PM	FORWARDING AGENCY NO.
KPK	8	6	07	5	55	X	

858490

ROUTING

DESTINATION STATION CITY & STATE — ZIP

FORWARDING AGENT — PICK-UP AGENT

☐ NBO ☐ OVERNIGHT ☐ STD ☐ INT'L ☐ SAME DA

To (Recipient's Name) — Phone Number

CHARGE ACCOUNT NO.

Exact Street Address (Cannot deliver to P.O. Box or Zip Code)

CASH | CHG X | C.O.D.

City — State — Zip

Length X Width X Height

X X = ÷ 200 =
DIMENSIONAL WGT. COMPUTATION — DIMENSIONAL WGT. LBS.

From (Shipper's Name) — Phone Number

Street Address — City

NO. OF PIECES 1 | ACTUAL WGT. (LBS) 31

Origin City — State — Zip

(NOT NEGOTIABLE) SUBJECT TO TARIFF REGULATIONS. LIABILITY: This carrier will not pay loss or damages claims over $100 per shipment or $50 per package, whichever is greater, unless a greater value is declared and charges for greater value paid. Maximum valuation in any one shipment is limited by tariff. (See tariff for interstate exceptions.) In no event shall the Carrier be liable for consequential or incidental damage for loss, damage or delay. Shipper agrees to these terms.

TYPE OF CONTAINER

☐ ENV. ☐ BGGE. ☐ SACK ☐ CTN ☒ OTHER

Shipper's Signature
X

PREPAID	CHARGES	COLLECT
256	EXPRESS	
	REFWD	
	VALUE	
	COLLECT/ C.O.D. FEE	
	SUB TOTAL	
	PICK-UP	
	DELIVERY	
	STORAGE	
	OTHER	
	C.O.D. AMOUNT	
256	TOTAL	

LABEL/DELIVERY

APPENDIX 2A
LABORATORY REVIEW CHECKLIST

ASK Laboratories, Inc.

Analytical Services Kwik!

Laboratory Name: ASK Laboratories, Inc. Date: 08/13/07
Project Name: Plantation Operating Laboratory ID#: 0708027
Reviewer Name: Alan D. King

Cat #	YES	NO	NA	ER #	Chain-of-custody (C-O-C)
R1	x				Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?

	YES	NO	NA	ER #	Sample and quality control (QC) identification
R2	x				Are all field sample ID numbers cross-referenced to the laboratory ID numbers?
R2	x				Are all laboratory ID numbers cross-referenced to the corresponding QC data?

	YES	NO	NA	ER #	Test reports
R3	x				Were all samples prepared and analyzed within holding times?
R3	x				Other than those results <MQL, were all other raw values bracketed by calibration standards?
R3	x				Were calculations NOT performed by a spreadsheet checked by a peer or supervisor?
R3	x				Were all analyte identifications checked by a peer or supervisor?
R3	x				Were sample quantitation limits reported for all analytes not detected?
R3	x				Were all results for soil and sediment samples reported on a dry weight basis?
R3	x				Were % moisture (or solids) reported for all soil and sediment samples?
R3			x		If required for the project, TICs reported?

	YES	NO	NA	ER #	Surrogate recovery data
R4			x		Were surrogates added prior to extraction?
R4			x		Were surrogate percent recoveries in all samples within the laboratory QC limits?

	YES	NO	NA	ER #	Test reports/summary forms for blank samples
R5	x				Were appropriate type(s) of blanks analyzed?
R5	x				Were blanks analyzed at the appropriate frequency?
R5	x				Were method blanks taken through the entire analytical process?
R5	x				Were blank concentrations <MQL?

	YES	NO	NA	ER #	Laboratory control samples (LCS)
R6	x				Were all COC's included in the LCS?
R6	x				Was each LCS taken throught the entire analytical procedure?
R6	x				Were LCSs analyzed at the required frequency?
R6	x				Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?
R6	x				Does the detectability data document the laboratory's capability to detect the COCs at the MDL
R6					used to calculate the SQLs?
R6	x				Was the LCSD RPD within QC limits?

	YES	NO	NA	ER #	Matrix spike (MS) and matrix spike duplicate (MSD) data
R7	x				Were the project method specified analytes included in the MS and MSD?
R7	x				Were MS/MSD analyzed at the appropriate frequency?
R7	x				Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?
R7	x				Were MS/MSD RPDs within laboratory QC limits?

	YES	NO	NA	ER #	Analytical duplicate data
R8	x				Were appropriate analytical duplicates analyzed for each matrix?
R8	x				Were analytical duplicates analyzed at the appropriate frequency?
R8	x				Were RPDs or relative standard deviations within the laboratory QC limits?

	YES	NO	NA	ER #	Method quantitation limits (MQLs)
R9	x				Are the MQLs for each method analyte included in the laboratory data package?
R9	x				Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?
R9	x				Are unadjusted MQLs included in the laboratory data package?

	YES	NO	NA	ER #	Other problems/anomalies
R10	x				Are all known problems/anomalies/special conditions noted in this LRC and ER?
R10	x				Were all necessary corrective actions performed for the reported data?
R10	x				Was applicable and available technology used to lower the SQL minimize the matrix interference
					affects on the sample results?

5935 Glenoak Lane
Amarillo, Texas 79109
Telephone (806) 353-4425
Toll Free 1-800-423-9443
Facsimile (806) 352-6454

APPENDIX 2B
LABORATORY REVIEW CHECKLIST

Laboratory Name: ASK Laboratories, Inc.
Project Name: Plantation Operating
Reviewer Name: Alan D. King

Date: 8/8/07
Laboratory ID#: 0708027

ASK Laboratories, Inc.

Analytical Services Kwik!

	YES	NO	NA	ER #	Initial calibration (ICAL)
S1	x				Were response factors and/or relative response factors for each analyte within QC limits?
S1	x				Were percent RSDs or correlation coefficient criteria met?
S1	x				Was the number of standards recommended in the method used for all analytes?
S1	x				Were all points generated between the lowest and highest standard used to calculate the curve?
S1	x				Are ICAL data available for all instruments used?
S1	x				Has the initial calibration curve been verified using an appropriate second source standard?

	YES	NO	NA	ER #	Initial and continuing calibration verification (ICCV and CCV) and cont
S2	x				Was the CCV analyzed at the method-required frequency?
S2	x				Were percent differences for each analyte within the method-required QC limits?
S2	x				Was the ICAL curve verified for each analyte?
S2	x				Was the absolute value of the analyte concentration in the inorganic CCB < MDL?

	YES	NO	NA	ER #	Mass spectral tuning
S3			x		Was the appropriate compound for the method used for tuning?
S3			x		Were ion abundance data within the method-required QC limits?

	YES	NO	NA	ER #	Internal standards (IS)
S4			x		Were IS area counts and retention times within the method-required QC limits?

	YES	NO	NA	ER #	Raw data
S5	x				Were the raw data (i.e. chromatograms, spectral data) reviewed by an analyst?
S5	x				Were data associated with manual integrations flagged on the raw data?

	YES	NO	NA	ER #	Dual column confirmation
S6			x		Did dual column confirmation results meet the method-required QC?

	YES	NO	NA	ER #	Tentatively identified compounds (TICs)
S7			x		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?

	YES	NO	NA	ER #	Interference Check Sample (ICS) results
S8			x		Were percent recoveries within method QC Limits?

	YES	NO	NA	ER #	Serial dilutions, post digestion spikes, and method of standard addtio
S9			x		Were percent differences, recoveries, and the linearity within the QC limits specified in the methc

	YES	NO	NA	ER #	Method detection limit (MDL) studies
S10	x				Was a MDL study performed for each reported analyte?
S10	x				Is the MDL either adjusted or supported by the analysis of DCSs?

	YES	NO	NA	ER #	Proficiency test reports
S11	x				Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation st

	YES	NO	NA	ER #	Standards documentations
S12	x				Are all standard used in the analyses NIST-traceable or obtained from other appropriate sources

	YES	NO	NA	ER #	Compound/analyte identification procedures
S13	x				Are the procedures for compound/analyte identification documented?

	YES	NO	NA	ER #	Demonstration of analyst competency (DOC)
S14	x				Was DOC conducted consistent with NELAC Chapter 5C ro ISO/IEC 4?
S14	x				Is documentation of the analyst's competency up-to-date and on file?

	YES	NO	NA	ER #	Verification/validation documentation for methods
S15	x				Are all the methods used to generate the data documented, verified, and validated, where applic

	YES	NO	NA	ER #	Laboratory standard operating procedures (SOPs)
S16	x				Are laboratory SOPs current and on file for each method performed?

5935 Glenoak Lane
Amarillo, Texas 79109
Telephone (806) 353-4425
Toll Free 1-800-423-9443
Facsimile (806) 352-6454

APPENDIX 3
LABORATORY EXCEPTION REPORTS

Laboratory Name: ASK Laboratories, Inc.
Project Name: Plantation Operating
Reviewer Name: Alan D. King

ASK Laboratories, Inc.

Laboratory ID#: 0708027

Exception Reports

Analytical Services Kwik!

There were no exceptions noted with this report.

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ASK Laboratories, Inc.

Analytical Services Kwik!

ASK LABORATORIES, INC.
5935 GLENOAK LANE
AMARILLO, TEXAS 79109

Attn: CUSTOMER SERVICES
Phone: (806) 353-4425

WHITE BUFFALO ENVIRO. SERVICE
5425 BEN FICKLIN ROAD
SAN ANGELO, TX 76904

Attn: GREG SWINDLE
Invoice Number:

Order #: 07-08-074
Date: 08/23/07 13:08
Work ID: SOIL SAMPLE
Date Received: 08/17/07
Date Completed: 08/23/07
Client Code: WHITE_BUFF

SAMPLE IDENTIFICATION

Sample Number	Sample Description	Sample Number	Sample Description
01	SOIL 5B		

Certified By
Alan D. King

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Amarillo, Texas 79109
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Toll Free 1-800-423-9443
Facsimile (806) 352-6454

Order # 07-08-074 **ASK LABORATORIES, INC.** **Page 2**
08/23/07 13:08

TEST RESULTS BY SAMPLE

Sample: 01A SOIL 5B **Collected: 08/16/07 12:00**

Test Description	Result	RL	Units	Analyzed	By
PERCENT SOLIDS - DRY WT.	95.47		wt % solids	08/21/07	BJP
CHLORIDE ON SOLIDS	<8.0	8.0	mg/kg	08/20/07	BNH

QA/QC INFORMATION

COMPOUND	RPD	SPIKE RECOVERY	QC RECOVERY	BLANK
CHLORIDE	0.8%	99%	102%	bdl

bdl = below reportable levels

TEST METHODOLOGIES

TEST CODE : SOLIDS TEST NAME : PERCENT SOLIDS FOR DRY WT CORRECTIONS

REFERENCE CLP PROTOCOL/ SECTION IV/ PART F

TEST CODE : CL_SOL TEST NAME : CHLORIDE ON SOLID

METHOD 300.0 : ION CHROMATOGRAPHY
METHODS FOR CHEMICAL ANALYSIS OF WATER AND WASTES,
EPA-600/4-79-020

5935 Glenoak Lane
Amarillo, Texas 79109
Telephone (806) 353-4425
Toll Free 1-800-423-9443
Facsimile (806) 352-6454

ASK Laboratories
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5935 Glenoak Lane
Amarillo, Texas 79109
Telephone: (806) 353-4425
Facsimile: (806) 352-6454

Chain of Custody Record

Work Order No. _____
Client Name White Buffalo Environmental Services
Project I.D./Location Plantation CT Bates #4
Address 5425 Ben Ficklin Rd.
Telephone 325-651-9054
Sampled By CE

Sample #	Date	Time	Matrix	Composite	Grab	Sample Description	No. of Containers	Analysis Required: Chloride	Remarks
01	8-16-07	12:00	Soil		X	Soil sb	1	X	
02									
03									
04									
05									
06									
07									
08									
09									
10									

Relinquished by: (Signature)	Date	Time	Received by: (signature)
Chad Lang	8-16-07	4:15	BDH
BDH	8-16-07	1630	BLS
BLS	8-17-07	9AM	S. King

Client Agrees to:

Accept Returned Sample ☐

Pay for sample Disposal ($30 per 100 grams) ☐

Client's Signature _____

Remarks:

	Yes	No
Headspace		X
Properly Sealed	X	
Chilled to 40° F	X	
Tamper Seal	X	

If Yes, Amt. _____
If No, Explain _____
If No, Temp. cortica/5.5°
Comments intact

Type of Container Glass

Additional Comments: 0708074

ASK LABORATORIES, INC

Login Checklist

Order # 0708074

Shipping Method: Bus Date/Time of Receipt: 8/17/07 / 0915

Cooler Check

Shipping Container	Ice in Cooler			Custody Seal				Tracking Number
			If No,	Present?		Intact?		
	Yes	No	Temperature	Yes	No	Yes	No	
Cooler	y		5.5°C		X			888494
	y							

Note: If the temperature of a cooler/sample is above 6°C fill out NCR.

Custody Seals on Bottles Present: Yes X No____
If Yes, is it intact? Yes X No____
If Not intact, fill out NCR

Condition of Containers:
Loose Caps: Yes____ No X
If Yes, fill out NCR

Broken Containers: Yes____ No X
If Yes, fill out NCR

Chain of Custody Included: Yes X No____
If Yes, verify receipt of all containers listed and all required fields are complete. Sign and Date COC and fill out laboratory boxes. Document any discrepancies on NCR.

Acid Preserved Samples: pH</=2 Yes NA No____
If No, fill out NCR
Solids

Base Preserved Samples: pH>/=12 Yes NA No____
If No, fill out NCR

Coolers Unpacked/Checked by: JRB **Date:** 08/17/07

NCRs (y/n): No **Faxed Confirmation (y/n):**____

5935 Glenoak Lane
Amarillo, TX 79109

KERRVILLE BUS COMPANY
1430 E. HOUSTON ST.
SAN ANTONIO, TEXAS 78202

OUT	CARRIER	IN	MO	DAY	YEAR	TIME	AM	PM	FORWARDING AGENCY NO.
	KBK		8	16	07	4:3?		X	1075

853494

ROUTING

☐ NBO ☐ OVERNIGHT ☐ STD ☐ INT'L ☐ SAME DAY

DESTINATION STATION CITY & STATE: Amarillo TX ZIP: 79109

To (Recipient's Name): ASK Lab Phone Number: 806-353-4425

Exact Street Address (Cannot deliver to P.O. Box or Zip Code): 5585 [illegible]

City: Amarillo State: TX Zip: 79109

From (Shipper's Name): [illegible] Phone Number: 325-[illegible]

Street Address: [illegible] City: San Angelo

Origin City: San Angelo State: TX Zip: [illegible]

FORWARDING AGENT: [illegible]

PICK-UP AGENT:

CHARGE ACCOUNT NO.

CASH	CHG	C.O.D.
	X	

Length X Width X Height

X X = ÷ 200 =

DIMENSIONAL WGT. COMPUTATION DIMENSIONAL WGT. LBS.

NO. OF PIECES: 1 ACTUAL WGT. (LBS): 7

TYPE OF CONTAINER: [illegible]

☐ ENV. ☐ BGGE. ☐ SACK ☐ CTN ☐ OTHER

PREPAID	CHARGES	COLLECT
15 90	EXPRESS	
	REFWD	
	VALUE	
	COLLECT/ C.O.D. FEE	
	SUB TOTAL	
	PICK-UP	
	DELIVERY	
	STORAGE	
	OTHER	
	C.O.D. AMOUNT	
15 90	TOTAL	

NOT NEGOTIABLE. SUBJECT TO TARIFF REGULATIONS. LIABILITY: This carrier will not pay loss or damages claims over $100 per shipment or $50 per package, whichever is greater, unless a greater value is declared and charges for greater value paid. Maximum valuation of any one shipment is limited by tariff. (See tariff for intrastate exceptions.) In no event shall the Carrier be liable for consequential or incidental damage for loss, damage or delay. Shipper agrees to these terms.

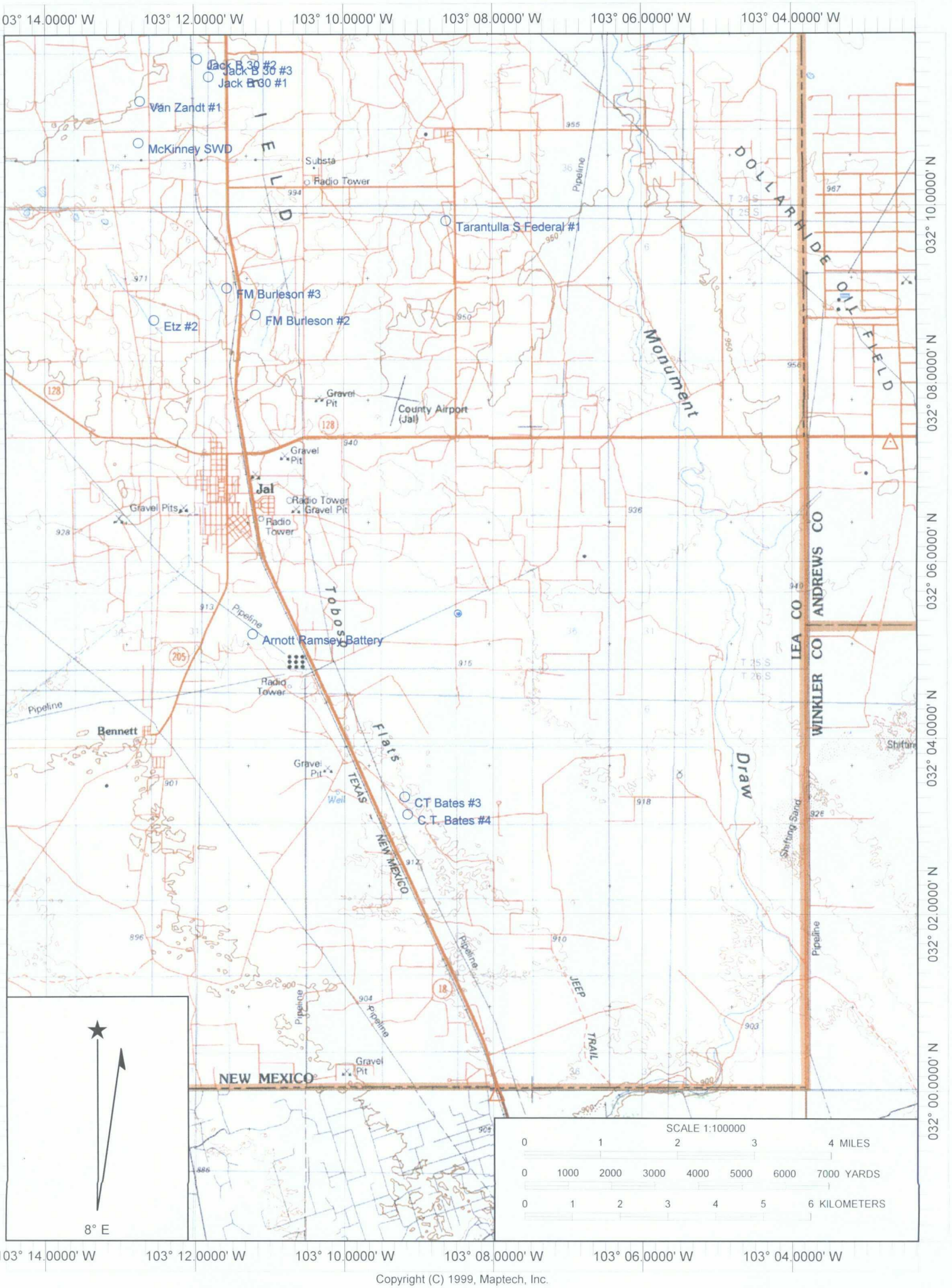
Shipper's Signature
X [signature]

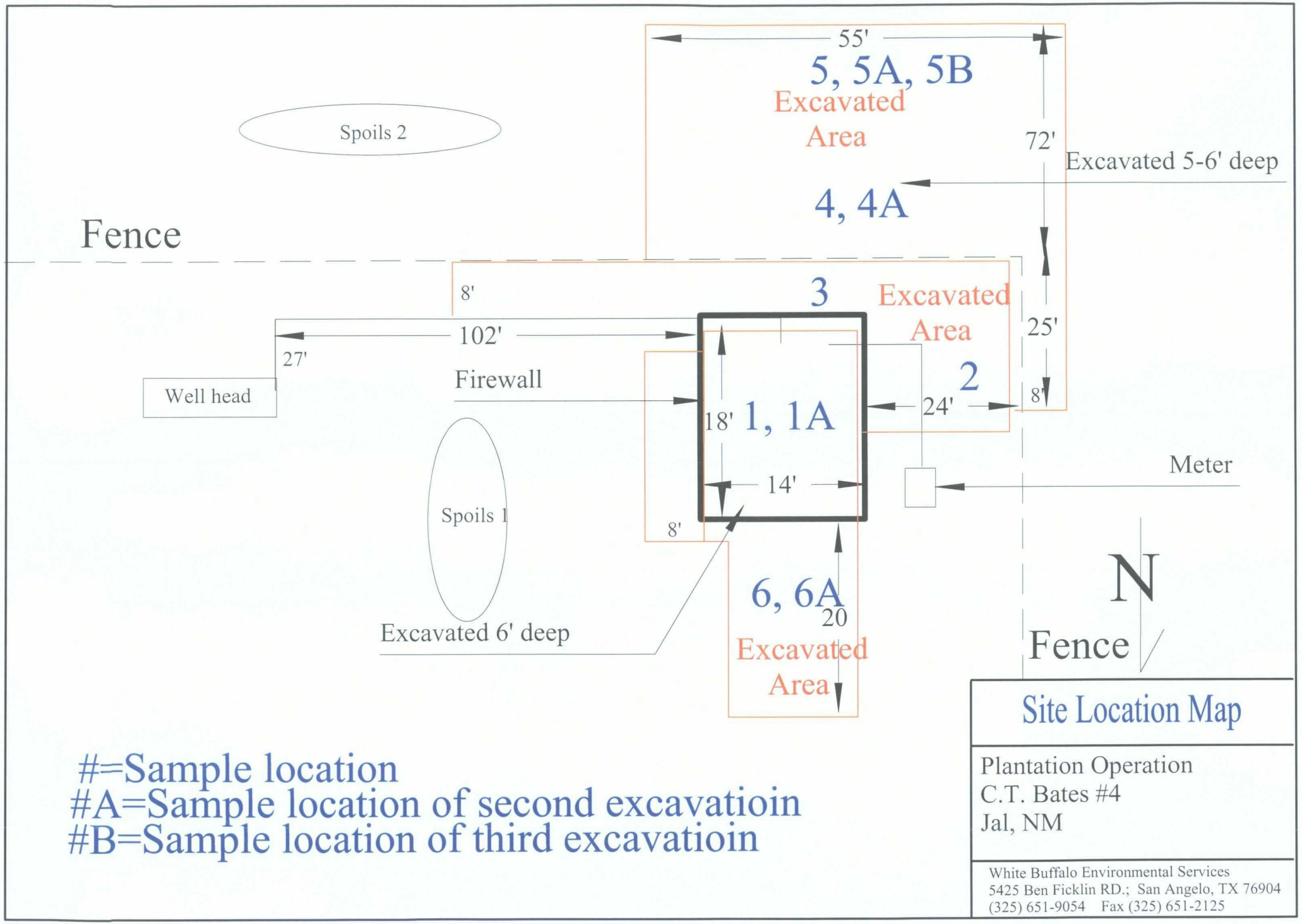
074

LABEL/DELIVERY

316D

Appendix B
USGS Map
Sample Map
Aerial Photograph





#=Sample location
#A=Sample location of second excavatioin
#B=Sample location of third excavatioin

Site Location Map

Plantation Operation
C.T. Bates #4
Jal, NM

White Buffalo Environmental Services
5425 Ben Ficklin RD.; San Angelo, TX 76904
(325) 651-9054 Fax (325) 651-2125


C.T. Bates #4
32° 3.147N, 103° 9.150W
Image © 2007 DigitalGlobe
© 2007 Europa Technologies
©2007 Google™


C.T. Bates #4
32° 3.147N, 103° 9.150W
Image © 2007 DigitalGlobe
© 2007 Google™

APPENDIX C
NOTIFICATION TO PROPER AUTHORITIES

V500

Invoic

Sundance Services Inc.
P.O. Box 1737
Eunice, NM 88231

DATE	INVOICE
7/31/2007	44406

$149.

BILL TO

Plantation Operating
309 W. 7th Street
STE 200
Fort Worth, TX 76102

Project	TERMS
CT BATES #4	

QUANTITY	DESCRIPTION	RATE	AMOUNT
10	Contaminated Soils - Exempt	14.00	140.(
	CT BATES #4		
	NM Sales Tax	6.6875%	9.3

880.15 GL ACCT

8494 PROP / AFE

hOE ACT / COST TYPE / JBS

DESC

RECEIVED
AUG 8 2007
By

Total $149

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

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company Plantation Operating, LLC	Contact John Allred
Address 2203 Timberloch Place, Suite 229 The Woodlands, TX 77380	Telephone No. 281-296-7222
Facility Name C.T. Bates #4 API #30-025-34404	Facility Type 120 BBL Test Tank

Surface Owner Johnny Chapman	Mineral Owner Plantation Operating, LLC	Lease No. 13411

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
N	10	26S	37E	660'	South	2145'	West	Lea

Latitude_____ **Longitude**_____

NATURE OF RELEASE

Type of Release Water	Volume of Release 30 BBLS	Volume Recovered 20 BBLS
Source of Release Lightning	Date and Hour of Occurrence 7/6/07 – 12:00 p.m.	Date and Hour of Discovery 7/7/07 – 8:00 a.m.
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Gary Wink	
By Whom? John Allred	Date and Hour 7/9/07 – 11:20 a.m.	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. N/A	

If a Watercourse was Impacted, Describe Fully.*

N/A

Describe Cause of Problem and Remedial Action Taken.*

Lightning hit fiberglass water tank 7/6/07 on Friday night. Called White Buffalo Environmental Services for proper clean up.

Describe Area Affected and Cleanup Action Taken.*

Area affected – 100 square feet off pad in pasture. Digging out contaminated dirt and hauling to landfill.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature:	OIL CONSERVATION DIVISION
Printed Name: John Allred	Approved by District Supervisor:
Title: Engineer	Approval Date: / Expiration Date:
E-mail Address: jallred@plantationpetro.com	Conditions of Approval: / Attached ☐
Date: 7/9/07 Phone: 281-296-7222	

* Attach Additional Sheets If Necessary

RANGE OPERATING NEW MEXICO, INC
Information and Metrics

Incident Date: 7/7/2007	**NMOCD Notified:** 7/9/2007 Gary Wink
Site: C.T. Bates #4	**Assigned Site Reference #:**
Company: Plantation Operating, LLC	
Street Address: 2203 Timberloch Place, Suite 229	
Mailing Address: 2203 Timbeloch Place, Suite 229	
City, State, Zip: The Woodlands, TX 77380	
Representative: John Allred	
Representative Telephone: (281) 293-7222	
Fluid volume released (bbls): 30 BBLS	**Recovered (bbls): 20 BBLS**
25 bbls: Notify NMOCD verbally within 24 hrs and submit form C-141 within 15 days.	
(Also applies to unauthorized releases >500 mcf Natural Gas)	
5 – 25 bbls: Submit form C-141 within 15 days	
Leak, Spill, or Pit (LSP) Name: *C.T. Bates #4*	
Source of contamination: Tank hit by lighten	
Land Owner, i.e., BLM, ST, Fee, Other: Johnny Chapman	
LSP Dimensions: 28' X 14' north and under tank, 72' X 55' on south side of tank and 8'x25' east of tank	
LSP Area: approximately 4552 square feet	
Location of Reference Point (RP): NA	
Location distance and direction from RP: NA	
Latitude: N 32° 3.147'	
Longitude: W 103° 9.150'	
Elevation above mean sea level: 3001' per GPS	
Location- Unit or ¼ ¼: SE/4 of SW/4 of Sec 10	**Unit Letter:** N
Location Section: 10	
Location- Township: 26S	
Location Range: 37E	
Surface water body within 1000' radius of site: No 6 miles per USGS Map per OCD records	
Domestic water wells within 1000' radius of site: No per OCD records and USGS	
Agricultural water wells within 1000' radius of site: No per OCD records and USGS	
Depth from land surface to ground water (DG): 86' estimated based on OCD records per Chris Williams	
Depth of contamination (DC): 6'	
Depth to ground water (DG – DC = DtGW): 80'	

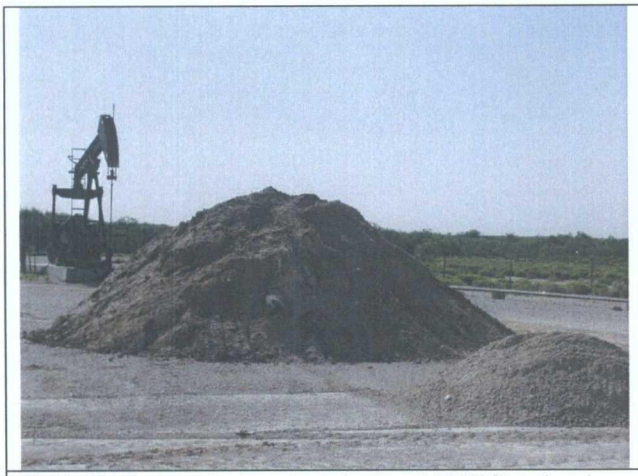
1. Ground water	2. Wellhead Protection Area	3. Distance to Surface Water Body
If Depth to GW <50 feet: 20 points	If <1000' from water source, or <200' from private domestic water source: 20 points	<200 horizontal feet: 20 points
If Depth to GW 50 to 99 feet: 10 points		200-100 horizontal feet: 10 points
If Depth to GW >100 feet: 0 points	If >1000' from water source, or >200' from private domestic water source: 0 points	>1000 horizontal feet: 0 points
Ground Water Score = 10	Wellhead Protection Area Score = 0	Surface Water Score = 0
Site Rank (1+2+3) = 10		

Total Site Ranking Score and Acceptable Concentrations

Parameter	>19	10-19	0-9
Benzene	10 ppm	10 ppm	10 ppm
BTEX	50 ppm	50 ppm	50 ppm
TPH	100 ppm	1,000 ppm	5,000 ppm

APPENDIX D
PHOTOGRAPHS

Plantation Operating
C.T. Bates #4
Jal, NM
7-11-07 thru 8-16-07



7-13-07 Excavated material when WBES arrived on site

7-13-07 site facing south

7-13-07 site facing south tank firewall area

7-13-07 area south of firewall across fence where Plantation excavated prior to WBES arrival

7-13-07 excavating area west of tank battery area

7-13-07 excavating area west of tank battery area

Plantation Operating
C.T. Bates #4
Jal, NM
7-11-07 thru 8-16-07

7-13-07 excavating area west of tank battery area

7-13-07 excavating area south of tank battery area

7-13-07 excavating area west of tank battery area across fence

7-13-07 excavating area south of tank battery area across fence

7-13-07 excavating area south of tank battery area across fence

7-13-07 excavating area south of tank battery area across fence

Plantation Operating
C.T. Bates #4
Jal, NM
7-11-07 thru 8-16-07

7-13-07 RMA employees removing contaminated soil from around piping

7-13-07 RMA excavated contaminated soil from around piping

7-13-07 standing on former firewall area facing south after excavation

8-1-07 Area prior to second excavation

8-1-07 Area prior to second excavation

8-1-07 Area prior to second excavation

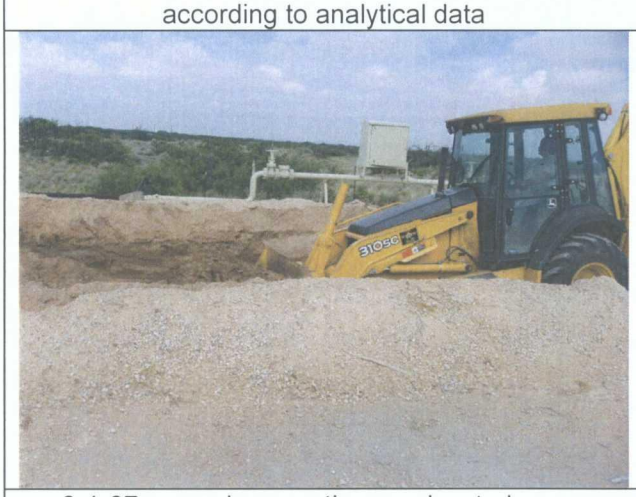
Plantation Operating
C.T. Bates #4
Jal, NM
7-11-07 thru 8-16-07

8-1-07 second excavation on elevated areas according to analytical data

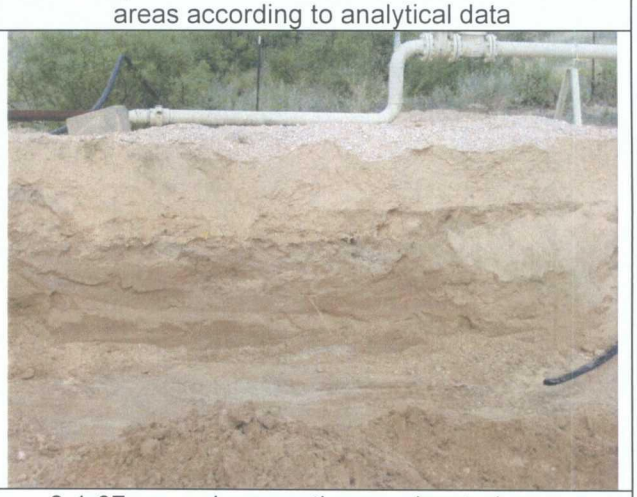
8-1-07 second excavation on elevated areas according to analytical data

8-1-07 second excavation on elevated areas according to analytical data

8-1-07 Spoils from second excavation on elevated areas according to analytical data



8-1-07 second excavation on elevated areas according to analytical data. Excavated approximately 6 feet in firewall area



8-1-07 second excavation on elevated areas according to analytical data. Excavated approximately 6 feet in firewall area

Plantation Operating
C.T. Bates #4
Jal, NM
7-11-07 thru 8-16-07

8-1-07 second excavation on elevated areas according to analytical data. Excavated approximately 6 feet in firewall area

8-1-07 second excavation on elevated areas according to analytical data. Excavated approximately 6 feet in firewall area

8-1-07 second excavation on elevated areas according to analytical data. Excavated approximately 6 feet in firewall area

8-1-07 second excavation on elevated areas according to analytical data. Excavated approximately 3 feet in area north of firewall

8-1-07 second excavation on elevated areas according to analytical data. Excavated approximately 3 feet in area north of firewall

8-1-07 second excavation on elevated areas according to analytical data. Excavated approximately 3 feet in area north of firewall

Plantation Operating
C.T. Bates #4
Jal, NM
7-11-07 thru 8-16-07

8-1-07 second excavation on elevated areas according to analytical data. Excavated approximately 3 feet in area north of firewall

8-1-07 second excavation on elevated areas according to analytical data. Excavated approximately 3 feet in area north of firewall

8-1-07 second excavation on elevated areas according to analytical data. Excavated approximately 3 additional feet in area south of firewall across fence

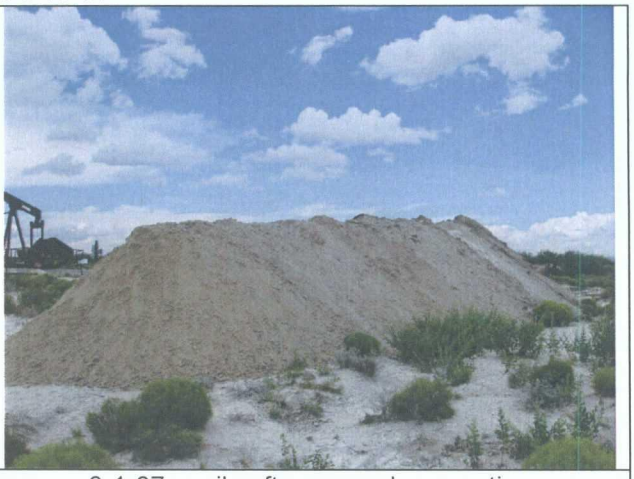
8-1-07 second excavation on elevated areas according to analytical data. Excavated approximately 3 additional feet in area south of firewall across fence

Plantation Operating
C.T. Bates #4
Jal, NM
7-11-07 thru 8-16-07

8-1-07 second excavation on elevated areas according to analytical data. Excavated approximately 3 additional feet in area south of firewall across fence	8-1-07 second excavation on elevated areas according to analytical data. Excavated approximately 3 additional feet in area south of firewall across fence
	
8-1-07 second excavation on elevated areas according to analytical data. Excavated approximately 3 additional feet in area south of firewall across fence	8-1-07 second excavation on elevated areas according to analytical data. Excavated approximately 3 additional feet in area south of firewall across fence
	
8-1-07 second excavation on elevated areas according to analytical data. Excavated approximately 3 additional feet in area south of firewall across fence	8-1-07 second excavation on elevated areas according to analytical data. Excavated approximately 3 additional feet in area south of firewall across fence

Plantation Operating
C.T. Bates #4
Jal, NM
7-11-07 thru 8-16-07

8-1-07 second excavation on elevated areas according to analytical data. Excavated approximately 3 additional feet in area south of firewall across fence



8-1-07 spoils after second excavation

8-1-07 spoils after second excavation

8-1-07 site and spoils after second excavation

8-1-07 site and spoils after second excavation

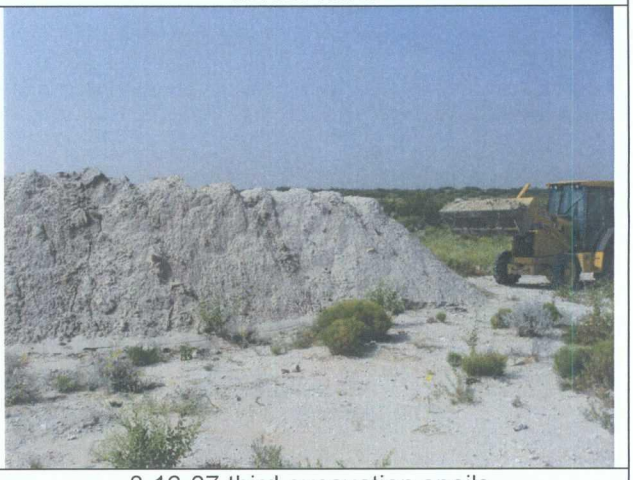
8-16-07 site prior to third excavation south of firewall area across fence

Plantation Operating
C.T. Bates #4
Jal, NM
7-11-07 thru 8-16-07

8-16-07 third excavation south of firewall area across fence

8-16-07 third excavation south of firewall area across fence

8-16-07 third excavation south of firewall area across fence

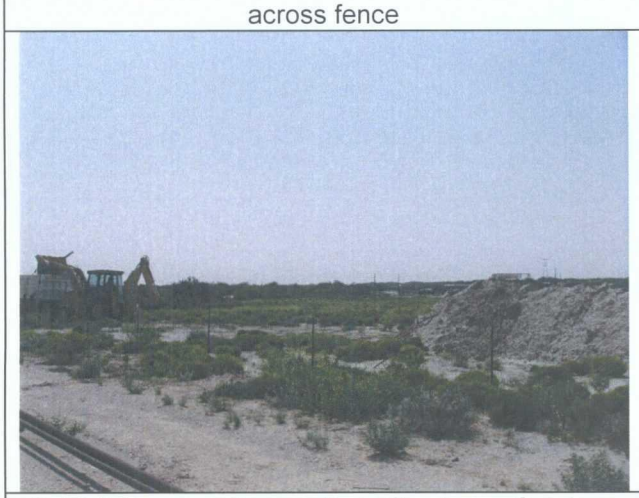


8-16-07 third excavation spoils

8-16-07 third excavation south of firewall area across fence

8-16-07 third excavation south of firewall area across fence

Plantation Operating
C.T. Bates #4
Jal, NM
7-11-07 thru 8-16-07

	
8-16-07 third excavation south of firewall area across fence	8-16-07 transporting spoils to Sundance Services Inc. located in Eunice, NM
	
8-16-07 transporting spoils to Sundance Services Inc. located in Eunice, NM	