

NM1 - 43

**MONITORING  
REPORTS**

**YEAR(S):**

2007 - 2004



# ARDINAL LABORATORIES

## RECEIVED

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

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

**2007 AUG 30 AM 11 05**ANALYTICAL RESULTS FOR  
LOCO HILLS LANDFARM  
ATTN: ANDREW LIVINGSTON  
P.O. BOX 2093  
LOVINGTON, NM 88260  
FAX TO:*NM 01-0043*Receiving Date: 08/09/07  
Reporting Date: 08/13/07  
Project Number: 04-07  
Project Name: PERMIT NM 01-0043  
Project Location: S/2 SW/4 32-16S-30ESampling Date: 08/09/07  
Sample Type: SOIL  
Sample Condition: COOL & INTACT  
Sample Received By: AB  
Analyzed By: BC/AB

LAB NO.	SAMPLE ID	GRO (C <sub>6</sub> -C <sub>10</sub> ) (mg/Kg)	DRO (>C <sub>10</sub> -C <sub>28</sub> ) (mg/Kg)	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS DATE:		08/10/07	08/10/07	08/10/07	08/10/07	08/10/07	08/10/07
H13058-1	VADA ZONE 2' DEEP	<10.0	<10.0	<0.002	<0.002	<0.002	<0.006
H13058-2	AC. 1-1,2,15,16 COMP	<10.0	393	<0.002	<0.002	<0.002	<0.006
H13058-3	AC. 2-3,4,13,14 COMP	<10.0	650	<0.002	<0.002	<0.002	<0.006
H13058-4	AC. 3-5,6,11,12 COMP	<10.0	615	<0.002	<0.002	<0.002	<0.006
H13058-5	AC. 4-7,8,9,10 COMP	<10.0	296	<0.002	<0.002	<0.002	<0.006
H13058-6	AC. 5-24,23,25,26 COMP	<10.0	123	<0.002	<0.002	<0.002	<0.006
H13058-7	AC. 6-22,21,27,28 COMP	<10.0	93.5	<0.002	<0.002	<0.002	<0.006
H13058-8	AC. 7-20,19,29,30 COMP	<10.0	<10.0	<0.002	<0.002	<0.002	<0.006
H13058-9	AC. 8-18,17,31,32 COMP	<10.0	129	<0.002	<0.002	<0.002	<0.006
		<i>AV. 287.4</i>					
Quality Control		771	782	0.103	0.105	0.106	0.324
True Value QC		800	800	0.100	0.100	0.100	0.300
% Recovery		96.4	97.8	103	106	106	108
Relative Percent Difference		0.8	1.8	0.7	2.4	1.8	1.9

METHODS: TPH GRO &amp; DRO - EPA SW-846 8015 M; BTEX - SW-846 8021B.

  
Burgess J. A. Cooke, Ph. D.  
Date

H13058 LOCO

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.

cell #2



cell #1

32 17 AC-7 129 31 18	16 1 AC-1 DRO 393 15 2
30 19 AC-7 29 20 <10.0	14 3 AC-2 13 650 4
28 21 AC-6 27 22 93.5	12 5 AC-3 615 11 6
26 23 AC-5 123 25 24	10 7 AC-4 296 9 8

cell #1  
is 70 to 80%  
caliche + rock  
20% sand +  
soil.

the odor  
is almost  
gone will  
keep turning  
it over and  
sampling it.

AV. DRO. 287.4  
Not taking  
any more in  
cell #1 until  
approval for another  
lift.

opened cell  
#2



# ARDINAL LABORATORIES

PHONE (325) 673-7000 • 2411 BEECHWOOD • ABILENE, TX 79603

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

2007 JUL 6 PM 3 46

ANALYTICAL RESULTS FOR  
LOCO HILLS LAND FARM  
ATTN: ANDREW LIVINGSTON  
P.O. BOX 2093  
LOVINGTON, NM 88260

*NM 0043*

Receiving Date: 06/04/07  
Reporting Date: 06/19/07  
Project Number: 3-07  
Project Name: PERMIT NM 01-0043  
Project Location: S/2 SW/4 32-16S 30E

FAX TO:

Sampling Date: 06/04/07  
Sample Type: SOIL  
Sample Condition: COOL & INTACT  
Sample Received By: BC  
Analyzed By: HM

### TOTAL METALS

LAB NO.	SAMPLE ID	As (ppm)	Ag (ppm)	Ba (ppm)	Cd (ppm)	Cr (ppm)	Pb (ppm)	Hg (ppm)	Se (ppm)
---------	-----------	-------------	-------------	-------------	-------------	-------------	-------------	-------------	-------------

ANALYSIS DATE:	06/12/07	06/08/07	06/10/07	06/06/07	06/08/07	06/08/07	06/10/07	06/13/07
H02698-1 TREATMENT	3.1	< 5.0	455	7.1	5.45	12.0	< 0.1	< 0.5
ZONE 2' DEEP								
Quality Control	0.161	2.06	71.1	2.04	2.03	1.96	0.0041	0.048
True Value QC	0.150	2.00	75.0	2.00	2.00	2.00	0.0040	0.050
% Accuracy	107	103	94.8	102	102	98	103	96
Relative Percent Difference	4.7	0.1	4.8	0.2	0.3	1.9	2.4	1.6

METHODS: EPA 600/4-79-020	206.2	272.1	208.1	213.1	218.1	239.1	245.1	270.2
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Al (ppm)	Co (ppm)	Cu (ppm)	Fe (ppm)	Mn (ppm)	Mo (ppm)	Ni (ppm)	Zn (ppm)
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ANALYSIS DATE:	06/18/07	06/18/07	06/18/07	06/18/07	06/18/07	06/18/07	06/18/07	06/15/07
H02698-1 TREATMENT	7135	16.5	5.45	7732	132	< 5.0	16.6	18.5
ZONE 2' DEEP								
Quality Control	12.9	2.02	1.93	2.05	1.93	4.24	2.04	0.481
True Value QC	15.0	2.00	2.00	2.00	2.00	4.00	2.00	0.500
% Accuracy	86	101	96.5	103	96.5	106	102	96.2
Relative Percent Difference	1.9	0.8	0.3	0.2	0.4	1.1	0.5	10.7

METHODS: EPA 600/4-79-020	202.1	219.1	220.1	236.1	243.1	246.1	249.1	289.1
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*Joseph S. Moreno*  
\_\_\_\_\_  
Chemist

*06-19-07*  
\_\_\_\_\_  
Date

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

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

ANALYTICAL RESULTS FOR  
LOCO HILLS LAND FARM  
ATTN: ANDREW LIVINGSTON  
P.O. BOX 2093  
LOVINGTON, NM 88260  
FAX TO.

Receiving Date: 06/04/07  
Reporting Date: 06/08/07  
Project Number: 3-07  
Project Name: PERMIT NM 01-0043  
Project Location: S/2 SW/4 32-16S-30E

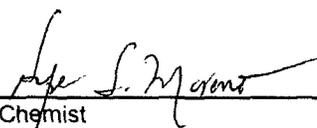
Sampling Date: 06/04/07  
Sample Type: SOIL  
Sample Condition: COOL & INTACT  
Sample Received By: BC  
Analyzed By: AB

LAB NUMBER	SAMPLE ID	Na (mg/L)	Ca (mg/L)	Mg (mg/L)	K (mg/L)	Conductivity ( $\mu$ S/cm)	T-Alkalinity (mgCaCO <sub>3</sub> /L)
ANALYSIS DATE:		06/06/07	06/05/07	06/05/07	06/06/07	06/05/07	06/05/07
H12698-1	TREATMENT ZONE 2' DEEP	0	90	23	29	356	52
Quality Control		NR	49.2	54.1	1.97	1386	NR
True Value QC		NR	50.0	50.0	2.00	1413	NR
% Recovery		NR	98.5	108	98.4	98.1	NR
Relative Percent Difference		NR	<0.1	3.2	4.5	4.4	NR

METHODS:	SM3500-Ca-D	3500-Mg E	8049	120.1	310.1
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	Cl <sup>-</sup> (mg/L)	SO <sub>4</sub> (mg/L)	CO <sub>3</sub> (mg/L)	HCO <sub>3</sub> (mg/L)	pH (s.u.)	
ANALYSIS DATE:		06/05/07	06/05/07	06/05/07	06/05/07	
H12698-1	TREATMENT ZONE 2' DEEP	64	57.4	0	63	7.77
Quality Control		480	24.8	NR	976	6.90
True Value QC		500	25.0	NR	1000	7.00
% Recovery		96.0	99.3	NR	97.6	98.6
Relative Percent Difference		<0.1	7.4	NR	<0.1	0.4

METHODS:	SM4500-Cl-B	375.4	310.1	310.1	150.1
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\_\_\_\_\_  
Chemist

06-08-07  
\_\_\_\_\_  
Date

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

ANALYTICAL RESULTS FOR  
 LOCO HILLS LAND FARM  
 ATTN: ANDREW LIVINGSTON  
 P.O. BOX 2093  
 LOVINGTON, NM 88260

Receiving Date: 06/04/07  
 Reporting Date: 06/11/07  
 Project Number: 3-07  
 Project Name: PERMIT NM 01-0043  
 Project Location: S/2 SW/4 32-16S 30 E

Sampling Date: 06/04/07  
 Sample Type: SOIL  
 Sample Condition: COOL & INTACT  
 Sample Received By: BC  
 Analyzed By: BC

LAB NUMBER	SAMPLE ID	GRO (C <sub>6</sub> -C <sub>10</sub> ) (mg/Kg)	DRO (>C <sub>10</sub> -C <sub>28</sub> ) (mg/Kg)
	ANALYSIS DATE	06/07/07	06/07/07
H12698-1	Treatment Zone 2' Deep	<10.0	<10.0
H12698-2	Remediated Soil 5 Spot	<10.0	330
	Cell #1		
	Quality Control	780	758
	True Value QC	800	800
	% Recovery	97.5	94.8
	Relative Percent Difference	3.8	5.1

METHODS: TPH GRO & DRO: EPA SW-846 8015 M

  
 Chemist

6/11/07  
 Date

H12698A LOCO

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ANALYTICAL RESULTS FOR  
 LOCO HILLS LAND FARM  
 ATTN: ANDREW LIVINGSTON  
 P.O. BOX 2093  
 LOVINGTON, NM 88260

Receiving Date: 06/04/07  
 Reporting Date: 06/06/07  
 Project Number: 3-07  
 Project Name: PERMIT NM 01-0043  
 Project Location: S/2 SW/4 32-16S 30 E

Sampling Date: 06/04/07  
 Sample Type: SOIL  
 Sample Condition: COOL & INTACT  
 Sample Received By: BC  
 Analyzed By: LB

LAB NUMBER	SAMPLE ID	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL BENZENE (mg/kg)	TOTAL XYLENES (mg/kg)
	ANALYSIS DATE	06/04/07	06/04/07	06/04/07	06/04/07
H12698-1	Treatment Zone 2' Deep	<0.002	<0.002	<0.002	<0.006
H12698-2	Remediated Soil 5 Spot Cell #1	<0.002	<0.002	0.009	0.006
	Quality Control	0.098	0.102	0.102	0.311
	True Value QC	0.100	0.100	0.100	0.300
	% Recovery	99	102	102	104
	Relative Percent Difference	2.8	3.0	3.6	3.7

METHOD: EPA SW-846 8021B

Bryan J. Cook  
 Chemist

6/6/07  
 Date

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# ARDINAL LABORATORIES

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

2006 OCT 2 PM 3:39

ANALYTICAL RESULTS FOR  
LOCO HILLS LANDFARM  
ATTN: KEN LIVINGSTON  
P.O. BOX 2093  
LOVINGTON, NM 88260  
FAX TO:

Receiving Date: 09/08/06  
Reporting Date: 09/11/06  
Project Number: NOT GIVEN  
Project Name: PERMIT NM 01-0043  
Project Location: S/2 SW/4 32 16 S 30 E

Sampling Date: NOT GIVEN  
Sample Type: SOIL  
Sample Condition: COOL & INTACT  
Sample Received By: BC  
Analyzed By: BC

LAB NO.	SAMPLE ID	GRO (C <sub>6</sub> -C <sub>10</sub> ) (mg/Kg)	DRO (>C <sub>10</sub> -C <sub>28</sub> ) (mg/Kg)	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS DATE:		09/08/06	09/08/06	09/08/06	09/08/06	09/08/06	09/08/06
H11519-1	TREATMENT ZONE 3' DEEP	<10.0	<10.0	<0.005	<0.005	<0.005	<0.015
H11519-2	REMEDIATED SOIL 5 SPOT	<10.0	862	<0.005	<0.005	<0.005	<0.015
	CELL #1						
Quality Control		783	779	0.108	0.096	0.100	0.290
True Value QC		800	800	0.100	0.100	0.100	0.300
% Recovery		97.9	97.4	108	95.6	99.5	96.6
Relative Percent Difference		3.6	2.4	5.7	5.0	0.2	0.6

METHODS: TPH GRO & DRO - EPA SW-846 8015 M; BTEX - SW-846 8260.

  
Burgess A. Cooke, Ph.D.

9/11/06  
Date

H11519

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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

## CARDINAL LABORATORIES, INC.

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

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

Company Name: <b>Loco Hills Land Farm</b>		P.O. #:		ANALYSIS REQUEST	
Project Manager: <b>Ken Livingston</b>		Company: <b>L H L F</b>			
Address: <b>PO Box 2093</b>		Attn: <b>Ken Livingston</b>			
City: <b>Livingston</b>		Address: <b>PO Box 2093</b>			
Phone #: _____		City: <b>Livingston</b>			
Project #: _____		State: <b>WY</b>			
Project Name: <b>Permit NM 01-0043</b>		State: <b>WY</b>			
Project Location: <b>1/2 SW/4 32 16 S 30 E</b>		Phone #: <b>363-8497</b>			
Sampler Name: _____		Fax #: _____			
FOR LAB USE ONLY		PRESERV.		DATE	
Lab I.D. <b>Sample I.D.</b>		ICE / COOL			
		ACID/BASE:			
4/15/91 Treatment Zone 3 deep		OTHER:			
		SLUDGE			
2 Remediated Soil Spot cell 4		OIL			
		SOIL			
		WASTEWATER			
		GROUNDWATER			
		# CONTAINERS			
		(GRAB OR COMP.)			
		SAMPLING			

W 5/8 1 P H X X  
D T O X X X

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

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Sampler Relinquished: _____		Date: <b>4-8-06</b>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Relinquished By: <b>Shandi Dwyer</b>		Time: <b>12:10</b>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Delivered By: (Circle One)		Date: <b>4/15/06</b>		REMARKS:	
Sampler - UPS - Bus - Other:		Time: <b>12:10</b>			
Received By: (Lab Staff)		Sample Condition			
<b>Burgess, D. Cook</b>		Temp, °C: <b>cool</b>			
		Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
		Checked By: _____			
		(Initials)			

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

**Loco Hills Landfarm**

**P.O. Box 1152**  
**Artesia, NM 88210** 2005 JUN 31 PM 2 51  
**505-365-8497**

Mr. Wayne Price  
Oil Conservation Division  
1220 St. Francis Drive  
Santa Fe, New Mexico 87505

Dear Mr. Price,

Enclosed please find the soil samples for Loco Hills Landfarm. If you have any questions please contact Ken Livingston at 505-365-8497. Thank You.

Sincerely,



Irene Livingston  
Loco Hills Landfarm





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

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

ANALYTICAL RESULTS FOR  
 LOCO HILLS LANDFARM  
 ATTN: KEN LIVINGSTON  
 P.O. BOX 2093  
 LOVINGTON, NM 88260  
 FAX TO:

Receiving Date: 06/13/06  
 Reporting Date: 06/26/06  
 Project Number: 1  
 Project Name: PERMIT NM-01-0043  
 Project Location: S/2 SW/4 32-16S-30E

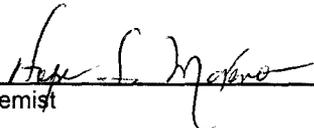
Sampling Date: 06/12/06  
 Sample Type: SOIL  
 Sample Condition: COOL AND INTACT  
 Sample Received By: HM  
 Analyzed By: HM

WQCC METALS

LAB NUMBE SAMPLE ID                      As            Ag            Ba            Cd            Cr            Pb            Hg            Se  
    ppm           ppm           ppm           ppm           ppm           ppm           ppm           ppm

ANALYSIS DATE:	06/23/06	06/20/06	06/21/06	06/20/06	06/20/06	06/20/06	06/23/06	06/26/06
H11223-1 TREATMENT ZONE	1.75	1.1	< 1	2.050	7.5	18.9	< 0.02	0.1
Quality Control	0.147	4.812	26.6	1.01	1.046	1.90	0.0205	0.049
True Value QC	0.150	5.000	25.0	1.00	1.000	2.00	0.0200	0.050
% Recovery	98	96	106	101	105	95	103	98
Relative Percent Difference	7.3	0.1	1.7	0.3	0.1	0.8	2.4	7.3

METHODS: EPA 600/4-79-020	206.2	272.1	208.1	213.1	218.2	239.1	245.1	270.2
METHODS: SW-846	7060A	7760A	7080A	7130	7190	7420	7470A	7740

  
 Chemist

06-26-06  
 Date

H11223M

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ANALYTICAL RESULTS FOR  
 LOCO HILLS LANDFARM  
 ATTN: KEN LIVINGSTON  
 P.O. BOX 2093  
 LOVINGTON, NM 88260

Receiving Date: 06/13/06  
 Reporting Date: 06/23/06  
 Project Number: 1  
 Project Name: PERMIT NM-01-0043  
 Project Location: S/2 SW/4 32-16S-30E

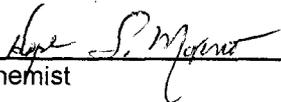
FAX TO:

Sampling Date: 06/12/06  
 Sample Type: SOIL  
 Sample Condition: COOL AND INTACT  
 Sample Received By: HM  
 Analyzed By: HM

### WQCC METALS

LAB NUMBER	SAMPLE ID	Al (ppm)	Co (ppm)	Cu (ppm)	Fe (ppm)
ANALYSIS DATE:		06/21/06	06/20/06	06/19/06	06/20/06
H11223-1	TREATMENT ZONE	8690	8.4	7.6	8728
Quality Control		9.29	1.848	0.985	4.967
True Value QC		10.00	2.000	1.000	5.000
% Recovery		93	92	99	99
Relative Percent Difference		4.3	0.7	0.7	0.8
METHODS: EPA 600/04-79-020		202.1	219.1	220.1	236.1

		Mn (ppm)	Mo (ppm)	Ni (ppm)	Zn (ppm)
ANALYSIS DATE:		06/19/06	06/21/06	06/19/06	06/19/06
H11223-1	TREATMENT ZONE	171	16.5	21.1	20.4
Quality Control		4.04	0.964	2.95	0.505
True Value QC		4.00	1.000	3.00	0.500
% Recovery		101	96	98	101
Relative Percent Difference		0.1	4.7	0.6	0.5
METHODS: EPA 600/04-79-020		243.1	246.1	249.1	289.1

  
 Chemist

06-23-06  
 Date

H11223

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

ANALYTICAL RESULTS FOR  
 LOCO HILLS LANDFARM  
 ATTN: KEN LIVINGSTON  
 P.O. BOX 2093  
 LOVINGTON, NM 88260  
 FAX TO:

Receiving Date: 06/13/06  
 Reporting Date: 06/20/06  
 Project Number: 1  
 Project Name: PERMIT NM-01-0043  
 Project Location: S/2 SW/4 32-16S-30E

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

LAB NUMBER	SAMPLE ID	Na (mg/kg)	Ca (mg/kg)	Mg (mg/kg)	K (mg/kg)	Conductivity (uS/cm)	T-Alkalinity (mgCaCO <sub>3</sub> /kg)
ANALYSIS DATE:		06/19/06	06/19/06	06/19/06	06/19/06	06/19/06	06/19/06
H11223-1	TREATMENT ZONE	16	128	0	2.44	205	160
Quality Control		NR	48.0	48.6	1.78	1430	NR
True Value QC		NR	50.0	50.0	2.00	1413	NR
% Recovery		NR	96	97	89	100	NR
Relative Percent Difference		NR	0.0	0.0	12	0.1	NR

METHODS:	SM3500-Ca-D	3500-Mg E	8049	120.1	310.1
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	Cl <sup>-</sup> (mg/kg)	SO <sub>4</sub> (mg/kg)	CO <sub>3</sub> (mg/kg)	HCO <sub>3</sub> (mg/kg)	pH (s.u.)	TDS (mg/kg)
ANALYSIS DATE:		06/19/06	06/19/06	06/19/06	06/19/06	06/19/06
H11223-1	TREATMENT ZONE	48	125	0	195	7.74
Quality Control		980	28.2	NR	976	7.02
True Value QC		1000	25.0	NR	1000	7.00
% Recovery		98	113	NR	98	100
Relative Percent Difference		2.0	12	NR	0.0	0.3

METHODS:	SM4500-Cl-B	375.4	310.1	310.1	150.1	160.1
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NOTE: Analysis performed on a 1:4 w:v aqueous extract.

Hope S. Moreno  
 Chemist

06-20-06  
 Date

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ANALYTICAL RESULTS FOR  
 LOCO HILLS LANDFARM LLC  
 ATTN: KENDALL LIVINGSTON  
 P.O. BOX 1152  
 ARTESIA, NM 88210  
 FAX TO: (505) 748-1230

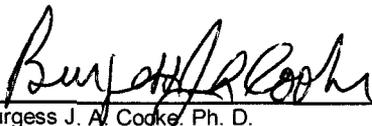
Receiving Date: 08/31/04  
 Reporting Date: 09/01/04  
 Project Number: NOT GIVEN  
 Project Name: PRE-APPROVAL SAMPLES  
 Project Location: NOT GIVEN

Sampling Date: 08/30/04  
 Sample Type: SOIL  
 Sample Condition: COOL & INTACT  
 Sample Received By: BC  
 Analyzed By: BC/AH

LAB NO.	SAMPLE ID	TPH (mg/Kg)	CI* (mg/Kg)	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS DATE:		08/31/04	09/01/04	08/31/04	08/31/04	08/31/04	08/31/04
H9105-1	CELL #2	<10	80	<0.005	<0.005	<0.005	<0.015
H9105-2	CELL #3	<10	48	<0.005	<0.005	<0.005	<0.015
H9105-3	CELL #1	<10	48	<0.005	<0.005	<0.005	<0.015
Quality Control		238	990	0.099	0.095	0.102	0.320
True Value QC		240	1000	0.100	0.100	0.100	0.300
% Recovery		99.3	99	99.32	95.4	102	107
Relative Percent Difference		1.0	2.0	0.7	4.8	1.9	6.3

METHODS: TRPHC-EPA 600/4-79-020 418.1; CI-Std. Methods 4500-CI'B; BTEX-EPA SW-846 8260

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

  
 Burgess J. A. Cooke, Ph. D.

9/1/04  
 Date

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# 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 \_\_\_\_ of \_\_\_\_

Company Name: <u>Low Hills Livestock Farm LLC</u>		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>															
Project Manager: <u>Kendall Livingston</u>		P.O. #:																	
Address: <u>P.O. Box 1152</u>		Company:																	
City: <u>Artesia</u>		Attn:																	
State: <u>NM</u> zip: <u>88210</u>		Address:																	
Phone #: <u>505-365-4772</u> Fax #: <u>505-748-1230</u>		City:																	
Project #: _____ Project Owner:		State:		Zip:															
Project Name: <u>Pre-approved Samples</u>		Phone #:																	
Project Location: _____		Fax #:																	
Sampler Name: <u>Kendall Livingston</u>		PRESERV		SAMPLING															
FOR LAB USE ONLY																			
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	MATRIX	PRESERV	SAMPLING	DATE	TIME	TPH 418.1	chlorides	B-Tex									
		# CONTAINERS									GROUNDWATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:
U9105-1	Cell #2	G 1				8-30-04	1:00PM	✓											
-2	Cell #3	G 1				8-30-04	1:45PM	✓											
-3	Cell #1	G 1				8-30-04	12:30PM	✓											

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Relinquished By: \_\_\_\_\_ Date: 8/31/04 Received By: (Lab Staff) \_\_\_\_\_  
 Time: \_\_\_\_\_

Delivered By: (Circle One) UPS Bus Other Sample Condition:  Intact  Cool  Yes  No

Checked By: \_\_\_\_\_ (Initials)

REMARKS: \_\_\_\_\_

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

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