

NM1 - 34

MONITORING REPORT

YEAR(S):

2013-2014

Jones, Brad A., EMNRD

From: Jones, Brad A., EMNRD
Sent: Thursday, July 02, 2015 2:09 PM
To: 'Rena Seay'
Subject: RE: Landfarm Rule Modification

Eddy,

Each letter provided instructions if approval of a modification could not be demonstrated. Below is the paragraph from each letter with the instructions underlined.

C&C Landfarm:

“OCD has reviewed the administrative files for the facility and determined that the vadose zone monitoring frequency changed from the permit condition “The soil samples will be analyzed using approved EPA methods for TPH and BTEX quarterly, and for major cations/anions and heavy metals annually,” to semi-annual in 2008. OCD has been unable to locate C&C’s modification request for the change in sampling frequency or OCD’s approval for such a modification request. Please provide OCD a copy of C&C’s modification request and OCD approval in order to continue the semi-annual sampling frequency. If C&C is unable to demonstrate the approval, C&C shall revert back permitted vadose zone monitoring frequency. Please note that the transitional provisions of 19.15.36.20 NMAC must be considered. Please review OCD’s letter dated June 30, 2011 and titled “*Compliance with the Transitional Provisions of the Surface Waste Management Facilities rule (Rule 36) and Treatment and Vadose Monitoring Requirements at Existing Landfarms*” for expectation of compliance.”

DD Landfarm:

“OCD has reviewed the administrative files for the facility and determined that the vadose zone monitoring frequency changed from the permit condition “The soil samples must be analyzed using EPA-approved methods for total petroleum hydrocarbons (TPH) and volatile aromatic organics (BTEX) quarterly and for major cations/anions and Water Quality Control Commission (WQCC) metals annually” to semi-annual in 2009. OCD has been unable to locate DD’s modification request for the change in sampling frequency or OCD’s approval for such a modification request. Please provide OCD a copy of DD’s modification request and OCD approval in order to continue the semi-annual sampling frequency. If DD is unable to demonstrate the approval, DD shall revert back permitted vadose zone monitoring frequency. Please note that the transitional provisions of 19.15.36.20 NMAC must be considered. Please review OCD’s letter dated June 30, 2011 and titled “*Compliance with the Transitional Provisions of the Surface Waste Management Facilities rule (Rule 36) and Treatment and Vadose Monitoring Requirements at Existing Landfarms*” for expectation of compliance.”

If you have any questions regarding this matter, please contact me.

Brad

*Brad A. Jones
Environmental Engineer
EMNRD Oil Conservation Division
1220 S. Saint Francis Drive*

Santa Fe, New Mexico 87505
E-mail: brad.a.jones@state.nm.us
Office: (505) 476-3487
Fax: (505) 476-3462

From: Rena Seay [mailto:seay04@leaco.net]
Sent: Thursday, July 02, 2015 8:31 AM
To: Jones, Brad A., EMNRD
Subject: Landfarm Rule Modification

Hello Brad,

I have finished going thru the files of C & C Landfarm and DD Landfarm, and all correspondence pertaining to the same.

I have been unable to find a letter pertaining to the modification request to operate under rule 36. DD and C & C are committed to getting in compliance with OCD, and has been trying to comply with rule 36.

Please let me know what we can do to continue operations.

Your advice would be appreciated. Have a good 4th of July.

Thanks,

Eddie W. Seay
Eddie Seay Consulting
601 W. Illinois
Hobbs, Nm 88242
575-392-2236
seay04@leaco.net

Jones, Brad A., EMNRD

From: Rena Seay <seay04@leaco.net>
Sent: Thursday, July 02, 2015 8:31 AM
To: Jones, Brad A., EMNRD
Subject: Landfarm Rule Modification

Hello Brad,

I have finished going thru the files of C & C Landfarm and DD Landfarm, and all correspondence pertaining to the same.

I have been unable to find a letter pertaining to the modification request to operate under rule 36. DD and C & C are committed to getting in compliance with OCD, and has been trying to comply with rule 36.

Please let me know what we can do to continue operations.

Your advice would be appreciated. Have a good 4th of July.

Thanks,

Eddie W. Seay
Eddie Seay Consulting
601 W. Illinois
Hobbs, Nm 88242
575-392-2236
seay04@leaco.net

**DD LANDFARM
(NM-01-0034)**

**SEMI-ANNUAL
TEST**

November 2014

RECEIVED OCD

December 3, 2014

2014 DEC -5 PM 3:40

NMOCD Environmental
1220 South St. Francis Dr.
Santa Fe, NM 87505

RE: DD Landfarm
NM-01-0034
Semi-Annual Test

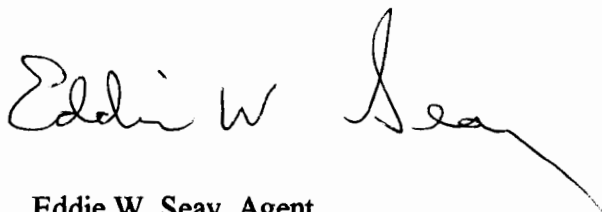
Dear Sir:

Find attached the semi-annual testing of the treatment zone and vadose zone at DD Landfarm, all tests and sampling procedures were followed according to OCD guidelines.

The tests were compared to the background and PQL, and all were within limits.

Should you have any questions, please call.

Thanks,

A handwritten signature in black ink, appearing to read "Eddie W. Seay". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

Eddie W. Seay, Agent
Eddie Seay Consulting
601 W. Illinois
Hobbs, NM 88242
575-392-2236
seay04@leaco.net

cc: DD Landfarm

November 14, 2014

Eddie Seay
Eddie Seay Consulting
601 W. Illinois
Hobbs, NM 88242

RE: D D LANDFARM

Enclosed are the results of analyses for samples received by the laboratory on 11/12/14 10:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

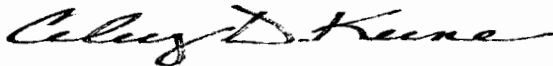
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene
Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
Eddie Seay
601 W. Illinois
Hobbs NM, 88242
Fax To: (505) 392-6949

Received: 11/12/2014
Reported: 11/14/2014
Project Name: D D LANDFARM
Project Number: NOT GIVEN
Project Location: W. EUNICE SECT31-T21-R39

Sampling Date: 11/11/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: CELL 1 T (H403474-01)

Chloride, SM4500C1-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/13/2014	ND	400	100	400	3.92	
TPH 8015M		mg/kg	Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/12/2014	ND	188	93.9	200	0.555	
DRO >C10-C28	80.6	10.0	11/12/2014	ND	196	98.2	200	2.55	
EXT DRO >C28-C35	43.9	10.0	11/12/2014	ND					
Surrogate: 1-Chlorooctane	110 %	47.2-157							
Surrogate: 1-Chlorooctadecane	130 %	52.1-176							

Sample ID: CELL 2 T (H403474-02)

Chloride, SM4500C1-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/13/2014	ND	400	100	400	3.92	
TPH 8015M		mg/kg	Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	11/12/2014	ND	188	93.9	200	0.555	
DRO >C10-C28	<50.0	50.0	11/12/2014	ND	196	98.2	200	2.55	
EXT DRO >C28-C35	<50.0	50.0	11/12/2014	ND					
Surrogate: 1-Chlorooctane	114 %	47.2-157							
Surrogate: 1-Chlorooctadecane	131 %	52.1-176							

Cardinal Laboratories

*=Accredited Analyte

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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Eddie Seay Consulting
 Eddie Seay
 601 W. Illinois
 Hobbs NM, 88242
 Fax To: (505) 392-6949

 Received: 11/12/2014
 Reported: 11/14/2014
 Project Name: D D LANDFARM
 Project Number: NOT GIVEN
 Project Location: W. EUNICE SECT31-T21-R39

 Sampling Date: 11/11/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: CELL 3 T (H403474-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	11/13/2014	ND	400	100	400	3.92	
TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/12/2014	ND	190	95.2	200	1.52	
DRO >C10-C28	76.2	10.0	11/12/2014	ND	198	99.1	200	1.60	
EXT DRO >C28-C35	31.6	10.0	11/12/2014	ND					
Surrogate: 1-Chlorooctane	110 %	47.2-157							
Surrogate: 1-Chlorooctadecane	132 %	52.1-176							

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
Eddie Seay
601 W. Illinois
Hobbs NM, 88242
Fax To: (505) 392-6949

Received: 11/12/2014
Reported: 11/14/2014
Project Name: D D LANDFARM
Project Number: NOT GIVEN
Project Location: W. EUNICE SECT31-T21-R39

Sampling Date: 11/11/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: CELL 1-V (H403474-04)

BTEX 8021B		mg/kg	Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/13/2014	ND	1.74	87.0	2.00	10.0	
Toluene*	<0.050	0.050	11/13/2014	ND	1.65	82.6	2.00	10.2	
Ethylbenzene*	<0.050	0.050	11/13/2014	ND	1.61	80.5	2.00	10.3	
Total Xylenes*	<0.150	0.150	11/13/2014	ND	4.82	80.4	6.00	10.9	
Total BTEX	<0.300	0.300	11/13/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.1 % 61-154

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/13/2014	ND	400	100	400	3.92	

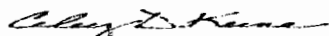
TPH 8015M		mg/kg	Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/12/2014	ND	190	95.2	200	1.52	
DRO >C10-C28	<10.0	10.0	11/12/2014	ND	198	99.1	200	1.60	
EXT DRO >C28-C35	<10.0	10.0	11/12/2014	ND					

Surrogate: 1-Chlorooctane 112 % 47.2-157

Surrogate: 1-Chlorooctadecane 126 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
Eddie Seay
601 W. Illinois
Hobbs NM, 88242
Fax To: (505) 392-6949

Received: 11/12/2014
Reported: 11/14/2014
Project Name: D D LANDFARM
Project Number: NOT GIVEN
Project Location: W. EUNICE SECT31-T21-R39

Sampling Date: 11/11/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: CELL 2-V (H403474-05)

BTEX 8021B		mg/kg	Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/13/2014	ND	1.74	87.0	2.00	10.0	
Toluene*	<0.050	0.050	11/13/2014	ND	1.65	82.6	2.00	10.2	
Ethylbenzene*	<0.050	0.050	11/13/2014	ND	1.61	80.5	2.00	10.3	
Total Xylenes*	<0.150	0.150	11/13/2014	ND	4.82	80.4	6.00	10.9	
Total BTEX	<0.300	0.300	11/13/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.6 % 61-154

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/13/2014	ND	400	100	400	3.92	

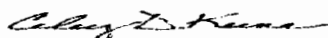
TPH 8015M		mg/kg	Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/13/2014	ND	190	95.2	200	1.52	
DRO >C10-C28	<10.0	10.0	11/13/2014	ND	198	99.1	200	1.60	
EXT DRO >C28-C35	<10.0	10.0	11/13/2014	ND					

Surrogate: 1-Chlorooctane 110 % 47.2-157

Surrogate: 1-Chlorooctadecane 122 % 52.1-176

Cardinal Laboratories
***=Accredited Analyte**

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
Eddie Seay
601 W. Illinois
Hobbs NM, 88242
Fax To: (505) 392-6949

Received: 11/12/2014
Reported: 11/14/2014
Project Name: D D LANDFARM
Project Number: NOT GIVEN
Project Location: W. EUNICE SECT31-T21-R39

Sampling Date: 11/11/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: CELL 3-V (H403474-06)

BTEX 80218		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/13/2014	ND	1.74	87.0	2.00	10.0	
Toluene*	<0.050	0.050	11/13/2014	ND	1.65	82.6	2.00	10.2	
Ethylbenzene*	<0.050	0.050	11/13/2014	ND	1.61	80.5	2.00	10.3	
Total Xylenes*	<0.150	0.150	11/13/2014	ND	4.82	80.4	6.00	10.9	
Total BTEX	<0.300	0.300	11/13/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.9% 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/13/2014	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/13/2014	ND	190	95.2	200	1.52	
DRO >C10-C28	<10.0	10.0	11/13/2014	ND	198	99.1	200	1.60	
EXT DRO >C28-C35	<10.0	10.0	11/13/2014	ND					

Surrogate: 1-Chlorooctane 117% 47.2-157

Surrogate: 1-Chlorooctadecane 130% 52.1-176

Cardinal Laboratories
***=Accredited Analyte**

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

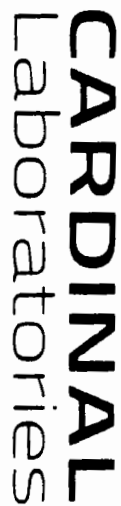
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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



Page 8 of 8

(575) 393-2326 FAX (575) 393-2476

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 396-2326

DD LANDFARM

(NM-01-0034)

CELL 3

JULY 2014

July 2014

RECEIVED OGD

2014 JUN -4 P 3: 07

NMOCD Environmental
ATTN: Brad Jones
1220 S. St. Francis Dr.
Santa Fe, NM 87505

RE: DD Landfarm
01-0034
Cell 3

Mr. Jones:

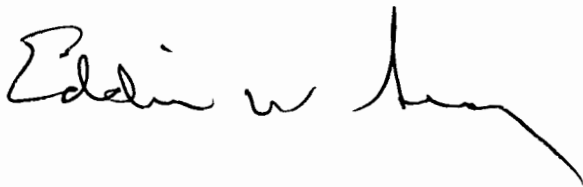
Find additional sampling for cell 3 as required. In comparing the analytical to the background and the lab PQL, the analytical was below the limits.

I can't explain why the TPH was elevated, but will monitor in future sampling.

No additional work should be required at this time.

If you have any questions or need additional information, please call.

Thanks,

A handwritten signature in black ink, appearing to read "Eddie Seay", with a long, sweeping horizontal stroke extending to the right.

Eddie Seay, Agent
Eddie Seay Consulting
601 W. Illinois
Hobbs, NM 88242
575-392-2236
seay04@leaco.net

cc: DD Landfarm (Jimmy Cooper)

June 27, 2014

Eddie Seay

Eddie Seay Consulting

601 W. Illinois

Hobbs, NM 88242

RE: D D LANDFARM

Enclosed are the results of analyses for samples received by the laboratory on 05/30/14 9:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Total Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

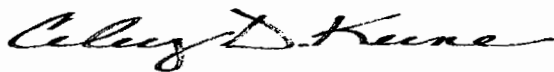
Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene
Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: D D LANDFARM
Project Number: DD LF
Project Manager: Eddie Seay
Fax To: (505) 392-6949

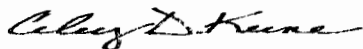
Reported:
27-Jun-14 12:18

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
DD - 3A	H401661-01	Soil	29-May-14 07:20	30-May-14 09:00
DD - 3B	H401661-02	Soil	29-May-14 08:00	30-May-14 09:00
DD - 3C	H401661-03	Soil	29-May-14 08:40	30-May-14 09:00
DD - 3D	H401661-04	Soil	29-May-14 09:20	30-May-14 09:00

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: D D LANDFARM
Project Number: DD LF
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
27-Jun-14 12:18

DD - 3A H401661-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Alkalinity, Bicarbonate	236		20.0	mg/kg	4	4061909	AP	12-Jun-14	310.1	
Alkalinity, Carbonate	ND		1.00	mg/kg	1	4061909	AP	12-Jun-14	310.1	
Chloride	ND		16.0	mg/kg	4	4060207	AP	02-Jun-14	4500-Cl-B	
Conductivity*	108		1.00	uS/cm	1	4060911	AP	09-Jun-14	120.1	
pH*	7.51		0.100	pH Units	1	4053011	AP	02-Jun-14	9045	
Sulfate	ND		40.0	mg/kg	4	4060909	AP	09-Jun-14	375.4	
Alkalinity, Total*	192		16.0	mg/kg	4	4061909	AP	26-Jun-14	310.1	

Petroleum Hydrocarbons by GC FID

GRO C6-C10	ND		20.0	mg/kg	1	4060401	MS	05-Jun-14	8015B	
DRO >C10-C28	ND		20.0	mg/kg	1	4060401	MS	05-Jun-14	8015B	
Surrogate: 1-Chlorooctane			121 %	65.2-140		4060401	MS	05-Jun-14	8015B	
Surrogate: 1-Chlorooctadecane			115 %	63.6-154		4060401	MS	05-Jun-14	8015B	

Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride*	ND		0.0500	mg/kg	50	4060908	ms	10-Jun-14	8260	
1,1-Dichloroethene*	ND		0.0500	mg/kg	50	4060908	ms	10-Jun-14	8260	
Methylene chloride*	ND		1.00	mg/kg	50	4060908	ms	10-Jun-14	8260	
1,1-Dichloroethane*	ND		0.0500	mg/kg	50	4060908	ms	10-Jun-14	8260	
Chloroform*	ND		0.0500	mg/kg	50	4060908	ms	10-Jun-14	8260	
Carbon tetrachloride*	ND		0.0500	mg/kg	50	4060908	ms	10-Jun-14	8260	
1,1,1-Trichloroethane*	ND		0.0500	mg/kg	50	4060908	ms	10-Jun-14	8260	
Benzene*	ND		0.0500	mg/kg	50	4060908	ms	10-Jun-14	8260	
1,2-Dichloroethane*	ND		0.0500	mg/kg	50	4060908	ms	10-Jun-14	8260	
Trichloroethene*	ND		0.0500	mg/kg	50	4060908	ms	10-Jun-14	8260	
Toluene*	ND		0.0500	mg/kg	50	4060908	ms	10-Jun-14	8260	
Tetrachloroethene*	ND		0.0500	mg/kg	50	4060908	ms	10-Jun-14	8260	
1,1,2-Trichloroethane*	ND		0.0500	mg/kg	50	4060908	ms	10-Jun-14	8260	
1,2-Dibromoethane*	ND		0.0500	mg/kg	50	4060908	ms	10-Jun-14	8260	

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: D D LANDFARM
Project Number: DD LF
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
27-Jun-14 12:18

DD - 3A H401661-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Volatile Organic Compounds by EPA Method 8260B

Ethylbenzene*	ND		0.0500	mg/kg	50	4060908	ms	10-Jun-14	8260	
m-p Xylenes*	ND		0.100	mg/kg	50	4060908	ms	10-Jun-14	8260	
o-Xylene*	ND		0.0500	mg/kg	50	4060908	ms	10-Jun-14	8260	
Total Xylenes*	ND		0.150	mg/kg	50	4060908	ms	10-Jun-14	8260	
1,1,2,2-Tetrachloroethane*	ND		0.0500	mg/kg	50	4060908	ms	10-Jun-14	8260	
Naphthalene*	ND		0.0500	mg/kg	50	4060908	ms	10-Jun-14	8260	
Surrogate: Dibromofluoromethane			97.6 %		70-130	4060908	ms	10-Jun-14	8260	
Surrogate: Toluene-d8			103 %		70-130	4060908	ms	10-Jun-14	8260	
Surrogate: 4-Bromofluorobenzene			92.8 %		70-130	4060908	ms	10-Jun-14	8260	

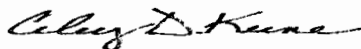
Semivolatile Organic Compounds by GCMS

Naphthalene	ND		0.040	mg/kg	40	4061304	MS	13-Jun-14	8270C	
2-Methylnaphthalene	ND		0.040	mg/kg	40	4061304	MS	13-Jun-14	8270C	
1-Methylnaphthalene	ND		0.040	mg/kg	40	4061304	MS	13-Jun-14	8270C	
Acenaphthylene	ND		0.040	mg/kg	40	4061304	MS	13-Jun-14	8270C	
Acenaphthene	ND		0.040	mg/kg	40	4061304	MS	13-Jun-14	8270C	
Fluorene	ND		0.040	mg/kg	40	4061304	MS	13-Jun-14	8270C	
Phenanthrene	ND		0.040	mg/kg	40	4061304	MS	13-Jun-14	8270C	
Anthracene	ND		0.040	mg/kg	40	4061304	MS	13-Jun-14	8270C	
Carbazole	ND		0.040	mg/kg	40	4061304	MS	13-Jun-14	8270C	
Fluoranthene	ND		0.040	mg/kg	40	4061304	MS	13-Jun-14	8270C	
Pyrene	ND		0.040	mg/kg	40	4061304	MS	13-Jun-14	8270C	
Benzo[a]anthracene	ND		0.040	mg/kg	40	4061304	MS	13-Jun-14	8270C	
Chrysene	ND		0.040	mg/kg	40	4061304	MS	13-Jun-14	8270C	
Benzo[b]fluoranthene	ND		0.040	mg/kg	40	4061304	MS	13-Jun-14	8270C	
Benzo[k]fluoranthene	ND		0.040	mg/kg	40	4061304	MS	13-Jun-14	8270C	
Benzo[a]pyrene	ND		0.040	mg/kg	40	4061304	MS	13-Jun-14	8270C	
Indeno[1,2,3-cd]pyrene	ND		0.040	mg/kg	40	4061304	MS	13-Jun-14	8270C	
Dibenz[a,h]anthracene	ND		0.040	mg/kg	40	4061304	MS	13-Jun-14	8270C	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: D D LANDFARM
Project Number: DD LF
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
27-Jun-14 12:18

DD - 3A H401661-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Semivolatile Organic Compounds by GCMS

Benzo[g,h,i]perylene	ND		0.040	mg/kg	40	4061304	MS	13-Jun-14	8270C	
Surrogate: Nitrobenzene-d5			76.0 %	16.1-91.8		4061304	MS	13-Jun-14	8270C	
Surrogate: 2-Fluorobiphenyl			97.5 %	27.2-92.9		4061304	MS	13-Jun-14	8270C	
Surrogate: Terphenyl-d14			156 %	21.3-96.1		4061304	MS	13-Jun-14	8270C	

Green Analytical Laboratories

General Chemistry

% Dry Solids	99.0		%	1	B406052	LLG	04-Jun-14	EPA160.3		
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Total Metals by ICP

Calcium	479	100	mg/kg dry	100	B406033	JGS	05-Jun-14	EPA6010 B		
Iron	2030	5.00	mg/kg dry	100	B406033	JGS	05-Jun-14	EPA6010 B		
Magnesium	268	100	mg/kg dry	100	B406033	JGS	05-Jun-14	EPA6010 B		
Potassium	408	100	mg/kg dry	100	B406033	JGS	05-Jun-14	EPA6010 B		
Sodium	ND	100	mg/kg dry	100	B406033	JGS	05-Jun-14	EPA6010 B		

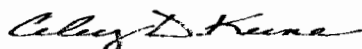
Total Metals by ICPMS

Arsenic	0.842	0.500	mg/kg dry	1000	B406037	JGS	04-Jun-14	6020 A		
Barium	10.4	0.500	mg/kg dry	1000	B406037	JGS	04-Jun-14	6020 A		
Cadmium	0.177	0.100	mg/kg dry	1000	B406037	JGS	04-Jun-14	6020 A		
Chromium	1.22	1.00	mg/kg dry	1000	B406037	JGS	04-Jun-14	6020 A		
Copper	0.698	0.100	mg/kg dry	1000	B406037	JGS	04-Jun-14	6020 A		
Lead	1.84	0.500	mg/kg dry	1000	B406037	JGS	04-Jun-14	6020 A		
Manganese	22.9	0.500	mg/kg dry	1000	B406037	JGS	04-Jun-14	6020 A		
Selenium	ND	1.00	mg/kg dry	1000	B406037	JGS	04-Jun-14	6020 A		
Silver	ND	0.100	mg/kg dry	1000	B406037	JGS	04-Jun-14	6020 A		
Zinc	3.69	1.00	mg/kg dry	1000	B406037	JGS	04-Jun-14	6020 A		

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242Project: D D LANDFARM
Project Number: DD LF
Project Manager: Eddie Seay
Fax To: (505) 392-6949Reported:
27-Jun-14 12:18**DD - 3A**
H401661-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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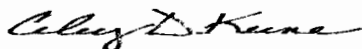
Green Analytical Laboratories**Total Mercury by CVAA**

Mercury	ND	0.100	mg/kg dry	495	B406051	JGS	05-Jun-14	EPA7471	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: D D LANDFARM
Project Number: DD LF
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
27-Jun-14 12:18

DD - 3B H401661-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Alkalinity, Bicarbonate	408		20.0	mg/kg	4	4061909	AP	12-Jun-14	310.1	
Alkalinity, Carbonate	ND		1.00	mg/kg	1	4061909	AP	12-Jun-14	310.1	
Chloride	ND		16.0	mg/kg	4	4060207	AP	02-Jun-14	4500-Cl-B	
Conductivity*	137		1.00	uS/cm	1	4060911	AP	09-Jun-14	120.1	
pH*	7.76		0.100	pH Units	1	4053011	AP	02-Jun-14	9045	
Sulfate	ND		40.0	mg/kg	4	4060909	AP	09-Jun-14	375.4	
Alkalinity, Total*	336		16.0	mg/kg	4	4061909	AP	26-Jun-14	310.1	

Petroleum Hydrocarbons by GC FID

GRO C6-C10	ND		10.0	mg/kg	1	4060401	MS	05-Jun-14	8015B	
DRO >C10-C28	ND		10.0	mg/kg	1	4060401	MS	05-Jun-14	8015B	
Surrogate: 1-Chlorooctane			93.8 %	65.2-140		4060401	MS	05-Jun-14	8015B	
Surrogate: 1-Chlorooctadecane			87.6 %	63.6-154		4060401	MS	05-Jun-14	8015B	

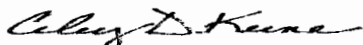
Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride*	ND		0.0500	mg/kg	50	4060908	ms	10-Jun-14	8260	
1,1-Dichloroethene*	ND		0.0500	mg/kg	50	4060908	ms	10-Jun-14	8260	
Methylene chloride*	ND		1.00	mg/kg	50	4060908	ms	10-Jun-14	8260	
1,1-Dichloroethane*	ND		0.0500	mg/kg	50	4060908	ms	10-Jun-14	8260	
Chloroform*	ND		0.0500	mg/kg	50	4060908	ms	10-Jun-14	8260	
Carbon tetrachloride*	ND		0.0500	mg/kg	50	4060908	ms	10-Jun-14	8260	
1,1,1-Trichloroethane*	ND		0.0500	mg/kg	50	4060908	ms	10-Jun-14	8260	
Benzene*	ND		0.0500	mg/kg	50	4060908	ms	10-Jun-14	8260	
1,2-Dichloroethane*	ND		0.0500	mg/kg	50	4060908	ms	10-Jun-14	8260	
Trichloroethene*	ND		0.0500	mg/kg	50	4060908	ms	10-Jun-14	8260	
Toluene*	ND		0.0500	mg/kg	50	4060908	ms	10-Jun-14	8260	
Tetrachloroethene*	ND		0.0500	mg/kg	50	4060908	ms	10-Jun-14	8260	
1,1,2-Trichloroethane*	ND		0.0500	mg/kg	50	4060908	ms	10-Jun-14	8260	
1,2-Dibromoethane*	ND		0.0500	mg/kg	50	4060908	ms	10-Jun-14	8260	
Ethylbenzene*	ND		0.0500	mg/kg	50	4060908	ms	10-Jun-14	8260	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: D D LANDFARM
Project Number: DD LF
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
27-Jun-14 12:18

DD - 3B H401661-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Semivolatile Organic Compounds by GCMS

Surrogate: Nitrobenzene-d5	79.6 %	16.1-91.8	4061304	MS	13-Jun-14	8270C
Surrogate: 2-Fluorobiphenyl	84.0 %	27.2-92.9	4061304	MS	13-Jun-14	8270C
Surrogate: Terphenyl-d14	130 %	21.3-96.1	4061304	MS	13-Jun-14	8270C

Green Analytical Laboratories

General Chemistry

% Dry Solids	98.8	%	1	B406052	LLG	06-Jun-14	EPA160.3	H2
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Total Metals by ICP

Calcium	1290	100 mg/kg dry	100	B406164	JGS	19-Jun-14	EPA6010 B
Iron	2360	5.00 mg/kg dry	100	B406164	JGS	19-Jun-14	EPA6010 B
Magnesium	402	100 mg/kg dry	100	B406164	JGS	19-Jun-14	EPA6010 B
Potassium	563	100 mg/kg dry	100	B406164	JGS	19-Jun-14	EPA6010 B
Sodium	ND	100 mg/kg dry	100	B406164	JGS	19-Jun-14	EPA6010 B
Zinc	6.32	5.00 mg/kg dry	100	B406164	JGS	19-Jun-14	EPA6010 B

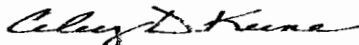
Total Metals by ICPMS

Arsenic	0.841	0.500 mg/kg dry	1000	B406165	JGS	19-Jun-14	6020 A
Barium	17.0	0.500 mg/kg dry	1000	B406165	JGS	19-Jun-14	6020 A
Cadmium	ND	0.100 mg/kg dry	1000	B406165	JGS	19-Jun-14	6020 A
Chromium	2.29	1.00 mg/kg dry	1000	B406165	JGS	19-Jun-14	6020 A
Copper	0.848	0.100 mg/kg dry	1000	B406165	JGS	19-Jun-14	6020 A
Lead	2.42	0.500 mg/kg dry	1000	B406165	JGS	19-Jun-14	6020 A
Manganese	27.1	0.500 mg/kg dry	1000	B406165	JGS	19-Jun-14	6020 A
Selenium	ND	1.00 mg/kg dry	1000	B406165	JGS	19-Jun-14	6020 A
Silver	ND	0.100 mg/kg dry	1000	B406165	JGS	19-Jun-14	6020 A

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Hobbs NM, 88242

Project: D D LANDFARM
Project Number: DD LF
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
27-Jun-14 12:18

DD - 3B
H401661-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Volatile Organic Compounds by EPA Method 8260B

m-p Xylenes*	ND	0.100	mg/kg	50	4060908	ms	10-Jun-14	8260	
o-Xylene*	ND	0.0500	mg/kg	50	4060908	ms	10-Jun-14	8260	
Total Xylenes*	ND	0.150	mg/kg	50	4060908	ms	10-Jun-14	8260	
1,1,2,2-Tetrachloroethane*	ND	0.0500	mg/kg	50	4060908	ms	10-Jun-14	8260	
Naphthalene*	ND	0.0500	mg/kg	50	4060908	ms	10-Jun-14	8260	
Surrogate: Dibromofluoromethane		95.9 %	70-130		4060908	ms	10-Jun-14	8260	
Surrogate: Toluene-d8		96.0 %	70-130		4060908	ms	10-Jun-14	8260	
Surrogate: 4-Bromofluorobenzene		102 %	70-130		4060908	ms	10-Jun-14	8260	

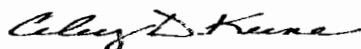
Semivolatile Organic Compounds by GCMS

Naphthalene	ND	0.040	mg/kg	40	4061304	MS	13-Jun-14	8270C	
2-Methylnaphthalene	ND	0.040	mg/kg	40	4061304	MS	13-Jun-14	8270C	
1-Methylnaphthalene	ND	0.040	mg/kg	40	4061304	MS	13-Jun-14	8270C	
Acenaphthylene	ND	0.040	mg/kg	40	4061304	MS	13-Jun-14	8270C	
Acenaphthene	ND	0.040	mg/kg	40	4061304	MS	13-Jun-14	8270C	
Fluorene	ND	0.040	mg/kg	40	4061304	MS	13-Jun-14	8270C	
Phenanthrene	ND	0.040	mg/kg	40	4061304	MS	13-Jun-14	8270C	
Anthracene	ND	0.040	mg/kg	40	4061304	MS	13-Jun-14	8270C	
Carbazole	ND	0.040	mg/kg	40	4061304	MS	13-Jun-14	8270C	
Fluoranthene	ND	0.040	mg/kg	40	4061304	MS	13-Jun-14	8270C	
Pyrene	ND	0.040	mg/kg	40	4061304	MS	13-Jun-14	8270C	
Benzo[a]anthracene	ND	0.040	mg/kg	40	4061304	MS	13-Jun-14	8270C	
Chrysene	ND	0.040	mg/kg	40	4061304	MS	13-Jun-14	8270C	
Benzo[b]fluoranthene	ND	0.040	mg/kg	40	4061304	MS	13-Jun-14	8270C	
Benzo[k]fluoranthene	ND	0.040	mg/kg	40	4061304	MS	13-Jun-14	8270C	
Benzo[a]pyrene	ND	0.040	mg/kg	40	4061304	MS	13-Jun-14	8270C	
Indeno[1,2,3-cd]pyrene	ND	0.040	mg/kg	40	4061304	MS	13-Jun-14	8270C	
Dibenz[a,h]anthracene	ND	0.040	mg/kg	40	4061304	MS	13-Jun-14	8270C	
Benzo[g,h,i]perylene	ND	0.040	mg/kg	40	4061304	MS	13-Jun-14	8270C	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: D D LANDFARM
Project Number: DD LF
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
27-Jun-14 12:18

DD - 3B
H401661-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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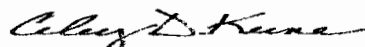
Green Analytical Laboratories**Total Mercury by CVAA**

Mercury	ND	0.100	mg/kg dry	495	B406125	JGS	13-Jun-14	EPA7471	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: D D LANDFARM
Project Number: DD LF
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
27-Jun-14 12:18

DD - 3C H401661-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Alkalinity, Bicarbonate	137		20.0	mg/kg	4	4061909	AP	12-Jun-14	310.1	
Alkalinity, Carbonate	ND		1.00	mg/kg	1	4061909	AP	12-Jun-14	310.1	
Chloride	ND		16.0	mg/kg	4	4060207	AP	02-Jun-14	4500-Cl-B	
Conductivity*	81.2		1.00	uS/cm	1	4060911	AP	09-Jun-14	120.1	
pH*	7.68		0.100	pH Units	1	4053012	AP	02-Jun-14	9045	
Sulfate	ND		40.0	mg/kg	4	4060909	AP	09-Jun-14	375.4	
Alkalinity, Total*	112		16.0	mg/kg	4	4061909	AP	26-Jun-14	310.1	

Petroleum Hydrocarbons by GC FID

GRO C6-C10	ND		10.0	mg/kg	1	4060401	MS	04-Jun-14	8015B	
DRO >C10-C28	ND		10.0	mg/kg	1	4060401	MS	04-Jun-14	8015B	
Surrogate: 1-Chlorooctane			92.6 %	65.2-140		4060401	MS	04-Jun-14	8015B	
Surrogate: 1-Chlorooctadecane			87.2 %	63.6-154		4060401	MS	04-Jun-14	8015B	

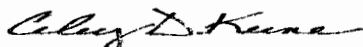
Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride*	ND		0.0500	mg/kg	50	4060908	ms	10-Jun-14	8260	
1,1-Dichloroethene*	ND		0.0500	mg/kg	50	4060908	ms	10-Jun-14	8260	
Methylene chloride*	ND		1.00	mg/kg	50	4060908	ms	10-Jun-14	8260	
1,1-Dichloroethane*	ND		0.0500	mg/kg	50	4060908	ms	10-Jun-14	8260	
Chloroform*	ND		0.0500	mg/kg	50	4060908	ms	10-Jun-14	8260	
Carbon tetrachloride*	ND		0.0500	mg/kg	50	4060908	ms	10-Jun-14	8260	
1,1,1-Trichloroethane*	ND		0.0500	mg/kg	50	4060908	ms	10-Jun-14	8260	
Benzene*	ND		0.0500	mg/kg	50	4060908	ms	10-Jun-14	8260	
1,2-Dichloroethane*	ND		0.0500	mg/kg	50	4060908	ms	10-Jun-14	8260	
Trichloroethene*	ND		0.0500	mg/kg	50	4060908	ms	10-Jun-14	8260	
Toluene*	ND		0.0500	mg/kg	50	4060908	ms	10-Jun-14	8260	
Tetrachloroethene*	ND		0.0500	mg/kg	50	4060908	ms	10-Jun-14	8260	
1,1,2-Trichloroethane*	ND		0.0500	mg/kg	50	4060908	ms	10-Jun-14	8260	
1,2-Dibromoethane*	ND		0.0500	mg/kg	50	4060908	ms	10-Jun-14	8260	
Ethylbenzene*	ND		0.0500	mg/kg	50	4060908	ms	10-Jun-14	8260	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: D D LANDFARM
Project Number: DD LF
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
27-Jun-14 12:18

DD - 3C

H401661-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Volatile Organic Compounds by EPA Method 8260B

m-p Xylenes*	ND		0.100	mg/kg	50	4060908	ms	10-Jun-14	8260	
o-Xylene*	ND		0.0500	mg/kg	50	4060908	ms	10-Jun-14	8260	
Total Xylenes*	ND		0.150	mg/kg	50	4060908	ms	10-Jun-14	8260	
1,1,2,2-Tetrachloroethane*	ND		0.0500	mg/kg	50	4060908	ms	10-Jun-14	8260	
Naphthalene*	ND		0.0500	mg/kg	50	4060908	ms	10-Jun-14	8260	
Surrogate: Dibromofluoromethane			99.2 %		70-130	4060908	ms	10-Jun-14	8260	
Surrogate: Toluene-d8			89.6 %		70-130	4060908	ms	10-Jun-14	8260	
Surrogate: 4-Bromofluorobenzene			95.8 %		70-130	4060908	ms	10-Jun-14	8260	

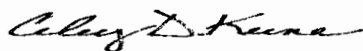
Semivolatile Organic Compounds by GCMS

Naphthalene	ND		0.040	mg/kg	40	4061304	MS	13-Jun-14	8270C	
2-Methylnaphthalene	ND		0.040	mg/kg	40	4061304	MS	13-Jun-14	8270C	
1-Methylnaphthalene	ND		0.040	mg/kg	40	4061304	MS	13-Jun-14	8270C	
Acenaphthylene	ND		0.040	mg/kg	40	4061304	MS	13-Jun-14	8270C	
Acenaphthene	ND		0.040	mg/kg	40	4061304	MS	13-Jun-14	8270C	
Fluorene	ND		0.040	mg/kg	40	4061304	MS	13-Jun-14	8270C	
Phenanthrene	ND		0.040	mg/kg	40	4061304	MS	13-Jun-14	8270C	
Anthracene	ND		0.040	mg/kg	40	4061304	MS	13-Jun-14	8270C	
Carbazole	ND		0.040	mg/kg	40	4061304	MS	13-Jun-14	8270C	
Fluoranthene	ND		0.040	mg/kg	40	4061304	MS	13-Jun-14	8270C	
Pyrene	ND		0.040	mg/kg	40	4061304	MS	13-Jun-14	8270C	
Benzo[a]anthracene	ND		0.040	mg/kg	40	4061304	MS	13-Jun-14	8270C	
Chrysene	ND		0.040	mg/kg	40	4061304	MS	13-Jun-14	8270C	
Benzo[b]fluoranthene	ND		0.040	mg/kg	40	4061304	MS	13-Jun-14	8270C	
Benzo[k]fluoranthene	ND		0.040	mg/kg	40	4061304	MS	13-Jun-14	8270C	
Benzo[a]pyrene	ND		0.040	mg/kg	40	4061304	MS	13-Jun-14	8270C	
Indeno[1,2,3-cd]pyrene	ND		0.040	mg/kg	40	4061304	MS	13-Jun-14	8270C	
Dibenz[a,h]anthracene	ND		0.040	mg/kg	40	4061304	MS	13-Jun-14	8270C	
Benzo[g,h,i]perylene	ND		0.040	mg/kg	40	4061304	MS	13-Jun-14	8270C	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: D D LANDFARM
Project Number: DD LF
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
27-Jun-14 12:18

DD - 3C H401661-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Semivolatile Organic Compounds by GCMS

Surrogate: Nitrobenzene-d5	60.7 %	16.1-91.8	4061304	MS	13-Jun-14	8270C
Surrogate: 2-Fluorobiphenyl	82.5 %	27.2-92.9	4061304	MS	13-Jun-14	8270C
Surrogate: Terphenyl-d14	139 %	21.3-96.1	4061304	MS	13-Jun-14	8270C

Green Analytical Laboratories

General Chemistry

% Dry Solids	99.3	%	1	B406052	LLG	04-Jun-14	EPA160.3
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Total Metals by ICP

Calcium	392	100 mg/kg dry	100	B406033	JGS	05-Jun-14	EPA6010 B
Iron	1850	5.00 mg/kg dry	100	B406033	JGS	05-Jun-14	EPA6010 B
Magnesium	229	100 mg/kg dry	100	B406033	JGS	05-Jun-14	EPA6010 B
Potassium	421	100 mg/kg dry	100	B406033	JGS	05-Jun-14	EPA6010 B
Sodium	ND	100 mg/kg dry	100	B406033	JGS	05-Jun-14	EPA6010 B

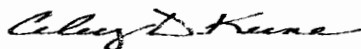
Total Metals by ICPMS

Arsenic	0.589	0.500 mg/kg dry	1000	B406037	JGS	04-Jun-14	6020 A
Barium	9.56	0.500 mg/kg dry	1000	B406037	JGS	04-Jun-14	6020 A
Cadmium	ND	0.100 mg/kg dry	1000	B406037	JGS	04-Jun-14	6020 A
Chromium	1.12	1.00 mg/kg dry	1000	B406037	JGS	04-Jun-14	6020 A
Copper	0.433	0.100 mg/kg dry	1000	B406037	JGS	04-Jun-14	6020 A
Lead	1.39	0.500 mg/kg dry	1000	B406037	JGS	04-Jun-14	6020 A
Manganese	14.0	0.500 mg/kg dry	1000	B406037	JGS	04-Jun-14	6020 A
Selenium	ND	1.00 mg/kg dry	1000	B406037	JGS	04-Jun-14	6020 A
Silver	ND	0.100 mg/kg dry	1000	B406037	JGS	04-Jun-14	6020 A
Zinc	3.52	1.00 mg/kg dry	1000	B406037	JGS	04-Jun-14	6020 A

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242Project: D D LANDFARM
Project Number: DD LF
Project Manager: Eddie Seay
Fax To: (505) 392-6949Reported:
27-Jun-14 12:18**DD - 3C**
H401661-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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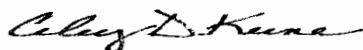
Green Analytical Laboratories**Total Mercury by CVAA**

Mercury	ND	0.0987	mg/kg dry	490	B406051	JGS	05-Jun-14	EPA7471	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: D D LANDFARM
Project Number: DD LF
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
27-Jun-14 12:18

DD - 3D H401661-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Alkalinity, Bicarbonate	156		20.0	mg/kg	4	4061909	AP	12-Jun-14	310.1	
Alkalinity, Carbonate	ND		1.00	mg/kg	1	4061909	AP	12-Jun-14	310.1	
Chloride	ND		16.0	mg/kg	4	4060207	AP	02-Jun-14	4500-C1-B	
Conductivity*	92.9		1.00	uS/cm	1	4060911	AP	09-Jun-14	120.1	
pH*	7.47		0.100	pH Units	1	4053012	AP	02-Jun-14	9045	
Sulfate	ND		40.0	mg/kg	4	4060909	AP	09-Jun-14	375.4	
Alkalinity, Total*	128		16.0	mg/kg	4	4061909	AP	26-Jun-14	310.1	

Petroleum Hydrocarbons by GC FID

GRO C6-C10	ND		10.0	mg/kg	1	4060401	MS	04-Jun-14	8015B	
DRO >C10-C28	ND		10.0	mg/kg	1	4060401	MS	04-Jun-14	8015B	
Surrogate: 1-Chlorooctane			109 %	65.2-140		4060401	MS	04-Jun-14	8015B	
Surrogate: 1-Chlorooctadecane			107 %	63.6-154		4060401	MS	04-Jun-14	8015B	

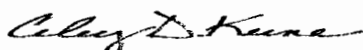
Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride*	ND		0.0500	mg/kg	50	4060908	ms	10-Jun-14	8260	
1,1-Dichloroethene*	ND		0.0500	mg/kg	50	4060908	ms	10-Jun-14	8260	
Methylene chloride*	ND		1.00	mg/kg	50	4060908	ms	10-Jun-14	8260	
1,1-Dichloroethane*	ND		0.0500	mg/kg	50	4060908	ms	10-Jun-14	8260	
Chloroform*	ND		0.0500	mg/kg	50	4060908	ms	10-Jun-14	8260	
Carbon tetrachloride*	ND		0.0500	mg/kg	50	4060908	ms	10-Jun-14	8260	
1,1,1-Trichloroethane*	ND		0.0500	mg/kg	50	4060908	ms	10-Jun-14	8260	
Benzene*	ND		0.0500	mg/kg	50	4060908	ms	10-Jun-14	8260	
1,2-Dichloroethane*	ND		0.0500	mg/kg	50	4060908	ms	10-Jun-14	8260	
Trichloroethene*	ND		0.0500	mg/kg	50	4060908	ms	10-Jun-14	8260	
Toluene*	ND		0.0500	mg/kg	50	4060908	ms	10-Jun-14	8260	
Tetrachloroethene*	ND		0.0500	mg/kg	50	4060908	ms	10-Jun-14	8260	
1,1,2-Trichloroethane*	ND		0.0500	mg/kg	50	4060908	ms	10-Jun-14	8260	
1,2-Dibromoethane*	ND		0.0500	mg/kg	50	4060908	ms	10-Jun-14	8260	
Ethylbenzene*	ND		0.0500	mg/kg	50	4060908	ms	10-Jun-14	8260	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: D D LANDFARM
Project Number: DD LF
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
27-Jun-14 12:18

DD - 3D H401661-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Volatile Organic Compounds by EPA Method 8260B

m-p Xylenes*	ND	0.100	mg/kg	50	4060908	ms	10-Jun-14	8260	
o-Xylene*	ND	0.0500	mg/kg	50	4060908	ms	10-Jun-14	8260	
Total Xylenes*	ND	0.150	mg/kg	50	4060908	ms	10-Jun-14	8260	
1,1,2,2-Tetrachloroethane*	ND	0.0500	mg/kg	50	4060908	ms	10-Jun-14	8260	
Naphthalene*	ND	0.0500	mg/kg	50	4060908	ms	10-Jun-14	8260	
Surrogate: Dibromofluoromethane		104 %		70-130	4060908	ms	10-Jun-14	8260	
Surrogate: Toluene-d8		103 %		70-130	4060908	ms	10-Jun-14	8260	
Surrogate: 4-Bromofluorobenzene		99.5 %		70-130	4060908	ms	10-Jun-14	8260	

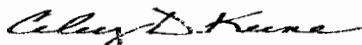
Semivolatile Organic Compounds by GCMS

Naphthalene	ND	0.040	mg/kg	40	4061304	MS	13-Jun-14	8270C	
2-Methylnaphthalene	ND	0.040	mg/kg	40	4061304	MS	13-Jun-14	8270C	
1-Methylnaphthalene	ND	0.040	mg/kg	40	4061304	MS	13-Jun-14	8270C	
Acenaphthylene	ND	0.040	mg/kg	40	4061304	MS	13-Jun-14	8270C	
Acenaphthene	ND	0.040	mg/kg	40	4061304	MS	13-Jun-14	8270C	
Fluorene	ND	0.040	mg/kg	40	4061304	MS	13-Jun-14	8270C	
Phenanthrene	ND	0.040	mg/kg	40	4061304	MS	13-Jun-14	8270C	
Anthracene	ND	0.040	mg/kg	40	4061304	MS	13-Jun-14	8270C	
Carbazole	ND	0.040	mg/kg	40	4061304	MS	13-Jun-14	8270C	
Fluoranthene	ND	0.040	mg/kg	40	4061304	MS	13-Jun-14	8270C	
Pyrene	ND	0.040	mg/kg	40	4061304	MS	13-Jun-14	8270C	
Benzo[a]anthracene	ND	0.040	mg/kg	40	4061304	MS	13-Jun-14	8270C	
Chrysene	ND	0.040	mg/kg	40	4061304	MS	13-Jun-14	8270C	
Benzo[b]fluoranthene	ND	0.040	mg/kg	40	4061304	MS	13-Jun-14	8270C	
Benzo[k]fluoranthene	ND	0.040	mg/kg	40	4061304	MS	13-Jun-14	8270C	
Benzo[a]pyrene	ND	0.040	mg/kg	40	4061304	MS	13-Jun-14	8270C	
Indeno[1,2,3-cd]pyrene	ND	0.040	mg/kg	40	4061304	MS	13-Jun-14	8270C	
Dibenz[a,h]anthracene	ND	0.040	mg/kg	40	4061304	MS	13-Jun-14	8270C	
Benzo[g,h,i]perylene	ND	0.040	mg/kg	40	4061304	MS	13-Jun-14	8270C	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Eddie Seay Consulting
 601 W. Illinois
 Hobbs NM, 88242

 Project: D D LANDFARM
 Project Number: DD LF
 Project Manager: Eddie Seay
 Fax To: (505) 392-6949

 Reported:
 27-Jun-14 12:18

DD - 3D
H401661-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Semivolatile Organic Compounds by GCMS

Surrogate: Nitrobenzene-d5	77.3 %	16.1-91.8	4061304	MS	13-Jun-14	8270C
Surrogate: 2-Fluorobiphenyl	80.3 %	27.2-92.9	4061304	MS	13-Jun-14	8270C
Surrogate: Terphenyl-d14	123 %	21.3-96.1	4061304	MS	13-Jun-14	8270C

Green Analytical Laboratories
General Chemistry

% Dry Solids	99.3	%	1	B406052	LLG	04-Jun-14	EPA160.3
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Total Metals by ICP

Calcium	520	100 mg/kg dry	100	B406033	JGS	05-Jun-14	EPA6010 B
Iron	2150	5.00 mg/kg dry	100	B406033	JGS	05-Jun-14	EPA6010 B
Magnesium	310	100 mg/kg dry	100	B406033	JGS	05-Jun-14	EPA6010 B
Potassium	430	100 mg/kg dry	100	B406033	JGS	05-Jun-14	EPA6010 B
Sodium	ND	100 mg/kg dry	100	B406033	JGS	05-Jun-14	EPA6010 B

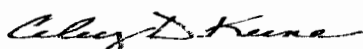
Total Metals by ICPMS

Arsenic	0.783	0.500 mg/kg dry	1000	B406037	JGS	04-Jun-14	6020 A
Barium	12.9	0.500 mg/kg dry	1000	B406037	JGS	04-Jun-14	6020 A
Cadmium	ND	0.100 mg/kg dry	1000	B406037	JGS	04-Jun-14	6020 A
Chromium	1.23	1.00 mg/kg dry	1000	B406037	JGS	04-Jun-14	6020 A
Copper	0.732	0.100 mg/kg dry	1000	B406037	JGS	04-Jun-14	6020 A
Lead	61.8	0.500 mg/kg dry	1000	B406037	JGS	04-Jun-14	6020 A
Manganese	23.2	0.500 mg/kg dry	1000	B406037	JGS	04-Jun-14	6020 A
Selenium	ND	1.00 mg/kg dry	1000	B406037	JGS	04-Jun-14	6020 A
Silver	ND	0.100 mg/kg dry	1000	B406037	JGS	04-Jun-14	6020 A
Zinc	4.24	1.00 mg/kg dry	1000	B406037	JGS	04-Jun-14	6020 A

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242Project: D D LANDFARM
Project Number: DD LF
Project Manager: Eddie Seay
Fax To: (505) 392-6949Reported:
27-Jun-14 12:18**DD - 3D**
H401661-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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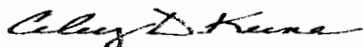
Green Analytical Laboratories**Total Mercury by CVAA**

Mercury	ND	0.0997	mg/kg dry	495	B406051	JGS	05-Jun-14	EPA7471	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Eddie Seay Consulting
 601 W. Illinois
 Hobbs NM, 88242

 Project: D D LANDFARM
 Project Number: DD LF
 Project Manager: Eddie Seay
 Fax To: (505) 392-6949

 Reported:
 27-Jun-14 12:18

Inorganic Compounds - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4053011 - NO PREP
LCS (4053011-BS1)

Prepared: 30-May-14 Analyzed: 02-Jun-14

pH	7.09		pH Units	7.00		101	90-110			
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Duplicate (4053011-DUP1)

Source: H401628-01

Prepared: 30-May-14 Analyzed: 02-Jun-14

pH	7.03	0.100	pH Units	7.04		0.142	20			
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Batch 4053012 - NO PREP
LCS (4053012-BS1)

Prepared: 30-May-14 Analyzed: 02-Jun-14

pH	7.10		pH Units	7.00		101	90-110			
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Duplicate (4053012-DUP1)

Source: H401661-03

Prepared: 30-May-14 Analyzed: 02-Jun-14

pH	7.71	0.100	pH Units	7.68		0.390	20			
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Batch 4060207 - 1:4 DI Water
Blank (4060207-BLK1)

Prepared & Analyzed: 02-Jun-14

Chloride	ND	16.0	mg/kg							
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LCS (4060207-BS1)

Prepared & Analyzed: 02-Jun-14

Chloride	464	16.0	mg/kg	400		116	80-120			
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LCS Dup (4060207-BSD1)

Prepared & Analyzed: 02-Jun-14

Chloride	416	16.0	mg/kg	400		104	80-120	10.9	20	
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Batch 4060909 - General Prep - Wet Chem
Blank (4060909-BLK1)

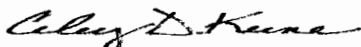
Prepared & Analyzed: 09-Jun-14

Sulfate	ND	10.0	mg/kg							
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: D D LANDFARM
Project Number: DD LF
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
27-Jun-14 12:18

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4060909 - General Prep - Wet Chem

LCS (4060909-BS1)

Prepared & Analyzed: 09-Jun-14

Sulfate	21.2	10.0	mg/kg	20.0	106	80-120
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LCS Dup (4060909-BSD1)

Prepared & Analyzed: 09-Jun-14

Sulfate	20.8	10.0	mg/kg	20.0	104	80-120	2.00	20
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Batch 4060911 - General Prep - Wet Chem

LCS (4060911-BS1)

Prepared & Analyzed: 09-Jun-14

Conductivity	491		uS/cm	500	98.2	80-120
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Duplicate (4060911-DUP1)

Source: H401643-01

Prepared & Analyzed: 09-Jun-14

Conductivity	362000	1.00	uS/cm	360000		0.554	20
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Batch 4061909 - General Prep - Wet Chem

Blank (4061909-BLK1)

Prepared & Analyzed: 19-Jun-14

Alkalinity, Carbonate	ND	0.00	mg/kg
Alkalinity, Bicarbonate	9.00	5.00	mg/kg
Alkalinity, Total	8.00	4.00	mg/kg

LCS (4061909-BS1)

Prepared & Analyzed: 19-Jun-14

Alkalinity, Carbonate	ND	0.00	mg/kg		80-120
Alkalinity, Bicarbonate	132	5.00	mg/kg		80-120
Alkalinity, Total	108	4.00	mg/kg	100	108 80-120

LCS Dup (4061909-BSD1)

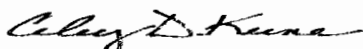
Prepared & Analyzed: 19-Jun-14

Alkalinity, Carbonate	ND	0.00	mg/kg		80-120		20
Alkalinity, Bicarbonate	132	5.00	mg/kg		80-120	0.00	20
Alkalinity, Total	108	4.00	mg/kg	100	108 80-120	0.00	20

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Eddie Seay Consulting
 601 W. Illinois
 Hobbs NM, 88242

 Project: D D LANDFARM
 Project Number: DD LF
 Project Manager: Eddie Seay
 Fax To: (505) 392-6949

 Reported:
 27-Jun-14 12:18

Petroleum Hydrocarbons by GC FID - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4060401 - General Prep - Organics
Blank (4060401-BLK1)

Prepared & Analyzed: 04-Jun-14

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C35	ND	10.0	mg/kg							
Total TPH C6-C28	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	44.4		mg/kg	50.0		88.7	65.2-140			
Surrogate: 1-Chlorooctadecane	42.2		mg/kg	50.0		84.5	63.6-154			

LCS (4060401-BS1)

Prepared & Analyzed: 04-Jun-14

GRO C6-C10	174	10.0	mg/kg	200		87.2	66.4-124			
DRO >C10-C28	178	10.0	mg/kg	200		89.0	61.6-132			
Total TPH C6-C28	352	10.0	mg/kg	400		88.1	69.7-122			
Surrogate: 1-Chlorooctane	43.3		mg/kg	50.0		86.7	65.2-140			
Surrogate: 1-Chlorooctadecane	40.9		mg/kg	50.0		81.8	63.6-154			

LCS Dup (4060401-BSD1)

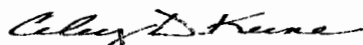
Prepared & Analyzed: 04-Jun-14

GRO C6-C10	180	10.0	mg/kg	200		90.0	66.4-124	3.21	23.4	
DRO >C10-C28	192	10.0	mg/kg	200		95.9	61.6-132	7.42	23.1	
Total TPH C6-C28	372	10.0	mg/kg	400		93.0	69.7-122	5.36	20.6	
Surrogate: 1-Chlorooctane	43.8		mg/kg	50.0		87.5	65.2-140			
Surrogate: 1-Chlorooctadecane	42.9		mg/kg	50.0		85.8	63.6-154			

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: D D LANDFARM
Project Number: DD LF
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
27-Jun-14 12:18

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 4060908 - Volatiles
Blank (4060908-BLK1)

Prepared & Analyzed: 09-Jun-14

Vinyl chloride	ND	0.0500	mg/kg						
1,1-Dichloroethene	ND	0.0500	mg/kg						
Methylene chloride	ND	0.0500	mg/kg						
1,1-Dichloroethane	ND	0.0500	mg/kg						
Chloroform	ND	0.0500	mg/kg						
Carbon tetrachloride	ND	0.0500	mg/kg						
1,1,1-Trichloroethane	ND	0.0500	mg/kg						
Benzene	ND	0.0500	mg/kg						
1,2-Dichloroethane	ND	0.0500	mg/kg						
Trichloroethene	ND	0.0500	mg/kg						
Toluene	ND	0.0500	mg/kg						
Tetrachloroethene	ND	0.0500	mg/kg						
1,1,2-Trichloroethane	ND	0.0500	mg/kg						
1,2-Dibromoethane	ND	0.0500	mg/kg						
Ethylbenzene	ND	0.0500	mg/kg						
m-p Xylenes	ND	0.100	mg/kg						
o-Xylene	ND	0.0500	mg/kg						
Total Xylenes	ND	0.150	mg/kg						
1,1,2,2-Tetrachloroethane	ND	0.0500	mg/kg						
Naphthalene	ND	0.0500	mg/kg						
Surrogate: Dibromofluoromethane	0.544		mg/kg	0.500		109	70-130		
Surrogate: Toluene-d8	0.494		mg/kg	0.500		98.8	70-130		
Surrogate: 4-Bromofluorobenzene	0.478		mg/kg	0.500		95.7	70-130		

LCS (4060908-BS1)

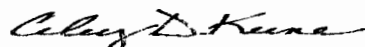
Prepared & Analyzed: 09-Jun-14

Vinyl chloride	0.504	0.0500	mg/kg	0.400		126	70-130		
1,1-Dichloroethene	0.773	0.0500	mg/kg	0.400		193	70-130		BS1
Methylene chloride	0.618	0.0500	mg/kg	0.400		154	70-130		BS1
1,1-Dichloroethane	0.550	0.0500	mg/kg	0.400		137	70-130		BS1
Chloroform	0.453	0.0500	mg/kg	0.400		113	70-130		
Carbon tetrachloride	0.561	0.0500	mg/kg	0.400		140	70-130		BS1
1,1,1-Trichloroethane	0.499	0.0500	mg/kg	0.400		125	70-130		

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: D D LANDFARM
Project Number: DD LF
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
27-Jun-14 12:18

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch 4060908 - Volatiles
LCS (4060908-BS1)

Prepared & Analyzed: 09-Jun-14

Benzene	0.461	0.0500	mg/kg	0.400		115	70-130			
1,2-Dichloroethane	0.413	0.0500	mg/kg	0.400		103	70-130			
Trichloroethene	0.419	0.0500	mg/kg	0.400		105	70-130			
Toluene	0.392	0.0500	mg/kg	0.400		97.9	70-130			
Tetrachloroethene	0.442	0.0500	mg/kg	0.400		111	70-130			
1,1,2-Trichloroethane	0.387	0.0500	mg/kg	0.400		96.8	70-130			
1,2-Dibromoethane	0.394	0.0500	mg/kg	0.400		98.6	70-130			
Ethylbenzene	0.418	0.0500	mg/kg	0.400		104	70-130			
m-p Xylenes	0.817	0.100	mg/kg				70-130			
o-Xylene	0.400	0.0500	mg/kg	0.400		100	70-130			
Total Xylenes	1.22	0.150	mg/kg	1.20		101	70-130			
1,1,2,2-Tetrachloroethane	0.332	0.0500	mg/kg	0.400		83.0	70-130			
Naphthalene	0.296	0.0500	mg/kg	0.400		73.9	70-130			
Surrogate: Dibromofluoromethane	0.495		mg/kg	0.500		98.9	70-130			
Surrogate: Toluene-d8	0.489		mg/kg	0.500		97.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.525		mg/kg	0.500		105	70-130			

LCS Dup (4060908-BS1)

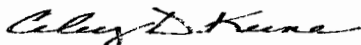
Prepared & Analyzed: 09-Jun-14

Vinyl chloride	0.457	0.0500	mg/kg	0.400		114	70-130	9.82	20	
1,1-Dichloroethene	0.665	0.0500	mg/kg	0.400		166	70-130	15.0	20	BS1
Methylene chloride	0.665	0.0500	mg/kg	0.400		166	70-130	7.37	20	BS1
1,1-Dichloroethane	0.502	0.0500	mg/kg	0.400		126	70-130	8.97	20	
Chloroform	0.449	0.0500	mg/kg	0.400		112	70-130	0.939	20	
Carbon tetrachloride	0.491	0.0500	mg/kg	0.400		123	70-130	13.2	20	
1,1,1-Trichloroethane	0.493	0.0500	mg/kg	0.400		123	70-130	1.23	20	
Benzene	0.437	0.0500	mg/kg	0.400		109	70-130	5.25	20	
1,2-Dichloroethane	0.403	0.0500	mg/kg	0.400		101	70-130	2.42	20	
Trichloroethene	0.413	0.0500	mg/kg	0.400		103	70-130	1.63	20	
Toluene	0.406	0.0500	mg/kg	0.400		101	70-130	3.62	20	
Tetrachloroethene	0.435	0.0500	mg/kg	0.400		109	70-130	1.65	20	
1,1,2-Trichloroethane	0.384	0.0500	mg/kg	0.400		95.9	70-130	0.949	20	
1,2-Dibromoethane	0.389	0.0500	mg/kg	0.400		97.3	70-130	1.29	20	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: D D LANDFARM
Project Number: DD LF
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
27-Jun-14 12:18

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4060908 - Volatiles
LCS Dup (4060908-BSD1)

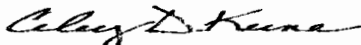
Prepared & Analyzed: 09-Jun-14

Ethylbenzene	0.404	0.0500	mg/kg	0.400		101	70-130	3.26	20	
m-p Xylenes	0.813	0.100	mg/kg				70-130	0.548	20	
o-Xylene	0.378	0.0500	mg/kg	0.400		94.6	70-130	5.53	20	
Total Xylenes	1.19	0.150	mg/kg	1.20		99.3	70-130	2.16	20	
1,1,2,2-Tetrachloroethane	0.353	0.0500	mg/kg	0.400		88.2	70-130	6.06	20	
Naphthalene	0.318	0.0500	mg/kg	0.400		79.5	70-130	7.32	20	
Surrogate: Dibromofluoromethane	0.499		mg/kg	0.500		99.7	70-130			
Surrogate: Toluene-d8	0.503		mg/kg	0.500		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.497		mg/kg	0.500		99.5	70-130			

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: D D LANDFARM
Project Number: DD LF
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
27-Jun-14 12:18

Semivolatile Organic Compounds by GCMS - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4061304 - SW846-3510

Blank (4061304-BLK1)

Prepared: 13-Jun-14 Analyzed: 20-Jun-14

Naphthalene	ND	0.040	mg/kg							
2-Methylnaphthalene	ND	0.040	mg/kg							
1-Methylnaphthalene	ND	0.040	mg/kg							
Acenaphthylene	ND	0.040	mg/kg							
Acenaphthene	ND	0.040	mg/kg							
Fluorene	ND	0.040	mg/kg							
Phenanthrene	ND	0.040	mg/kg							
Anthracene	ND	0.040	mg/kg							
Carbazole	ND	0.040	mg/kg							
Fluoranthene	ND	0.040	mg/kg							
Pyrene	ND	0.040	mg/kg							
Benzo[a]anthracene	ND	0.040	mg/kg							
Chrysene	ND	0.040	mg/kg							
Benzo[b]fluoranthene	ND	0.040	mg/kg							
Benzo[k]fluoranthene	ND	0.040	mg/kg							
Benzo[a]pyrene	ND	0.040	mg/kg							
Indeno[1,2,3-cd]pyrene	ND	0.040	mg/kg							
Dibenz[a,h]anthracene	ND	0.040	mg/kg							
Benzo[g,h,i]perylene	ND	0.040	mg/kg							
Surrogate: Nitrobenzene-d5	1.50		mg/kg	2.00		75.0	16.1-91.8			
Surrogate: 2-Fluorobiphenyl	2.02		mg/kg	2.00		101	27.2-92.9			
Surrogate: Terphenyl-d14	3.14		mg/kg	2.00		157	21.3-96.1			

LCS (4061304-BS1)

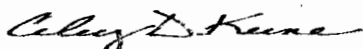
Prepared: 13-Jun-14 Analyzed: 19-Jun-14

Naphthalene	0.421	0.040	mg/kg	0.400		105	5.46-157			
2-Methylnaphthalene	0.439	0.040	mg/kg	0.400		110	16.1-146			
Acenaphthylene	0.436	0.040	mg/kg	0.400		109	21.6-144			
Acenaphthene	0.434	0.040	mg/kg	0.400		108	27-143			
Fluorene	0.451	0.040	mg/kg	0.400		113	30.9-138			
Phenanthrene	0.469	0.040	mg/kg	0.400		117	38.6-149			
Anthracene	0.433	0.040	mg/kg	0.400		108	36.1-149			
Carbazole	0.443	0.040	mg/kg	0.400		111	29.8-144			

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: D D LANDFARM
Project Number: DD LF
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
27-Jun-14 12:18

Semivolatile Organic Compounds by GCMS - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4061304 - SW846-3510

LCS (4061304-BS1)		Prepared: 13-Jun-14 Analyzed: 19-Jun-14								
Fluoranthene	0.480	0.040	mg/kg	0.400		120	34.6-148			
Pyrene	0.480	0.040	mg/kg	0.400		120	24.8-154			
Benzo[a]anthracene	0.456	0.040	mg/kg	0.400		114	0-179			
Chrysene	0.477	0.040	mg/kg	0.400		119	35.1-150			
Benzo[b]fluoranthene	0.494	0.040	mg/kg	0.400		123	17.6-158			
Benzo[k]fluoranthene	0.502	0.040	mg/kg	0.400		126	10.6-169			
Benzo[a]pyrene	0.427	0.040	mg/kg	0.400		107	2.25-166			
Indeno[1,2,3-cd]pyrene	0.342	0.040	mg/kg	0.400		85.4	0-181			
Dibenz[a,h]anthracene	0.341	0.040	mg/kg	0.400		85.2	2.49-177			
Benzo[g,h,i]perylene	0.301	0.040	mg/kg	0.400		75.3	0-173			
Surrogate: Nitrobenzene-d5	1.89		mg/kg	2.00		94.6	16.1-91.8			
Surrogate: 2-Fluorobiphenyl	2.19		mg/kg	2.00		110	27.2-92.9			
Surrogate: Terphenyl-d4	2.99		mg/kg	2.00		150	21.3-96.1			

LCS Dup (4061304-BSD1)		Prepared: 13-Jun-14 Analyzed: 20-Jun-14								
Naphthalene	0.403	0.040	mg/kg	0.400		101	5.46-157	4.28	6.7	
2-Methylnaphthalene	0.420	0.040	mg/kg	0.400		105	16.1-146	4.42	8.99	
Acenaphthylene	0.431	0.040	mg/kg	0.400		108	21.6-144	1.11	14.6	
Acenaphthene	0.439	0.040	mg/kg	0.400		110	27-143	1.17	6.99	
Fluorene	0.457	0.040	mg/kg	0.400		114	30.9-138	1.32	13.9	
Phenanthrene	0.437	0.040	mg/kg	0.400		109	38.6-149	6.89	14.6	
Anthracene	0.463	0.040	mg/kg	0.400		116	36.1-149	6.63	18.5	
Carbazole	0.443	0.040	mg/kg	0.400		111	29.8-144	0.0723	23.4	
Fluoranthene	0.479	0.040	mg/kg	0.400		120	34.6-148	0.111	19.7	
Pyrene	0.468	0.040	mg/kg	0.400		117	24.8-154	2.50	23	
Benzo[a]anthracene	0.461	0.040	mg/kg	0.400		115	0-179	0.955	32.5	
Chrysene	0.482	0.040	mg/kg	0.400		120	35.1-150	1.13	19.4	
Benzo[b]fluoranthene	0.436	0.040	mg/kg	0.400		109	17.6-158	12.5	31.4	
Benzo[k]fluoranthene	0.470	0.040	mg/kg	0.400		117	10.6-169	6.72	44.6	
Benzo[a]pyrene	0.430	0.040	mg/kg	0.400		107	2.25-166	0.612	60.5	
Indeno[1,2,3-cd]pyrene	0.345	0.040	mg/kg	0.400		86.4	0-181	1.10	77	
Dibenz[a,h]anthracene	0.343	0.040	mg/kg	0.400		85.7	2.49-177	0.629	63.3	

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Celestine Keene

Celestine D. Keene, Lab Director/Quality Manager

Analytical Results For:Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242Project: D D LANDFARM
Project Number: DD LF
Project Manager: Eddie Seay
Fax To: (505) 392-6949Reported:
27-Jun-14 12:18**Semivolatile Organic Compounds by GCMS - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
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Batch 4061304 - SW846-3510**LCS Dup (4061304-BSD1)**

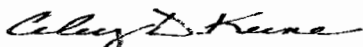
Prepared: 13-Jun-14 Analyzed: 20-Jun-14

Benzo[g,h,i]perylene	0.301	0.040	mg/kg	0.400		75.3	0-173	0.0498	77.4
Surrogate: Nitrobenzene-d5	1.81		mg/kg	2.00		90.4	16.1-91.8		
Surrogate: 2-Fluorobiphenyl	2.18		mg/kg	2.00		109	27.2-92.9		
Surrogate: Terphenyl-d14	2.86		mg/kg	2.00		143	21.3-96.1		

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: D D LANDFARM
Project Number: DD LF
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
27-Jun-14 12:18

Total Metals by ICP - Quality Control
Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
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Batch B406033 - EPA 3050
Blank (B406033-BLK1)

Prepared: 04-Jun-14 Analyzed: 05-Jun-14

Sodium	ND	1.00	mg/kg dry					
Magnesium	ND	1.00	mg/kg dry					
Iron	ND	0.050	mg/kg dry					
Calcium	ND	1.00	mg/kg dry					
Potassium	ND	1.00	mg/kg dry					

LCS (B406033-BS1)

Prepared: 04-Jun-14 Analyzed: 05-Jun-14

Calcium	3.87	1.00	mg/kg dry	4.00	96.7	85-115		
Iron	3.75	0.050	mg/kg dry	4.00	93.8	85-115		
Potassium	8.21	1.00	mg/kg dry	8.00	103	85-115		
Magnesium	19.7	1.00	mg/kg dry	20.0	98.7	85-115		
Sodium	6.39	1.00	mg/kg dry	6.48	98.5	85-115		

LCS Dup (B406033-BSD1)

Prepared: 04-Jun-14 Analyzed: 05-Jun-14

Magnesium	19.7	1.00	mg/kg dry	20.0	98.5	85-115	0.264	20
Sodium	6.26	1.00	mg/kg dry	6.48	96.6	85-115	2.00	20
Iron	3.93	0.050	mg/kg dry	4.00	98.1	85-115	4.47	20
Calcium	3.81	1.00	mg/kg dry	4.00	95.3	85-115	1.42	20
Potassium	8.17	1.00	mg/kg dry	8.00	102	85-115	0.504	20

Batch B406164 - EPA 3050
Blank (B406164-BLK1)

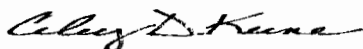
Prepared: 18-Jun-14 Analyzed: 19-Jun-14

Magnesium	ND	1.00	mg/kg dry					
Sodium	ND	1.00	mg/kg dry					
Zinc	ND	0.050	mg/kg dry					
Iron	ND	0.050	mg/kg dry					
Calcium	ND	1.00	mg/kg dry					
Potassium	ND	1.00	mg/kg dry					

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Eddie Seay Consulting
 601 W. Illinois
 Hobbs NM, 88242

 Project: D D LANDFARM
 Project Number: DD LF
 Project Manager: Eddie Seay
 Fax To: (505) 392-6949

 Reported:
 27-Jun-14 12:18

Total Metals by ICP - Quality Control
Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B406164 - EPA 3050
LCS (B406164-BS1)

Prepared: 18-Jun-14 Analyzed: 19-Jun-14

Calcium	3.76	1.00	mg/kg dry	4.00		93.9	85-115			
Sodium	5.99	1.00	mg/kg dry	6.48		92.5	85-115			
Potassium	7.59	1.00	mg/kg dry	8.00		94.9	85-115			
Zinc	1.78	0.050	mg/kg dry	2.00		88.8	85-115			
Magnesium	19.3	1.00	mg/kg dry	20.0		96.5	85-115			
Iron	3.83	0.050	mg/kg dry	4.00		95.7	85-115			

LCS Dup (B406164-BSD1)

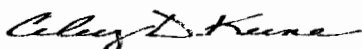
Prepared: 18-Jun-14 Analyzed: 19-Jun-14

Sodium	5.83	1.00	mg/kg dry	6.48		89.9	85-115	2.79	20	
Calcium	3.66	1.00	mg/kg dry	4.00		91.5	85-115	2.56	20	
Magnesium	18.8	1.00	mg/kg dry	20.0		94.1	85-115	2.46	20	
Potassium	7.55	1.00	mg/kg dry	8.00		94.3	85-115	0.613	20	
Iron	3.74	0.050	mg/kg dry	4.00		93.5	85-115	2.29	20	
Zinc	1.74	0.050	mg/kg dry	2.00		86.8	85-115	2.23	20	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Eddie Seay Consulting
 601 W. Illinois
 Hobbs NM, 88242

 Project: D D LANDFARM
 Project Number: DD LF
 Project Manager: Eddie Seay
 Fax To: (505) 392-6949

 Reported:
 27-Jun-14 12:18

Total Metals by ICPMS - Quality Control
Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B406037 - EPA 3050M
Blank (B406037-BLK1)

Prepared & Analyzed: 04-Jun-14

Arsenic	ND	0.0005	mg/kg dry							
Chromium	ND	0.0010	mg/kg dry							
Zinc	0.0037	0.0010	mg/kg dry							B1
Selenium	ND	0.0010	mg/kg dry							
Manganese	ND	0.0005	mg/kg dry							
Copper	0.0008	0.0001	mg/kg dry							B1
Lead	ND	0.0005	mg/kg dry							
Barium	ND	0.0005	mg/kg dry							
Silver	ND	0.0001	mg/kg dry							
Cadmium	ND	0.0001	mg/kg dry							

LCS (B406037-BS1)

Prepared & Analyzed: 04-Jun-14

Manganese	0.0493	0.0005	mg/kg dry	0.0500		98.6	85-115			
Barium	0.0497	0.0005	mg/kg dry	0.0500		99.4	85-115			
Arsenic	0.0497	0.0005	mg/kg dry	0.0500		99.3	85-115			
Chromium	0.0475	0.0010	mg/kg dry	0.0500		95.1	85-115			
Copper	0.0520	0.0001	mg/kg dry	0.0500		104	85-115			
Selenium	0.266	0.0010	mg/kg dry	0.250		107	85-115			
Silver	0.0471	0.0001	mg/kg dry	0.0500		94.3	85-115			
Zinc	0.0532	0.0010	mg/kg dry	0.0500		106	80-120			
Cadmium	0.0501	0.0001	mg/kg dry	0.0500		100	85-115			
Lead	0.0501	0.0005	mg/kg dry	0.0500		100	85-115			

LCS Dup (B406037-BSD1)

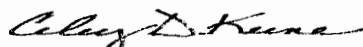
Prepared & Analyzed: 04-Jun-14

Copper	0.0510	0.0001	mg/kg dry	0.0500		102	85-115	1.94	20	
Selenium	0.270	0.0010	mg/kg dry	0.250		108	85-115	1.29	20	
Chromium	0.0466	0.0010	mg/kg dry	0.0500		93.1	85-115	2.07	20	
Zinc	0.0546	0.0010	mg/kg dry	0.0500		109	80-120	2.57	20	
Arsenic	0.0512	0.0005	mg/kg dry	0.0500		102	85-115	3.08	20	
Cadmium	0.0506	0.0001	mg/kg dry	0.0500		101	85-115	0.983	20	
Barium	0.0490	0.0005	mg/kg dry	0.0500		98.0	85-115	1.49	20	
Silver	0.0472	0.0001	mg/kg dry	0.0500		94.5	85-115	0.177	20	
Manganese	0.0482	0.0005	mg/kg dry	0.0500		96.5	85-115	2.16	20	

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: D D LANDFARM
Project Number: DD LF
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
27-Jun-14 12:18

Total Metals by ICPMS - Quality Control

Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B406037 - EPA 3050M

LCS Dup (B406037-BSD1)

Prepared & Analyzed: 04-Jun-14

Lead	0.0485	0.0005	mg/kg dry	0.0500		96.9	85-115	3.24	20	
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Batch B406165 - EPA 3050M

Blank (B406165-BLK1)

Prepared: 18-Jun-14 Analyzed: 19-Jun-14

Arsenic	ND	0.0005	mg/kg dry							
Manganese	ND	0.0005	mg/kg dry							
Chromium	ND	0.0010	mg/kg dry							
Lead	ND	0.0005	mg/kg dry							
Copper	0.0012	0.0001	mg/kg dry							B1
Barium	ND	0.0005	mg/kg dry							
Silver	ND	0.0001	mg/kg dry							
Cadmium	ND	0.0001	mg/kg dry							
Selenium	ND	0.0010	mg/kg dry							

LCS (B406165-BS1)

Prepared: 18-Jun-14 Analyzed: 19-Jun-14

Selenium	0.280	0.0010	mg/kg dry	0.250		112	85-115			
Manganese	0.0496	0.0005	mg/kg dry	0.0500		99.2	85-115			
Silver	0.0759	0.0001	mg/kg dry	0.0500		152	85-115			BS1a
Chromium	0.0530	0.0010	mg/kg dry	0.0500		106	85-115			
Lead	0.0524	0.0005	mg/kg dry	0.0500		105	85-115			
Arsenic	0.0548	0.0005	mg/kg dry	0.0500		110	85-115			
Barium	0.0542	0.0005	mg/kg dry	0.0500		108	85-115			
Copper	0.0537	0.0001	mg/kg dry	0.0500		107	85-115			
Cadmium	0.0545	0.0001	mg/kg dry	0.0500		109	85-115			

LCS Dup (B406165-BSD1)

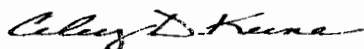
Prepared: 18-Jun-14 Analyzed: 19-Jun-14

Barium	0.0529	0.0005	mg/kg dry	0.0500		106	85-115	2.45	20	
Silver	0.0749	0.0001	mg/kg dry	0.0500		150	85-115	1.29	20	BS1a
Manganese	0.0504	0.0005	mg/kg dry	0.0500		101	85-115	1.48	20	
Arsenic	0.0573	0.0005	mg/kg dry	0.0500		115	85-115	4.38	20	
Copper	0.0535	0.0001	mg/kg dry	0.0500		107	85-115	0.378	20	
Chromium	0.0531	0.0010	mg/kg dry	0.0500		106	85-115	0.283	20	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Eddie Seay Consulting
 601 W. Illinois
 Hobbs NM, 88242

 Project: D D LANDFARM
 Project Number: DD LF
 Project Manager: Eddie Seay
 Fax To: (505) 392-6949

 Reported:
 27-Jun-14 12:18

Total Metals by ICPMS - Quality Control
Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch B406165 - EPA 3050M
LCS Dup (B406165-BS1)

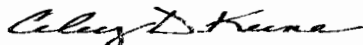
Prepared: 18-Jun-14 Analyzed: 19-Jun-14

Lead	0.0518	0.0005	mg/kg dry	0.0500		104	85-115	1.22	20	
Selenium	0.283	0.0010	mg/kg dry	0.250		113	85-115	0.979	20	
Cadmium	0.0550	0.0001	mg/kg dry	0.0500		110	85-115	0.832	20	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: D D LANDFARM
Project Number: DD LF
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
27-Jun-14 12:18

Total Mercury by CVAA - Quality Control

Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B406051 - EPA 7471

Blank (B406051-BLK1)

Prepared & Analyzed: 05-Jun-14

Mercury ND 0.0002 mg/kg wet

LCS (B406051-BS1)

Prepared & Analyzed: 05-Jun-14

Mercury 0.0020 0.0002 mg/kg wet 0.00200 99.0 85-115

LCS Dup (B406051-BSD1)

Prepared & Analyzed: 05-Jun-14

Mercury 0.0020 0.0002 mg/kg wet 0.00200 101 85-115 1.90 20

Batch B406125 - EPA 7471

Blank (B406125-BLK1)

Prepared & Analyzed: 13-Jun-14

Mercury ND 0.0002 mg/kg wet

LCS (B406125-BS1)

Prepared & Analyzed: 13-Jun-14

Mercury 0.0020 0.0002 mg/kg wet 0.00200 102 85-115

LCS Dup (B406125-BSD1)

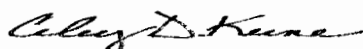
Prepared & Analyzed: 13-Jun-14

Mercury 0.0020 0.0002 mg/kg wet 0.00200 101 85-115 0.345 20

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

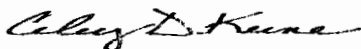
Notes and Definitions

V1	Continuing calibration verification recovery was above method acceptance limits. This target analyte was not detected in the sample.
H2	Sample analysis performed past hold time specified by the method.
BS1a	Blank spike recovery above laboratory acceptance criteria. Results for analyte potentially biased high. Will re-analyze per client request.
BS1	Blank spike recovery above laboratory acceptance criteria. Results for analyte potentially biased high.
B1	Target analyte detected in method blank at or above method reporting limit. Sample concentration found to be 10 times above the concentration found in the method blank or less than the reporting limit.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

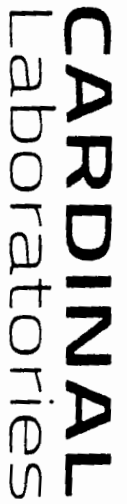
Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ANALYSIS REQUEST

+ Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2062

Company Name: <u>Edie's Environmental Consulting</u>		BILL TO		ANALYSIS REQUEST																		
Project Manager: <u>Edie's</u>		P.O. #:																				
Address: <u>101 W. Illinois</u>		Company:																				
City: <u>Hobbs</u>		Attn:																				
State: <u>NM</u>		Address: <u>Edie's</u>																				
Phone #: <u>505-223-3166</u>		City:																				
Fax #: <u>505-223-3166</u>		State:																				
Project #: <u>DD Landfill</u>		Zip:																				
Project Name: <u>DD Landfill</u>		Project Owner: <u>J. Cooper</u>																				
Project Location: <u>West of Hobbs</u>		Phone #:																				
Sample Name: <u>Edie's</u>		Fax #:																				
FOR LAB USE ONLY		PRESERV		SAMPLING																		
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX				DATE	TIME	Carbon Tetrachloride Polycyclic Aromatic Hydrocarbons												
				GROUNDWATER	WASTEWATER	SOIL	OIL															
				SLUDGE	OTHER :	ACID/BASE:	ICE / COOL															OTHER :
				OTHER :	OTHER :	OTHER :	OTHER :															OTHER :
<u>DD-3A</u>	<u>1</u>	<u>5</u>	<u>1</u>	<u>5/29</u>	<u>7:20</u>																	
<u>DD-3B</u>	<u>2</u>	<u>5</u>	<u>2</u>	<u>5/29</u>	<u>8:00</u>																	
<u>DD-3C</u>	<u>2</u>	<u>5</u>	<u>2</u>	<u>5/29</u>	<u>8:40</u>																	
<u>DD-3D</u>	<u>2</u>	<u>5</u>	<u>2</u>	<u>5/29</u>	<u>9:20</u>																	
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Relinquished By: <u>[Signature]</u>		Date: <u>5/30</u>		Received By: <u>[Signature]</u>		Time: <u>9:30</u>		Phone Result: ☐ Yes ☐ No		Add'l Phone #:		REMARKS:										
Relinquished By: <u>[Signature]</u>		Date:		Received By: <u>[Signature]</u>		Time:		Phone Result: ☐ Yes ☐ No		Add'l Phone #:		REMARKS:										
Delivered By: (Circle One)		Sample Condition		CHECKED BY: <u>[Signature]</u>		Phone Result: ☐ Yes ☐ No		Add'l Phone #:		REMARKS:		REMARKS:										
Sampler - UPS - Bus - Other: <u>1.60</u>		Sample Condition		CHECKED BY: <u>[Signature]</u>		Phone Result: ☐ Yes ☐ No		Add'l Phone #:		REMARKS:		REMARKS:										

DD LANDFARM

(NM-01-0034)

MAY 2014

May 26, 2014

RECEIVED OGD

2014 JUN -6 P 2:54

NMOCD Environmental
ATTN: Brad Jones
1220 South St. Francis Dr.
Santa Fe, NM 87505

RE: DD Landfarm
(NM-01-0034)
Vadose Sampling

Mr. Jones:

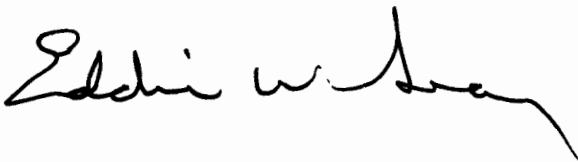
Please find the analytical for the three cells at DD Landfarm.

The Vadose samples were conducted as requested. As I told you in an earlier letter, I am doing the additional sampling for cell 3 because when compared to the background, cell 3 showed elevated TPH. I will forward results when received.

Find enclosed Vadose analytical, background test, map and copies of all the five years monitoring.

Should you have any questions or need anything further, please let me know.

Thanks for your help.



Eddie W. Seay, Agent
Eddie Seay Consulting
601 W. Illinois
Hobbs, NM 88242
575-392-2236
seay04@leaco.net

cc: DD Landfarm (J. Cooper)

May 21, 2014

Eddie Seay

Eddie Seay Consulting

601 W. Illinois

Hobbs, NM 88242

RE: DD LANDFARM (01-0034) VADOSE ZONE

Enclosed are the results of analyses for samples received by the laboratory on 04/17/14 10:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Total Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

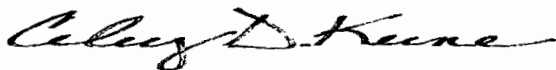
Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene
Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: DD LANDFARM (01-0034) VADOSE
Project Number: DD LANDFARM
Project Manager: Eddie Seay
Fax To: (505) 392-6949

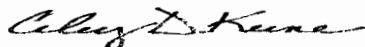
Reported:
21-May-14 15:25

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CELL - V1	H401159-01	Soil	16-Apr-14 13:40	17-Apr-14 10:40
CELL - V2	H401159-02	Soil	16-Apr-14 14:25	17-Apr-14 10:40
CELL - V3	H401159-03	Soil	16-Apr-14 15:50	17-Apr-14 10:40

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: DD LANDFARM (01-0034) VADOSE
Project Number: DD LANDFARM
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
21-May-14 15:25

CELL - V1 H401159-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Alkalinity, Bicarbonate	97.6		5.00	mg/kg	1	4040109	AP	07-May-14	310.1	
Alkalinity, Carbonate	ND		0.00	mg/kg	1	4040109	AP	07-May-14	310.1	
Chloride	ND		16.0	mg/kg	4	4042104	AP	21-Apr-14	4500-Cl-B	
Conductivity*	222		1.00	uS/cm	1	4050703	AP	07-May-14	120.1	
pH*	6.94		0.100	pH Units	1	4050607	AP	07-May-14	9045	
Sulfate	ND		100	mg/kg	10	4050506	AP	07-May-14	375.4	
Alkalinity, Total*	80.0		4.00	mg/kg	1	4040109	AP	07-May-14	310.1	

Organic Compounds

TPH 418.1	ND		100	mg/kg	10	4050602	CK	07-May-14	418.1	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	ND		0.050	mg/kg	50	4042103	CK	21-Apr-14	8021B	
Toluene*	ND		0.050	mg/kg	50	4042103	CK	21-Apr-14	8021B	
Ethylbenzene*	ND		0.050	mg/kg	50	4042103	CK	21-Apr-14	8021B	
Total Xylenes*	ND		0.150	mg/kg	50	4042103	CK	21-Apr-14	8021B	
Total BTEX	ND		0.300	mg/kg	50	4042103	CK	21-Apr-14	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			124 %	89.4-126		4042103	CK	21-Apr-14	8021B	

Green Analytical Laboratories

General Chemistry

% Dry Solids	99.3		%	1	B404212	LLG	25-Apr-14	EPA160.3	H2	
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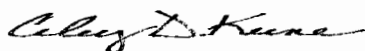
Total Metals by ICP

Calcium	340		100	mg/kg dry	100	B405009	JGS	01-May-14	EPA6010 B	
Iron	2120		5.00	mg/kg dry	100	B405009	JGS	01-May-14	EPA6010 B	
Magnesium	253		100	mg/kg dry	100	B405009	JGS	01-May-14	EPA6010 B	
Potassium	350		100	mg/kg dry	100	B405009	JGS	01-May-14	EPA6010 B	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: DD LANDFARM (01-0034) VADOSE
Project Number: DD LANDFARM
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
21-May-14 15:25

CELL - V1
H401159-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	--------------------	-------	----------	-------	---------	----------	--------	-------

Green Analytical Laboratories
Total Metals by ICP

Sodium	ND		100	mg/kg dry	100	B405009	JGS	01-May-14	EPA6010 B	
Zinc	4.69	0.254	5.00	mg/kg dry	100	B405009	JGS	01-May-14	EPA6010 B	J

Total Metals by ICPMS

Arsenic	0.619		0.500	mg/kg dry	1000	B404222	JGS	25-Apr-14	6020 A	
Barium	9.34		0.500	mg/kg dry	1000	B404222	JGS	25-Apr-14	6020 A	
Cadmium	ND		0.100	mg/kg dry	1000	B404222	JGS	25-Apr-14	6020 A	
Chromium	1.75		1.00	mg/kg dry	1000	B404222	JGS	25-Apr-14	6020 A	
Copper	ND		0.100	mg/kg dry	1000	B404222	JGS	25-Apr-14	6020 A	
Lead	1.40		0.500	mg/kg dry	1000	B404222	JGS	25-Apr-14	6020 A	
Manganese	14.9		0.500	mg/kg dry	1000	B404222	JGS	25-Apr-14	6020 A	
Selenium	ND		1.00	mg/kg dry	1000	B404222	JGS	25-Apr-14	6020 A	
Silver	ND		0.100	mg/kg dry	1000	B404222	JGS	25-Apr-14	6020 A	

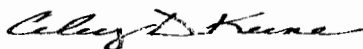
Total Mercury by CVAA

Mercury	ND		0.0977	mg/kg dry	485	B404245	JGS	30-Apr-14	EPA7471	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: DD LANDFARM (01-0034) VADOSE
Project Number: DD LANDFARM
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
21-May-14 15:25

CELL - V2 H401159-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Alkalinity, Bicarbonate	117		5.00	mg/kg	1	4040109	AP	07-May-14	310.1	
Alkalinity, Carbonate	ND		0.00	mg/kg	1	4040109	AP	07-May-14	310.1	
Chloride	ND		16.0	mg/kg	4	4042104	AP	21-Apr-14	4500-Cl-B	
Conductivity*	226		1.00	uS/cm	1	4050703	AP	07-May-14	120.1	
pH*	7.20		0.100	pH Units	1	4050607	AP	07-May-14	9045	
Sulfate	ND		100	mg/kg	10	4050506	AP	07-May-14	375.4	
Alkalinity, Total*	96.0		4.00	mg/kg	1	4040109	AP	07-May-14	310.1	

Organic Compounds

TPH 418.1	ND		100	mg/kg	10	4050602	CK	07-May-14	418.1	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	ND		0.050	mg/kg	50	4042103	CK	21-Apr-14	8021B	
Toluene*	ND		0.050	mg/kg	50	4042103	CK	21-Apr-14	8021B	
Ethylbenzene*	ND		0.050	mg/kg	50	4042103	CK	21-Apr-14	8021B	
Total Xylenes*	ND		0.150	mg/kg	50	4042103	CK	21-Apr-14	8021B	
Total BTEX	ND		0.300	mg/kg	50	4042103	CK	21-Apr-14	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			121 %	89.4-126		4042103	CK	21-Apr-14	8021B	

Green Analytical Laboratories

General Chemistry

% Dry Solids	98.8		%	1	B404212	LLG	25-Apr-14	EPA160.3	H2	
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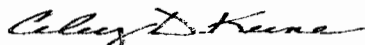
Total Metals by ICP

Calcium	378		100	mg/kg dry	100	B405009	JGS	01-May-14	EPA6010 B	
Iron	1980		5.00	mg/kg dry	100	B405009	JGS	01-May-14	EPA6010 B	
Magnesium	246		100	mg/kg dry	100	B405009	JGS	01-May-14	EPA6010 B	
Potassium	348		100	mg/kg dry	100	B405009	JGS	01-May-14	EPA6010 B	
Sodium	ND		100	mg/kg dry	100	B405009	JGS	01-May-14	EPA6010 B	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: DD LANDFARM (01-0034) VADOSE
Project Number: DD LANDFARM
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
21-May-14 15:25

CELL - V2 H401159-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Green Analytical Laboratories

Total Metals by ICP

Zinc	4.60	0.254	5.00	mg/kg dry	100	B405009	JGS	01-May-14	EPA6010 B	J
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Total Metals by ICPMS

Arsenic	0.620		0.500	mg/kg dry	1000	B404222	JGS	25-Apr-14	6020 A	
Barium	9.23		0.500	mg/kg dry	1000	B404222	JGS	25-Apr-14	6020 A	
Cadmium	ND		0.100	mg/kg dry	1000	B404222	JGS	25-Apr-14	6020 A	
Chromium	1.58		1.00	mg/kg dry	1000	B404222	JGS	25-Apr-14	6020 A	
Copper	ND		0.100	mg/kg dry	1000	B404222	JGS	25-Apr-14	6020 A	
Lead	1.44		0.500	mg/kg dry	1000	B404222	JGS	25-Apr-14	6020 A	
Manganese	15.2		0.500	mg/kg dry	1000	B404222	JGS	25-Apr-14	6020 A	
Selenium	ND		1.00	mg/kg dry	1000	B404222	JGS	25-Apr-14	6020 A	
Silver	ND		0.100	mg/kg dry	1000	B404222	JGS	25-Apr-14	6020 A	

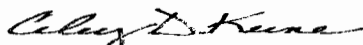
Total Mercury by CVAA

Mercury	ND		0.0972	mg/kg dry	480	B404245	JGS	30-Apr-14	EPA7471	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: DD LANDFARM (01-0034) VADOSE
Project Number: DD LANDFARM
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
21-May-14 15:25

CELL - V3 H401159-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Alkalinity, Bicarbonate	410		5.00	mg/kg	1	4040109	AP	07-May-14	310.1	
Alkalinity, Carbonate	ND		0.00	mg/kg	1	4040109	AP	07-May-14	310.1	
Chloride	ND		16.0	mg/kg	4	4042104	AP	21-Apr-14	4500-Cl-B	
Conductivity*	622		1.00	uS/cm	1	4050703	AP	07-May-14	120.1	
pH*	7.51		0.100	pH Units	1	4050607	AP	07-May-14	9045	
Sulfate	ND		40.0	mg/kg	4	4050506	AP	07-May-14	375.4	
Alkalinity, Total*	336		4.00	mg/kg	1	4040109	AP	07-May-14	310.1	

Organic Compounds

TPH 418.1	332		100	mg/kg	10	4050602	CK	20-May-14	418.1	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	ND		0.050	mg/kg	50	4042103	CK	21-Apr-14	8021B	
Toluene*	ND		0.050	mg/kg	50	4042103	CK	21-Apr-14	8021B	
Ethylbenzene*	ND		0.050	mg/kg	50	4042103	CK	21-Apr-14	8021B	
Total Xylenes*	ND		0.150	mg/kg	50	4042103	CK	21-Apr-14	8021B	
Total BTEX	ND		0.300	mg/kg	50	4042103	CK	21-Apr-14	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			121 %	89.4-126		4042103	CK	21-Apr-14	8021B	

Green Analytical Laboratories

General Chemistry

% Dry Solids	99.1		%	1	B404212	LLG	25-Apr-14	EPA160.3	H2	
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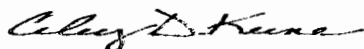
Total Metals by ICP

Calcium	2540		100	mg/kg dry	100	B405009	JGS	01-May-14	EPA6010 B	
Iron	2360		5.00	mg/kg dry	100	B405009	JGS	01-May-14	EPA6010 B	
Magnesium	545		100	mg/kg dry	100	B405009	JGS	01-May-14	EPA6010 B	
Potassium	509		100	mg/kg dry	100	B405009	JGS	01-May-14	EPA6010 B	
Sodium	ND		100	mg/kg dry	100	B405009	JGS	01-May-14	EPA6010 B	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Eddie Seay Consulting
 601 W. Illinois
 Hobbs NM, 88242

 Project: DD LANDFARM (01-0034) VADOSE
 Project Number: DD LANDFARM
 Project Manager: Eddie Seay
 Fax To: (505) 392-6949

 Reported:
 21-May-14 15:25

CELL - V3
H401159-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Green Analytical Laboratories
Total Metals by ICP

Zinc	7.10	0.254	5.00	mg/kg dry	100	B405009	JGS	01-May-14	EPA6010 B	
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Total Metals by ICPMS

Arsenic	0.770		0.500	mg/kg dry	1000	B404222	JGS	25-Apr-14	6020 A	
Barium	17.3		0.500	mg/kg dry	1000	B404222	JGS	25-Apr-14	6020 A	
Cadmium	ND		0.100	mg/kg dry	1000	B404222	JGS	25-Apr-14	6020 A	
Chromium	1.90		1.00	mg/kg dry	1000	B404222	JGS	25-Apr-14	6020 A	
Copper	0.326		0.100	mg/kg dry	1000	B404222	JGS	25-Apr-14	6020 A	
Lead	2.21		0.500	mg/kg dry	1000	B404222	JGS	25-Apr-14	6020 A	
Manganese	24.7		0.500	mg/kg dry	1000	B404222	JGS	25-Apr-14	6020 A	
Selenium	ND		1.00	mg/kg dry	1000	B404222	JGS	25-Apr-14	6020 A	
Silver	ND		0.100	mg/kg dry	1000	B404222	JGS	25-Apr-14	6020 A	

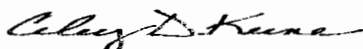
Total Mercury by CVAA

Mercury	ND		0.0959	mg/kg dry	475	B404245	JGS	30-Apr-14	EPA7471	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: DD LANDFARM (01-0034) VADOSE
Project Number: DD LANDFARM
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
21-May-14 15:25

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4040109 - General Prep - Wet Chem

Blank (4040109-BLK1)

Prepared: 27-Mar-14 Analyzed: 01-Apr-14

Alkalinity, Carbonate	ND	0.00	mg/kg							
Alkalinity, Bicarbonate	ND	5.00	mg/kg							
Alkalinity, Total	ND	4.00	mg/kg							

LCS (4040109-BS1)

Prepared: 27-Mar-14 Analyzed: 01-Apr-14

Alkalinity, Carbonate	ND	0.00	mg/kg				80-120			
Alkalinity, Bicarbonate	117	5.00	mg/kg				80-120			
Alkalinity, Total	96.0	4.00	mg/kg	100		96.0	80-120			

LCS Dup (4040109-BSD1)

Prepared: 27-Mar-14 Analyzed: 01-Apr-14

Alkalinity, Carbonate	ND	0.00	mg/kg				80-120		20	
Alkalinity, Bicarbonate	122	5.00	mg/kg				80-120	4.08	20	
Alkalinity, Total	100	4.00	mg/kg	100		100	80-120	4.08	20	

Batch 4042104 - 1:4 DI Water

Blank (4042104-BLK1)

Prepared & Analyzed: 21-Apr-14

Chloride	ND	16.0	mg/kg							
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LCS (4042104-BS1)

Prepared & Analyzed: 21-Apr-14

Chloride	416	16.0	mg/kg	400		104	80-120			
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LCS Dup (4042104-BSD1)

Prepared & Analyzed: 21-Apr-14

Chloride	416	16.0	mg/kg	400		104	80-120	0.00	20	
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Batch 4050506 - General Prep - Wet Chem

Blank (4050506-BLK1)

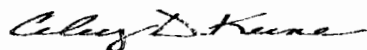
Prepared: 05-May-14 Analyzed: 07-May-14

Sulfate	ND	10.0	mg/kg							
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Eddie Seay Consulting
 601 W. Illinois
 Hobbs NM, 88242

 Project: DD LANDFARM (01-0034) VADOSE
 Project Number: DD LANDFARM
 Project Manager: Eddie Seay
 Fax To: (505) 392-6949

 Reported:
 21-May-14 15:25

Inorganic Compounds - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4050506 - General Prep - Wet Chem
LCS (4050506-BS1)

Prepared: 05-May-14 Analyzed: 07-May-14

Sulfate	20.1	10.0	mg/kg	20.0	101	80-120				
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LCS Dup (4050506-BSD1)

Prepared: 05-May-14 Analyzed: 07-May-14

Sulfate	19.1	10.0	mg/kg	20.0	95.7	80-120	5.04	20		
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Batch 4050607 - NO PREP
LCS (4050607-BS1)

Prepared & Analyzed: 06-May-14

pH	7.14		pH Units	7.00	102	90-110				
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Duplicate (4050607-DUP1)

Source: H401190-01

Prepared & Analyzed: 06-May-14

pH	8.70	0.100	pH Units	8.64			0.692	20		
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Batch 4050703 - General Prep - Wet Chem
LCS (4050703-BS1)

Prepared & Analyzed: 07-May-14

Conductivity	508		uS/cm	500	102	80-120				
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Duplicate (4050703-DUP1)

Source: H401159-01

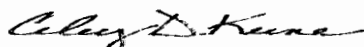
Prepared & Analyzed: 07-May-14

Conductivity	220	1.00	uS/cm	222			1.27	20		
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Eddie Seay Consulting
 601 W. Illinois
 Hobbs NM, 88242

 Project: DD LANDFARM (01-0034) VADOSE
 Project Number: DD LANDFARM
 Project Manager: Eddie Seay
 Fax To: (505) 392-6949

 Reported:
 21-May-14 15:25

Organic Compounds - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
Batch 4050602 - Solvent Extraction								
Blank (4050602-BLK1)				Prepared & Analyzed: 07-May-14				
TPH 418.1	ND	100	mg/kg					
LCS (4050602-BS1)				Prepared & Analyzed: 07-May-14				
TPH 418.1	5820	100	mg/kg	5000	116	80-120		
LCS Dup (4050602-BSD1)				Prepared & Analyzed: 07-May-14				
TPH 418.1	5790	100	mg/kg	5000	116	80-120	0.603	20

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: DD LANDFARM (01-0034) VADOSE
Project Number: DD LANDFARM
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
21-May-14 15:25

Volatile Organic Compounds by EPA Method 8021 - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 4042103 - Volatiles
Blank (4042103-BLK1)

Prepared & Analyzed: 21-Apr-14

Benzene	ND	0.050	mg/kg						
Toluene	ND	0.050	mg/kg						
Ethylbenzene	ND	0.050	mg/kg						
Total Xylenes	ND	0.150	mg/kg						
Total BTEX	ND	0.300	mg/kg						
Surrogate: 4-Bromofluorobenzene (PID)	0.0602		mg/kg	0.0500		120	89.4-126		

LCS (4042103-BS1)

Prepared & Analyzed: 21-Apr-14

Benzene	2.23	0.050	mg/kg	2.00		111	76.4-135		
Toluene	2.09	0.050	mg/kg	2.00		104	80.2-135		
Ethylbenzene	2.08	0.050	mg/kg	2.00		104	78.5-133		
Total Xylenes	6.00	0.150	mg/kg	6.00		99.9	80.1-135		
Surrogate: 4-Bromofluorobenzene (PID)	0.0604		mg/kg	0.0500		121	89.4-126		

LCS Dup (4042103-BSD1)

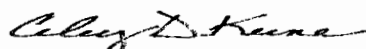
Prepared & Analyzed: 21-Apr-14

Benzene	2.44	0.050	mg/kg	2.00		122	76.4-135	9.14	16.4
Toluene	2.29	0.050	mg/kg	2.00		114	80.2-135	9.06	16.6
Ethylbenzene	2.27	0.050	mg/kg	2.00		114	78.5-133	8.91	16.1
Total Xylenes	6.54	0.150	mg/kg	6.00		109	80.1-135	8.68	15.8
Surrogate: 4-Bromofluorobenzene (PID)	0.0591		mg/kg	0.0500		118	89.4-126		

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: DD LANDFARM (01-0034) VADOSE
Project Number: DD LANDFARM
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
21-May-14 15:25

Total Metals by ICP - Quality Control
Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B405009 - EPA 3050
Blank (B405009-BLK1)

Prepared & Analyzed: 01-May-14

Sodium	ND	1.00	mg/kg dry							
Zinc	0.009	0.050	mg/kg dry							
Potassium	ND	1.00	mg/kg dry							
Magnesium	ND	1.00	mg/kg dry							
Calcium	ND	1.00	mg/kg dry							
Iron	ND	0.050	mg/kg dry							

LCS (B405009-BS1)

Prepared & Analyzed: 01-May-14

Potassium	7.60	1.00	mg/kg dry	8.00		95.0	85-115			
Iron	3.93	0.050	mg/kg dry	4.00		98.2	85-115			
Calcium	3.81	1.00	mg/kg dry	4.00		95.2	85-115			
Magnesium	19.9	1.00	mg/kg dry	20.0		99.5	85-115			
Sodium	6.30	1.00	mg/kg dry	6.48		97.2	85-115			
Zinc	1.82	0.050	mg/kg dry	2.00		91.2	85-115			

LCS Dup (B405009-BSD1)

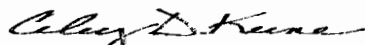
Prepared & Analyzed: 01-May-14

Magnesium	20.4	1.00	mg/kg dry	20.0		102	85-115	2.66	20	
Zinc	1.88	0.050	mg/kg dry	2.00		93.8	85-115	2.84	20	
Potassium	7.98	1.00	mg/kg dry	8.00		99.8	85-115	4.93	20	
Calcium	3.91	1.00	mg/kg dry	4.00		97.8	85-115	2.77	20	
Sodium	6.39	1.00	mg/kg dry	6.48		98.7	85-115	1.47	20	
Iron	4.05	0.050	mg/kg dry	4.00		101	85-115	2.93	20	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: DD LANDFARM (01-0034) VADOSE
Project Number: DD LANDFARM
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
21-May-14 15:25

Total Metals by ICPMS - Quality Control

Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B404222 - EPA 3050M

Blank (B404222-BLK1)

Prepared & Analyzed: 25-Apr-14

Selenium	ND	0.0010	mg/kg dry							
Manganese	ND	0.0005	mg/kg dry							
Barium	ND	0.0005	mg/kg dry							
Lead	ND	0.0005	mg/kg dry							
Arsenic	ND	0.0005	mg/kg dry							
Copper	ND	0.0001	mg/kg dry							
Chromium	ND	0.0010	mg/kg dry							
Silver	ND	0.0001	mg/kg dry							
Cadmium	ND	0.0001	mg/kg dry							

LCS (B404222-BS1)

Prepared & Analyzed: 25-Apr-14

Barium	0.0504	0.0005	mg/kg dry	0.0500		101	85-115			
Cadmium	0.0492	0.0001	mg/kg dry	0.0500		98.4	85-115			
Selenium	0.247	0.0010	mg/kg dry	0.250		99.0	85-115			
Copper	0.0489	0.0001	mg/kg dry	0.0500		97.9	85-115			
Lead	0.0502	0.0005	mg/kg dry	0.0500		100	85-115			
Manganese	0.0461	0.0005	mg/kg dry	0.0500		92.2	85-115			
Arsenic	0.0469	0.0005	mg/kg dry	0.0500		93.7	85-115			
Silver	0.0455	0.0001	mg/kg dry	0.0500		90.9	85-115			
Chromium	0.0464	0.0010	mg/kg dry	0.0500		92.8	85-115			

LCS Dup (B404222-BS1)

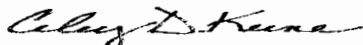
Prepared & Analyzed: 25-Apr-14

Barium	0.0501	0.0005	mg/kg dry	0.0500		100	85-115	0.596	20	
Arsenic	0.0490	0.0005	mg/kg dry	0.0500		98.1	85-115	4.50	20	
Cadmium	0.0514	0.0001	mg/kg dry	0.0500		103	85-115	4.36	20	
Chromium	0.0489	0.0010	mg/kg dry	0.0500		97.8	85-115	5.26	20	
Selenium	0.259	0.0010	mg/kg dry	0.250		103	85-115	4.39	20	
Copper	0.0528	0.0001	mg/kg dry	0.0500		106	85-115	7.54	20	
Lead	0.0505	0.0005	mg/kg dry	0.0500		101	85-115	0.544	20	
Manganese	0.0499	0.0005	mg/kg dry	0.0500		99.8	85-115	7.96	20	
Silver	0.0479	0.0001	mg/kg dry	0.0500		95.8	85-115	5.28	20	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Eddie Seay Consulting
 601 W. Illinois
 Hobbs NM, 88242

 Project: DD LANDFARM (01-0034) VADOSE
 Project Number: DD LANDFARM
 Project Manager: Eddie Seay
 Fax To: (505) 392-6949

 Reported:
 21-May-14 15:25

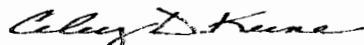
Total Mercury by CVAA - Quality Control
Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B404245 - EPA 7471										
Blank (B404245-BLK1)										
					Prepared & Analyzed: 30-Apr-14					
Mercury	ND	0.0002	mg/kg wet							
LCS (B404245-BS1)										
					Prepared & Analyzed: 30-Apr-14					
Mercury	0.0020	0.0002	mg/kg wet	0.00200		101	85-115			
LCS Dup (B404245-BSD1)										
					Prepared & Analyzed: 30-Apr-14					
Mercury	0.0021	0.0002	mg/kg wet	0.00200		104	85-115	2.98	20	

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

J	Estimated concentration. Analyte concentration between MDL and RL.
H2	Sample analysis performed past hold time specified by the method.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories***=Accredited Analyte**

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

**101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476**

Company Name: Eddie's Security Consulting Project Manager: Edna Sanyal Address: 1001 W Illinois City: Chicago State: IL Zip: 60642 Phone #: 773-2234 Fax #: 773-6946 Project #: DD LF Project Owner: J. Cooper Project Name: DD Landform (NPM-1-034) Project Location: 10.6 miles W of 31-21-39 Sample Name: Eddie's Security FOR LAB USE ONLY		P.O. #: _____ Company: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____	
Lab I.D. H401154 Sample I.D. 1 Cell - V1 2 Cell - V2 3 Cell - V3	(G)RAB OR (C)OMP ☒ # CONTAINERS 3 GROUNDWATER ✓ WASTEWATER ✓ SOIL ✓ OIL ✓ SLUDGE ✓ OTHER ✓ ACID/BASE ✓ ICE / COOL ✓ OTHER ✓	MATRIX ✓ PRESERV ✓ SAMPLING ✓ DATE 4/14 TIME 1:40 4/14 2:25 4/14 3:50	ANALYSIS REQUEST TPH (418.1) BTEX 80218482603 Cations Anions Chloride (300.1) trace metals

RELEASE NOTE: Liability and Damages: Contractor's liability and the client's release are limited to the amount paid by the client for the service. In no event shall the client be liable for incidental or consequential damages, including without limitation, business interruption, loss of use or loss of profits, incurred by the client as a result of the release of the above stated information or otherwise.

Relinquished By: **[Signature]** Date: **4/17** Received By: **[Signature]** Date: **4/17**
 Relinquished By: **[Signature]** Date: **10/40** Received By: **[Signature]** Date: **10/40**

Delivered By: (Circle One) **3.60**
 Sampler - UPS - Bus - Other: **3.60**

Sample Condition: ☒ Cool ☐ Intact ☐ Yes ☐ No
 CHECKED BY: **[Signature]**

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

REMARKS: **Add'l and Volcano test**

BACKGROUND AND PQL

CHAIN-OF-CUSTODY RECORD

Client:

Eddie Saary Consulting

Project Name:

DD Landfarm

Address:

601 W Illinois

Project #:

DD soil samples

Project Manager:

Eddie Saary / R. Bradshaw

Hobbs N.W.

Phone #:

585. 392. 2236

Sampler:

Eddie Saary

Fax #:

392. 6949

Samples Cold?:

☒ Yes ☐ No

Date

Time

Matrix

Sample I.D. No.

Number/Volume

Preservative
HgCl₂ HCl

HEAL No.

11/27

2:30

Background #1

3

021129-18

ANALYSIS REQUEST

BTEX + MTBE + TMB's (8021) ☒

BTEX + MTBE + TPH (Gasoline Only) ☐

TPH Method 8015B MOD (Gas/Diesel) ☒

TPH (Method 418.1) ☐

8310 (PNA or PAH) ☐

RCRA 8 Metals ☐

Cations (Na, K, Ca, Mg) ☒

Anions (F, Cl, NO₃, NO₂, PO₄, SO₄) ☒

8081 Pesticides / PCB's (8082) ☐

TCLP Metals ☒

Date:

11/28

Time:

7:30 AM

Relinquished By: (Signature)

Eddie Saary

Received By: (Signature)

[Signature]

Date:

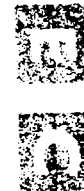
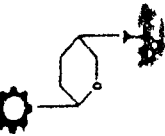
Time:

Relinquished By: (Signature)

Received By: (Signature)

Remarks:

Background soil at site.



ECD Environmental,

ECD Environmental, Inc.

Client: Eddie Seay Consulting
Project: DD Quarterly
Project Manager: Eddie Seay
Project Number:

Date Collected: 11/27/00
Date Received: 11/28/00
Sample Matrix: Soil
Extraction Date: 11/29/00

EPA Method 8021 BTEX

Heal ID	Client ID	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-Benzene (mg/kg)	Total Xylenes (mg/kg)
001129-18	Background #1	ND	ND	ND	ND
MRL		0.05	0.05	0.05	0.05

ECD Environmental, Inc.

Client: Eddie Seay Consulting
Project: DD Quarterly
Project Manager: Eddie Seay
Project Number:

Date Collected: 11/26/00
Date Received: 11/28/00
Sample Matrix: Soil
Extraction Date: 11/29/00

EPA Method 8015 DRO

Heal ID	Client ID	Dilution	TPH (DRO) (mg/kg)	Analysis Date
001129-18	Background #1	1	ND	11/29/00
Extraction Blank		1	ND	11/29/00

QC/QA

<u>Sample ID</u>	<u>Sample Amount</u>	<u>Spike</u>	<u>Recovery</u>	<u>%Recovery</u>
001129-18 MS	ND	100 ppm	95 ppm	95%
001129-18 MSD	100		100	

Hall Environmental Analysis Laboratory

Date: 28-Dec-00

CLIENT: ECD Environmental
Lab Order: 0012027
Project: Land Farm
Lab ID: 0012027-18B

Client Sample ID: Background 2' #1
Tag Number:
Collection Date: 12/4/00
Matrix: SOIL

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ANIONS BY 300.0		E300				Analyst: SDU
Bromide	ND	1.5		mg/Kg	5	12/20/00
Chloride	2.0	1.5		mg/Kg	5	12/20/00
Fluoride	ND	1.5		mg/Kg	5	12/20/00
Nitrogen, Nitrate (As N)	4.2	1.5		mg/Kg	5	12/20/00
Nitrogen, Nitrite (As N)	ND	1.5		mg/Kg	5	12/20/00
Phosphorus, Dissolved Orthophosphate (As P)	ND	7.5		mg/Kg	5	12/20/00
Sulfate	ND	7.5		mg/Kg	5	12/20/00

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Hall Environmental Analysis Laboratory

Date: 28-Dec-00

CLIENT: ECD Environmental
Work Order: 0012027
Project: Land Farm

QC SUMMARY REPORT
Method Blank

Sample ID: blk	Batch ID: R347	Test Code: E300	Units: mg/Kg	Analysis Date: 12/20/00	Prep Date:
Client ID:	Run ID: WC_001220A	SeqNo: 6714			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Bromide	ND	0.30			
Chloride	ND	0.30			
Fluoride	ND	0.30			
Nitrate (As N)+Nitrite (As N)	ND	0			
Nitrogen, Nitrite (As N)	ND	0.30			
Phosphorus, Dissolved Orthophosphate	ND	1.5			
Sulfate	ND	1.5			

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory

Date: 28-Dec-00

CLIENT: ECD Environmental

Work Order: 0012027

Project: Land Farm

QC SUMMARY REPORT

Sample Duplicate

Sample ID: 0012027-18B Batch ID: R347 Test Code: E300 Units: mg/Kg Analysis Date: 12/20/00 Prep Date: 12/20/00

Client ID: Background 2' #1 Run ID: WC_001220A SeqNo: 7044

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPD limit	Qual
Bromide	ND	1.5	0	0	0	0	0	0	0	15	
Chloride	2.1	1.5	0	0	0	0	0	2	4.88	15	
Fluoride	ND	1.5	0	0	0	0	0	0	0	15	
Nitrogen, Nitrite (As N)	ND	1.5	0	0	0	0	0	0	0	15	
Phosphorus, Dissolved Orthophosphate	ND	7.5	0	0	0	0	0	0	0	15	
Sulfate	ND	7.5	0	0	0	0	0	0	0	15	

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory

Date: 28-Dec-00

CLIENT: ECD Environmental
 Work Order: 0012027
 Project: Land Farm

QC SUMMARY REPORT
 Laboratory Control Spike - generic

Sample ID: lcs	Batch ID: R347	Test Code: E300	Units: mg/Kg	Analysis Date: 12/20/00	Prep Date:						
Client ID:	Run ID: WC_001220A	SeqNo: 6717									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Lowlimit	Highlimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromide	2.88	0.30	3	0	96.0	85	115	0			
Chloride	5.404	0.30	6	0	90.1	85	115	0			
Fluoride	0.56	0.30	0.6	0	93.3	85	115	0			
Nitrogen, Nitrite (As N)	1.122	0.30	1.2	0	93.5	85	115	0			
Phosphorus, Dissolved Orthophosphate	5.59	1.5	6	0	93.2	85	115	0			
Sulfate	11.09	1.5	12	0	92.4	85	115	0			

Sample ID: lcsd	Batch ID: R347	Test Code: E300	Units: mg/Kg	Analysis Date: 12/20/00	Prep Date:						
Client ID:	Run ID: WC_001220A	SeqNo: 6718									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	Lowlimit	Highlimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromide	2.813	0.30	3	0	93.8	85	115	2.88	2.35	15	
Chloride	5.33	0.30	6	0	88.8	85	115	5.404	1.38	15	
Fluoride	0.549	0.30	0.6	0	91.5	85	115	0.56	1.98	15	
Nitrogen, Nitrite (As N)	1.111	0.30	1.2	0	92.6	85	115	1.122	0.985	15	
Phosphorus, Dissolved Orthophosphate	5.515	1.5	6	0	91.9	85	115	5.59	1.35	15	
Sulfate	10.97	1.5	12	0	91.4	85	115	11.09	1.09	15	

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

REPORT OF ANALYTICAL RES

Page

CLIENT : BALL, ENVIRONMENTAL

Sample Receipt : 12/12/00

Date of Report :12/18/00

SVL JOB NO

SVL ID	CLIENT SAMPLE ID	Test	Ag	As	Ba	Cd	Cr	Pb	Se
		Method							
W251363	0312027-1MA-	12/04/200	<0.01mg/L	<0.02mg/L	1.55mg/L	<0.004mg/L	<0.012mg/L	<0.01mg/L	<0.02mg/L

Reviewed By:

Date: 12/16/00

New Mexico Limits

Rule 53 G. 6.

(e) The concentration of the constituents listed in Subsections A and B of 20.6.2.3103 NMAC, as determined by EPA SW-846 Methods 6010B or 6020, or other methods approved by the division, shall not exceed the background soil concentration or the applicable closure concentration specified below, or an acceptable Practical Quantitation Limit, whichever is greater:

Landfarm Soil Closure Standards		Concentration (mg/kg)
Constituent		(Except where noted)
(i)	Arsenic (As)	0.0146
(ii)	Barium (Ba)	106
(iii)	Cadmium (Cd)	1.37
(iv)	Chromium (Cr)	2.10
(v)	Cyanide (CN)	7.35
(vi)	Fluoride (F)	329
(vii)	Lead (Pb)	400
(viii)	Total Mercury (Hg)	334
(ix)	Nitrate (NO ₃ as N)	17.1
(x)	Selenium (Se)	0.953
(xi)	Silver (Ag)	1.57
(xii)	Uranium (U)	16
(xiii)	Radioactivity: Combined Radium-226 and Radium-228	30 pCi/g
(xiv)	Polychlorinated biphenyls (PCBs)	0.0224
(xv)	Toluene	0.347
(xvi)	Carbon Tetrachloride	0.000988
(xvii)	1,2-dichloroethane (EDC)	0.000248
(xviii)	1,1-dichloroethylene (1,1-DCE)	0.133
(xix)	1,1,2,2- tetrachloroethylene (PCE)	0.00215
(xx)	1,1,2-trichloroethylene (TCE)	0.000131
(xxi)	ethylbenzene	1.01
(xxii)	total xylenes	0.167
(xxiii)	methylene chloride	0.00853
(xxiv)	chloroform	0.000414
(xxv)	1,1-dichloroethane	0.201
(xxvi)	ethylene dibromide (EDB)	0.000013
(xxvii)	1,1,1-trichloroethane	1.34

(xxviii)	1,1,2-trichloroethane	0.000498
(xxix)	1,1,2,2-tetrachloroethane	0.000172
(xxx)	vinyl chloride	0.000143
(xxxi)	PAHs: total naphthalene plus monomethylnaphthalenes	0.0197
(xxxii)	benzo-a-pyrene	0.6210
(xxxiii)	Chloride (Cl)	1000
(xxxiv)	Copper (Cu)	51.5
(xxxv)	Iron (Fe)	277
(xxxvi)	Manganese (Mn)	334
(xxxvii)	Phenols	2.37
(xxxviii)	Sulfate (SO4)	background
(xxxix)	Zinc (Zn)	682

5 YEAR TEST



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

April 12, 2013

Eddie Seay
Eddie Seay Consulting
601 W. Illinois
Hobbs, NM 88242

RE: DD LANDFARM (01-0034) 5 YR MONITORING

Enclosed are the results of analyses for samples received by the laboratory on 03/14/13 9:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/

Cardinal Laboratories is ac

Health and Environment for:

Method EPA 552.2
Method EPA 524.2
Method EPA 524.4

Accreditation applies to pr

This report meets NELAP
chain-of-custody. If you

s, and a copy of the original
contact me.

Sincerely,

Celey D. Keene
Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: DD LANDFARM (01-0034) 5 YR MO
Project Number: DD LANDFARM
Project Manager: Eddie Seay
Fax To: (505) 392-6949

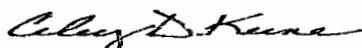
Reported:
12-Apr-13 16:03

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CELL 1 - 1	H300636-01	Soil	13-Mar-13 13:45	14-Mar-13 09:20
CELL 1 - 2	H300636-02	Soil	13-Mar-13 14:35	14-Mar-13 09:20
CELL 1 - 3	H300636-03	Soil	13-Mar-13 15:15	14-Mar-13 09:20
CELL 1 - 4	H300636-04	Soil	13-Mar-13 16:10	14-Mar-13 09:20

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: DD LANDFARM (01-0034) 5 YR MO
Project Number: DD LANDFARM
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
12-Apr-13 16:03

CELL 1 - 1
H300636-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Inorganic Compounds

Chloride	ND	16.0	mg/kg	4	3031503	DW	18-Mar-13	4500-Cl-B	
pH*	7.91	0.100	pH Units	1	3031501	DW	15-Mar-13	9045	
Phenols	ND	0.5	mg/kg dry wt.	1	3041212	CK	04-Apr-13	EPA9065	GAL
Sulfate	ND	40.0	mg/kg	4	3031803	AP	20-Mar-13	375.4	

Organic Compounds

GRO C6-C10	ND	10.0	mg/kg	1	3031801	MS	18-Mar-13	8015M	
DRO >C10-C28	ND	10.0	mg/kg	1	3031801	MS	18-Mar-13	8015M	
Surrogate: 1-Chlorooctane		71.3 %	65.2-140		3031801	MS	18-Mar-13	8015M	
Surrogate: 1-Chlorooctadecane		93.0 %	63.6-154		3031801	MS	18-Mar-13	8015M	

Organic Compounds
SUB-SS

PCB 1016	ND	10.0	ug/kg	1	3041211	CK	21-Mar-13	8082	
PCB 1221	ND	10.0	ug/kg	1	3041211	CK	21-Mar-13	8082	
PCB 1232	ND	10.0	ug/kg	1	3041211	CK	21-Mar-13	8082	
PCB 1242	ND	10.0	ug/kg	1	3041211	CK	21-Mar-13	8082	
PCB 1248	ND	10.0	ug/kg	1	3041211	CK	21-Mar-13	8082	
PCB 1254	ND	10.0	ug/kg	1	3041211	CK	21-Mar-13	8082	
PCB 1260	ND	10.0	ug/kg	1	3041211	CK	21-Mar-13	8082	
Surrogate: Tetrachloro-meta-xylene		54.9 %	35-140		3041211	CK	21-Mar-13	8082	

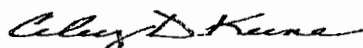
Radionuclides
SUB-RS

Radium-226	ND	0.70	pCi/gram	1	3041213	CK	28-Mar-13	903.1/904	
Radium-228	ND	0.80	pCi/gram	1	3041213	CK	28-Mar-13	903.1/904	
Total Radium	ND	0.80	pCi/gram	1	3041213	CK	28-Mar-13	903.1/904	

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*=Accredited Analyte

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601 W. Illinois
Hobbs NM, 88242

Project: DD LANDFARM (01-0034) 5 YR MO
Project Number: DD LANDFARM
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
12-Apr-13 16:03

CELL 1 - 1
H300636-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
1,1-Dichloroethene*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
Methylene chloride*	ND	0.100	mg/kg	50	3032207	ms	22-Mar-13	8260	
1,1-Dichloroethane*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
Chloroform*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
Carbon tetrachloride*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
1,1,1-Trichloroethane*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
Benzene*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
1,2-Dichloroethane*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
Trichloroethene*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
Toluene*	0.0962	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
Tetrachloroethene*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
1,1,2-Trichloroethane*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
1,2-Dibromoethane*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
Ethylbenzene*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
m-p Xylenes*	ND	0.100	mg/kg	50	3032207	ms	22-Mar-13	8260	
o-Xylene*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
Total Xylenes*	ND	0.150	mg/kg	50	3032207	ms	22-Mar-13	8260	
1,1,2,2-Tetrachloroethane*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
Naphthalene*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
Surrogate: Dibromofluoromethane		95.8 %		70-130	3032207	ms	22-Mar-13	8260	
Surrogate: Toluene-d8		95.3 %		70-130	3032207	ms	22-Mar-13	8260	
Surrogate: 4-Bromofluorobenzene		98.8 %		70-130	3032207	ms	22-Mar-13	8260	

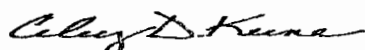
Semivolatile Organic Compounds by GCMS

Naphthalene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
2-Methylnaphthalene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
1-Methylnaphthalene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Acenaphthylene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: DD LANDFARM (01-0034) 5 YR MO
Project Number: DD LANDFARM
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
12-Apr-13 16:03

CELL 1 - 1
H300636-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Semivolatile Organic Compounds by GCMS

Acenaphthene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Fluorene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Phenanthrene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Anthracene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Carbazole	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Fluoranthene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Pyrene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Benzo[a]anthracene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Chrysene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Benzo[b]fluoranthene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Benzo[k]fluoranthene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Benzo[a]pyrene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Indeno[1,2,3-cd]pyrene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Dibenz[a,h]anthracene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Benzo[g,h,i]perylene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Surrogate: Nitrobenzene-d5		106 %	16.1-91.8		3032103	ms	22-Mar-13	8270C	
Surrogate: 2-Fluorobiphenyl		106 %	27.2-92.9		3032103	ms	22-Mar-13	8270C	
Surrogate: Terphenyl-d14		108 %	21.3-96.1		3032103	ms	22-Mar-13	8270C	

Green Analytical Laboratories
General Chemistry

Cyanide, Total	ND	1.00	mg/kg dry	100	B303184	KLM	21-Mar-13	EPA9012 B	
% Dry Solids	97.6		%	1	B303135	JGS	20-Mar-13	EPA160.3	

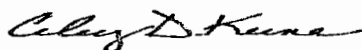
Soluble (DI Water Extraction)

Fluoride	ND	0.800	mg/kg dry	4	B304012	ABP	01-Apr-13	4500-F- C	
Nitrate/Nitrite as N	1.61	0.320	mg/kg dry	8	B303178	KLM	22-Mar-13	EPA353.2	
Nitrite as N	1.01	0.160	mg/kg dry	8	B303183	KLM	21-Mar-13	EPA353.2	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Eddie Seay Consulting
 601 W. Illinois
 Hobbs NM, 88242

 Project: DD LANDFARM (01-0034) 5 YR MO
 Project Number: DD LANDFARM
 Project Manager: Eddie Seay
 Fax To: (505) 392-6949

 Reported:
 12-Apr-13 16:03

CELL 1 - 1
H300636-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Green Analytical Laboratories
Total Metals by ICP

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Iron	1890	5.00	mg/kg dry	100	B303155	JGS	22-Mar-13	EPA6010 B	

Total Metals by ICPMS

Arsenic	0.593	0.0500	mg/kg dry	100	B303202	JGS	28-Mar-13	6020 A	
Barium	10.3	0.0500	mg/kg dry	100	B303202	JGS	28-Mar-13	6020 A	
Cadmium	0.104	0.0100	mg/kg dry	100	B303202	JGS	28-Mar-13	6020 A	
Chromium	1.54	0.100	mg/kg dry	100	B303202	JGS	28-Mar-13	6020 A	
Copper	0.689	0.0100	mg/kg dry	100	B303202	JGS	28-Mar-13	6020 A	
Lead	1.65	0.0500	mg/kg dry	100	B303202	JGS	28-Mar-13	6020 A	
Manganese	19.4	0.0500	mg/kg dry	100	B303202	JGS	28-Mar-13	6020 A	
Selenium	ND	0.100	mg/kg dry	100	B303202	JGS	28-Mar-13	6020 A	
Silver	0.0100	0.0100	mg/kg dry	100	B303202	JGS	28-Mar-13	6020 A	
Uranium	0.0562	0.0100	mg/kg dry	100	B303202	JGS	28-Mar-13	6020 A	
Zinc	3.74	0.100	mg/kg dry	100	B303202	JGS	28-Mar-13	6020 A	

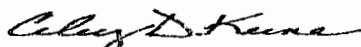
Total Mercury by CVAA

Mercury	ND	0.0962	mg/kg dry	481	B303135	JGS	20-Mar-13	EPA7471	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: DD LANDFARM (01-0034) 5 YR MO
Project Number: DD LANDFARM
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
12-Apr-13 16:03

CELL 1 - 2 H300636-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	ND	16.0	mg/kg	4	3031503	DW	18-Mar-13	4500-Cl-B	
pH*	8.10	0.100	pH Units	1	3031501	DW	15-Mar-13	9045	
Phenols	ND	0.5	mg/kg dry wt.	1	3041212	CK	04-Apr-13	EPA9065	GAL
Sulfate	ND	40.0	mg/kg	4	3031803	AP	20-Mar-13	375.4	

Organic Compounds

GRO C6-C10	ND	10.0	mg/kg	1	3031801	MS	18-Mar-13	8015M	
DRO >C10-C28	ND	10.0	mg/kg	1	3031801	MS	18-Mar-13	8015M	
Surrogate: 1-Chlorooctane		80.4 %	65.2-140		3031801	MS	18-Mar-13	8015M	
Surrogate: 1-Chlorooctadecane		99.5 %	63.6-154		3031801	MS	18-Mar-13	8015M	

Organic Compounds

SUB-SS

PCB 1016	ND	10.0	ug/kg	1	3041211	CK	21-Mar-13	8082	
PCB 1221	ND	10.0	ug/kg	1	3041211	CK	21-Mar-13	8082	
PCB 1232	ND	10.0	ug/kg	1	3041211	CK	21-Mar-13	8082	
PCB 1242	ND	10.0	ug/kg	1	3041211	CK	21-Mar-13	8082	
PCB 1248	ND	10.0	ug/kg	1	3041211	CK	21-Mar-13	8082	
PCB 1254	ND	10.0	ug/kg	1	3041211	CK	21-Mar-13	8082	
PCB 1260	ND	10.0	ug/kg	1	3041211	CK	21-Mar-13	8082	
Surrogate: Tetrachloro-meta-xylene		46.4 %	35-140		3041211	CK	21-Mar-13	8082	

Radionuclides

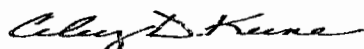
SUB-RS

Radium-226	ND	0.50	pCi/gram	1	3041213	CK	28-Mar-13	903.1/904	
Radium-228	ND	0.80	pCi/gram	1	3041213	CK	28-Mar-13	903.1/904	
Total Radium	ND	0.80	pCi/gram	1	3041213	CK	28-Mar-13	903.1/904	

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Project Manager: Eddie Seay
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Reported:
12-Apr-13 16:03

CELL 1 - 2
H300636-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories
Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
1,1-Dichloroethene*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
Methylene chloride*	0.649	0.100	mg/kg	50	3032207	ms	22-Mar-13	8260	B
1,1-Dichloroethane*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
Chloroform*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
Carbon tetrachloride*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
1,1,1-Trichloroethane*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
Benzene*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
1,2-Dichloroethane*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
Trichloroethene*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
Toluene*	0.104	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
Tetrachloroethene*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
1,1,2-Trichloroethane*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
1,2-Dibromoethane*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
Ethylbenzene*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
m-p Xylenes*	ND	0.100	mg/kg	50	3032207	ms	22-Mar-13	8260	
o-Xylene*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
Total Xylenes*	ND	0.150	mg/kg	50	3032207	ms	22-Mar-13	8260	
1,1,2,2-Tetrachloroethane*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
Naphthalene*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
Surrogate: Dibromofluoromethane		92.8 %	70-130		3032207	ms	22-Mar-13	8260	
Surrogate: Toluene-d8		93.7 %	70-130		3032207	ms	22-Mar-13	8260	
Surrogate: 4-Bromofluorobenzene		96.3 %	70-130		3032207	ms	22-Mar-13	8260	

Semivolatile Organic Compounds by GCMS

Naphthalene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
2-Methylnaphthalene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
1-Methylnaphthalene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Acenaphthylene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Eddie Seay Consulting
 601 W. Illinois
 Hobbs NM, 88242

 Project: DD LANDFARM (01-0034) 5 YR MO
 Project Number: DD LANDFARM
 Project Manager: Eddie Seay
 Fax To: (505) 392-6949

 Reported:
 12-Apr-13 16:03

CELL 1 - 2
H300636-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Semivolatile Organic Compounds by GCMS

Acenaphthene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Fluorene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Phenanthrene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Anthracene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Carbazole	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Fluoranthene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Pyrene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Benzo[a]anthracene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Chrysene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Benzo[b]fluoranthene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Benzo[k]fluoranthene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Benzo[a]pyrene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Indeno[1,2,3-cd]pyrene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Dibenz[a,h]anthracene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Benzo[g,h,i]perylene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Surrogate: Nitrobenzene-d5		103 %	16.1-91.8		3032103	ms	22-Mar-13	8270C	
Surrogate: 2-Fluorobiphenyl		100 %	27.2-92.9		3032103	ms	22-Mar-13	8270C	
Surrogate: Terphenyl-d14		102 %	21.3-96.1		3032103	ms	22-Mar-13	8270C	

Green Analytical Laboratories
General Chemistry

Cyanide, Total	ND	1.00	mg/kg dry	100	B303184	KLM	21-Mar-13	EPA9012.B	
% Dry Solids	97.1		%	1	B303135	JGS	20-Mar-13	EPA160.3	

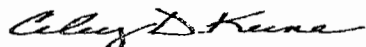
Soluble (DI Water Extraction)

Fluoride	1.04	0.800	mg/kg dry	4	B304012	ABP	01-Apr-13	4500-F-C	
Nitrate/Nitrite as N	2.93	0.320	mg/kg dry	8	B303178	KLM	22-Mar-13	EPA353.2	
Nitrite as N	0.746	0.160	mg/kg dry	8	B303183	KLM	21-Mar-13	EPA353.2	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Eddie Seay Consulting
 601 W. Illinois
 Hobbs NM, 88242

 Project: DD LANDFARM (01-0034) 5 YR MO
 Project Number: DD LANDFARM
 Project Manager: Eddie Seay
 Fax To: (505) 392-6949

 Reported:
 12-Apr-13 16:03

CELL 1 - 2
H300636-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Green Analytical Laboratories
Total Metals by ICP

Iron	2040	5.00	mg/kg dry	100	B303155	JGS	22-Mar-13	EPA6010 B
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Total Metals by ICPMS

Arsenic	0.683	0.0500	mg/kg dry	100	B303202	JGS	28-Mar-13	6020 A
Barium	13.1	0.0500	mg/kg dry	100	B303202	JGS	28-Mar-13	6020 A
Cadmium	0.121	0.0100	mg/kg dry	100	B303202	JGS	28-Mar-13	6020 A
Chromium	1.80	0.100	mg/kg dry	100	B303202	JGS	28-Mar-13	6020 A
Copper	0.781	0.0100	mg/kg dry	100	B303202	JGS	28-Mar-13	6020 A
Lead	2.03	0.0500	mg/kg dry	100	B303202	JGS	28-Mar-13	6020 A
Manganese	23.7	0.0500	mg/kg dry	100	B303202	JGS	28-Mar-13	6020 A
Selenium	ND	0.100	mg/kg dry	100	B303202	JGS	28-Mar-13	6020 A
Silver	0.0101	0.0100	mg/kg dry	100	B303202	JGS	28-Mar-13	6020 A
Uranium	0.0614	0.0100	mg/kg dry	100	B303202	JGS	28-Mar-13	6020 A
Zinc	4.95	0.100	mg/kg dry	100	B303202	JGS	28-Mar-13	6020 A

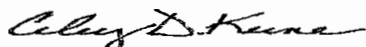
Total Mercury by CVAA

Mercury	ND	0.0962	mg/kg dry	481	B303135	JGS	20-Mar-13	EPA7471
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: DD LANDFARM (01-0034) 5 YR MO
Project Number: DD LANDFARM
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
12-Apr-13 16:03

CELL 1 - 3
H300636-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Inorganic Compounds

Chloride	ND	16.0	mg/kg	4	3031503	DW	18-Mar-13	4500-Cl-B	
pH*	8.11	0.100	pH Units	1	3031501	DW	15-Mar-13	9045	
Phenols	ND	0.5	mg/kg dry wt.	1	3041212	CK	04-Apr-13	EPA9065	GAL
Sulfate	ND	40.0	mg/kg	4	3031803	AP	20-Mar-13	375.4	

Organic Compounds

GRO C6-C10	ND	10.0	mg/kg	1	3031801	MS	18-Mar-13	8015M	
DRO >C10-C28	ND	10.0	mg/kg	1	3031801	MS	18-Mar-13	8015M	
Surrogate: 1-Chlorooctane		88.3 %	65.2-140		3031801	MS	18-Mar-13	8015M	
Surrogate: 1-Chlorooctadecane		103 %	63.6-154		3031801	MS	18-Mar-13	8015M	

Organic Compounds
SUB-SS

PCB 1016	ND	10.0	ug/kg	1	3041211	CK	21-Mar-13	8082	
PCB 1221	ND	10.0	ug/kg	1	3041211	CK	21-Mar-13	8082	
PCB 1232	ND	10.0	ug/kg	1	3041211	CK	21-Mar-13	8082	
PCB 1242	ND	10.0	ug/kg	1	3041211	CK	21-Mar-13	8082	
PCB 1248	ND	10.0	ug/kg	1	3041211	CK	21-Mar-13	8082	
PCB 1254	ND	10.0	ug/kg	1	3041211	CK	21-Mar-13	8082	
PCB 1260	ND	10.0	ug/kg	1	3041211	CK	21-Mar-13	8082	
Surrogate: Tetrachloro-meta-xylene		47.7 %	35-140		3041211	CK	21-Mar-13	8082	

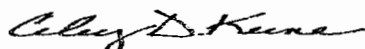
Radionuclides
SUB-RS

Radium-226	ND	0.50	pCi/gram	1	3041213	CK	28-Mar-13	903.1/904	
Radium-228	ND	0.90	pCi/gram	1	3041213	CK	28-Mar-13	903.1/904	
Total Radium	ND	0.90	pCi/gram	1	3041213	CK	28-Mar-13	903.1/904	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: DD LANDFARM (01-0034) 5 YR MO
Project Number: DD LANDFARM
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
12-Apr-13 16:03

CELL 1 - 3 H300636-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
1,1-Dichloroethene*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
Methylene chloride*	0.240	0.100	mg/kg	50	3032207	ms	22-Mar-13	8260	B
1,1-Dichloroethane*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
Chloroform*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
Carbon tetrachloride*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
1,1,1-Trichloroethane*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
Benzene*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
1,2-Dichloroethane*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
Trichloroethene*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
Toluene*	0.109	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
Tetrachloroethene*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
1,1,2-Trichloroethane*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
1,2-Dibromoethane*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
Ethylbenzene*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
m-p Xylenes*	ND	0.100	mg/kg	50	3032207	ms	22-Mar-13	8260	
o-Xylene*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
Total Xylenes*	ND	0.150	mg/kg	50	3032207	ms	22-Mar-13	8260	
1,1,2,2-Tetrachloroethane*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
Naphthalene*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
Surrogate: Dibromofluoromethane		95.1 %		70-130	3032207	ms	22-Mar-13	8260	
Surrogate: Toluene-d8		94.2 %		70-130	3032207	ms	22-Mar-13	8260	
Surrogate: 4-Bromofluorobenzene		97.4 %		70-130	3032207	ms	22-Mar-13	8260	

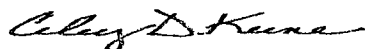
Semivolatile Organic Compounds by GCMS

Naphthalene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C
2-Methylnaphthalene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C
1-Methylnaphthalene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C
Acenaphthylene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: DD LANDFARM (01-0034) 5 YR MO
Project Number: DD LANDFARM
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
12-Apr-13 16:03

CELL 1 - 3
H300636-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Semivolatile Organic Compounds by GCMS

Acenaphthene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Fluorene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Phenanthrene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Anthracene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Carbazole	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Fluoranthene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Pyrene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Benzo[a]anthracene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Chrysene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Benzo[b]fluoranthene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Benzo[k]fluoranthene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Benzo[a]pyrene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Indeno[1,2,3-cd]pyrene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Dibenz[a,h]anthracene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Benzo[g,h,i]perylene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Surrogate: Nitrobenzene-d5		120 %	16.1-91.8		3032103	ms	22-Mar-13	8270C	
Surrogate: 2-Fluorobiphenyl		109 %	27.2-92.9		3032103	ms	22-Mar-13	8270C	
Surrogate: Terphenyl-d14		113 %	21.3-96.1		3032103	ms	22-Mar-13	8270C	

Green Analytical Laboratories
General Chemistry

Cyanide, Total	ND	1.00	mg/kg dry	100	B303184	KLM	21-Mar-13	EPA9012 B	
% Dry Solids	98.3		%	1	B303135	JGS	20-Mar-13	EPA160.3	

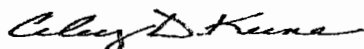
Soluble (DI Water Extraction)

Fluoride	1.75	0.800	mg/kg dry	4	B304012	ABP	01-Apr-13	4500-F- C	
Nitrate/Nitrite as N	6.03	0.320	mg/kg dry	8	B303178	KLM	22-Mar-13	EPA353.2	
Nitrite as N	0.284	0.160	mg/kg dry	8	B303183	KLM	21-Mar-13	EPA353.2	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: DD LANDFARM (01-0034) 5 YR MO
Project Number: DD LANDFARM
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
12-Apr-13 16:03

CELL 1 - 3
H300636-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Green Analytical Laboratories
Total Metals by ICP

Iron	2110	5.00	mg/kg dry	100	B303155	JGS	22-Mar-13	EPA6010 B	
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Total Metals by ICPMS

Arsenic	0.827	0.0500	mg/kg dry	100	B303202	JGS	28-Mar-13	6020 A	
Barium	20.1	0.0500	mg/kg dry	100	B303202	JGS	28-Mar-13	6020 A	
Cadmium	0.134	0.0100	mg/kg dry	100	B303202	JGS	28-Mar-13	6020 A	
Chromium	1.86	0.100	mg/kg dry	100	B303202	JGS	28-Mar-13	6020 A	
Copper	0.819	0.0100	mg/kg dry	100	B303202	JGS	28-Mar-13	6020 A	
Lead	2.39	0.0500	mg/kg dry	100	B303202	JGS	28-Mar-13	6020 A	
Manganese	22.9	0.0500	mg/kg dry	100	B303202	JGS	28-Mar-13	6020 A	
Selenium	ND	0.100	mg/kg dry	100	B303202	JGS	28-Mar-13	6020 A	
Silver	0.0102	0.0100	mg/kg dry	100	B303202	JGS	28-Mar-13	6020 A	
Uranium	0.0911	0.0100	mg/kg dry	100	B303202	JGS	28-Mar-13	6020 A	
Zinc	6.38	0.100	mg/kg dry	100	B303202	JGS	28-Mar-13	6020 A	

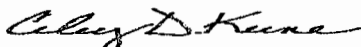
Total Mercury by CVAA

Mercury	ND	0.0970	mg/kg dry	485	B303135	JGS	20-Mar-13	EPA7471	
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*==Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: DD LANDFARM (01-0034) 5 YR MO
Project Number: DD LANDFARM
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
12-Apr-13 16:03

CELL 1 - 4
H300636-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	ND	16.0	mg/kg	4	3031503	DW	18-Mar-13	4500-Cl-B	
pH*	7.83	0.100	pH Units	1	3031501	DW	15-Mar-13	9045	
Phenols	ND	0.5	mg/kg dry wt.	1	3041212	CK	04-Apr-13	EPA9065	GAL
Sulfate	ND	40.0	mg/kg	4	3031803	AP	20-Mar-13	375.4	

Organic Compounds

GRO C6-C10	ND	10.0	mg/kg	1	3031801	MS	18-Mar-13	8015M	
DRO >C10-C28	ND	10.0	mg/kg	1	3031801	MS	18-Mar-13	8015M	
Surrogate: 1-Chlorooctane		85.0 %	65.2-140		3031801	MS	18-Mar-13	8015M	
Surrogate: 1-Chlorooctadecane		104 %	63.6-154		3031801	MS	18-Mar-13	8015M	

Organic Compounds

SUB-SS

PCB 1016	ND	10.0	ug/kg	1	3041211	CK	21-Mar-13	8082	
PCB 1221	ND	10.0	ug/kg	1	3041211	CK	21-Mar-13	8082	
PCB 1232	ND	10.0	ug/kg	1	3041211	CK	21-Mar-13	8082	
PCB 1242	ND	10.0	ug/kg	1	3041211	CK	21-Mar-13	8082	
PCB 1248	ND	10.0	ug/kg	1	3041211	CK	21-Mar-13	8082	
PCB 1254	ND	10.0	ug/kg	1	3041211	CK	21-Mar-13	8082	
PCB 1260	ND	10.0	ug/kg	1	3041211	CK	21-Mar-13	8082	
Surrogate: Tetrachloro-meta-xylene		47.7 %	35-140		3041211	CK	21-Mar-13	8082	

Radionuclides

SUB-RS

Radium-226	ND	0.60	pCi/gram	1	3041213	CK	28-Mar-13	903.1/904	
Radium-228	ND	0.80	pCi/gram	1	3041213	CK	28-Mar-13	903.1/904	
Total Radium	ND	0.80	pCi/gram	1	3041213	CK	28-Mar-13	903.1/904	

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting 601 W. Illinois Hobbs NM, 88242	Project: DD LANDFARM (01-0034) 5 YR MO Project Number: DD LANDFARM Project Manager: Eddie Seay Fax To: (505) 392-6949	Reported: 12-Apr-13 16:03
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CELL 1 - 4
H300636-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
1,1-Dichloroethene*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
Methylene chloride*	ND	0.100	mg/kg	50	3032207	ms	22-Mar-13	8260	
1,1-Dichloroethane*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
Chloroform*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
Carbon tetrachloride*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
1,1,1-Trichloroethane*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
Benzene*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
1,2-Dichloroethane*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
Trichloroethene*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
Toluene*	0.107	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
Tetrachloroethene*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
1,1,2-Trichloroethane*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
1,2-Dibromoethane*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
Ethylbenzene*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
m-p Xylenes*	ND	0.100	mg/kg	50	3032207	ms	22-Mar-13	8260	
o-Xylene*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
Total Xylenes*	ND	0.150	mg/kg	50	3032207	ms	22-Mar-13	8260	
1,1,2,2-Tetrachloroethane*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
Naphthalene*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
Surrogate: Dibromofluoromethane		96.6 %	70-130		3032207	ms	22-Mar-13	8260	
Surrogate: Toluene-d8		94.8 %	70-130		3032207	ms	22-Mar-13	8260	
Surrogate: 4-Bromofluorobenzene		98.1 %	70-130		3032207	ms	22-Mar-13	8260	

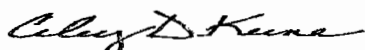
Semivolatile Organic Compounds by GCMS

Naphthalene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
2-Methylnaphthalene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
1-Methylnaphthalene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Acenaphthylene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: DD LANDFARM (01-0034) 5 YR MO
Project Number: DD LANDFARM
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
12-Apr-13 16:03

CELL 1 - 4 H300636-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Semivolatile Organic Compounds by GCMS

Acenaphthene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Fluorene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Phenanthrene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Anthracene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Carbazole	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Fluoranthene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Pyrene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Benzo[a]anthracene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Chrysene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Benzo[b]fluoranthene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Benzo[k]fluoranthene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Benzo[a]pyrene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Indeno[1,2,3-cd]pyrene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Dibenz[a,h]anthracene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Benzo[g,h,i]perylene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Surrogate: Nitrobenzene-d5		120 %	16.1-91.8		3032103	ms	22-Mar-13	8270C	
Surrogate: 2-Fluorobiphenyl		115 %	27.2-92.9		3032103	ms	22-Mar-13	8270C	
Surrogate: Terphenyl-d14		114 %	21.3-96.1		3032103	ms	22-Mar-13	8270C	

Green Analytical Laboratories

General Chemistry

Cyanide, Total	4.41	1.00	mg/kg dry	100	B303184	KLM	21-Mar-13	EPA9012 B	
% Dry Solids	97.7		%	1	B303135	JGS	20-Mar-13	EPA160.3	

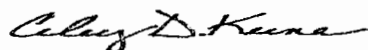
Soluble (DI Water Extraction)

Fluoride	0.813	0.800	mg/kg dry	4	B304012	ABP	01-Apr-13	4500-F- C	
Nitrate/Nitrite as N	3.16	0.320	mg/kg dry	8	B303178	KLM	22-Mar-13	EPA353.2	
Nitrite as N	1.42	0.160	mg/kg dry	8	B303183	KLM	21-Mar-13	EPA353.2	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Eddie Seay Consulting
 601 W. Illinois
 Hobbs NM, 88242

 Project: DD LANDFARM (01-0034) 5 YR MO
 Project Number: DD LANDFARM
 Project Manager: Eddie Seay
 Fax To: (505) 392-6949

 Reported:
 12-Apr-13 16:03

CELL 1 - 4
H300636-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Green Analytical Laboratories
Total Metals by ICP

Iron	2110	5.00	mg/kg dry	100	B303155	JGS	22-Mar-13	EPA6010 B	
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Total Metals by ICPMS

Arsenic	0.689	0.0500	mg/kg dry	100	B303202	JGS	28-Mar-13	6020 A	
Barium	11.3	0.0500	mg/kg dry	100	B303202	JGS	28-Mar-13	6020 A	
Cadmium	0.119	0.0100	mg/kg dry	100	B303202	JGS	28-Mar-13	6020 A	
Chromium	1.72	0.100	mg/kg dry	100	B303202	JGS	28-Mar-13	6020 A	
Copper	0.708	0.0100	mg/kg dry	100	B303202	JGS	28-Mar-13	6020 A	
Lead	1.74	0.0500	mg/kg dry	100	B303202	JGS	28-Mar-13	6020 A	
Manganese	18.0	0.0500	mg/kg dry	100	B303202	JGS	28-Mar-13	6020 A	
Selenium	ND	0.100	mg/kg dry	100	B303202	JGS	28-Mar-13	6020 A	
Silver	ND	0.0100	mg/kg dry	100	B303202	JGS	28-Mar-13	6020 A	
Uranium	0.0682	0.0100	mg/kg dry	100	B303202	JGS	28-Mar-13	6020 A	
Zinc	4.58	0.100	mg/kg dry	100	B303202	JGS	28-Mar-13	6020 A	

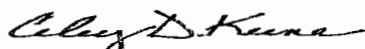
Total Mercury by CVAA

Mercury	ND	0.100	mg/kg dry	500	B303135	JGS	20-Mar-13	EPA7471	
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Celey D. Keene, Lab Director/Quality Manager



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(575) 393-2326 FAX (575) 393-2476

ANALYSIS REQUEST



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

W



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

3 of 3

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Company Name: Edwards Snow Contracting
Project Manager: [Signature]

Address: _____ State: _____ Zip: _____

City: _____ State: _____ Zip: _____

Phone #: _____ Fax #: _____

Project #: DD 25 Project Owner: J. Lopez

Project Name: DD Landfill (5034)

Project Location: Quinn Blvd 31

Sample Name: Syr Methanol

FOR LAB USE ONLY

Lab I.D. Sample I.D.

C001-1
C001-2
C001-3
C001-4

(G)RAB OR (C)OMP.
CONTAINERS
GROUNDWATER
WASTEWATER
SOIL
OIL
SLUDGE
OTHER:
ACID/BASE:
ICE/COOL
OTHER:

DATE TIME

3/13
3/13
3/13
3/13

EDC
DEG
PCE
TCE
Methylene Chloride
Chloroform
EDB
Trichloroethane
Tetrachloroethane
Vinyl Chloride
Polycyclic Aromatic Hydro.

ANALYSIS REQUEST

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Relinquished By: [Signature]
Date: 3/14
Time: 9:20
Received By: _____
Date: _____
Time: _____

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Sample Condition
Cool ☐ Intact ☐
Yes ☐ No ☐
Checked By: _____
(Initials)

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

REMARKS:



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

May 19, 2011

Eddie Seay

Eddie Seay Consulting

601 W. Illinois

Hobbs, NM 88242

RE: DD LANDFARM (01-0034) VADOSE ZONE

Enclosed are the results of analyses for s

Cardinal Laboratories is accredited throu

Method SW-846 8021	Benzene, Tolu
Method SW-846 8260	Benzene, Tolu
Method TX 1005	Total Petroleu

Certificate number T104704398-08-TX.
water matrices.

Cardinal Laboratories is accredited thrc

Method EPA 552.2	Haloacetic Aci
Method EPA 524.2	Total Trihalon
Method EPA 524.4	Regulated VO

Accreditation applies to public drinking w

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

otable

vironment for:

Analytical Results For:

Eddie Seay Consulting
Eddie Seay
601 W. Illinois
Hobbs NM, 88242
Fax To: (505) 392-6949

Received:	04/19/2011	Sampling Date:	04/19/2011
Reported:	05/19/2011	Sampling Type:	Soil
Project Name:	DD LANDFARM (01-0034) VADOSE ZONE	Sampling Condition:	Cool & Intact
Project Number:	DD LANDFARM	Sample Received By:	Jodi Henson
Project Location:	E. EUNICE HWY 176		

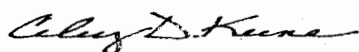
Sample ID: CELL 2 - 1 (H100793-01)

Arsenic 200.8		mg/kg dry wt.		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Arsenic	0.604	0.050	05/03/2011	ND	0.050	100	0.0500	2.75	GAL	
Barium, 6010B		mg/kg dry wt.		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Barium	15.3	2.00	04/27/2011	ND	2.00	100	2.00	4.40	GAL	
Cadmium 200.8		mg/kg dry wt.		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Cadmium	0.0216	0.0050	05/03/2011	ND	0.0484	96.8	0.0500	2.85	GAL	
Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/20/2011	ND	416	104	400	3.77		
Chromium, 6010B		mg/kg dry wt.		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chromium	3.51	1.00	04/27/2011	ND	2.07	104	2.00	4.26	GAL	
Copper 200.8		mg/kg dry wt.		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Copper	0.699	0.0100	05/03/2011	ND	0.0471	94.2	0.0500	4.77	GAL	
Cyanide 335.4		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Cyanide (total)	<0.0400	0.0400	05/02/2011	ND	0.0222	88.8	0.0250	1.36	GAL	
Fluoride, 4500F C		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	

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Eddie Seay Consulting
Eddie Seay
601 W. Illinois
Hobbs NM, 88242
Fax To: (505) 392-6949

Received:	04/19/2011	Sampling Date:	04/19/2011
Reported:	05/19/2011	Sampling Type:	Soil
Project Name:	DD LANDFARM (01-0034) VADOSE ZONE	Sampling Condition:	Cool & Intact
Project Number:	DD LANDFARM	Sample Received By:	Jodi Henson
Project Location:	E. EUNICE HWY 176		

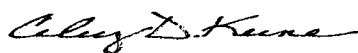
Sample ID: CELL 2 - 1 (H100793-01)

Fluoride, 4500F C		mg/kg	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Fluoride	0.265	0.200	04/29/2011	ND	0.950	95.0	1.00	0.00	GAL
Iron 200.7		mg/kg dry wt.	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Iron	2900	5.0	04/27/2011	ND	4.0	101	4.00	4.37	GAL
Lead 200.8		mg/kg dry wt.	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Lead	1.67	0.05	05/03/2011	ND	0.05	99.8	0.0500	0.402	GAL
Manganese 200.7		mg/kg dry wt.	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Manganese	32.9	0.5	04/27/2011	ND	2.0	99.5	2.00	10.5	GAL
Mercury, 7471A		mg/kg dry wt.	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Mercury	<0.050	0.050	05/03/2011	ND	0.002	105	0.00200	0.00	GAL
Nitrate + Nitrite as N, 353.2		mg/kg	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Nitrate/Nitrite as N	0.744	0.040	05/05/2011	ND	0.101	101	0.100	5.77	GAL
Nitrite as N 353.2		mg/kg	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Nitrite as N	0.208	0.040	04/29/2011	ND	0.107	107	0.100	0.00	GAL
PAH 8270C		mg/kg	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
Eddie Seay
601 W. Illinois
Hobbs NM, 88242
Fax To: (505) 392-6949

Received:	04/19/2011	Sampling Date:	04/19/2011
Reported:	05/19/2011	Sampling Type:	Soil
Project Name:	DD LANDFARM (01-0034) VADOSE ZONE	Sampling Condition:	Cool & Intact
Project Number:	DD LANDFARM	Sample Received By:	Jodi Henson
Project Location:	E. EUNICE HWY 176		

Sample ID: CELL 2 - 1 (H100793-01)

PAH 8270C

mg/kg

Analyzed By: CK

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Naphthalene	<0.040	0.040	05/14/2011	ND	0.010	99.7	0.0100	2.08	
2-Methylnaphthalene	<0.040	0.040	05/14/2011	ND					
1-Methylnaphthalene	<0.040	0.040	05/14/2011	ND					
Acenaphthylene	<0.040	0.040	05/14/2011	ND	0.010	102	0.0100	0.195	
Acenaphthene	<0.040	0.040	05/14/2011	ND	0.010	102	0.0100	1.47	
Fluorene	<0.040	0.040	05/14/2011	ND	0.010	105	0.0100	4.66	
Phenanthrene	<0.040	0.040	05/14/2011	ND	0.010	98.1	0.0100	1.52	
Anthracene	<0.040	0.040	05/14/2011	ND	0.010	97.8	0.0100	1.92	
Carbazole	<0.040	0.040	05/14/2011	ND	0.010	100	0.0100	1.29	
Fluoranthene	<0.040	0.040	05/14/2011	ND	0.010	97.4	0.0100	1.33	
Pyrene	<0.040	0.040	05/14/2011	ND	0.010	96.8	0.0100	1.23	
Benzo[a]anthracene	<0.040	0.040	05/14/2011	ND	0.009	89.8	0.0100	3.39	
Chrysene	<0.040	0.040	05/14/2011	ND	0.009	93.1	0.0100	1.07	
Benzo[b]fluoranthene	<0.040	0.040	05/14/2011	ND	0.010	102	0.0100	2.80	
Benzo[k]fluoranthene	<0.040	0.040	05/14/2011	ND	0.010	100	0.0100	4.08	
Benzo[a]pyrene	<0.040	0.040	05/14/2011	ND	0.011	109	0.0100	3.45	
Indeno[1,2,3-cd]pyrene	<0.040	0.040	05/14/2011	ND	0.010	104	0.0100	7.61	
Dibenz[a,h]anthracene	<0.040	0.040	05/14/2011	ND	0.010	99.1	0.0100	0.302	
Benzo[g,h,i]perylene	<0.040	0.040	05/14/2011	ND	0.010	95.1	0.0100	6.40	

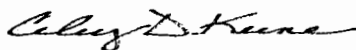
Surrogate: Nitrobenzene-d5 91.4 % 35-114

Surrogate: 2-Fluorobiphenyl 128 % 43-116

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
Eddie Seay
601 W. Illinois
Hobbs NM, 88242
Fax To: (505) 392-6949

Received:	04/19/2011	Sampling Date:	04/19/2011
Reported:	05/19/2011	Sampling Type:	Soil
Project Name:	DD LANDFARM (01-0034) VADOSE ZONE	Sampling Condition:	Cool & Intact
Project Number:	DD LANDFARM	Sample Received By:	Jodi Henson
Project Location:	E. EUNICE HWY 176		

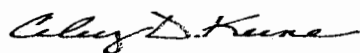
Sample ID: CELL 2 - 1 (H100793-01)

PAH 8270C		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Surrogate: Terphenyl-d14	33.2 %	33-141								
PCB 8082		ug/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
PCB 1016	<10.0	10.0	04/28/2011	ND	10.5	105	10.0	73.1	SUB-SS	
PCB 1221	<10.0	10.0	04/28/2011	ND					SUB-SS	
PCB 1232	<10.0	10.0	04/28/2011	ND					SUB-SS	
PCB 1242	<10.0	10.0	04/28/2011	ND					SUB-SS	
PCB 1248	<10.0	10.0	04/28/2011	ND					SUB-SS	
PCB 1254	<10.0	10.0	04/28/2011	ND					SUB-SS	
PCB 1260	<10.0	10.0	04/28/2011	ND	7.00	70.0	10.0	41.2	SUB-SS	
Surrogate: Tetrachloro-meta-xylene	71.7 %	35-140								
pH		pH Units		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
pH	8.47	0.100	04/29/2011		7.08	101	7.00	0.706		
Phenols, 420.1		mg/kg dry wt.		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Phenols	<0.5	0.5	05/04/2011	ND	0.4	92.0	0.400	1.88	GAL	
Selenium 200.8		mg/kg dry wt.		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Selenium	<0.100	0.100	05/03/2011	ND	0.258	103	0.250	1.54	GAL	

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Eddie Seay Consulting
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601 W. Illinois
Hobbs NM, 88242
Fax To: (505) 392-6949

Received:	04/19/2011	Sampling Date:	04/19/2011
Reported:	05/19/2011	Sampling Type:	Soil
Project Name:	DD LANDFARM (01-0034) VADOSE ZONE	Sampling Condition:	Cool & Intact
Project Number:	DD LANDFARM	Sample Received By:	Jodi Henson
Project Location:	E. EUNICE HWY 176		

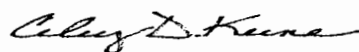
Sample ID: CELL 2 - 1 (H100793-01)

Silver 200.8		mg/kg dry wt.		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Silver	0.0197	0.0050	05/03/2011	ND	0.0494	98.8	0.0500	2.99	GAL
Sulfate 375.4		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate	<40.0	40.0	04/27/2011	ND	41.5	104	40.0	4.53	
TPH 8015M		mg/kg		Analyzed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/21/2011	ND	214	107	200	0.816	
DRO >C10-C28	<10.0	10.0	04/21/2011	ND	220	110	200	0.774	
Surrogate: 1-Chlorooctane		94.4 %	70-130						
Surrogate: 1-Chlorooctadecane		95.1 %	70-130						
Uranium 200.8		mg/kg dry wt.		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Uranium	0.0753	0.0500	05/03/2011	ND	0.0498	99.6	0.0500	0.00	GAL
WQCC Volatiles 8260		mg/kg		Analyzed By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Vinyl chloride	<0.0500	0.0500	04/27/2011	ND	0.973	97.3	1.00	5.96	
1,1-Dichloroethene	<0.0500	0.0500	04/27/2011	ND	1.04	104	1.00	5.06	
Methylene chloride	<0.0500	0.0500	04/27/2011	ND	0.810	81.0	1.00	9.11	
1,1-Dichloroethane	<0.0500	0.0500	04/27/2011	ND	1.10	110	1.00	6.87	
Chloroform	<0.0500	0.0500	04/27/2011	ND	1.04	104	1.00	6.04	
Carbon tetrachloride	<0.0500	0.0500	04/27/2011	ND	1.13	113	1.00	6.28	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Eddie Seay Consulting
 Eddie Seay
 601 W. Illinois
 Hobbs NM, 88242
 Fax To: (505) 392-6949

Received:	04/19/2011	Sampling Date:	04/19/2011
Reported:	05/19/2011	Sampling Type:	Soil
Project Name:	DD LANDFARM (01-0034) VADOSE ZONE	Sampling Condition:	Cool & Intact
Project Number:	DD LANDFARM	Sample Received By:	Jodi Henson
Project Location:	E. EUNICE HWY 176		

Sample ID: CELL 2 - 1 (H100793-01)

WQCC Volatiles 8260			mg/kg		Analyzed By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
1,1,1-Trichloroethane	<0.0500	0.0500	04/27/2011	ND	1.11	111	1.00	4.24		
Benzene	<0.0500	0.0500	04/27/2011	ND	1.13	113	1.00	7.62		
1,2-Dichloroethane	<0.0500	0.0500	04/27/2011	ND	1.04	104	1.00	5.87		
Trichloroethene	<0.0500	0.0500	04/27/2011	ND	1.12	112	1.00	6.93		
Toluene	<0.0500	0.0500	04/27/2011	ND	1.14	114	1.00	7.34		
Tetrachloroethene	<0.0500	0.0500	04/27/2011	ND	1.15	115	1.00	7.84		
1,1,2-Trichloroethane	<0.0500	0.0500	04/27/2011	ND	1.08	108	1.00	6.75		
1,2-Dibromoethane	<0.0500	0.0500	04/27/2011	ND	1.14	114	1.00	8.00		
Ethylbenzene	<0.0500	0.0500	04/27/2011	ND	1.07	107	1.00	6.54		
Total Xylenes	<0.150	0.150	04/27/2011	ND	3.23	108	3.00	7.99		
1,1,2,2-Tetrachloroethane	<0.0500	0.0500	04/27/2011	ND	1.10	110	1.00	5.35		
Naphthalene	<0.0500	0.0500	04/27/2011	ND	1.07	107	1.00	7.75		

Surrogate: Dibromofluoromethane 93.3 % 80-120

Surrogate: Toluene-d8 111 % 80-120

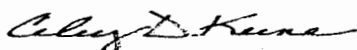
Surrogate: 4-Bromofluorobenzene 103 % 80-120

Zinc 200.7		mg/kg dry wt.		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Zinc	6.2	5.0	04/27/2011	ND	2.1	105	2.00	0.00	GAL	

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Analytical Results For:

 Eddie Seay Consulting
 Eddie Seay
 601 W. Illinois
 Hobbs NM, 88242
 Fax To: (505) 392-6949

Received:	04/19/2011	Sampling Date:	04/19/2011
Reported:	05/19/2011	Sampling Type:	Soil
Project Name:	DD LANDFARM (01-0034) VADOSE ZONE	Sampling Condition:	Cool & Intact
Project Number:	DD LANDFARM	Sample Received By:	Jodi Henson
Project Location:	E. EUNICE HWY 176		

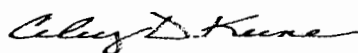
Sample ID: CELL 2 - 2 (H100793-02)

Arsenic 200.8		mg/kg dry wt.		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Arsenic	0.586	0.050	05/03/2011	ND	0.050	100	0.0500	2.75	GAL	
Barium, 60108		mg/kg dry wt.		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Barium	14.7	2.00	04/27/2011	ND	2.00	100	2.00	4.40	GAL	
Cadmium 200.8		mg/kg dry wt.		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Cadmium	0.0249	0.0050	05/03/2011	ND	0.0484	96.8	0.0500	2.85	GAL	
Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/20/2011	ND	416	104	400	3.77		
Chromium, 60108		mg/kg dry wt.		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chromium	2.97	1.00	04/27/2011	ND	2.07	104	2.00	4.26	GAL	
Copper 200.8		mg/kg dry wt.		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Copper	0.697	0.0100	05/03/2011	ND	0.0471	94.2	0.0500	4.77	GAL	
Cyanide 335.4		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Cyanide (total)	<0.0200	0.0200	05/02/2011	ND	0.0222	88.8	0.0250	1.36	GAL	
Fluoride, 4500F C		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	

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601 W. Illinois
Hobbs NM, 88242
Fax To: (505) 392-6949

Received:	04/19/2011	Sampling Date:	04/19/2011
Reported:	05/19/2011	Sampling Type:	Soil
Project Name:	DD LANDFARM (01-0034) VADOSE ZONE	Sampling Condition:	Cool & Intact
Project Number:	DD LANDFARM	Sample Received By:	Jodi Henson
Project Location:	E. EUNICE HWY 176		

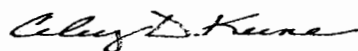
Sample ID: CELL 2 - 2 (H100793-02)

Fluoride, 4500F C		mg/kg	Analyzed By: CK							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Fluoride	0.412	0.200	04/29/2011	ND	0.950	95.0	1.00	0.00	GAL	
Iron 200.7		mg/kg dry wt.	Analyzed By: CK							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Iron	2290	5.0	04/27/2011	ND	4.0	101	4.00	4.37	GAL	
Lead 200.8		mg/kg dry wt.	Analyzed By: CK							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Lead	1.75	0.05	05/03/2011	ND	0.05	99.8	0.0500	0.402	GAL	
Manganese 200.7		mg/kg dry wt.	Analyzed By: CK							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Manganese	28.9	0.5	04/27/2011	ND	2.0	99.5	2.00	10.5	GAL	
Mercury, 7471A		mg/kg dry wt.	Analyzed By: CK							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Mercury	<0.050	0.050	05/03/2011	ND	0.002	105	0.00200	0.00	GAL	
Nitrate + Nitrite as N, 353.2		mg/kg	Analyzed By: CK							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Nitrate/Nitrite as N	0.515	0.040	05/05/2011	ND	0.101	101	0.100	5.77	GAL	
Nitrite as N 353.2		mg/kg	Analyzed By: CK							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Nitrite as N	0.147	0.040	04/29/2011	ND	0.107	107	0.100	0.00	GAL	
PAH 8270C		mg/kg	Analyzed By: CK							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	

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Project Number:	DD LANDFARM	Sample Received By:	Jodi Henson
Project Location:	E. EUNICE HWY 176		

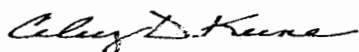
Sample ID: CELL 2 - 2 (H100793-02)

PAH 8270C		mg/kg	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Naphthalene	<0.040	0.040	05/14/2011	ND	0.010	99.7	0.0100	2.08	
2-Methylnaphthalene	<0.040	0.040	05/14/2011	ND					
1-Methylnaphthalene	<0.040	0.040	05/14/2011	ND					
Acenaphthylene	<0.040	0.040	05/14/2011	ND	0.010	102	0.0100	0.195	
Acenaphthene	<0.040	0.040	05/14/2011	ND	0.010	102	0.0100	1.47	
Fluorene	<0.040	0.040	05/14/2011	ND	0.010	105	0.0100	4.66	
Phenanthrene	<0.040	0.040	05/14/2011	ND	0.010	98.1	0.0100	1.52	
Anthracene	<0.040	0.040	05/14/2011	ND	0.010	97.8	0.0100	1.92	
Carbazole	<0.040	0.040	05/14/2011	ND	0.010	100	0.0100	1.29	
Fluoranthene	<0.040	0.040	05/14/2011	ND	0.010	97.4	0.0100	1.33	
Pyrene	<0.040	0.040	05/14/2011	ND	0.010	96.8	0.0100	1.23	
Benzo[a]anthracene	<0.040	0.040	05/14/2011	ND	0.009	89.8	0.0100	3.39	
Chrysene	<0.040	0.040	05/14/2011	ND	0.009	93.1	0.0100	1.07	
Benzo[b]fluoranthene	<0.040	0.040	05/14/2011	ND	0.010	102	0.0100	2.80	
Benzo[k]fluoranthene	<0.040	0.040	05/14/2011	ND	0.010	100	0.0100	4.08	
Benzo[a]pyrene	<0.040	0.040	05/14/2011	ND	0.011	109	0.0100	3.45	
Indeno[1,2,3-cd]pyrene	<0.040	0.040	05/14/2011	ND	0.010	104	0.0100	7.61	
Dibenz[a,h]anthracene	<0.040	0.040	05/14/2011	ND	0.010	99.1	0.0100	0.302	
Benzo[g,h,i]perylene	<0.040	0.040	05/14/2011	ND	0.010	95.1	0.0100	6.40	
Surrogate: Nitrobenzene-d5	94.8 %	35-114							
Surrogate: 2-Fluorobiphenyl	137 %	43-116							

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

Eddie Seay Consulting
Eddie Seay
601 W. Illinois
Hobbs NM, 88242
Fax To: (505) 392-6949

Received:	04/19/2011	Sampling Date:	04/19/2011
Reported:	05/19/2011	Sampling Type:	Soil
Project Name:	DD LANDFARM (01-0034) VADOSE ZONE	Sampling Condition:	Cool & Intact
Project Number:	DD LANDFARM	Sample Received By:	Jodi Henson
Project Location:	E. EUNICE HWY 176		

Sample ID: CELL 2 - 2 (H100793-02)

PAH 8270C **mg/kg** **Analyzed By: CK**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Surrogate: Terphenyl-d14	41.0 %	33-141							

PCB 8082 **ug/kg** **Analyzed By: CK**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
PCB 1016	<10.0	10.0	04/28/2011	ND	10.5	105	10.0	73.1	SUB-SS
PCB 1221	<10.0	10.0	04/28/2011	ND					SUB-SS
PCB 1232	<10.0	10.0	04/28/2011	ND					SUB-SS
PCB 1242	<10.0	10.0	04/28/2011	ND					SUB-SS
PCB 1248	<10.0	10.0	04/28/2011	ND					SUB-SS
PCB 1254	<10.0	10.0	04/28/2011	ND					SUB-SS
PCB 1260	<10.0	10.0	04/28/2011	ND	7.00	70.0	10.0	41.2	SUB-SS

Surrogate: Tetrachloro-meta-xylene 87.4 % 35-140

pH **pH Units** **Analyzed By: HM**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
pH	8.66	0.100	04/29/2011		7.08	101	7.00	0.706	

Phenols, 420.1 **mg/kg dry wt.** **Analyzed By: CK**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Phenols	<0.5	0.5	05/04/2011	ND	0.4	92.0	0.400	1.88	GAL

Selenium 200.8 **mg/kg dry wt.** **Analyzed By: CK**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Selenium	<0.100	0.100	05/03/2011	ND	0.258	103	0.250	1.54	GAL

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
Eddie Seay
601 W. Illinois
Hobbs NM, 88242
Fax To: (505) 392-6949

Received:	04/19/2011	Sampling Date:	04/19/2011
Reported:	05/19/2011	Sampling Type:	Soil
Project Name:	DD LANDFARM (01-0034) VADOSE ZONE	Sampling Condition:	Cool & Intact
Project Number:	DD LANDFARM	Sample Received By:	Jodi Henson
Project Location:	E. EUNICE HWY 176		

Sample ID: CELL 2 - 2 (H100793-02)

Silver 200.8		mg/kg dry wt.		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Silver	0.0171	0.0050	05/03/2011	ND	0.0494	98.8	0.0500	2.99	GAL	

Sulfate 375.4		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate	<40.0	40.0	04/27/2011	ND	41.5	104	40.0	4.53	

TPH 8015M		mg/kg		Analyzed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/21/2011	ND	214	107	200	0.816	
DRO >C10-C28	<10.0	10.0	04/21/2011	ND	220	110	200	0.774	

Surrogate: 1-Chlorooctane 97.3 % 70-130

Surrogate: 1-Chlorooctadecane 99.2 % 70-130

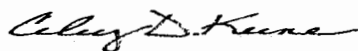
Uranium 200.8		mg/kg dry wt.		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Uranium	0.0849	0.0500	05/03/2011	ND	0.0498	99.6	0.0500	0.00	GAL	

WQCC Volatiles 8260		mg/kg	Analyzed By: CMS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Vinyl chloride	<0.0500	0.0500	04/27/2011	ND	0.973	97.3	1.00	5.96	
1,1-Dichloroethene	<0.0500	0.0500	04/27/2011	ND	1.04	104	1.00	5.06	
Methylene chloride	<0.0500	0.0500	04/27/2011	ND	0.810	81.0	1.00	9.11	
1,1-Dichloroethane	<0.0500	0.0500	04/27/2011	ND	1.10	110	1.00	6.87	
Chloroform	<0.0500	0.0500	04/27/2011	ND	1.04	104	1.00	6.04	
Carbon tetrachloride	<0.0500	0.0500	04/27/2011	ND	1.13	113	1.00	6.28	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
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Fax To: (505) 392-6949

Received:	04/19/2011	Sampling Date:	04/19/2011
Reported:	05/19/2011	Sampling Type:	Soil
Project Name:	DD LANDFARM (01-0034) VADOSE ZONE	Sampling Condition:	Cool & Intact
Project Number:	DD LANDFARM	Sample Received By:	Jodi Henson
Project Location:	E. EUNICE HWY 176		

Sample ID: CELL 2 - 2 (H100793-02)

WQCC Volatiles 8260			mg/kg							Analyzed By: CMS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
1,1,1-Trichloroethane	<0.0500	0.0500	04/27/2011	ND	1.11	111	1.00	4.24			
Benzene	<0.0500	0.0500	04/27/2011	ND	1.13	113	1.00	7.62			
1,2-Dichloroethane	<0.0500	0.0500	04/27/2011	ND	1.04	104	1.00	5.87			
Trichloroethene	<0.0500	0.0500	04/27/2011	ND	1.12	112	1.00	6.93			
Toluene	<0.0500	0.0500	04/27/2011	ND	1.14	114	1.00	7.34			
Tetrachloroethene	<0.0500	0.0500	04/27/2011	ND	1.15	115	1.00	7.84			
1,1,2-Trichloroethane	<0.0500	0.0500	04/27/2011	ND	1.08	108	1.00	6.75			
1,2-Dibromoethane	<0.0500	0.0500	04/27/2011	ND	1.14	114	1.00	8.00			
Ethylbenzene	<0.0500	0.0500	04/27/2011	ND	1.07	107	1.00	6.54			
Total Xylenes	<0.150	0.150	04/27/2011	ND	3.23	108	3.00	7.99			
1,1,2,2-Tetrachloroethane	<0.0500	0.0500	04/27/2011	ND	1.10	110	1.00	5.35			
Naphthalene	<0.0500	0.0500	04/27/2011	ND	1.07	107	1.00	7.75			

Surrogate: Dibromofluoromethane 87.3 % 80-120

Surrogate: Toluene-d8 105 % 80-120

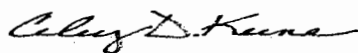
Surrogate: 4-Bromofluorobenzene 93.8 % 80-120

Zinc 200.7			mg/kg dry wt.							Analyzed By: CK	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Zinc	5.0	5.0	04/27/2011	ND	2.1	105	2.00	0.00	GAL		

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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Hobbs NM, 88242
Fax To: (505) 392-6949

Received: 04/19/2011
Reported: 05/19/2011
Project Name: DD LANDFARM (01-0034) VADOSE ZONE
Project Number: DD LANDFARM
Project Location: E. EUNICE HWY 176

Sampling Date: 04/19/2011
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

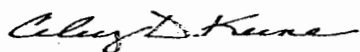
Sample ID: CELL 2 - 3 (H100793-03)

Arsenic 200.8		mg/kg dry wt.		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Arsenic	0.663	0.050	05/03/2011	ND	0.050	100	0.0500	2.75	GAL	
Barium, 60108		mg/kg dry wt.		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Barium	18.4	2.00	04/27/2011	ND	2.00	100	2.00	4.40	GAL	
Cadmium 200.8		mg/kg dry wt.		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Cadmium	0.0414	0.0050	05/03/2011	ND	0.0484	96.8	0.0500	2.85	GAL	
Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/20/2011	ND	416	104	400	3.77		
Chromium, 60108		mg/kg dry wt.		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chromium	2.49	1.00	04/27/2011	ND	2.07	104	2.00	4.26	GAL	
Copper 200.8		mg/kg dry wt.		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Copper	0.958	0.0100	05/03/2011	ND	0.0471	94.2	0.0500	4.77	GAL	
Cyanide 335.4		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Cyanide (total)	<0.0200	0.0200	05/02/2011	ND	0.0222	88.8	0.0250	1.36	GAL	
Fluoride, 4500F C		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Eddie Seay Consulting
Eddie Seay
601 W. Illinois
Hobbs NM, 88242
Fax To: (505) 392-6949

Received: 04/19/2011
Reported: 05/19/2011
Project Name: DD LANDFARM (01-0034) VADOSE ZONE
Project Number: DD LANDFARM
Project Location: E. EUNICE HWY 176

Sampling Date: 04/19/2011
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: CELL 2 - 3 (H100793-03)

Fluoride, 4500F C		mg/kg	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Fluoride	0.412	0.200	04/29/2011	ND	0.950	95.0	1.00	0.00	GAL
Iron 200.7		mg/kg dry wt.	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Iron	2630	5.0	04/27/2011	ND	4.0	101	4.00	4.37	GAL
Lead 200.8		mg/kg dry wt.	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Lead	2.77	0.05	05/03/2011	ND	0.05	99.8	0.0500	0.402	GAL
Manganese 200.7		mg/kg dry wt.	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Manganese	38.9	0.5	04/27/2011	ND	2.0	99.5	2.00	10.5	GAL
Mercury, 7471A		mg/kg dry wt.	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Mercury	<0.050	0.050	05/03/2011	ND	0.002	105	0.00200	0.00	GAL
Nitrate + Nitrite as N, 353.2		mg/kg	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Nitrate/Nitrite as N	4.86	0.040	05/05/2011	ND	0.101	101	0.100	5.77	GAL
Nitrite as N 353.2		mg/kg	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Nitrite as N	0.177	0.040	04/29/2011	ND	0.107	107	0.100	0.00	GAL
PAH 8270C		mg/kg	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Eddie Seay Consulting
 Eddie Seay
 601 W. Illinois
 Hobbs NM, 88242
 Fax To: (505) 392-6949

 Received: 04/19/2011
 Reported: 05/19/2011
 Project Name: DD LANDFARM (01-0034) VADOSE ZONE
 Project Number: DD LANDFARM
 Project Location: E. EUNICE HWY 176

 Sampling Date: 04/19/2011
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: CELL 2 - 3 (H100793-03)
PAH 8270C
mg/kg
Analyzed By: CK

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Naphthalene	<0.040	0.040	05/14/2011	ND	0.010	99.7	0.0100	2.08	
2-Methylnaphthalene	<0.040	0.040	05/14/2011	ND					
1-Methylnaphthalene	<0.040	0.040	05/14/2011	ND					
Acenaphthylene	<0.040	0.040	05/14/2011	ND	0.010	102	0.0100	0.195	
Acenaphthene	<0.040	0.040	05/14/2011	ND	0.010	102	0.0100	1.47	
Fluorene	<0.040	0.040	05/14/2011	ND	0.010	105	0.0100	4.66	
Phenanthrene	<0.040	0.040	05/14/2011	ND	0.010	98.1	0.0100	1.52	
Anthracene	<0.040	0.040	05/14/2011	ND	0.010	97.8	0.0100	1.92	
Carbazole	<0.040	0.040	05/14/2011	ND	0.010	100	0.0100	1.29	
Fluoranthene	<0.040	0.040	05/14/2011	ND	0.010	97.4	0.0100	1.33	
Pyrene	<0.040	0.040	05/14/2011	ND	0.010	96.8	0.0100	1.23	
Benzo[a]anthracene	<0.040	0.040	05/14/2011	ND	0.009	89.8	0.0100	3.39	
Chrysene	<0.040	0.040	05/14/2011	ND	0.009	93.1	0.0100	1.07	
Benzo[b]fluoranthene	<0.040	0.040	05/14/2011	ND	0.010	102	0.0100	2.80	
Benzo[k]fluoranthene	<0.040	0.040	05/14/2011	ND	0.010	100	0.0100	4.08	
Benzo[a]pyrene	<0.040	0.040	05/14/2011	ND	0.011	109	0.0100	3.45	
Indeno[1,2,3-cd]pyrene	<0.040	0.040	05/14/2011	ND	0.010	104	0.0100	7.61	
Dibenz[a,h]anthracene	<0.040	0.040	05/14/2011	ND	0.010	99.1	0.0100	0.302	
Benzo[g,h,i]perylene	<0.040	0.040	05/14/2011	ND	0.010	95.1	0.0100	6.40	

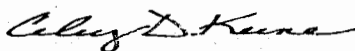
Surrogate: Nitrobenzene-d5 105 % 35-114

Surrogate: 2-Fluorobiphenyl 144 % 43-116

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Analytical Results For:

Eddie Seay Consulting
Eddie Seay
601 W. Illinois
Hobbs NM, 88242
Fax To: (505) 392-6949

Received:	04/19/2011	Sampling Date:	04/19/2011
Reported:	05/19/2011	Sampling Type:	Soil
Project Name:	DD LANDFARM (01-0034) VADOSE ZONE	Sampling Condition:	Cool & Intact
Project Number:	DD LANDFARM	Sample Received By:	Jodi Henson
Project Location:	E. EUNICE HWY 176		

Sample ID: CELL 2 - 3 (H100793-03)

PAH 8270C		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Surrogate: Terphenyl-d14	29.5 %	33-141							

PCB 8082		ug/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
PCB 1016	<10.0	10.0	04/28/2011	ND	10.5	105	10.0	73.1	SUB-SS	
PCB 1221	<10.0	10.0	04/28/2011	ND					SUB-SS	
PCB 1232	<10.0	10.0	04/28/2011	ND					SUB-SS	
PCB 1242	<10.0	10.0	04/28/2011	ND					SUB-SS	
PCB 1248	<10.0	10.0	04/28/2011	ND					SUB-SS	
PCB 1254	<10.0	10.0	04/28/2011	ND					SUB-SS	
PCB 1260	<10.0	10.0	04/28/2011	ND	7.00	70.0	10.0	41.2	SUB-SS	

Surrogate: Tetrachloro-meta-xylene 113 % 35-140

pH		pH Units		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
pH	8.55	0.100	04/29/2011		7.08	101	7.00	0.706	

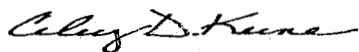
Phenols, 420.1		mg/kg dry wt.		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Phenols	<0.5	0.5	05/04/2011	ND	0.4	92.0	0.400	1.88	GAL	

Selenium 200.8		mg/kg dry wt.		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Selenium	<0.100	0.100	05/03/2011	ND	0.258	103	0.250	1.54	GAL

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

Eddie Seay Consulting
Eddie Seay
601 W. Illinois
Hobbs NM, 88242
Fax To: (505) 392-6949

Received: 04/19/2011
Reported: 05/19/2011
Project Name: DD LANDFARM (01-0034) VADOSE ZONE
Project Number: DD LANDFARM
Project Location: E. EUNICE HWY 176

Sampling Date: 04/19/2011
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: CELL 2 - 3 (H100793-03)

Silver 200.8		mg/kg dry wt.		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Silver	0.0176	0.0050	05/03/2011	ND	0.0494	98.8	0.0500	2.99	GAL
Sulfate 375.4		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate	<40.0	40.0	04/27/2011	ND	41.5	104	40.0	4.53	
TPH 8015M		mg/kg		Analyzed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/21/2011	ND	214	107	200	0.816	
DRO >C10-C28	<10.0	10.0	04/21/2011	ND	220	110	200	0.774	
Surrogate: 1-Chlorooctane		83.3 %	70-130						
Surrogate: 1-Chlorooctadecane		80.2 %	70-130						
Uranium 200.8		mg/kg dry wt.		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Uranium	0.109	0.0500	05/03/2011	ND	0.0498	99.6	0.0500	0.00	GAL
WQCC Volatiles 8260		mg/kg		Analyzed By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Vinyl chloride	<0.0500	0.0500	04/27/2011	ND	0.973	97.3	1.00	5.96	
1,1-Dichloroethene	<0.0500	0.0500	04/27/2011	ND	1.04	104	1.00	5.06	
Methylene chloride	<0.0500	0.0500	04/27/2011	ND	0.810	81.0	1.00	9.11	
1,1-Dichloroethane	<0.0500	0.0500	04/27/2011	ND	1.10	110	1.00	6.87	
Chloroform	<0.0500	0.0500	04/27/2011	ND	1.04	104	1.00	6.04	
Carbon tetrachloride	<0.0500	0.0500	04/27/2011	ND	1.13	113	1.00	6.28	

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Analytical Results For:

Eddie Seay Consulting
Eddie Seay
601 W. Illinois
Hobbs NM, 88242
Fax To: (505) 392-6949

Received:	04/19/2011	Sampling Date:	04/19/2011
Reported:	05/19/2011	Sampling Type:	Soil
Project Name:	DD LANDFARM (01-0034) VADOSE ZONE	Sampling Condition:	Cool & Intact
Project Number:	DD LANDFARM	Sample Received By:	Jodi Henson
Project Location:	E. EUNICE HWY 176		

Sample ID: CELL 2 - 3 (H100793-03)**WQCC Volatiles 8260****mg/kg****Analyzed By: CMS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
1,1,1-Trichloroethane	<0.0500	0.0500	04/27/2011	ND	1.11	111	1.00	4.24	
Benzene	<0.0500	0.0500	04/27/2011	ND	1.13	113	1.00	7.62	
1,2-Dichloroethane	<0.0500	0.0500	04/27/2011	ND	1.04	104	1.00	5.87	
Trichloroethene	<0.0500	0.0500	04/27/2011	ND	1.12	112	1.00	6.93	
Toluene	<0.0500	0.0500	04/27/2011	ND	1.14	114	1.00	7.34	
Tetrachloroethene	<0.0500	0.0500	04/27/2011	ND	1.15	115	1.00	7.84	
1,1,2-Trichloroethane	<0.0500	0.0500	04/27/2011	ND	1.08	108	1.00	6.75	
1,2-Dibromoethane	<0.0500	0.0500	04/27/2011	ND	1.14	114	1.00	8.00	
Ethylbenzene	<0.0500	0.0500	04/27/2011	ND	1.07	107	1.00	6.54	
Total Xylenes	<0.150	0.150	04/27/2011	ND	3.23	108	3.00	7.99	
1,1,2,2-Tetrachloroethane	<0.0500	0.0500	04/27/2011	ND	1.10	110	1.00	5.35	
Naphthalene	<0.0500	0.0500	04/27/2011	ND	1.07	107	1.00	7.75	

Surrogate: Dibromofluoromethane 90.1 % 80-120

Surrogate: Toluene-d8 109 % 80-120

Surrogate: 4-Bromofluorobenzene 99.2 % 80-120

Zinc 200.7**mg/kg dry wt.****Analyzed By: CK**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Zinc	7.0	5.0	04/27/2011	ND	2.1	105	2.00	0.00	GAL

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
Eddie Seay
601 W. Illinois
Hobbs NM, 88242
Fax To: (505) 392-6949

Received:	04/19/2011	Sampling Date:	04/19/2011
Reported:	05/19/2011	Sampling Type:	Soil
Project Name:	DD LANDFARM (01-0034) VADOSE ZONE	Sampling Condition:	Cool & Intact
Project Number:	DD LANDFARM	Sample Received By:	Jodi Henson
Project Location:	E. EUNICE HWY 176		

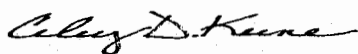
Sample ID: CELL 2 - 4 (H100793-04)

Arsenic 200.8		mg/kg dry wt.		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Arsenic	0.690	0.050	05/03/2011	ND	0.050	100	0.0500	2.75	GAL	
Barium, 6010B		mg/kg dry wt.		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Barium	14.2	2.00	04/27/2011	ND	2.00	100	2.00	4.40	GAL	
Cadmium 200.8		mg/kg dry wt.		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Cadmium	0.0321	0.0050	05/03/2011	ND	0.0484	96.8	0.0500	2.85	GAL	
Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/20/2011	ND	416	104	400	3.77		
Chromium, 6010B		mg/kg dry wt.		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chromium	3.36	1.00	04/27/2011	ND	2.07	104	2.00	4.26	GAL	
Copper 200.8		mg/kg dry wt.		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Copper	0.750	0.0100	05/03/2011	ND	0.0471	94.2	0.0500	4.77	GAL	
Cyanide 335.4		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Cyanide (total)	<0.0200	0.0200	05/02/2011	ND	0.0222	88.8	0.0250	1.36	GAL	
Fluoride, 4500F C		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	

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Analytical Results For:

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Fax To: (505) 392-6949

Received:	04/19/2011	Sampling Date:	04/19/2011
Reported:	05/19/2011	Sampling Type:	Soil
Project Name:	DD LANDFARM (01-0034) VADOSE ZONE	Sampling Condition:	Cool & Intact
Project Number:	DD LANDFARM	Sample Received By:	Jodi Henson
Project Location:	E. EUNICE HWY 176		

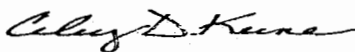
Sample ID: CELL 2 - 4 (H100793-04)

Fluoride, 4500F C		mg/kg	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Fluoride	0.641	0.200	04/29/2011	ND	0.950	95.0	1.00	0.00	GAL
Iron 200.7		mg/kg dry wt.	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Iron	2570	5.0	04/27/2011	ND	4.0	101	4.00	4.37	GAL
Lead 200.8		mg/kg dry wt.	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Lead	2.40	0.05	05/03/2011	ND	0.05	99.8	0.0500	0.402	GAL
Manganese 200.7		mg/kg dry wt.	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Manganese	30.9	0.5	04/27/2011	ND	2.0	99.5	2.00	10.5	GAL
Mercury, 7471A		mg/kg dry wt.	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Mercury	<0.050	0.050	05/03/2011	ND	0.002	105	0.00200	0.00	GAL
Nitrate + Nitrite as N, 353.2		mg/kg	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Nitrate/Nitrite as N	1.21	0.040	05/05/2011	ND	0.101	101	0.100	5.77	GAL
Nitrite as N 353.2		mg/kg	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Nitrite as N	0.213	0.040	04/29/2011	ND	0.107	107	0.100	0.00	GAL
PAH 8270C		mg/kg	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

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Analytical Results For:

Eddie Seay Consulting
Eddie Seay
601 W. Illinois
Hobbs NM, 88242
Fax To: (505) 392-6949

Received: 04/19/2011
Reported: 05/19/2011
Project Name: DD LANDFARM (01-0034) VADOSE ZONE
Project Number: DD LANDFARM
Project Location: E. EUNICE HWY 176

Sampling Date: 04/19/2011
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: CELL 2 - 4 (H100793-04)

PAH 8270C

mg/kg

Analyzed By: CK

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Naphthalene	<0.040	0.040	05/16/2011	ND	0.010	99.7	0.0100	2.08	
2-Methylnaphthalene	<0.040	0.040	05/16/2011	ND					
1-Methylnaphthalene	<0.040	0.040	05/16/2011	ND					
Acenaphthylene	<0.040	0.040	05/16/2011	ND	0.010	102	0.0100	0.195	
Acenaphthene	<0.040	0.040	05/16/2011	ND	0.010	102	0.0100	1.47	
Fluorene	<0.040	0.040	05/16/2011	ND	0.010	105	0.0100	4.66	
Phenanthrene	<0.040	0.040	05/16/2011	ND	0.010	98.1	0.0100	1.52	
Anthracene	<0.040	0.040	05/16/2011	ND	0.010	97.8	0.0100	1.92	
Carbazole	<0.040	0.040	05/16/2011	ND	0.010	100	0.0100	1.29	
Fluoranthene	<0.040	0.040	05/16/2011	ND	0.010	97.4	0.0100	1.33	
Pyrene	<0.040	0.040	05/16/2011	ND	0.010	96.8	0.0100	1.23	
Benzo[a]anthracene	<0.040	0.040	05/16/2011	ND	0.009	89.8	0.0100	3.39	
Chrysene	<0.040	0.040	05/16/2011	ND	0.009	93.1	0.0100	1.07	
Benzo[b]fluoranthene	<0.040	0.040	05/16/2011	ND	0.010	102	0.0100	2.80	
Benzo[k]fluoranthene	<0.040	0.040	05/16/2011	ND	0.010	100	0.0100	4.08	
Benzo[a]pyrene	<0.040	0.040	05/16/2011	ND	0.011	109	0.0100	3.45	
Indeno[1,2,3-cd]pyrene	<0.040	0.040	05/16/2011	ND	0.010	104	0.0100	7.61	
Dibenz[a,h]anthracene	<0.040	0.040	05/16/2011	ND	0.010	99.1	0.0100	0.302	
Benzo[g,h,i]perylene	<0.040	0.040	05/16/2011	ND	0.010	95.1	0.0100	6.40	

Surrogate: Nitrobenzene-d5 88.5 % 35-114

Surrogate: 2-Fluorobiphenyl 115 % 43-116

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Hobbs NM, 88242
Fax To: (505) 392-6949

Received: 04/19/2011
Reported: 05/19/2011
Project Name: DD LANDFARM (01-0034) VADOSE ZONE
Project Number: DD LANDFARM
Project Location: E. EUNICE HWY 176

Sampling Date: 04/19/2011
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: CELL 2 - 4 (H100793-04)

PAH 8270C **mg/kg** **Analyzed By: CK**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Surrogate: Terphenyl-d14	27.5 %	33-141							

PCB 8082 **ug/kg** **Analyzed By: CK**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
PCB 1016	<10.0	10.0	04/28/2011	ND	10.5	105	10.0	73.1	SUB-SS
PCB 1221	<10.0	10.0	04/28/2011	ND					SUB-SS
PCB 1232	<10.0	10.0	04/28/2011	ND					SUB-SS
PCB 1242	<10.0	10.0	04/28/2011	ND					SUB-SS
PCB 1248	<10.0	10.0	04/28/2011	ND					SUB-SS
PCB 1254	<10.0	10.0	04/28/2011	ND					SUB-SS
PCB 1260	<10.0	10.0	04/28/2011	ND	7.00	70.0	10.0	41.2	SUB-SS

Surrogate: Tetrachloro-meta-xylene 96.1 % 35-140

pH **pH Units** **Analyzed By: HM**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
pH	8.30	0.100	04/29/2011		7.08	101	7.00	0.706	

Phenols, 420.1 **mg/kg dry wt.** **Analyzed By: CK**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Phenols	<0.5	0.5	05/04/2011	ND	0.4	92.0	0.400	1.88	GAL

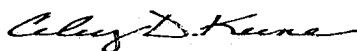
Selenium 200.8 **mg/kg dry wt.** **Analyzed By: CK**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Selenium	<0.100	0.100	05/03/2011	ND	0.258	103	0.250	1.54	GAL

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Eddie Seay Consulting
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Hobbs NM, 88242
Fax To: (505) 392-6949

Received:	04/19/2011	Sampling Date:	04/19/2011
Reported:	05/19/2011	Sampling Type:	Soil
Project Name:	DD LANDFARM (01-0034) VADOSE ZONE	Sampling Condition:	Cool & Intact
Project Number:	DD LANDFARM	Sample Received By:	Jodi Henson
Project Location:	E. EUNICE HWY 176		

Sample ID: CELL 2 - 4 (H100793-04)

Silver 200.8		mg/kg dry wt.		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Silver	0.0175	0.0050	05/03/2011	ND	0.0494	98.8	0.0500	2.99	GAL

Sulfate 375.4		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate	<40.0	40.0	04/27/2011	ND	41.5	104	40.0	4.53	

TPH 8015M		mg/kg		Analyzed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/21/2011	ND	214	107	200	0.816	
DRO >C10-C28	<10.0	10.0	04/21/2011	ND	220	110	200	0.774	

Surrogate: 1-Chlorooctane 101 % 70-130

Surrogate: 1-Chlorooctadecane 103 % 70-130

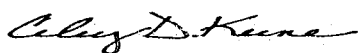
Uranium 200.8		mg/kg dry wt.		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Uranium	0.0822	0.0500	05/03/2011	ND	0.0498	99.6	0.0500	0.00	GAL	

WQCC Volatiles 8260		mg/kg		Analyzed By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Vinyl chloride	<0.0500	0.0500	04/27/2011	ND	0.973	97.3	1.00	5.96	
1,1-Dichloroethene	<0.0500	0.0500	04/27/2011	ND	1.04	104	1.00	5.06	
Methylene chloride	<0.0500	0.0500	04/27/2011	ND	0.810	81.0	1.00	9.11	
1,1-Dichloroethane	<0.0500	0.0500	04/27/2011	ND	1.10	110	1.00	6.87	
Chloroform	<0.0500	0.0500	04/27/2011	ND	1.04	104	1.00	6.04	
Carbon tetrachloride	<0.0500	0.0500	04/27/2011	ND	1.13	113	1.00	6.28	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Eddie Seay Consulting
 Eddie Seay
 601 W. Illinois
 Hobbs NM, 88242
 Fax To: (505) 392-6949

Received:	04/19/2011	Sampling Date:	04/19/2011
Reported:	05/19/2011	Sampling Type:	Soil
Project Name:	DD LANDFARM (01-0034) VADOSE ZONE	Sampling Condition:	Cool & Intact
Project Number:	DD LANDFARM	Sample Received By:	Jodi Henson
Project Location:	E. EUNICE HWY 176		

Sample ID: CELL 2 - 4 (H100793-04)
WQCC Volatiles 8260

mg/kg

Analyzed By: CMS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
1,1,1-Trichloroethane	<0.0500	0.0500	04/27/2011	ND	1.11	111	1.00	4.24	
Benzene	<0.0500	0.0500	04/27/2011	ND	1.13	113	1.00	7.62	
1,2-Dichloroethane	<0.0500	0.0500	04/27/2011	ND	1.04	104	1.00	5.87	
Trichloroethene	<0.0500	0.0500	04/27/2011	ND	1.12	112	1.00	6.93	
Toluene	<0.0500	0.0500	04/27/2011	ND	1.14	114	1.00	7.34	
Tetrachloroethene	<0.0500	0.0500	04/27/2011	ND	1.15	115	1.00	7.84	
1,1,2-Trichloroethane	<0.0500	0.0500	04/27/2011	ND	1.08	108	1.00	6.75	
1,2-Dibromoethane	<0.0500	0.0500	04/27/2011	ND	1.14	114	1.00	8.00	
Ethylbenzene	<0.0500	0.0500	04/27/2011	ND	1.07	107	1.00	6.54	
Total Xylenes	<0.150	0.150	04/27/2011	ND	3.23	108	3.00	7.99	
1,1,2,2-Tetrachloroethane	<0.0500	0.0500	04/27/2011	ND	1.10	110	1.00	5.35	
Naphthalene	<0.0500	0.0500	04/27/2011	ND	1.07	107	1.00	7.75	

Surrogate: Dibromofluoromethane 86.7 % 80-120

Surrogate: Toluene-d8 104 % 80-120

Surrogate: 4-Bromofluorobenzene 91.6 % 80-120

Zinc 200.7

mg/kg dry wt.

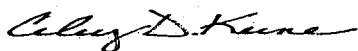
Analyzed By: CK

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Zinc	6.1	5.0	04/27/2011	ND	2.1	105	2.00	0.00	GAL

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Celey D. Keene, Lab Director/Quality Manager

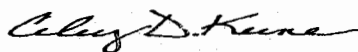
Notes and Definitions

SUB-SS	Analysis subcontracted to SunStar Laboratories, Inc.
QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
GAL	Analysis subcontracted to Green Analytical Laboratories, a subsidiary of Cardinal Laboratories.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
EDDIE SEAY CONSULTING
ATTN: EDDIE SEAY
601 W. ILLINOIS
HOBBS, NM 88240

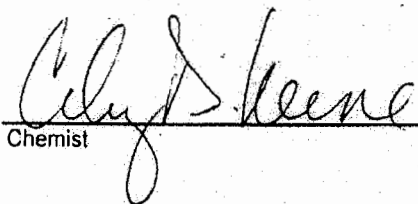
Receiving Date: 04/19/11
Reporting Date: 05/10/11
Project Number: DD LANDFARM
Project Name: DD LANDFARM (01-0034) VADOSE ZONE
Project Location: E. EUNICE HWY 176
Laboratory Number: H100793-01
Sample ID: CELL 2-1

Sampling Date: 04/19/11
Sample Type: SOIL
Sample Condition: COOL & INTACT @ 3°C
Sample Received By: JH
Analyzed By: BB
Analysis Date: 04/26/11
Analysis Time: 09:06

Analysis Description	Analysis Results pCi/gm	Analysis Error (+/- 2s)	Analysis Results Bq/gm	Analysis Error (+/- 2s)	Analysis Test Method
Ra - 226	<0.96	N/A	<0.04	N/A	EPA 901.1M
Ra - 228	<0.37	N/A	<0.01	N/A	EPA 901.1M

Notes:

Analyses subcontracted to Xenco Laboratories.


Cheryl D. Keene
Chemist

H100793NORM EDDIE

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ANALYTICAL RESULTS FOR
EDDIE SEAY CONSULTING
ATTN: EDDIE SEAY
601 W. ILLINOIS
HOBBS, NM 88240

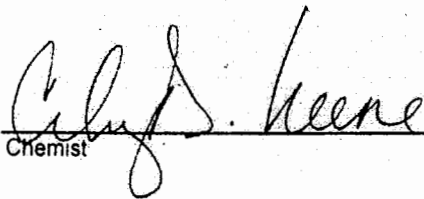
Receiving Date: 04/19/11
Reporting Date: 05/10/11
Project Number: DD LANDFARM
Project Name: DD LANDFARM (01-0034) VADOSE ZONE
Project Location: E. EUNICE HWY 176
Laboratory Number: H100793-02
Sample ID: CELL 2-2

Sampling Date: 04/19/11
Sample Type: SOIL
Sample Condition: COOL & INTACT @ 3°C
Sample Received By: JH
Analyzed By: BB
Analysis Date: 04/26/11
Analysis Time: 09:36

Analysis Description	Analysis Results pCi/gm	Analysis Error (+/- 2s)	Analysis Results Bq/gm	Analysis Error (+/- 2s)	Analysis Test Method
Ra - 226	<0.66	N/A	<0.02	N/A	EPA 901.1M
Ra - 228	<0.25	N/A	<0.01	N/A	EPA 901.1M

Notes:

Analyses subcontracted to Xenco Laboratories.


Cheryl Keene
Chemist

H100793NORM EDDIE

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ANALYTICAL RESULTS FOR
EDDIE SEAY CONSULTING
ATTN: EDDIE SEAY
601 W. ILLINOIS
HOBBS, NM 88240

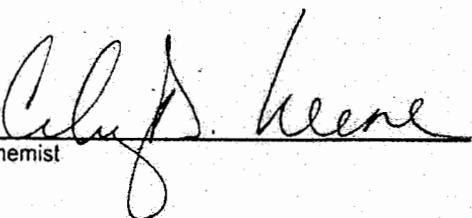
Receiving Date: 04/19/11
Reporting Date: 05/10/11
Project Number: DD LANDFARM
Project Name: DD LANDFARM (01-0034) VADOSE ZONE
Project Location: E. EUNICE HWY 176
Laboratory Number: H100793-03
Sample ID: CELL 2-3

Sampling Date: 04/19/11
Sample Type: SOIL
Sample Condition: COOL & INTACT @ 3°C
Sample Received By: JH
Analyzed By: BB
Analysis Date: 04/26/11
Analysis Time: 09:58

Analysis Description	Analysis Results pCi/gm	Analysis Error (+/- 2s)	Analysis Results Bq/gm	Analysis Error (+/- 2s)	Analysis Test Method
Ra - 226	<0.94	N/A	<0.03	N/A	EPA 901.1M
Ra - 228	<0.45	N/A	<0.02	N/A	EPA 901.1M

Notes:

Analyses subcontracted to Xenco Laboratories.


Chemist

H100793NORM EDDIE

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ANALYTICAL RESULTS FOR
EDDIE SEAY CONSULTING
ATTN: EDDIE SEAY
601 W. ILLINOIS
HOBBS, NM 88240

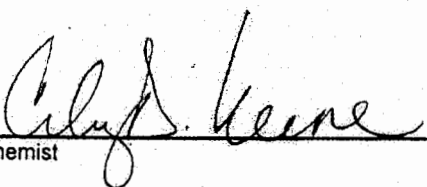
Receiving Date: 04/19/11
Reporting Date: 05/10/11
Project Number: DD LANDFARM
Project Name: DD LANDFARM (01-0034) VADOSE ZONE
Project Location: E. EUNICE HWY 176
Laboratory Number: H100793-04
Sample ID: CELL 2-4

Sampling Date: 04/19/11
Sample Type: SOIL
Sample Condition: COOL & INTACT @ 3°C
Sample Received By: JH
Analyzed By: BB
Analysis Date: 04/26/11
Analysis Time: 10:23

Analysis Description	Analysis Results pCi/gm	Analysis Error (+/- 2s)	Analysis Results Bq/gm	Analysis Error (+/- 2s)	Analysis Test Method
Ra - 226	<0.71	N/A	<0.03	N/A	EPA 901.1M
Ra - 228	<0.35	N/A	<0.01	N/A	EPA 901.1M

Notes:

Analyses subcontracted to Xenco Laboratories.


Chemist

H100793NORM EDDIE

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CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Company Name: <u>Eddie Seay Consulting</u> Project Manager: <u>Eddie Seay</u> Address: <u>601 W Illinois</u> City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88242</u> Phone #: <u>2-2236</u> Fax #: <u>2-6949</u> Project #: <u>DD Landform</u> Project Owner: <u>J. Cogges</u> Project Name: <u>DD Landform (01-0034)</u> Valuation: <u>Zone</u> Project Location: <u>E. Eunice Hwy 176</u> Phone #: <u>2-1716</u> Sampler Name: <u>Eddie Seay</u> Fax #:		P.O. #: Company: Attn: <u>Sammy</u> Address: City: State: Zip: Phone #: Fax #:															
FOR LAB USE ONLY		BILL TO															
Lab I.D.	Sample I.D.	(G) RAPID (C) COMP.	MATRIX GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER	PRESERV. ACID/BASE: ICE / COOL OTHER	SAMPLING DATE TIME	BTX	TPH (8015)	Chloride	Arsenic	Barium	Cadmium	Cyanide	Lead	Mercury	Selenium	Silver	PCB
		# CONTAINERS															
	Cell 2-1	✓	✓	✓	4/19	8:20	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Cell 2-2	✓	✓	✓	4/19	9:50	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Cell 2-3	✓	✓	✓	4/19	11:15	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Cell 2-4	✓	✓	✓	4/19	1:40	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

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Relinquished By: Eddie Seay **Date:** 4/19 **Received By:** Sammy **Time:** 3:25
Relinquished By: Eddie Seay **Date:** 4/19 **Received By:** Sammy **Time:** 3:25

Delivered By: (Circle One)
 Sampler - UPS - Bus - Other: 3c **Sample Condition:** ☒ Intact ☐ Damaged **CHECKED BY:** Sammy
REMARKS: add 20.6.2. 3103 Add B

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

† Cardinal cannot accept verbal changes. Please fax written changes to 505-263-2476

CU
A
CU

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 34 of 34



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

September 27, 2012

Eddie Seay
Eddie Seay Consulting
601 W. Illinois
Hobbs, NM 88242

RE: DD LANDFARM (01-0034) 5 YR MONITORING

Enclosed are the results of analyses for samples received by the laboratory on 08/21/12 11:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list on accredited matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accr_cred

Cardinal Laboratories is accredited through

Health and Environment for:

Method EPA 552.2	Halooacetic Ac
Method EPA 524.2	Total Trihalc
Method EPA 524.4	Regulated

Celey D. Keene

Accreditation applies to public drink

This report meets NELAP requirer
chain-of-custody. If you have a

y of the original

Sincerely,

Celey D. Keene

Celey D. Keene
Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: DD LANDFARM (01-0034) 5 YR MO
Project Number: DD LANDFARM
Project Manager: Eddie Seay
Fax To: (505) 392-6949

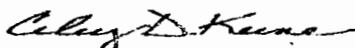
Reported:
27-Sep-12 10:16

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CELL 3 - 1	H201972-01	Soil	20-Aug-12 14:15	21-Aug-12 11:30
CELL 3 - 2	H201972-02	Soil	20-Aug-12 14:50	21-Aug-12 11:30
CELL 3 - 3	H201972-03	Soil	20-Aug-12 15:40	21-Aug-12 11:30
CELL 3 - 4	H201972-04	Soil	20-Aug-12 16:30	21-Aug-12 11:30

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: DD LANDFARM (01-0034) 5 YR MO
Project Number: DD LANDFARM
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
27-Sep-12 10:16

CELL 3 - 1

H201972-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories
Total Metals

Arsenic	0.702	0.500 mg/kg dry wt.	1000	2092613	CK	17-Sep-12	6020		GAL
Barium	24.2	0.50 mg/kg dry wt.	1000	2092613	CK	17-Sep-12	6020		GAL
Cadmium	0.160	0.100 mg/kg dry wt.	1000	2092613	CK	17-Sep-12	6020		GAL
Chromium	3.03	1.00 mg/kg dry wt.	1000	2092613	CK	17-Sep-12	6020		GAL
Copper	1.50	0.100 mg/kg dry wt.	1000	2092613	CK	17-Sep-12	6020		GAL
Iron	3110	5.0 mg/kg dry wt.	100	2092612	CK	31-Aug-12	6010		GAL
Lead	2.08	0.50 mg/kg dry wt.	1000	2092613	CK	17-Sep-12	6020		GAL
Manganese	49.2	0.500 mg/kg dry wt.	1000	2092613	CK	17-Sep-12	6020		GAL
Mercury	ND	0.098 mg/kg dry wt.	490	2092614	CK	04-Sep-12	7471A		GAL
Selenium	ND	1.00 mg/kg dry wt.	1000	2092613	CK	17-Sep-12	6020		GAL
Silver	ND	0.100 mg/kg dry wt.	1000	2092613	CK	17-Sep-12	6020		GAL
Uranium	0.125	0.100 mg/kg dry wt.	1000	2092613	CK	17-Sep-12	6020		GAL
Zinc	6.42	1.00 mg/kg dry wt.	1000	2092613	CK	17-Sep-12	6020		GAL

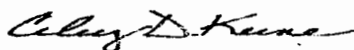
Inorganic Compounds

% Solids	99.2	%	1	2092607	CK	29-Aug-12	D2216		GAL
Chloride	ND	16.0 mg/kg	4	2082307	HM	23-Aug-12	4500-Cl-B		
Cyanide (total)	ND	0.250 mg/kg dry wt.	50	2092608	CK	29-Aug-12	335.4		GAL
Fluoride	6.64	0.800 mg/kg dry wt.	4	2092610	CK	27-Aug-12	4500F C		GAL
Nitrate/Nitrite as N	3.90	0.080 mg/kg dry wt.	4	2092611	CK	31-Aug-12	353.2		GAL
Nitrite as N	0.088	0.080 mg/kg dry wt.	4	2092611	CK	30-Aug-12	353.2		GAL
pH*	7.90	0.100 pH Units	1	2082706	HM	24-Aug-12	9045		
Phenols	ND	0.5 mg/kg dry wt.	1	2092619	CK	12-Sep-12	EPA9065		GAL
Sulfate	ND	40.0 mg/kg	4	2082806	AP	29-Aug-12	375.4		

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: DD LANDFARM (01-0034) 5 YR MO
Project Number: DD LANDFARM
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
27-Sep-12 10:16

CELL 3 - 1
H201972-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Organic Compounds

GRO C6-C10	ND	10.0	mg/kg	1	2082302	MS	24-Aug-12	8015M	
DRO >C10-C28	ND	10.0	mg/kg	1	2082302	MS	24-Aug-12	8015M	
Surrogate: 1-Chlorooctane		89.3 %	65.2-140		2082302	MS	24-Aug-12	8015M	
Surrogate: 1-Chlorooctadecane		105 %	63.6-154		2082302	MS	24-Aug-12	8015M	

Organic Compounds
SUB-SS

PCB 1016	ND	10.0	ug/kg	10	2092621	CK	29-Aug-12	8082	
PCB 1221	ND	10.0	ug/kg	10	2092621	CK	29-Aug-12	8082	
PCB 1232	ND	10.0	ug/kg	10	2092621	CK	29-Aug-12	8082	
PCB 1242	ND	10.0	ug/kg	10	2092621	CK	29-Aug-12	8082	
PCB 1248	ND	10.0	ug/kg	10	2092621	CK	29-Aug-12	8082	
PCB 1254	ND	10.0	ug/kg	10	2092621	CK	29-Aug-12	8082	
PCB 1260	ND	10.0	ug/kg	10	2092621	CK	29-Aug-12	8082	
Surrogate: Tetrachloro-meta-xylene		76.2 %	35-140		2092621	CK	29-Aug-12	8082	

Radionuclides

Radium-226	ND	0.60	pCi/gram	1	2092620	CK	06-Sep-12	903.1/904	SUB-RS
Radium-228	ND	0.70	pCi/gram	1	2092620	CK	06-Sep-12	903.1/904	SUB-RS
Total Radium	ND	0.70	pCi/gram	1	2092620	CK	06-Sep-12	903.1/904	SUB-RS

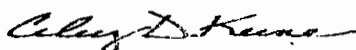
Volatile Organic Compounds by GCMS

Vinyl chloride*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
1,1-Dichloroethene*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
Methylene chloride*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
1,1-Dichloroethane*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
Chloroform*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
Carbon tetrachloride*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
1,1,1-Trichloroethane*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
Benzene*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
1,2-Dichloroethane*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: DD LANDFARM (01-0034) 5 YR MO
Project Number: DD LANDFARM
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
27-Sep-12 10:16

CELL 3 - 1 H201972-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Volatile Organic Compounds by GCMS

Trichloroethene*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
Toluene*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
Tetrachloroethene*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
1,1,2-Trichloroethane*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
1,2-Dibromoethane*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
Ethylbenzene*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
m-p Xylenes*	ND	0.100	mg/kg	50	2083011	ms	30-Aug-12	8260	
o-Xylene*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
Total Xylenes*	ND	0.150	mg/kg	50	2083011	ms	30-Aug-12	8260	
1,1,2,2-Tetrachloroethane*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
Naphthalene*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
Surrogate: Dibromofluoromethane		97.7 %		70-130	2083011	ms	30-Aug-12	8260	
Surrogate: Toluene-d8		106 %		70-130	2083011	ms	30-Aug-12	8260	
Surrogate: 4-Bromofluorobenzene		83.6 %		70-130	2083011	ms	30-Aug-12	8260	

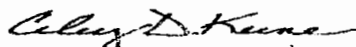
Semivolatile Organic Compounds by GCMS

Naphthalene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
2-Methylnaphthalene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
1-Methylnaphthalene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Acenaphthylene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Acenaphthene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Fluorene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Phenanthrene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Anthracene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Carbazole	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Fluoranthene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Pyrene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Benzo[a]anthracene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Chrysene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: DD LANDFARM (01-0034) 5 YR MO
Project Number: DD LANDFARM
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
27-Sep-12 10:16

CELL 3 - 1 H201972-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

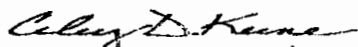
Semivolatile Organic Compounds by GCMS

Benzo[b]fluoranthene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Benzo[k]fluoranthene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Benzo[a]pyrene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Indeno[1,2,3-cd]pyrene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Dibenz[a,h]anthracene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Benzo[g,h,i]perylene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Surrogate: Nitrobenzene-d5		38.1 %	16.1-91.8		2082202	ms	31-Aug-12	8270C	
Surrogate: 2-Fluorobiphenyl		43.1 %	27.2-92.9		2082202	ms	31-Aug-12	8270C	
Surrogate: Terphenyl-d14		46.7 %	21.3-96.1		2082202	ms	31-Aug-12	8270C	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: DD LANDFARM (01-0034) 5 YR MO
Project Number: DD LANDFARM
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
27-Sep-12 10:16

CELL 3 - 2 H201972-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Total Metals

Arsenic	0.862	0.500 mg/kg dry wt.	1000	2092613	CK	17-Sep-12	6020		GAL
Barium	14.5	0.50 mg/kg dry wt.	1000	2092613	CK	17-Sep-12	6020		GAL
Cadmium	0.119	0.100 mg/kg dry wt.	1000	2092613	CK	17-Sep-12	6020		GAL
Chromium	2.59	1.00 mg/kg dry wt.	1000	2092613	CK	17-Sep-12	6020		GAL
Copper	0.905	0.100 mg/kg dry wt.	1000	2092613	CK	17-Sep-12	6020		GAL
Iron	2660	5.0 mg/kg dry wt.	100	2092612	CK	31-Aug-12	6010		GAL
Lead	1.77	0.50 mg/kg dry wt.	1000	2092613	CK	17-Sep-12	6020		GAL
Manganese	25.8	0.500 mg/kg dry wt.	1000	2092613	CK	17-Sep-12	6020		GAL
Mercury	ND	0.095 mg/kg dry wt.	476	2092614	CK	04-Sep-12	7471A		GAL
Selenium	ND	1.00 mg/kg dry wt.	1000	2092613	CK	17-Sep-12	6020		GAL
Silver	ND	0.100 mg/kg dry wt.	1000	2092613	CK	17-Sep-12	6020		GAL
Uranium	ND	0.100 mg/kg dry wt.	1000	2092613	CK	17-Sep-12	6020		GAL
Zinc	3.19	1.00 mg/kg dry wt.	1000	2092613	CK	17-Sep-12	6020		GAL

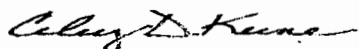
Inorganic Compounds

% Solids	99.7	%	1	2092607	CK	29-Aug-12	D2216		GAL
Chloride	ND	16.0 mg/kg	4	2082307	HM	23-Aug-12	4500-Cl-B		
Cyanide (total)	ND	0.250 mg/kg dry wt.	50	2092608	CK	29-Aug-12	335.4		GAL
Fluoride	1.49	0.800 mg/kg dry wt.	4	2092610	CK	27-Aug-12	4500F C		GAL
Nitrate/Nitrite as N	1.00	0.080 mg/kg dry wt.	4	2092611	CK	31-Aug-12	353.2		GAL
Nitrite as N	0.118	0.080 mg/kg dry wt.	4	2092611	CK	30-Aug-12	353.2		GAL
pH*	7.40	0.100 pH Units	1	2082706	HM	24-Aug-12	9045		
Phenols	ND	0.5 mg/kg dry wt.	1	2092619	CK	12-Sep-12	EPA9065		GAL
Sulfate	ND	40.0 mg/kg	4	2082806	AP	29-Aug-12	375.4		

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: DD LANDFARM (01-0034) 5 YR MO
Project Number: DD LANDFARM
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported: ✓
27-Sep-12 10:16

CELL 3 - 2 H201972-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Organic Compounds

GRO C6-C10	ND	10.0	mg/kg	1	2082302	MS	24-Aug-12	8015M	
DRO >C10-C28	ND	10.0	mg/kg	1	2082302	MS	24-Aug-12	8015M	
Surrogate: 1-Chlorooctane		89.6 %	65.2-140		2082302	MS	24-Aug-12	8015M	
Surrogate: 1-Chlorooctadecane		102 %	63.6-154		2082302	MS	24-Aug-12	8015M	

Organic Compounds

SUB-SS

PCB 1016	ND	10.0	ug/kg	10	2092621	CK	29-Aug-12	8082	
PCB 1221	ND	10.0	ug/kg	10	2092621	CK	29-Aug-12	8082	
PCB 1232	ND	10.0	ug/kg	10	2092621	CK	29-Aug-12	8082	
PCB 1242	ND	10.0	ug/kg	10	2092621	CK	29-Aug-12	8082	
PCB 1248	ND	10.0	ug/kg	10	2092621	CK	29-Aug-12	8082	
PCB 1254	ND	10.0	ug/kg	10	2092621	CK	29-Aug-12	8082	
PCB 1260	ND	10.0	ug/kg	10	2092621	CK	29-Aug-12	8082	
Surrogate: Tetrachloro-meta-xylene		81.0 %	35-140		2092621	CK	29-Aug-12	8082	

Radionuclides

Radium-226	ND	0.60	pCi/gram	1	2092620	CK	06-Sep-12	903.1/904	SUB-RS
Radium-228	ND	0.70	pCi/gram	1	2092620	CK	06-Sep-12	903.1/904	SUB-RS
Total Radium	ND	0.70	pCi/gram	1	2092620	CK	06-Sep-12	903.1/904	SUB-RS

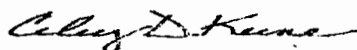
Volatile Organic Compounds by GCMS

Vinyl chloride*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
1,1-Dichloroethene*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
Methylene chloride*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
1,1-Dichloroethane*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
Chloroform*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
Carbon tetrachloride*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
1,1,1-Trichloroethane*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
Benzene*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
1,2-Dichloroethane*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	

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Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: DD LANDFARM (01-0034) 5 YR MO
Project Number: DD LANDFARM
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
27-Sep-12 10:16

CELL 3 - 2
H201972-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Volatile Organic Compounds by GCMS

Trichloroethene*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
Toluene*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
Tetrachloroethene*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
1,1,2-Trichloroethane*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
1,2-Dibromoethane*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
Ethylbenzene*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
m-p Xylenes*	ND	0.100	mg/kg	50	2083011	ms	30-Aug-12	8260	
o-Xylene*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
Total Xylenes*	ND	0.150	mg/kg	50	2083011	ms	30-Aug-12	8260	
1,1,2,2-Tetrachloroethane*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
Naphthalene*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
Surrogate: Dibromofluoromethane		99.0 %		70-130	2083011	ms	30-Aug-12	8260	
Surrogate: Toluene-d8		103 %		70-130	2083011	ms	30-Aug-12	8260	
Surrogate: 4-Bromofluorobenzene		82.3 %		70-130	2083011	ms	30-Aug-12	8260	

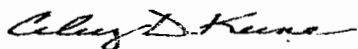
Semivolatile Organic Compounds by GCMS

Naphthalene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
2-Methylnaphthalene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
1-Methylnaphthalene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Acenaphthylene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Acenaphthene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Fluorene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Phenanthrene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Anthracene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Carbazole	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Fluoranthene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Pyrene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Benzo[a]anthracene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Chrysene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	

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Project: DD LANDFARM (01-0034) 5 YR MO
Project Number: DD LANDFARM
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
27-Sep-12 10:16

CELL 3 - 2
H201972-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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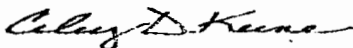
Cardinal Laboratories
Semivolatile Organic Compounds by GCMS

Benzo[b]fluoranthene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Benzo[k]fluoranthene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Benzo[a]pyrene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Indeno[1,2,3-cd]pyrene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Dibenz[a,h]anthracene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Benzo[g,h,i]perylene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Surrogate: Nitrobenzene-d5		31.5 %	16.1-91.8		2082202	ms	31-Aug-12	8270C	
Surrogate: 2-Fluorobiphenyl		33.4 %	27.2-92.9		2082202	ms	31-Aug-12	8270C	
Surrogate: Terphenyl-d14		43.0 %	21.3-96.1		2082202	ms	31-Aug-12	8270C	

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: DD LANDFARM (01-0034) 5 YR MO
Project Number: DD LANDFARM
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
27-Sep-12 10:16

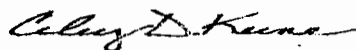
CELL 3 - 3
H201972-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories									
Total Metals									
Arsenic	0.525	0.500 mg/kg dry wt.		1000	2092613	CK	17-Sep-12	6020	GAL
Barium	14.6	0.50 mg/kg dry wt.		1000	2092613	CK	17-Sep-12	6020	GAL
Cadmium	ND	0.100 mg/kg dry wt.		1000	2092613	CK	17-Sep-12	6020	GAL
Chromium	2.11	1.00 mg/kg dry wt.		1000	2092613	CK	17-Sep-12	6020	GAL
Copper	1.06	0.100 mg/kg dry wt.		1000	2092613	CK	17-Sep-12	6020	GAL
Iron	2620	5.0 mg/kg dry wt.		100	2092612	CK	31-Aug-12	6010	GAL
Lead	2.03	0.50 mg/kg dry wt.		1000	2092613	CK	17-Sep-12	6020	GAL
Manganese	31.0	0.500 mg/kg dry wt.		1000	2092613	CK	17-Sep-12	6020	GAL
Mercury	ND	0.095 mg/kg dry wt.		476	2092614	CK	04-Sep-12	7471A	GAL
Selenium	ND	1.00 mg/kg dry wt.		1000	2092613	CK	17-Sep-12	6020	GAL
Silver	ND	0.100 mg/kg dry wt.		1000	2092613	CK	17-Sep-12	6020	GAL
Uranium	ND	0.100 mg/kg dry wt.		1000	2092613	CK	17-Sep-12	6020	GAL
Zinc	4.61	1.00 mg/kg dry wt.		1000	2092613	CK	17-Sep-12	6020	GAL
Inorganic Compounds									
% Solids	99.0	%		1	2092607	CK	29-Aug-12	D2216	GAL
Chloride	ND	16.0 mg/kg		4	2082307	HM	23-Aug-12	4500-Cl-B	
Cyanide (total)	ND	0.250 mg/kg dry wt.		50	2092608	CK	29-Aug-12	335.4	GAL
Fluoride	2.36	0.800 mg/kg dry wt.		4	2092610	CK	27-Aug-12	4500F C	GAL
Nitrate/Nitrite as N	3.25	0.080 mg/kg dry wt.		4	2092611	CK	31-Aug-12	353.2	GAL
Nitrite as N	0.299	0.080 mg/kg dry wt.		4	2092611	CK	30-Aug-12	353.2	GAL
pH*	7.87	0.100 pH Units		1	2082706	HM	24-Aug-12	9045	
Phenols	ND	0.5 mg/kg dry wt.		1	2092619	CK	12-Sep-12	EPA9065	GAL
Sulfate	142	40.0 mg/kg		4	2082806	AP	29-Aug-12	375.4	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: DD LANDFARM (01-0034) 5 YR MO
Project Number: DD LANDFARM
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
27-Sep-12 10:16

CELL 3 - 3
H201972-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Organic Compounds

GRO C6-C10	ND	10.0	mg/kg	1	2082302	MS	24-Aug-12	8015M	
DRO >C10-C28	ND	10.0	mg/kg	1	2082302	MS	24-Aug-12	8015M	
Surrogate: 1-Chlorooctane		79.1 %	65.2-140		2082302	MS	24-Aug-12	8015M	
Surrogate: 1-Chlorooctadecane		93.5 %	63.6-154		2082302	MS	24-Aug-12	8015M	

Organic Compounds
SUB-SS

PCB 1016	ND	10.0	ug/kg	10	2092621	CK	29-Aug-12	8082	
PCB 1221	ND	10.0	ug/kg	10	2092621	CK	29-Aug-12	8082	
PCB 1232	ND	10.0	ug/kg	10	2092621	CK	29-Aug-12	8082	
PCB 1242	ND	10.0	ug/kg	10	2092621	CK	29-Aug-12	8082	
PCB 1248	ND	10.0	ug/kg	10	2092621	CK	29-Aug-12	8082	
PCB 1254	ND	10.0	ug/kg	10	2092621	CK	29-Aug-12	8082	
PCB 1260	ND	10.0	ug/kg	10	2092621	CK	29-Aug-12	8082	
Surrogate: Tetrachloro-meta-xylene		96.3 %	35-140		2092621	CK	29-Aug-12	8082	

Radionuclides

Radium-226	ND	0.40	pCi/gram	1	2092620	CK	06-Sep-12	903.1/904	SUB-RS
Radium-228	ND	0.60	pCi/gram	1	2092620	CK	06-Sep-12	903.1/904	SUB-RS
Total Radium	ND	0.60	pCi/gram	1	2092620	CK	06-Sep-12	903.1/904	SUB-RS

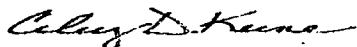
Volatile Organic Compounds by GCMS

Vinyl chloride*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
1,1-Dichloroethene*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
Methylene chloride*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
1,1-Dichloroethane*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
Chloroform*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
Carbon tetrachloride*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
1,1,1-Trichloroethane*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
Benzene*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
1,2-Dichloroethane*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: DD LANDFARM (01-0034) 5 YR MO
Project Number: DD LANDFARM
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
27-Sep-12 10:16

CELL 3 - 3
H201972-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Volatile Organic Compounds by GCMS

Trichloroethene*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
Toluene*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
Tetrachloroethene*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
1,1,2-Trichloroethane*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
1,2-Dibromoethane*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
Ethylbenzene*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
m-p Xylenes*	ND	0.100	mg/kg	50	2083011	ms	30-Aug-12	8260	
o-Xylene*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
Total Xylenes*	ND	0.150	mg/kg	50	2083011	ms	30-Aug-12	8260	
1,1,2,2-Tetrachloroethane*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
Naphthalene*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
Surrogate: Dibromofluoromethane		101 %		70-130	2083011	ms	30-Aug-12	8260	
Surrogate: Toluene-d8		105 %		70-130	2083011	ms	30-Aug-12	8260	
Surrogate: 4-Bromofluorobenzene		82.9 %		70-130	2083011	ms	30-Aug-12	8260	

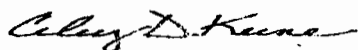
Semivolatile Organic Compounds by GCMS

Naphthalene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
2-Methylnaphthalene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
1-Methylnaphthalene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Acenaphthylene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Acenaphthene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Fluorene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Phenanthrene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Anthracene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Carbazole	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Fluoranthene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Pyrene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Benzo[a]anthracene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Chrysene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: DD LANDFARM (01-0034) 5 YR MO
Project Number: DD LANDFARM
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
27-Sep-12 10:16

CELL 3 - 3
H201972-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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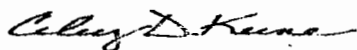
Cardinal Laboratories
Semivolatile Organic Compounds by GCMS

Benzo[b]fluoranthene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Benzo[k]fluoranthene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Benzo[a]pyrene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Indeno[1,2,3-cd]pyrene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Dibenz[a,h]anthracene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Benzo[g,h,i]perylene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Surrogate: Nitrobenzene-d5		31.1 %		16.1-91.8	2082202	ms	31-Aug-12	8270C	
Surrogate: 2-Fluorobiphenyl		38.1 %		27.2-92.9	2082202	ms	31-Aug-12	8270C	
Surrogate: Terphenyl-d14		48.3 %		21.3-96.1	2082202	ms	31-Aug-12	8270C	

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Caley D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: DD LANDFARM (01-0034) 5 YR MO
Project Number: DD LANDFARM
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
27-Sep-12 10:16

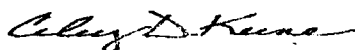
CELL 3 - 4
H201972-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories									
Total Metals									
Arsenic	0.702	0.500 mg/kg dry wt.		1000	2092613	CK	17-Sep-12	6020	GAL
Barium	12.9	0.50 mg/kg dry wt.		1000	2092613	CK	17-Sep-12	6020	GAL
Cadmium	ND	0.100 mg/kg dry wt.		1000	2092613	CK	17-Sep-12	6020	GAL
Chromium	1.76	1.00 mg/kg dry wt.		1000	2092613	CK	17-Sep-12	6020	GAL
Copper	0.673	0.100 mg/kg dry wt.		1000	2092613	CK	17-Sep-12	6020	GAL
Iron	2660	5.0 mg/kg dry wt.		100	2092612	CK	31-Aug-12	6010	GAL
Lead	1.90	0.50 mg/kg dry wt.		1000	2092613	CK	17-Sep-12	6020	GAL
Manganese	19.6	0.500 mg/kg dry wt.		1000	2092613	CK	17-Sep-12	6020	GAL
Mercury	ND	0.098 mg/kg dry wt.		490	2092614	CK	04-Sep-12	7471A	GAL
Selenium	ND	1.00 mg/kg dry wt.		1000	2092613	CK	17-Sep-12	6020	GAL
Silver	ND	0.100 mg/kg dry wt.		1000	2092613	CK	17-Sep-12	6020	GAL
Uranium	ND	0.100 mg/kg dry wt.		1000	2092613	CK	17-Sep-12	6020	GAL
Zinc	1.65	1.00 mg/kg dry wt.		1000	2092613	CK	17-Sep-12	6020	GAL
Inorganic Compounds									
% Solids	99.7	%		1	2092607	CK	29-Aug-12	D2216	GAL
Chloride	ND	16.0 mg/kg		4	2082307	HM	23-Aug-12	4500-Cl-B	
Cyanide (total)	ND	0.250 mg/kg dry wt.		50	2092608	CK	29-Aug-12	335.4	GAL
Fluoride	2.16	0.800 mg/kg dry wt.		4	2092610	CK	27-Aug-12	4500F C	GAL
Nitrate/Nitrite as N	1.65	0.080 mg/kg dry wt.		4	2092611	CK	31-Aug-12	353.2	GAL
Nitrite as N	0.117	0.080 mg/kg dry wt.		4	2092611	CK	30-Aug-12	353.2	GAL
pH*	7.25	0.100 pH Units		1	2082706	HM	24-Aug-12	9045	
Phenols	ND	0.5 mg/kg dry wt.		1	2092619	CK	12-Sep-12	EPA9065	GAL
Sulfate	ND	40.0 mg/kg		4	2082806	AP	29-Aug-12	375.4	

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: DD LANDFARM (01-0034) 5 YR MO
Project Number: DD LANDFARM
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
27-Sep-12 10:16

CELL 3 - 4
H201972-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Organic Compounds

GRO C6-C10	ND	10.0	mg/kg	1	2082302	MS	24-Aug-12	8015M	
DRO >C10-C28	ND	10.0	mg/kg	1	2082302	MS	24-Aug-12	8015M	
Surrogate: 1-Chlorooctane		95.4 %	65.2-140		2082302	MS	24-Aug-12	8015M	
Surrogate: 1-Chlorooctadecane		101 %	63.6-154		2082302	MS	24-Aug-12	8015M	

Organic Compounds
SUB-SS

PCB 1016	ND	10.0	ug/kg	10	2092621	CK	29-Aug-12	8082	
PCB 1221	ND	10.0	ug/kg	10	2092621	CK	29-Aug-12	8082	
PCB 1232	ND	10.0	ug/kg	10	2092621	CK	29-Aug-12	8082	
PCB 1242	ND	10.0	ug/kg	10	2092621	CK	29-Aug-12	8082	
PCB 1248	ND	10.0	ug/kg	10	2092621	CK	29-Aug-12	8082	
PCB 1254	ND	10.0	ug/kg	10	2092621	CK	29-Aug-12	8082	
PCB 1260	ND	10.0	ug/kg	10	2092621	CK	29-Aug-12	8082	
Surrogate: Tetrachloro-meta-xylene		74.4 %	35-140		2092621	CK	29-Aug-12	8082	

Radionuclides

Radium-226	ND	0.50	pCi/gram	1	2092620	CK	06-Sep-12	903.1/904	SUB-RS
Radium-228	ND	0.70	pCi/gram	1	2092620	CK	06-Sep-12	903.1/904	SUB-RS
Total Radium	ND	0.70	pCi/gram	1	2092620	CK	06-Sep-12	903.1/904	SUB-RS

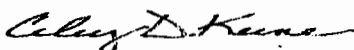
Volatile Organic Compounds by GCMS

Vinyl chloride*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
1,1-Dichloroethene*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
Methylene chloride*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
1,1-Dichloroethane*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
Chloroform*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
Carbon tetrachloride*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
1,1,1-Trichloroethane*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
Benzene*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
1,2-Dichloroethane*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: DD LANDFARM (01-0034) 5 YR MO
Project Number: DD LANDFARM
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
27-Sep-12 10:16

CELL 3 - 4 H201972-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Volatile Organic Compounds by GCMS

Trichloroethene*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
Toluene*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
Tetrachloroethene*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
1,1,2-Trichloroethane*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
1,2-Dibromoethane*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
Ethylbenzene*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
m-p Xylenes*	ND	0.100	mg/kg	50	2083011	ms	30-Aug-12	8260	
o-Xylene*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
Total Xylenes*	ND	0.150	mg/kg	50	2083011	ms	30-Aug-12	8260	
1,1,2,2-Tetrachloroethane*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
Naphthalene*	ND	0.0500	mg/kg	50	2083011	ms	30-Aug-12	8260	
Surrogate: Dibromofluoromethane		98.3 %	70-130		2083011	ms	30-Aug-12	8260	
Surrogate: Toluene-d8		106 %	70-130		2083011	ms	30-Aug-12	8260	
Surrogate: 4-Bromofluorobenzene		82.7 %	70-130		2083011	ms	30-Aug-12	8260	

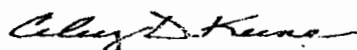
Semivolatile Organic Compounds by GCMS

Naphthalene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
2-Methylnaphthalene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
1-Methylnaphthalene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Acenaphthylene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Acenaphthene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Fluorene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Phenanthrene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Anthracene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Carbazole	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Fluoranthene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Pyrene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Benzo[a]anthracene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Chrysene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: DD LANDFARM (01-0034) 5 YR MO
Project Number: DD LANDFARM
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
27-Sep-12 10:16

CELL 3 - 4
H201972-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	--------	-------

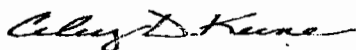
Cardinal Laboratories
Semivolatile Organic Compounds by GCMS

Benzo[b]fluoranthene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Benzo[k]fluoranthene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Benzo[a]pyrene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Indeno[1,2,3-cd]pyrene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Dibenz[a,h]anthracene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Benzo[g,h,i]perylene	ND	0.040	mg/kg	40	2082202	ms	31-Aug-12	8270C	
Surrogate: Nitrobenzene-d5		32.5 %		16.1-91.8	2082202	ms	31-Aug-12	8270C	
Surrogate: 2-Fluorobiphenyl		37.6 %		27.2-92.9	2082202	ms	31-Aug-12	8270C	
Surrogate: Terphenyl-d14		43.6 %		21.3-96.1	2082202	ms	31-Aug-12	8270C	

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



Continue

Company Name: <u>Eddie Sam Consulting</u>		P.O. #:		
Project Manager: <u>Eddie Sam</u>		Company:		
Address: <u>601 W. T. Nino</u>		Attn:		
City: <u>Alamosa</u> State: <u>NM</u> Zip: <u>884242</u>		Address: <u>Sam</u>		
Phone #: <u>2-2236</u> Fax #: <u>2-6949</u>		City:		
Project #: <u>DD LF</u> Project Owner: <u>J. Cooper</u>		State:		
Project Name: <u>DD LF</u> (NM-01-0034)		Phone #:		
Project Location: <u>Sub 31 T. 21 R. 38 (E. Ewing)</u>		Fax #:		
Sampler Name: <u>Eddie Sam</u> (Syr Monitoring)				
FOR LAB USE ONLY		MATRIX	PRESERV	SAMPLING
		GROUNDWATER	ACID/BASE:	OTHER:
		WASTEWATER	ICE / COOL	OTHER:
		SOIL		
		OIL		
		SLUDGE		
		OTHER:		
		# CONTAINERS		
		(SRABOR (C)OMP.		
Lab I.D.	Sample I.D.			
H2O1972				
1 Cell 3 - 1				
2 Cell 3 - 2				
3 Cell 3 - 3				
4 Cell 3 - 4				

Relinquished By: <u>[Signature]</u> Relinquished By: _____		Date: <u>8/24</u> Time: <u>8:30</u> Date: _____ Time: _____		Received By: <u>[Signature]</u> Received By: _____		Checked By: <u>[Signature]</u> Checked By: _____	
Delivered By: (Circle One) Sampler - UPS - Bus - Other: _____		Sample Condition Cool ☒ Intact ☒ Yes ☒ No ☒ No ☐ Yes ☐ No ☐ No ☐		Phone Result: ☐ Yes ☐ No Add'l Phone #: _____ Fax Result: ☐ Yes ☐ No Add'l Fax #: _____		REMARKS: <u>all 20.6.2.3103 A4B</u>	

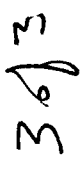
all 20.6.2.3103 AB



Continues

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+ Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



363

363

363

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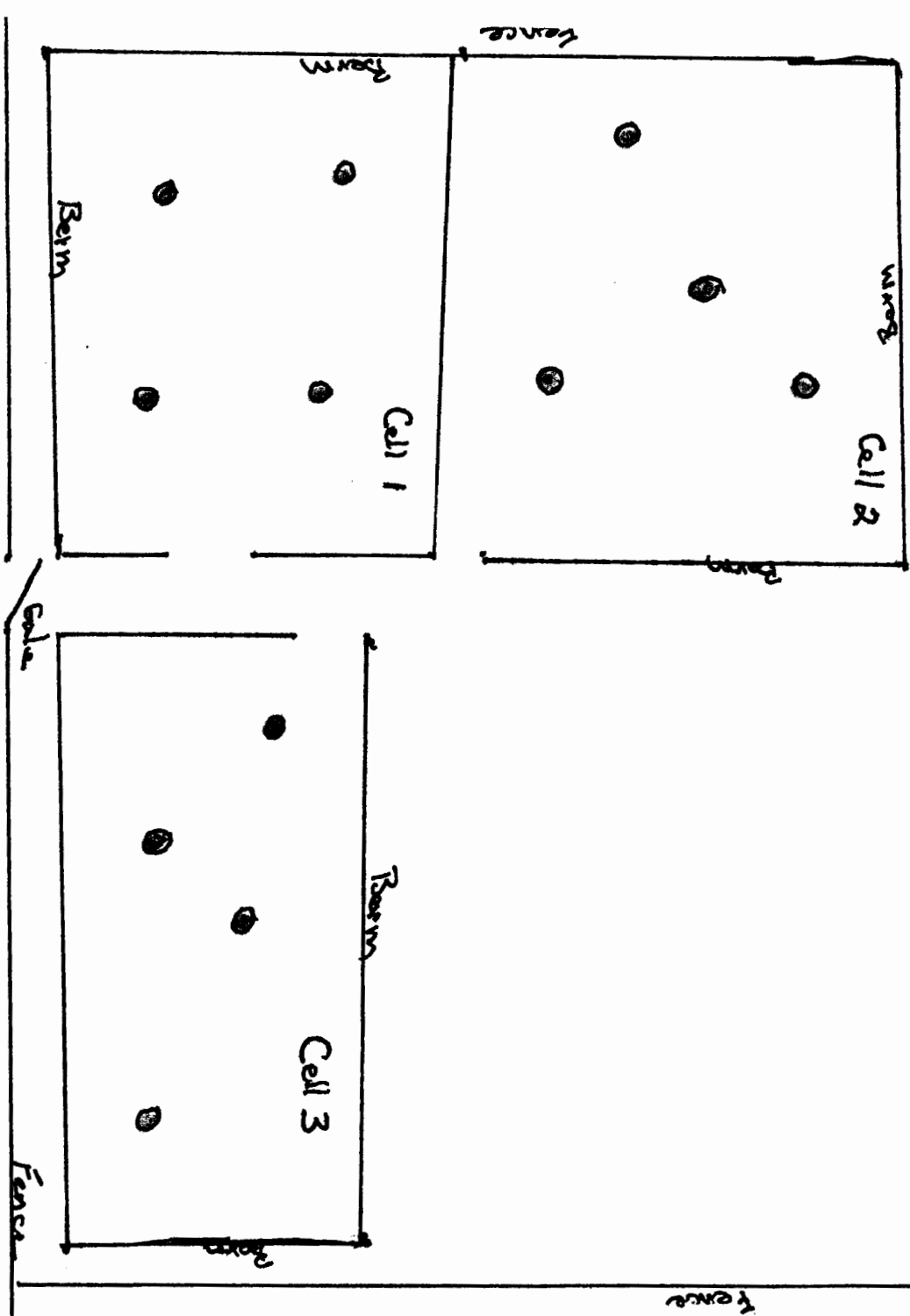
363

MAP

W-1

DD Landfarm
NM-01-0034

● Approx Sampling
Points



Andrews
TX

State of New Mexico
Energy, Minerals and Natural Resources Department

Susana Martinez
Governor

David Martin
Cabinet Secretary

Brett F. Woods, Ph.D.
Deputy Cabinet Secretary

Jami Bailey, Division Director
Oil Conservation Division



April 10, 2014

Mr. Jimmy Cooper
DD Landfarm
P.O. Box 36
Monument, New Mexico 88265

**RE: 2013 Bi-Annual Sampling and Five Year Monitoring Reports Review
DD Landfarm
Permit NM1-034
Location: W/2 W/2 of Section 31, Township 21 South, Range 39 East, NMPM,
Lea County, New Mexico**

Dear Mr. Cooper:

The Oil Conservation Division (OCD) has completed the review of DD Landfarm's 2013 Bi-Annual Sampling and Five Year Monitoring Report, dated April 15, 2013, 2013 Bi-Annual Sampling Monitoring Report, dated September 30, 2013, and 2014 Bi-Annual Sampling Monitoring Report, dated April 2014. The vadose zone results were not compared to the background results in order to determine if a release had occurred and if additional follow-up actions are required to be completed. The annual sampling events did not include performing laboratory analysis for "major cations/anions" as specified in the permit. The five year vadose sampling event was not implemented on all of the active landfarm cells and additional laboratory analysis was performed that was not required by regulation. Also, the incorrect test method for TPH was utilized and demonstrated in regards to vadose zone monitoring.

The April 2013 Bi-Annual Sampling and Five Year Monitoring Report and 2014 Bi-Annual Sampling Monitoring Report annual sampling events did not include performing laboratory analysis for "major cations/anions" as specified in the permit. DD Landfarm's November 16, 2000 surface waste management facility permit (NM1-034) states "The soil samples must be analyzed using EPA-approved methods for total petroleum hydrocarbons (TPH) and volatile aromatic organics (BTEX) quarterly and for major cations/anions and Water Quality Control Commission (WQCC) metals annually." The cover letter did not identify cations/anions as constituent tested and cations/anions were not requested on the chain of custody record. Please perform the required analysis for all future annual sampling events to remain in compliance with the permit.

In accordance with Paragraph (1) of 19.15.36.15.E NMAC, "The operator shall monitor the vadose zone beneath the treatment zone in each landfarm cell." Pursuant to Paragraph (3) of

19.15.36.15.E NMAC, "The operator shall collect and analyze a minimum of four randomly selected, independent samples from the vadose zone, using the methods specified below for the constituents listed in Subsections A and B of 20.6.2.3103 NMAC at least every five years and shall compare each result to the higher of the PQL or the background soil concentrations to determine whether a release has occurred." The five year sampling was only performed on the following landfarm cell(s): Cell 1 sampled March 13, 2013. Also, the laboratory results submitted in the monitoring report demonstrated that analysis was performed for all the constituents listed in Subsections A and B of 20.6.2.3103 NMAC. As underlined in the above reference of Paragraph (1) of 19.15.36.15.E NMAC, the "methods specified below for the constituents listed in Subsections A and B of 20.6.2.3103 NMAC" are those identified in Subsection F of 19.15.36.15 NMAC: such as "determined by EPA SW-846 methods 6010B or 6020 or other EPA method approved by the division..." Please perform the five year monitoring program on the remaining active landfarm cells in order to complete the five year monitoring and to demonstrate compliance of Paragraphs (1) and (3) of 19.15.36.15.E NMAC.

In regards to utilizing the proper TPH test method for vadose zone monitoring, in accordance with Paragraph (2) of 19.15.36.15.E NMAC the operator shall analyze the samples from the vadose zone "using the methods specified below for TPH, BTEX and chlorides and shall compare each result to the higher of the PQL or the background soil concentrations to determine whether a release has occurred." The "methods specified below for TPH, BTEX and chlorides" are those identified in Subsection F of 19.15.36.15 NMAC: such as "TPH, as determined by EPA method 418.1 or other EPA method approved by the division..." Pursuant to the Transitional Provisions of Subsection A of 19.15.36.20.NMAC, "Existing surface waste management facilities shall comply with the operational, waste acceptance and closure requirements provided in 19.15.36 NMAC, except as otherwise specifically provided in the applicable permit or order, or in a specific waiver, exception or agreement that the division has granted in writing to the particular surface waste management facility." The most common vadose zone monitoring (commonly referred to, but incorrectly as "Treatment Zone Monitoring" within existing landfarm permits) condition in an existing landfarm permit is as follows: "The soil samples must be analyzed using EPA-approved methods for total petroleum hydrocarbons (TPH) and volatile aromatic organics (BTEX) quarterly and for major cations/anions and Water Quality Control Commission (WQCC) metals annually." The permit condition only identified the constituent and does not specify the test method. Part 36 specifies EPA Method 418.1 as the required vadose zone analyses for TPH. Please submit all future vadose zone sampling results demonstrating TPH by EPA Method 418.1.

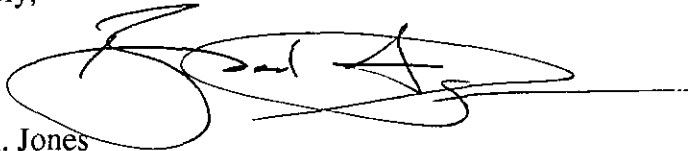
The 2013 Bi-Annual Sampling and Five Year Monitoring Report only included the laboratory results from the sampling event. The requirements of Subsection E of 19.15.36.15 NMAC are clear that the operator "shall compare each result to the higher of the PQL or the background soil concentrations to determine whether a release has occurred." The rest of the vadose zone assessment was not completed to determine if a release has occurred and/or if the required additional testing and a response action plan of Paragraph (5) of 19.15.36.15.E NMAC are required. Please complete the required assessment.

Please note that the submittal of treatment zone monitoring results alone does not constitute a request for a successive/additional lift. The permit condition specifies "Authorization from the OCD must be obtained prior to application of successive lifts and/or removal of remediated

soils." OCD requires such request to be made under a separate cover from other reporting and include the supporting analytical results and an updated facility map that illustrates and identifies the individual landfarm cells within the facility boundary and indicate the approximate location within the landfarm cells in which the samples were obtained.

Please complete the required actions of 19.15.36.15.E NMAC and provide OCD with the sampling results compared to background or PQL within 45 days of receipt of this letter. Please perform the five year monitoring program on all of the active landfarm cells. Please submit future vadose zone sampling results demonstrating TPH by EPA Method 418.1 and compliance to Paragraph (3) of 19.15.36.15.E NMAC by EPA SW-846 methods 6010B or 6020. As required in the permit, please perform laboratory analysis and submit the results for the "major cations/anions and Water Quality Control Commission (WQCC) metals annually" for all future vadose zone sampling events. Also, please provide an updated facility map that identifies the individual landfarm cells within the facility boundary and indicate the approximate location within the landfarm cells in which the samples were obtained. If there are any questions regarding this matter, please do not hesitate to contact me at (505) 476-3487 or brad.a.jones@state.nm.us.

Sincerely,

A handwritten signature in black ink, appearing to read 'Brad A. Jones', with a long horizontal line extending to the right.

Brad A. Jones
Environmental Engineer

BAJ/baj

cc: OCD District I Office, Hobbs
Eddie Seay, Eddie Seay Consulting, Hobbs, NM 88242

April, 2014

RECEIVED OCD

2014 APR -7 P 2: 05

NMOCD Environmental
ATTN: Brad Jones
1220 South St. Francis Drive
Santa Fe, NM 87505

RE: DD Landfarm (Permit #01-0034)
Semi-Annual Sampling

Mr. Jones:

Find within the semi-annual sampling for both the treatment zone and vadose zone as required.

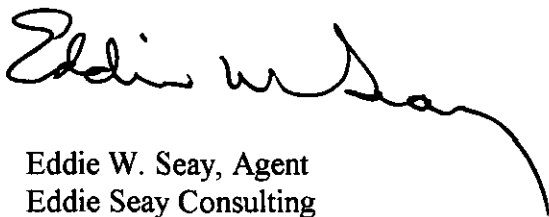
The treatment zone samples were taken at two to four inches of surface making one composite from four discrete samples for each cell, testing for TPH and Chloride.

The vadose zone samples were taken at approximately three feet below the natural surface level. There were four samples from each cell, composited and tested for BTEX, TPH, Chloride and WQCC Metals.

We will continue to operate and maintain the facility as our permit and rule 36 requires and will continue with closing as approved.

If you have any questions or need anything further, please call.

Sincerely,



Eddie W. Seay, Agent
Eddie Seay Consulting
601 W. Illinois
Hobbs, NM 88242
575-392-2236
seay04@leaco.net

cc: DD Landfarm

March 31, 2014

Eddie Seay

Eddie Seay Consulting

601 W. Illinois

Hobbs, NM 88242

RE: DD LANDFARM (NM-01-0034) BI-ANNUAL MONITORING

Enclosed are the results of analyses for samples received by the laboratory on 03/19/14 14:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Total Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

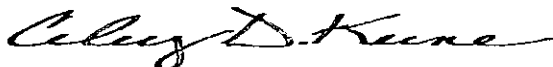
Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene
Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: DD LANDFARM (NM-01-0034) BI-A
Project Number: DD LF
Project Manager: Eddie Seay
Fax To: (505) 392-6949

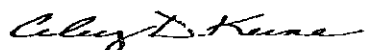
Reported:
31-Mar-14 14:56

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CELL 1 - V	H400836-01	Soil	18-Mar-14 08:20	19-Mar-14 14:05
CELL 2 - V	H400836-02	Soil	18-Mar-14 08:50	19-Mar-14 14:05
CELL 3 - V	H400836-03	Soil	18-Mar-14 09:30	19-Mar-14 14:05
CELL 1 T	H400836-04	Soil	18-Mar-14 10:15	19-Mar-14 14:05
CELL 2 T	H400836-05	Soil	18-Mar-14 10:40	19-Mar-14 14:05
CELL 3 T	H400836-06	Soil	18-Mar-14 11:05	19-Mar-14 14:05

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: DD LANDFARM (NM-01-0034) BI-A
Project Number: DD LF
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
31-Mar-14 14:56

CELL 1 - V
H400836-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Inorganic Compounds

Chloride	ND		16.0	mg/kg	4	4032505	AP	25-Mar-14	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	ND		0.050	mg/kg	50	4032401	MS	24-Mar-14	8021B	
Toluene*	ND		0.050	mg/kg	50	4032401	MS	24-Mar-14	8021B	
Ethylbenzene*	ND		0.050	mg/kg	50	4032401	MS	24-Mar-14	8021B	
Total Xylenes*	ND		0.150	mg/kg	50	4032401	MS	24-Mar-14	8021B	
Total BTEX	ND		0.300	mg/kg	50	4032401	MS	24-Mar-14	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			108 %		89.4-126	4032401	MS	24-Mar-14	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10	ND		10.0	mg/kg	1	4032103	ms	24-Mar-14	8015B	
DRO >C10-C28	ND		10.0	mg/kg	1	4032103	ms	24-Mar-14	8015B	

Surrogate: 1-Chlorooctane			95.8 %		65.2-140	4032103	ms	24-Mar-14	8015B	
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Surrogate: 1-Chlorooctadecane			94.9 %		63.6-154	4032103	ms	24-Mar-14	8015B	
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Green Analytical Laboratories
General Chemistry

% Dry Solids	98.6			%	1	B403199	LLG	21-Mar-14	EPA160.3	
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Total Metals by ICP

Iron	2350		5.00	mg/kg dry	100	B403198	JGS	21-Mar-14	EPA6010 B	
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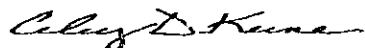
Total Metals by ICPMS

Arsenic	0.572		0.500	mg/kg dry	1000	B403197	JGS	21-Mar-14	6020 A	
Barium	22.5		0.500	mg/kg dry	1000	B403197	JGS	21-Mar-14	6020 A	
Cadmium	ND		0.100	mg/kg dry	1000	B403197	JGS	21-Mar-14	6020 A	
Chromium	1.65		1.00	mg/kg dry	1000	B403197	JGS	21-Mar-14	6020 A	
Copper	ND		0.100	mg/kg dry	1000	B403197	JGS	21-Mar-14	6020 A	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: DD LANDFARM (NM-01-0034) BI-A
Project Number: DD LF
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
31-Mar-14 14:56

CELL 1 - V
H400836-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Green Analytical Laboratories**Total Metals by ICPMS**

Lead	2.50		0.500	mg/kg dry	1000	B403197	JGS	21-Mar-14	6020 A	
Manganese	26.7		0.500	mg/kg dry	1000	B403197	JGS	21-Mar-14	6020 A	
Selenium	ND		1.00	mg/kg dry	1000	B403197	JGS	21-Mar-14	6020 A	
Silver	ND		0.100	mg/kg dry	1000	B403197	JGS	21-Mar-14	6020 A	
Zinc	8.27		1.00	mg/kg dry	1000	B403197	JGS	21-Mar-14	6020 A	

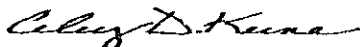
Total Mercury by CVAA

Mercury	ND		0.0994	mg/kg dry	490	B403235	JGS	27-Mar-14	EPA7471	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: DD LANDFARM (NM-01-0034) BI-A
Project Number: DD LF
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
31-Mar-14 14:56

CELL 2 - V
H400836-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Inorganic Compounds

Chloride	ND		16.0	mg/kg	4	4032505	AP	25-Mar-14	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	ND		0.050	mg/kg	50	4032401	MS	24-Mar-14	8021B	
Toluene*	ND		0.050	mg/kg	50	4032401	MS	24-Mar-14	8021B	
Ethylbenzene*	ND		0.050	mg/kg	50	4032401	MS	24-Mar-14	8021B	
Total Xylenes*	ND		0.150	mg/kg	50	4032401	MS	24-Mar-14	8021B	
Total BTEX	ND		0.300	mg/kg	50	4032401	MS	24-Mar-14	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			107 %	89.4-126		4032401	MS	24-Mar-14	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10	ND		10.0	mg/kg	1	4032103	ms	24-Mar-14	8015B	
DRO >C10-C28	ND		10.0	mg/kg	1	4032103	ms	24-Mar-14	8015B	
Surrogate: 1-Chlorooctane			81.8 %	65.2-140		4032103	ms	24-Mar-14	8015B	
Surrogate: 1-Chlorooctadecane			84.6 %	63.6-154		4032103	ms	24-Mar-14	8015B	

Green Analytical Laboratories
General Chemistry

% Dry Solids	97.9			%	1	B403199	LLG	21-Mar-14	EPA160.3	
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Total Metals by ICP

Iron	3080		5.00	mg/kg dry	100	B403198	JGS	21-Mar-14	EPA6010 B	
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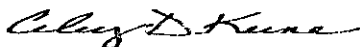
Total Metals by ICPMS

Arsenic	0.531		0.500	mg/kg dry	1000	B403197	JGS	21-Mar-14	6020 A	
Barium	34.0		0.500	mg/kg dry	1000	B403197	JGS	21-Mar-14	6020 A	
Cadmium	ND		0.100	mg/kg dry	1000	B403197	JGS	21-Mar-14	6020 A	
Chromium	1.84		1.00	mg/kg dry	1000	B403197	JGS	21-Mar-14	6020 A	
Copper	ND		0.100	mg/kg dry	1000	B403197	JGS	21-Mar-14	6020 A	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Eddie Seay Consulting
 601 W. Illinois
 Hobbs NM, 88242

 Project: DD LANDFARM (NM-01-0034) BI-A
 Project Number: DD LF
 Project Manager: Eddie Seay
 Fax To: (505) 392-6949

 Reported:
 31-Mar-14 14:56

CELL 2 - V
H400836-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Green Analytical Laboratories
Total Metals by JCPMS

Lead	2.72		0.500	mg/kg dry	1000	B403197	JGS	21-Mar-14	6020 A	
Manganese	38.9		0.500	mg/kg dry	1000	B403197	JGS	21-Mar-14	6020 A	
Selenium	ND		1.00	mg/kg dry	1000	B403197	JGS	21-Mar-14	6020 A	
Silver	ND		0.100	mg/kg dry	1000	B403197	JGS	21-Mar-14	6020 A	
Zinc	7.23		1.00	mg/kg dry	1000	B403197	JGS	21-Mar-14	6020 A	

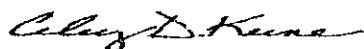
Total Mercury by CVAA

Mercury	ND		0.0970	mg/kg dry	475	B403235	JGS	27-Mar-14	EPA7471	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: DD LANDFARM (NM-01-0034) BI-A
Project Number: DD LF
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
31-Mar-14 14:56

CELL 3 - V
H400836-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Inorganic Compounds

Chloride	32.0		16.0	mg/kg	4	4032505	AP	25-Mar-14	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	ND		0.050	mg/kg	50	4032401	MS	24-Mar-14	8021B	
Toluene*	ND		0.050	mg/kg	50	4032401	MS	24-Mar-14	8021B	
Ethylbenzene*	ND		0.050	mg/kg	50	4032401	MS	24-Mar-14	8021B	
Total Xylenes*	ND		0.150	mg/kg	50	4032401	MS	24-Mar-14	8021B	
Total BTEX	ND		0.300	mg/kg	50	4032401	MS	24-Mar-14	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			107 %	89.4-126		4032401	MS	24-Mar-14	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10	ND		10.0	mg/kg	1	4032103	ms	24-Mar-14	8015B	
DRO >C10-C28	ND		10.0	mg/kg	1	4032103	ms	24-Mar-14	8015B	
Surrogate: 1-Chlorooctane			75.1 %	65.2-140		4032103	ms	24-Mar-14	8015B	
Surrogate: 1-Chlorooctadecane			82.3 %	63.6-154		4032103	ms	24-Mar-14	8015B	

Green Analytical Laboratories
General Chemistry

% Dry Solids	88.4			%	1	B403199	LLG	21-Mar-14	EPA160.3	
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Total Metals by ICP

Iron	5280		5.00	mg/kg dry	100	B403198	JGS	21-Mar-14	EPA6010 B	
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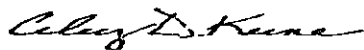
Total Metals by ICPMS

Arsenic	4.13		0.500	mg/kg dry	1000	B403197	JGS	21-Mar-14	6020 A	
Barium	224		0.500	mg/kg dry	1000	B403197	JGS	21-Mar-14	6020 A	
Cadmium	0.210		0.100	mg/kg dry	1000	B403197	JGS	21-Mar-14	6020 A	
Chromium	4.04		1.00	mg/kg dry	1000	B403197	JGS	21-Mar-14	6020 A	
Copper	0.351		0.100	mg/kg dry	1000	B403197	JGS	21-Mar-14	6020 A	

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Celest D. Keene, Lab Director/Quality Manager

Analytical Results For:Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242Project: DD LANDFARM (NM-01-0034) BI-A
Project Number: DD LF
Project Manager: Eddie Seay
Fax To: (505) 392-6949Reported:
31-Mar-14 14:56**CELL 3 - V**
H400836-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Green Analytical Laboratories**Total Metals by ICPMS**

Lead	2.47	0.500	mg/kg dry	1000	B403197	JGS	21-Mar-14	6020 A
Manganese	42.0	0.500	mg/kg dry	1000	B403197	JGS	21-Mar-14	6020 A
Selenium	ND	1.00	mg/kg dry	1000	B403197	JGS	21-Mar-14	6020 A
Silver	ND	0.100	mg/kg dry	1000	B403197	JGS	21-Mar-14	6020 A
Zinc	11.0	1.00	mg/kg dry	1000	B403197	JGS	21-Mar-14	6020 A

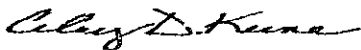
Total Mercury by CVAA

Mercury	ND	0.110	mg/kg dry	485	B403235	JGS	27-Mar-14	EPA7471
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Eddie Seay Consulting
 601 W. Illinois
 Hobbs NM, 88242

 Project: DD LANDFARM (NM-01-0034) BI-A
 Project Number: DD LF
 Project Manager: Eddie Seay
 Fax To: (505) 392-6949

 Reported:
 31-Mar-14 14:56

CELL 1 T
H400836-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Inorganic Compounds

Chloride	ND	16.0	mg/kg	4	4032505	AP	25-Mar-14	4500-Cl-B
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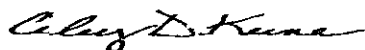
Petroleum Hydrocarbons by GC FID

GRO C6-C10	ND	10.0	mg/kg	1	4032103	ms	24-Mar-14	8015B
DRO >C10-C28	110	10.0	mg/kg	1	4032103	ms	24-Mar-14	8015B
Surrogate: 1-Chlorooctane		84.5 %	65.2-140		4032103	ms	24-Mar-14	8015B
Surrogate: 1-Chlorooctadecane		103 %	63.6-154		4032103	ms	24-Mar-14	8015B

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Eddie Seay Consulting
 601 W. Illinois
 Hobbs NM, 88242

 Project: DD LANDFARM (NM-01-0034) BI-A
 Project Number: DD LF
 Project Manager: Eddie Seay
 Fax To: (505) 392-6949

 Reported:
 31-Mar-14 14:56

CELL 2 T
H400836-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Inorganic Compounds

Chloride	ND		16.0	mg/kg	4	4032505	AP	25-Mar-14	4500-Cl-B	
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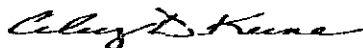
Petroleum Hydrocarbons by GC FID

GRO C6-C10	ND		10.0	mg/kg	1	4032103	ms	24-Mar-14	8015B	
DRO >C10-C28	135		10.0	mg/kg	1	4032103	ms	24-Mar-14	8015B	
Surrogate: 1-Chlorooctane			85.2 %			4032103	ms	24-Mar-14	8015B	
Surrogate: 1-Chlorooctadecane			115 %			4032103	ms	24-Mar-14	8015B	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Eddie Seay Consulting
 601 W. Illinois
 Hobbs NM, 88242

 Project: DD LANDFARM (NM-01-0034) BI-A
 Project Number: DD LF
 Project Manager: Eddie Seay
 Fax To: (505) 392-6949

 Reported:
 31-Mar-14 14:56

CELL 3 T
H400836-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Inorganic Compounds

Chloride	80.0	16.0	mg/kg	4	4032505	AP	25-Mar-14	4500-Cl-B
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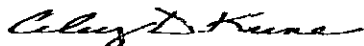
Petroleum Hydrocarbons by GC FID

GRO C6-C10	ND	10.0	mg/kg	1	4032103	ms	24-Mar-14	8015B
DRO >C10-C28	27.5	10.0	mg/kg	1	4032103	ms	24-Mar-14	8015B
Surrogate: 1-Chlorooctane	78.6 %	65.2-140	4032103	ms	24-Mar-14	8015B		
Surrogate: 1-Chlorooctadecane	87.3 %	63.6-154	4032103	ms	24-Mar-14	8015B		

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Analytical Results For:

 Eddie Seay Consulting
 601 W. Illinois
 Hobbs NM, 88242

 Project: DD LANDFARM (NM-01-0034) BI-A
 Project Number: DD LF
 Project Manager: Eddie Seay
 Fax To: (505) 392-6949

 Reported:
 31-Mar-14 14:56

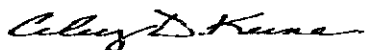
Inorganic Compounds - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
Batch 4032505 - 1:4 DI Water								
Blank (4032505-BLK1)								
Chloride	ND	16.0	mg/kg					Prepared & Analyzed: 25-Mar-14
LCS (4032505-BSD1)								
Chloride	432	16.0	mg/kg	400	108	80-120		Prepared & Analyzed: 25-Mar-14
LCS Dup (4032505-BSD1)								
Chloride	416	16.0	mg/kg	400	104	80-120	3.77	20

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Eddie Seay Consulting
 601 W. Illinois
 Hobbs NM, 88242

 Project: DD LANDFARM (NM-01-0034) BI-A
 Project Number: DD LF
 Project Manager: Eddie Seay
 Fax To: (505) 392-6949

 Reported:
 31-Mar-14 14:56

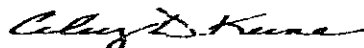
Volatile Organic Compounds by EPA Method 8021 - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4032401 - Volatiles										
Blank (4032401-BLK1)				Prepared & Analyzed: 24-Mar-14						
Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0532		mg/kg	0.0500		106	89.4-126			
LCS (4032401-BS1)				Prepared & Analyzed: 24-Mar-14						
Benzene	2.50	0.050	mg/kg	2.00		125	76.4-135			
Toluene	2.38	0.050	mg/kg	2.00		119	80.2-135			
Ethylbenzene	2.34	0.050	mg/kg	2.00		117	78.5-133			
Total Xylenes	6.83	0.150	mg/kg	6.00		114	80.1-135			
Surrogate: 4-Bromofluorobenzene (PID)	0.0538		mg/kg	0.0500		108	89.4-126			
LCS Dup (4032401-BSD1)				Prepared & Analyzed: 24-Mar-14						
Benzene	2.60	0.050	mg/kg	2.00		130	76.4-135	4.14	16.4	
Toluene	2.47	0.050	mg/kg	2.00		123	80.2-135	3.54	16.6	
Ethylbenzene	2.42	0.050	mg/kg	2.00		121	78.5-133	3.58	16.1	
Total Xylenes	7.03	0.150	mg/kg	6.00		117	80.1-135	2.85	15.8	
Surrogate: 4-Bromofluorobenzene (PID)	0.0530		mg/kg	0.0500		106	89.4-126			

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: DD LANDFARM (NM-01-0034) BI-A
Project Number: DD LF
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
31-Mar-14 14:56

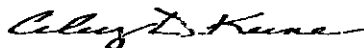
Petroleum Hydrocarbons by GC FID - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4032103 - General Prep - Organics										
Blank (4032103-BLK1)										
Prepared: 21-Mar-14 Analyzed: 24-Mar-14										
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C35	ND	10.0	mg/kg							
Total TPH C6-C28	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	44.1		mg/kg	50.0		88.2	65.2-140			
Surrogate: 1-Chlorooctadecane	50.6		mg/kg	50.0		101	63.6-154			
LCS (4032103-BS1)										
Prepared: 21-Mar-14 Analyzed: 24-Mar-14										
GRO C6-C10	216	10.0	mg/kg	200		108	66.4-124			
DRO >C10-C28	212	10.0	mg/kg	200		106	61.6-132			
Total TPH C6-C28	428	10.0	mg/kg	400		107	69.7-122			
Surrogate: 1-Chlorooctane	51.4		mg/kg	50.0		103	65.2-140			
Surrogate: 1-Chlorooctadecane	54.8		mg/kg	50.0		110	63.6-154			
LCS Dup (4032103-BSD1)										
Prepared: 21-Mar-14 Analyzed: 24-Mar-14										
GRO C6-C10	221	10.0	mg/kg	200		110	66.4-124	2.18	23.4	
DRO >C10-C28	207	10.0	mg/kg	200		104	61.6-132	2.35	23.1	
Total TPH C6-C28	428	10.0	mg/kg	400		107	69.7-122	0.0358	20.6	
Surrogate: 1-Chlorooctane	51.3		mg/kg	50.0		103	65.2-140			
Surrogate: 1-Chlorooctadecane	53.3		mg/kg	50.0		107	63.6-154			

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Eddie Seay Consulting
 601 W. Illinois
 Hobbs NM, 88242

 Project: DD LANDFARM (NM-01-0034) BI-A
 Project Number: DD LF
 Project Manager: Eddie Seay
 Fax To: (505) 392-6949

 Reported:
 31-Mar-14 14:56

Total Metals by ICP - Quality Control
Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch B403198 - EPA 3050
Blank (B403198-BLK1)

Prepared & Analyzed: 21-Mar-14

Iron ND 0.050 mg/kg dry

LCS (B403198-BSD1)

Prepared & Analyzed: 21-Mar-14

Iron 3.86 0.050 mg/kg dry 4.00 96.5 85-115

LCS Dup (B403198-BSD1)

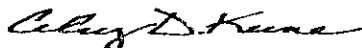
Prepared & Analyzed: 21-Mar-14

Iron 3.81 0.050 mg/kg dry 4.00 95.2 85-115 1.35 20

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: DD LANDFARM (NM-01-0034) BI-A
Project Number: DD LF
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
31-Mar-14 14:56

Total Metals by ICPMS - Quality Control
Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B403197 - EPA 3050M
Blank (B403197-BLK1)

Prepared & Analyzed: 21-Mar-14

Arsenic	ND	0.0005	mg/kg dry							
Lead	ND	0.0005	mg/kg dry							
Chromium	ND	0.0010	mg/kg dry							
Manganese	ND	0.0005	mg/kg dry							
Cadmium	ND	0.0001	mg/kg dry							
Selenium	ND	0.0010	mg/kg dry							
Copper	0.0002	0.0001	mg/kg dry							BI
Silver	ND	0.0001	mg/kg dry							
Barium	ND	0.0005	mg/kg dry							
Zinc	0.0054	0.0010	mg/kg dry							BI

LCS (B403197-BS1)

Prepared & Analyzed: 21-Mar-14

Silver	0.0508	0.0001	mg/kg dry	0.0500		102	85-115			
Manganese	0.0494	0.0005	mg/kg dry	0.0500		98.8	85-115			
Zinc	0.0581	0.0010	mg/kg dry	0.0500		116	80-120			
Lead	0.0499	0.0005	mg/kg dry	0.0500		99.7	85-115			
Arsenic	0.0511	0.0005	mg/kg dry	0.0500		102	85-115			
Cadmium	0.0509	0.0001	mg/kg dry	0.0500		102	85-115			
Selenium	0.260	0.0010	mg/kg dry	0.250		104	85-115			
Barium	0.0490	0.0005	mg/kg dry	0.0500		98.1	85-115			
Chromium	0.0500	0.0010	mg/kg dry	0.0500		100	85-115			
Copper	0.0506	0.0001	mg/kg dry	0.0500		101	85-115			

LCS Dup (B403197-BSD1)

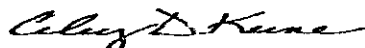
Prepared & Analyzed: 21-Mar-14

Arsenic	0.0484	0.0005	mg/kg dry	0.0500		96.9	85-115	5.38	20	
Cadmium	0.0519	0.0001	mg/kg dry	0.0500		104	85-115	2.00	20	
Copper	0.0511	0.0001	mg/kg dry	0.0500		102	85-115	1.10	20	
Selenium	0.248	0.0010	mg/kg dry	0.250		99.0	85-115	4.81	20	
Chromium	0.0499	0.0010	mg/kg dry	0.0500		99.9	85-115	0.0895	20	
Manganese	0.0482	0.0005	mg/kg dry	0.0500		96.4	85-115	2.51	20	
Barium	0.0488	0.0005	mg/kg dry	0.0500		97.6	85-115	0.468	20	
Lead	0.0505	0.0005	mg/kg dry	0.0500		101	85-115	1.33	20	
Zinc	0.0567	0.0010	mg/kg dry	0.0500		113	80-120	2.45	20	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Eddie Seay Consulting
 601 W. Illinois
 Hobbs NM, 88242

 Project: DD LANDFARM (NM-01-0034) BI-A
 Project Number: DD LF
 Project Manager: Eddie Seay
 Fax To: (505) 392-6949

 Reported:
 31-Mar-14 14:56

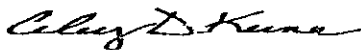
Total Metals by ICPMS - Quality Control
Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B403197 - EPA 3050M										
LCS Dup (B403197-BSD1)				Prepared & Analyzed: 21-Mar-14						
Silver	0.0515	0.0001	mg/kg dry	0.0500		103	85-115	1.37	20	

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Analytical Results For:

 Eddie Seay Consulting
 601 W. Illinois
 Hobbs NM, 88242

 Project: DD LANDFARM (NM-01-0034) BI-A
 Project Number: DD LF
 Project Manager: Eddie Seay
 Fax To: (505) 392-6949

 Reported:
 31-Mar-14 14:56

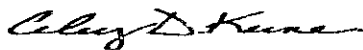
Total Mercury by CVAA - Quality Control
Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch B403235 - EPA 7471									
Blank (B403235-BLK1)									
					Prepared: 26-Mar-14 Analyzed: 27-Mar-14				
Mercury	ND	0.0002	mg/kg wet						
LCS (B403235-BS1)									
					Prepared: 26-Mar-14 Analyzed: 27-Mar-14				
Mercury	0.0021	0.0002	mg/kg wet	0.00200	105	85-115			
LCS Dup (B403235-BSD1)									
					Prepared: 26-Mar-14 Analyzed: 27-Mar-14				
Mercury	0.0021	0.0002	mg/kg wet	0.00200	105	85-115	0.00	20	

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Celey D. Keene, Lab Director/Quality Manager

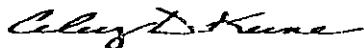
Notes and Definitions

B1	Target analyte detected in method blank at or above method reporting limit. Sample concentration found to be 10 times above the concentration found in the method blank or less than the reporting limit.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager



Page 20 of 20

[illegible]

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-3328

September 30, 2013

RECEIVED OCD

2013 OCT -2 P 1:53

NMOCD Environmental
ATTN: Brad Jones
1220 South St. Francis Drive
Santa Fe, NM 87505

RE: DD Landfarm (Permit #01-0034)
Semi-Annual Sampling

Mr. Jones:

Find within the semi-annual sampling for both the treatment zone and vadose zone as required.

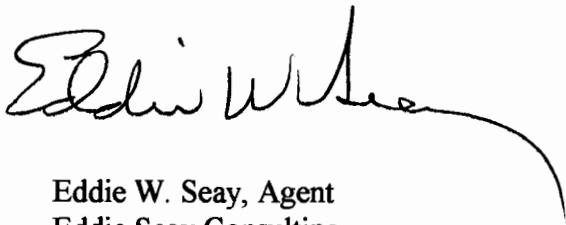
The treatment zone samples were taken at two to four inches of surface making one composite from four discrete samples for each cell, testing for TPH and Chloride.

The vadose zone samples were taken at approximately three feet below the natural surface level. There were four samples from each cell, composited and tested for BTEX, TPH and Chloride.

We will continue to operate and maintain the facility as our permit and rule 36 requires. Cell one was tested for the "five year monitoring", taking four randomly selected samples and testing as 20-6-2-3103 A & B requires.

If you have any questions or need anything further, please call.

Sincerely,



Eddie W. Seay, Agent
Eddie Seay Consulting
601 W. Illinois
Hobbs, NM 88242
575-392-2236
seay04@leaco.net

cc: DD Landfarm

September 25, 2013

Eddie Seay
Eddie Seay Consulting
601 W. Illinois
Hobbs, NM 88242

RE: D D LANDFARM

Enclosed are the results of analyses for samples received by the laboratory on 09/23/13 14:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

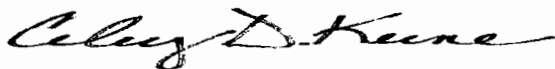
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene
Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
Eddie Seay
601 W. Illinois
Hobbs NM, 88242
Fax To: (505) 392-6949

Received: 09/23/2013
Reported: 09/25/2013
Project Name: D D LANDFARM
Project Number: DD LF
Project Location: E. EUNICE SECT31-T21-R38

Sampling Date: 09/23/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: CELL 1-T (H302309-01)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/24/2013	ND	416	104	400	3.77	
TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/23/2013	ND	199	99.4	200	0.186	
DRO >C10-C28	49.3	10.0	09/23/2013	ND	194	97.0	200	0.388	
Surrogate: 1-Chlorooctane	107 %	65.2-140							
Surrogate: 1-Chlorooctadecane	116 %	63.6-154							

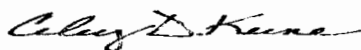
Sample ID: CELL 2-T (H302309-02)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/24/2013	ND	416	104	400	3.77	
TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/23/2013	ND	199	99.4	200	0.186	
DRO >C10-C28	102	10.0	09/23/2013	ND	194	97.0	200	0.388	
Surrogate: 1-Chlorooctane	116 %	65.2-140							
Surrogate: 1-Chlorooctadecane	133 %	63.6-154							

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
Eddie Seay
601 W. Illinois
Hobbs NM, 88242
Fax To: (505) 392-6949

Received: 09/23/2013
Reported: 09/25/2013
Project Name: D D LANDFARM
Project Number: DD LF
Project Location: E. EUNICE SECT31-T21-R38

Sampling Date: 09/23/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

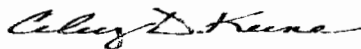
Sample ID: CELL 3-T (H302309-03)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	09/25/2013	ND	416	104	400	3.92		
TPH 8015M			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	09/23/2013	ND	199	99.4	200	0.186		
DRO >C10-C28	18.2	10.0	09/23/2013	ND	194	97.0	200	0.388		
Surrogate: 1-Chlorooctane	119 %	65.2-140								
Surrogate: 1-Chlorooctadecane	130 %	63.6-154								

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Analytical Results For:

Eddie Seay Consulting
Eddie Seay
601 W. Illinois
Hobbs NM, 88242
Fax To: (505) 392-6949

Received: 09/23/2013
Reported: 09/25/2013
Project Name: D D LANDFARM
Project Number: DD LF
Project Location: E. EUNICE SECT31-T21-R38

Sampling Date: 09/23/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: CELL 1-V (H302309-04)

BTEX 8021B			mg/kg		Analyzed By: MS			A-01b	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/23/2013	ND	1.90	95.0	2.00	8.98	
Toluene*	<0.050	0.050	09/23/2013	ND	2.01	100	2.00	8.85	
Ethylbenzene*	<0.050	0.050	09/23/2013	ND	2.11	105	2.00	8.63	
Total Xylenes*	<0.150	0.150	09/23/2013	ND	6.35	106	6.00	8.10	
Total BTEX	<0.300	0.300	09/23/2013	ND					

Surrogate: 4-Bromofluorobenzene (PID) 129 % 89.4-126

Chloride, SM4500C1-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/25/2013	ND	416	104	400	3.92	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/23/2013	ND	199	99.4	200	0.186	
DRO >C10-C28	<10.0	10.0	09/23/2013	ND	194	97.0	200	0.388	

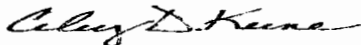
Surrogate: 1-Chlorooctane 109 % 65.2-140

Surrogate: 1-Chlorooctadecane 115 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
Eddie Seay
601 W. Illinois
Hobbs NM, 88242
Fax To: (505) 392-6949

Received: 09/23/2013
Reported: 09/25/2013
Project Name: D D LANDFARM
Project Number: DD LF
Project Location: E. EUNICE SECT31-T21-R38

Sampling Date: 09/23/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: CELL 2-V (H302309-05)

BTEX 8021B			mg/kg		Analyzed By: MS			A-01b	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/23/2013	ND	1.90	95.0	2.00	8.98	
Toluene*	<0.050	0.050	09/23/2013	ND	2.01	100	2.00	8.85	
Ethylbenzene*	<0.050	0.050	09/23/2013	ND	2.11	105	2.00	8.63	
Total Xylenes*	<0.150	0.150	09/23/2013	ND	6.35	106	6.00	8.10	
Total BTEX	<0.300	0.300	09/23/2013	ND					

Surrogate: 4-Bromofluorobenzene (PID) 127% 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/25/2013	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/23/2013	ND	199	99.4	200	0.186	
DRO >C10-C28	<10.0	10.0	09/23/2013	ND	194	97.0	200	0.388	

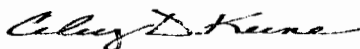
Surrogate: 1-Chlorooctane 117% 65.2-140

Surrogate: 1-Chlorooctadecane 125% 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
Eddie Seay
601 W. Illinois
Hobbs NM, 88242
Fax To: (505) 392-6949

Received: 09/23/2013
Reported: 09/25/2013
Project Name: D D LANDFARM
Project Number: DD LF
Project Location: E. EUNICE SECT31-T21-R38

Sampling Date: 09/23/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: CELL 3-V (H302309-06)

BTEx 8021B			mg/kg		Analyzed By: MS			A-01a		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/23/2013	ND	1.90	95.0	2.00	8.98		
Toluene*	<0.050	0.050	09/23/2013	ND	2.01	100	2.00	8.85		
Ethylbenzene*	<0.050	0.050	09/23/2013	ND	2.11	105	2.00	8.63		
Total Xylenes*	<0.150	0.150	09/23/2013	ND	6.35	106	6.00	8.10		
Total BTEx	<0.300	0.300	09/23/2013	ND						

Surrogate: 4-Bromofluorobenzene (PID) 127 % 89.4-126

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/25/2013	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	09/23/2013	ND	199	99.4	200	0.186		
DRO >C10-C28	<10.0	10.0	09/23/2013	ND	194	97.0	200	0.388		

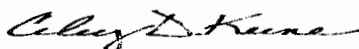
Surrogate: 1-Chlorooctane 125 % 65.2-140

Surrogate: 1-Chlorooctadecane 133 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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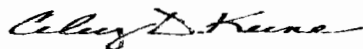
Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

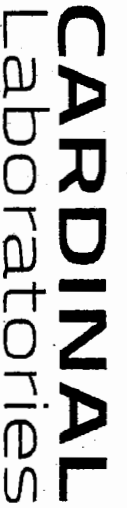
A-01b	Surrogates failed QC limits, High. No target compounds detected above PQL.
A-01a	Surrogate failed QC limits High. No target compounds detected above PQL.
A-01	BFB surrogate failed high. No target compounds detected in associated samples.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories***=Accredited Analyte**

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

**101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476**

Company Name: Edlin Scott Consulting		P.O. #:							
Project Manager: Eddie Scott		Company:							
Address: Local W Illinois		Attn:							
City: Hobbs	State: NM	Zip: 88402							
Phone #: 2-2234	Fax #: 2-1649	Address:							
Project #: DD LE	Project Owner: J. Cogger	City:							
Project Name: DD Landform - Sam. Pithead		State:							
Project Location: E. Entrance S.B. 31-TA 2.35		Zip:							
Sample Name: Edlin Scott	CUM. 01-0034	Phone #:							
FOR LAB USE ONLY		Fax #:							
Lab I.D.	Sample I.D.	# CONTAINERS	MATRIX					PRESERV.	SAMPLING
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE		
H302309	(GRAB OR COMB)								
1 C00 1-T		1							
2 C00 2-T		2							
3 C00 3-T		2							
4 C00 1-V		2							
5 C00 2-V		2							
6 C00 3-V		2							

DATE NOTE: Liability and Damages. Contractor liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims involving those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruption, loss of time, 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 theories or otherwise.

Relinquished By: [Signature] **Date:** 9/23 **Received By:** [Signature]

Relinquished By: [Signature] **Date:** 9/15 **Received By:** [Signature]

Delivered By: (Circle One) **Sample Condition:** Cool ☒ Intact ☐ Yes ☐ No ☐ No ☐ No ☐ No

Checker: [Signature] **Checked By:** [Signature]

Remarks:

BTX
TPH
Chloride

April 15, 2013

NMOCD Environmental
ATTN: Brad Jones
1220 South St. Francis Drive
Santa Fe, NM 87505

RE: DD Landfarm (Permit #01-0034)
Semi-Annual Sampling

Mr. Jones:

Find within the semi-annual sampling for both the treatment zone and vadose zone as required.

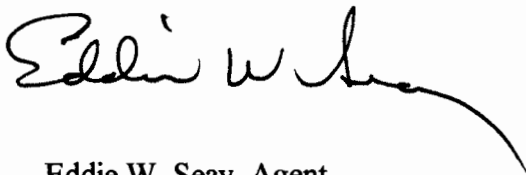
The treatment zone samples were taken at two to four inches of surface making one composite from four discrete samples for each cell, testing for TPH and Chloride.

The vadose zone samples were taken at approximately three feet below the natural surface level. There were four samples from each cell, composited and tested for BTEX, TPH and Chloride.

We will continue to operate and maintain the facility as our permit and rule 36 requires. Cell one was tested for the "five year monitoring", taking four randomly selected samples and testing as 20-6-2-3103 A & B requires.

If you have any questions or need anything further, please call.

Sincerely,



Eddie W. Seay, Agent
Eddie Seay Consulting
601 W. Illinois
Hobbs, NM 88242
575-392-2236
seay04@leaco.net

cc: DD Landfarm

RECEIVED OGD
2013 APR 19 P 2:27

March 19, 2013

Eddie Seay
Eddie Seay Consulting
601 W. Illinois
Hobbs, NM 88242

RE: D D LANDFARM

Enclosed are the results of analyses for samples received by the laboratory on 03/14/13 9:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

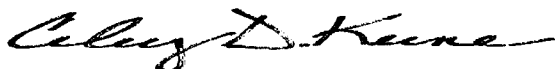
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene
Lab Director/Quality Manager

Analytical Results For:

 Eddie Seay Consulting
 Eddie Seay
 601 W. Illinois
 Hobbs NM, 88242
 Fax To: (505) 392-6949

 Received: 03/14/2013
 Reported: 03/19/2013
 Project Name: D D LANDFARM
 Project Number: D D LANDFARM - SEMI ANNUAL
 Project Location: D D LAND FARM

 Sampling Date: 03/13/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: CELL 1 -T (H300635-01)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/15/2013	ND	448	112	400	0.00	
TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	03/18/2013	ND	192	96.2	200	0.686	
DRO >C10-C28	<50.0	50.0	03/18/2013	ND	192	95.9	200	0.902	

Surrogate: 1-Chlorooctane 84.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 85.6 % 63.6-154

Sample ID: CELL 2 -T (H300635-02)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/15/2013	ND	448	112	400	0.00	
TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	03/18/2013	ND	192	96.2	200	0.686	
DRO >C10-C28	<50.0	50.0	03/18/2013	ND	192	95.9	200	0.902	

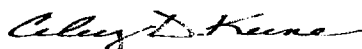
Surrogate: 1-Chlorooctane 95.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 99.8 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
Eddie Seay
601 W. Illinois
Hobbs NM, 88242
Fax To: (505) 392-6949

Received: 03/14/2013
Reported: 03/19/2013
Project Name: D D LANDFARM
Project Number: D D LANDFARM - SEMI ANNUAL
Project Location: D D LAND FARM

Sampling Date: 03/13/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

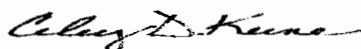
Sample ID: CELL 3 -T (H300635-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/15/2013	ND	448	112	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/15/2013	ND	192	96.2	200	0.686	
DRO >C10-C28	<10.0	10.0	03/15/2013	ND	192	95.9	200	0.902	
Surrogate: 1-Chlorooctane	79.4 %	65.2-140							
Surrogate: 1-Chlorooctadecane	97.8 %	63.6-154							

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Eddie Seay Consulting
 Eddie Seay
 601 W. Illinois
 Hobbs NM, 88242
 Fax To: (505) 392-6949

 Received: 03/14/2013
 Reported: 03/19/2013
 Project Name: D D LANDFARM
 Project Number: D D LANDFARM - SEMI ANNUAL
 Project Location: D D LAND FARM

 Sampling Date: 03/13/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: CELL 2 -V (H300635-04)

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/15/2013	ND	1.97	98.5	2.00	19.8	
Toluene*	<0.050	0.050	03/15/2013	ND	1.92	96.1	2.00	18.7	
Ethylbenzene*	<0.050	0.050	03/15/2013	ND	1.83	91.7	2.00	19.2	
Total Xylenes*	<0.150	0.150	03/15/2013	ND	5.55	92.5	6.00	19.0	
Total BTEX	<0.300	0.300	03/15/2013	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/15/2013	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/15/2013	ND	192	96.2	200	0.686	
DRO >C10-C28	<10.0	10.0	03/15/2013	ND	192	95.9	200	0.902	

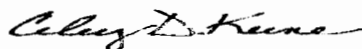
Surrogate: 1-Chlorooctane 83.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 104 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Eddie Seay Consulting
 Eddie Seay
 601 W. Illinois
 Hobbs NM, 88242
 Fax To: (505) 392-6949

Received:	03/14/2013	Sampling Date:	03/13/2013
Reported:	03/19/2013	Sampling Type:	Soil
Project Name:	D D LANDFARM	Sampling Condition:	Cool & Intact
Project Number:	D D LANDFARM - SEMI ANNUAL	Sample Received By:	Jodi Henson
Project Location:	D D LAND FARM		

Sample ID: CELL 3 -V (H300635-05)

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/15/2013	ND	1.97	98.5	2.00	19.8	
Toluene*	<0.050	0.050	03/15/2013	ND	1.92	96.1	2.00	18.7	
Ethylbenzene*	<0.050	0.050	03/15/2013	ND	1.83	91.7	2.00	19.2	
Total Xylenes*	<0.150	0.150	03/15/2013	ND	5.55	92.5	6.00	19.0	
Total BTEX	<0.300	0.300	03/15/2013	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/15/2013	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/15/2013	ND	192	96.2	200	0.686	
DRO >C10-C28	<10.0	10.0	03/15/2013	ND	192	95.9	200	0.902	

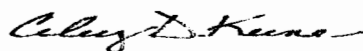
Surrogate: 1-Chlorooctane 67.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 84.7 % 63.6-154

Cardinal Laboratories

* = Accredited Analyte

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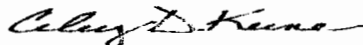
Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

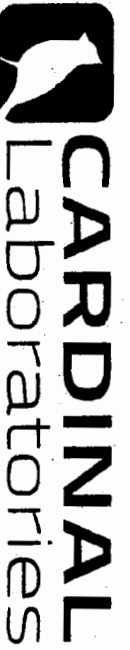
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories***=Accredited Analyte**

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Merland, Hobbs, NM 88240
(576) 393-2326 FAX (576) 393-2476

ANALYSIS REQUEST

Company Name: Edley Sam Consulting
Project Manager: Edley Sam

P.O. #:

Address: 601 W Illinois

Company:

City: Albany

State: NM Zip: 87142

Attn:

Phone #: 2. 22.36

Fax #: 2. 6949

Address:

Project #: DD LF

Project Owner: J. Cagay

City:

Project Name: DD Landfill - Sam. Hwy 4

State:

Project Location: Cunich Sub 31 T. 21 R. 28

Phone #:

Sampler Name: Edley Sam

NM. 01 - 0034

Fax #:

FOR LAB USE ONLY

MATRIX

PRESERV

SAMPLING

Lab I.D.

Sample I.D.

1300035

(GRAB OR COMPOSITE)

CONTAINERS

DATE

TIME

BTEx

TPH (8015)

Chloride

1 Cell 1 - T

1

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER:

ACID/BASE:

ICE / COOL

OTHER:

DATE

TIME

BTEx

TPH (8015)

Chloride

2 Cell 2 - T

1

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER:

ACID/BASE:

ICE / COOL

OTHER:

DATE

TIME

BTEx

TPH (8015)

Chloride

3 Cell 3 - T

1

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER:

ACID/BASE:

ICE / COOL

OTHER:

DATE

TIME

BTEx

TPH (8015)

Chloride

4 Cell 2 - V

1

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER:

ACID/BASE:

ICE / COOL

OTHER:

DATE

TIME

BTEx

TPH (8015)

Chloride

5 Cell 3 - V

1

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER:

ACID/BASE:

ICE / COOL

OTHER:

DATE

TIME

BTEx

TPH (8015)

Chloride

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Relinquished By:

Date: 3/14

Received By:

Relinquished By:

Date: 3/14

Received By:

Time: 9:20

Time: 9:20

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Sample Condition

CHECKED BY:

30

Cool / Index

Yes / No

Cardinal cannot accept verbal charges. Please fax written charges to (576) 393-2326



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

April 12, 2013

Eddie Seay
Eddie Seay Consulting
601 W. Illinois
Hobbs, NM 88242

RE: DD LANDFARM (01-0034) 5 YR MONITORING

Enclosed are the results of analyses for samples received by the laboratory on 03/14/13 9:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" being more prominent.

Celey D. Keene
Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: DD LANDFARM (01-0034) 5 YR MO
Project Number: DD LANDFARM
Project Manager: Eddie Seay
Fax To: (505) 392-6949

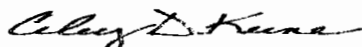
Reported:
12-Apr-13 16:03

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CELL 1 - 1	H300636-01	Soil	13-Mar-13 13:45	14-Mar-13 09:20
CELL 1 - 2	H300636-02	Soil	13-Mar-13 14:35	14-Mar-13 09:20
CELL 1 - 3	H300636-03	Soil	13-Mar-13 15:15	14-Mar-13 09:20
CELL 1 - 4	H300636-04	Soil	13-Mar-13 16:10	14-Mar-13 09:20

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: DD LANDFARM (01-0034) 5 YR MO
Project Number: DD LANDFARM
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
12-Apr-13 16:03

CELL 1 - 1
H300636-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories
Inorganic Compounds

Chloride	ND	16.0	mg/kg	4	3031503	DW	18-Mar-13	4500-Cl-B	
pH*	7.91	0.100	pH Units	1	3031501	DW	15-Mar-13	9045	
Phenols	ND	0.5	mg/kg dry wt.	1	3041212	CK	04-Apr-13	EPA9065	GAL
Sulfate	ND	40.0	mg/kg	4	3031803	AP	20-Mar-13	375.4	

Organic Compounds

GRO C6-C10	ND	10.0	mg/kg	1	3031801	MS	18-Mar-13	8015M	
DRO >C10-C28	ND	10.0	mg/kg	1	3031801	MS	18-Mar-13	8015M	
Surrogate: 1-Chlorooctane		71.3 %	65.2-140		3031801	MS	18-Mar-13	8015M	
Surrogate: 1-Chlorooctadecane		93.0 %	63.6-154		3031801	MS	18-Mar-13	8015M	

Organic Compounds
SUB-SS

PCB 1016	ND	10.0	ug/kg	1	3041211	CK	21-Mar-13	8082	
PCB 1221	ND	10.0	ug/kg	1	3041211	CK	21-Mar-13	8082	
PCB 1232	ND	10.0	ug/kg	1	3041211	CK	21-Mar-13	8082	
PCB 1242	ND	10.0	ug/kg	1	3041211	CK	21-Mar-13	8082	
PCB 1248	ND	10.0	ug/kg	1	3041211	CK	21-Mar-13	8082	
PCB 1254	ND	10.0	ug/kg	1	3041211	CK	21-Mar-13	8082	
PCB 1260	ND	10.0	ug/kg	1	3041211	CK	21-Mar-13	8082	
Surrogate: Tetrachloro-meta-xylene		54.9 %	35-140		3041211	CK	21-Mar-13	8082	

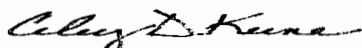
Radionuclides
SUB-RS

Radium-226	ND	0.70	pCi/gram	1	3041213	CK	28-Mar-13	903.1/904	
Radium-228	ND	0.80	pCi/gram	1	3041213	CK	28-Mar-13	903.1/904	
Total Radium	ND	0.80	pCi/gram	1	3041213	CK	28-Mar-13	903.1/904	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: DD LANDFARM (01-0034) 5 YR MO
Project Number: DD LANDFARM
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
12-Apr-13 16:03

CELL 1 - 1
H300636-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories
Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
1,1-Dichloroethene*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
Methylene chloride*	ND	0.100	mg/kg	50	3032207	ms	22-Mar-13	8260	
1,1-Dichloroethane*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
Chloroform*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
Carbon tetrachloride*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
1,1,1-Trichloroethane*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
Benzene*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
1,2-Dichloroethane*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
Trichloroethene*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
Toluene*	0.0962	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
Tetrachloroethene*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
1,1,2-Trichloroethane*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
1,2-Dibromoethane*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
Ethylbenzene*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
m-p Xylenes*	ND	0.100	mg/kg	50	3032207	ms	22-Mar-13	8260	
o-Xylene*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
Total Xylenes*	ND	0.150	mg/kg	50	3032207	ms	22-Mar-13	8260	
1,1,2,2-Tetrachloroethane*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
Naphthalene*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
Surrogate: Dibromofluoromethane		95.8 %	70-130		3032207	ms	22-Mar-13	8260	
Surrogate: Toluene-d8		95.3 %	70-130		3032207	ms	22-Mar-13	8260	
Surrogate: 4-Bromofluorobenzene		98.8 %	70-130		3032207	ms	22-Mar-13	8260	

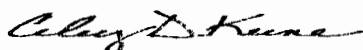
Semivolatile Organic Compounds by GCMS

Naphthalene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
2-Methylnaphthalene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
1-Methylnaphthalene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Acenaphthylene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: DD LANDFARM (01-0034) 5 YR MO
Project Number: DD LANDFARM
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
12-Apr-13 16:03

CELL 1 - 1
H300636-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Semivolatile Organic Compounds by GCMS

Acenaphthene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Fluorene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Phenanthrene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Anthracene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Carbazole	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Fluoranthene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Pyrene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Benzo[a]anthracene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Chrysene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Benzo[b]fluoranthene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Benzo[k]fluoranthene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Benzo[a]pyrene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Indeno[1,2,3-cd]pyrene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Dibenz[a,h]anthracene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Benzo[g,h,i]perylene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Surrogate: Nitrobenzene-d5		106 %	16.1-91.8		3032103	ms	22-Mar-13	8270C	
Surrogate: 2-Fluorobiphenyl		106 %	27.2-92.9		3032103	ms	22-Mar-13	8270C	
Surrogate: Terphenyl-d14		108 %	21.3-96.1		3032103	ms	22-Mar-13	8270C	

Green Analytical Laboratories
General Chemistry

Cyanide, Total	ND	1.00	mg/kg dry	100	B303184	KLM	21-Mar-13	EPA9012 B	
% Dry Solids	97.6		%	1	B303135	JGS	20-Mar-13	EPA160.3	

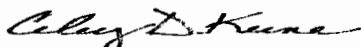
Soluble (DI Water Extraction)

Fluoride	ND	0.800	mg/kg dry	4	B304012	ABP	01-Apr-13	4500-F- C	
Nitrate/Nitrite as N	1.61	0.320	mg/kg dry	8	B303178	KLM	22-Mar-13	EPA353.2	
Nitrite as N	1.01	0.160	mg/kg dry	8	B303183	KLM	21-Mar-13	EPA353.2	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Eddie Seay Consulting
 601 W. Illinois
 Hobbs NM, 88242

 Project: DD LANDFARM (01-0034) 5 YR MO
 Project Number: DD LANDFARM
 Project Manager: Eddie Seay
 Fax To: (505) 392-6949

 Reported:
 12-Apr-13 16:03

CELL 1 - 1
H300636-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	--------	-------

Green Analytical Laboratories
Total Metals by ICP

Iron	1890	5.00	mg/kg dry	100	B303155	JGS	22-Mar-13	EPA6010 B
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Total Metals by ICPMS

Arsenic	0.593	0.0500	mg/kg dry	100	B303202	JGS	28-Mar-13	6020 A
Barium	10.3	0.0500	mg/kg dry	100	B303202	JGS	28-Mar-13	6020 A
Cadmium	0.104	0.0100	mg/kg dry	100	B303202	JGS	28-Mar-13	6020 A
Chromium	1.54	0.100	mg/kg dry	100	B303202	JGS	28-Mar-13	6020 A
Copper	0.689	0.0100	mg/kg dry	100	B303202	JGS	28-Mar-13	6020 A
Lead	1.65	0.0500	mg/kg dry	100	B303202	JGS	28-Mar-13	6020 A
Manganese	19.4	0.0500	mg/kg dry	100	B303202	JGS	28-Mar-13	6020 A
Selenium	ND	0.100	mg/kg dry	100	B303202	JGS	28-Mar-13	6020 A
Silver	0.0100	0.0100	mg/kg dry	100	B303202	JGS	28-Mar-13	6020 A
Uranium	0.0562	0.0100	mg/kg dry	100	B303202	JGS	28-Mar-13	6020 A
Zinc	3.74	0.100	mg/kg dry	100	B303202	JGS	28-Mar-13	6020 A

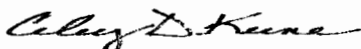
Total Mercury by CVAA

Mercury	ND	0.0962	mg/kg dry	481	B303135	JGS	20-Mar-13	EPA7471
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Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: DD LANDFARM (01-0034) 5 YR MO
Project Number: DD LANDFARM
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
12-Apr-13 16:03

CELL 1 - 2 H300636-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories

Inorganic Compounds

Chloride	ND	16.0	mg/kg	4	3031503	DW	18-Mar-13	4500-Cl-B	
pH*	8.10	0.100	pH Units	1	3031501	DW	15-Mar-13	9045	
Phenols	ND	0.5	mg/kg dry wt.	1	3041212	CK	04-Apr-13	EPA9065	GAL
Sulfate	ND	40.0	mg/kg	4	3031803	AP	20-Mar-13	375.4	

Organic Compounds

GRO C6-C10	ND	10.0	mg/kg	1	3031801	MS	18-Mar-13	8015M	
DRO >C10-C28	ND	10.0	mg/kg	1	3031801	MS	18-Mar-13	8015M	
Surrogate: 1-Chlorooctane		80.4 %	65.2-140		3031801	MS	18-Mar-13	8015M	
Surrogate: 1-Chlorooctadecane		99.5 %	63.6-154		3031801	MS	18-Mar-13	8015M	

Organic Compounds

SUB-SS

PCB 1016	ND	10.0	ug/kg	1	3041211	CK	21-Mar-13	8082	
PCB 1221	ND	10.0	ug/kg	1	3041211	CK	21-Mar-13	8082	
PCB 1232	ND	10.0	ug/kg	1	3041211	CK	21-Mar-13	8082	
PCB 1242	ND	10.0	ug/kg	1	3041211	CK	21-Mar-13	8082	
PCB 1248	ND	10.0	ug/kg	1	3041211	CK	21-Mar-13	8082	
PCB 1254	ND	10.0	ug/kg	1	3041211	CK	21-Mar-13	8082	
PCB 1260	ND	10.0	ug/kg	1	3041211	CK	21-Mar-13	8082	
Surrogate: Tetrachloro-meta-xylene		46.4 %	35-140		3041211	CK	21-Mar-13	8082	

Radionuclides

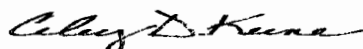
SUB-RS

Radium-226	ND	0.50	pCi/gram	1	3041213	CK	28-Mar-13	903.1/904	
Radium-228	ND	0.80	pCi/gram	1	3041213	CK	28-Mar-13	903.1/904	
Total Radium	ND	0.80	pCi/gram	1	3041213	CK	28-Mar-13	903.1/904	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: DD LANDFARM (01-0034) 5 YR MO
Project Number: DD LANDFARM
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
12-Apr-13 16:03

CELL 1 - 2
H300636-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
1,1-Dichloroethene*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
Methylene chloride*	0.649	0.100	mg/kg	50	3032207	ms	22-Mar-13	8260	B
1,1-Dichloroethane*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
Chloroform*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
Carbon tetrachloride*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
1,1,1-Trichloroethane*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
Benzene*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
1,2-Dichloroethane*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
Trichloroethene*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
Toluene*	0.104	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
Tetrachloroethene*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
1,1,2-Trichloroethane*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
1,2-Dibromoethane*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
Ethylbenzene*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
m-p Xylenes*	ND	0.100	mg/kg	50	3032207	ms	22-Mar-13	8260	
o-Xylene*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
Total Xylenes*	ND	0.150	mg/kg	50	3032207	ms	22-Mar-13	8260	
1,1,2,2-Tetrachloroethane*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
Naphthalene*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
Surrogate: Dibromofluoromethane		92.8 %		70-130	3032207	ms	22-Mar-13	8260	
Surrogate: Toluene-d8		93.7 %		70-130	3032207	ms	22-Mar-13	8260	
Surrogate: 4-Bromofluorobenzene		96.3 %		70-130	3032207	ms	22-Mar-13	8260	

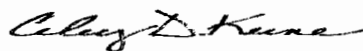
Semivolatile Organic Compounds by GCMS

Naphthalene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
2-Methylnaphthalene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
1-Methylnaphthalene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Acenaphthylene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: DD LANDFARM (01-0034) 5 YR MO
Project Number: DD LANDFARM
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
12-Apr-13 16:03

CELL 1 - 2
H300636-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Semivolatle Organic Compounds by GCMS

Acenaphthene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Fluorene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Phenanthrene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Anthracene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Carbazole	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Fluoranthene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Pyrene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Benzo[a]anthracene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Chrysene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Benzo[b]fluoranthene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Benzo[k]fluoranthene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Benzo[a]pyrene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Indeno[1,2,3-cd]pyrene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Dibenz[a,h]anthracene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Benzo[g,h,i]perylene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Surrogate: Nitrobenzene-d5		103 %	16.1-91.8		3032103	ms	22-Mar-13	8270C	
Surrogate: 2-Fluorobiphenyl		100 %	27.2-92.9		3032103	ms	22-Mar-13	8270C	
Surrogate: Terphenyl-d14		102 %	21.3-96.1		3032103	ms	22-Mar-13	8270C	

Green Analytical Laboratories
General Chemistry

Cyanide, Total	ND	1.00	mg/kg dry	100	B303184	KLM	21-Mar-13	EPA9012 B	
% Dry Solids	97.1		%	1	B303135	JGS	20-Mar-13	EPA160.3	

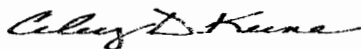
Soluble (DI Water Extraction)

Fluoride	1.04	0.800	mg/kg dry	4	B304012	ABP	01-Apr-13	4500-F- C	
Nitrate/Nitrite as N	2.93	0.320	mg/kg dry	8	B303178	KLM	22-Mar-13	EPA353.2	
Nitrite as N	0.746	0.160	mg/kg dry	8	B303183	KLM	21-Mar-13	EPA353.2	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Eddie Seay Consulting
 601 W. Illinois
 Hobbs NM, 88242

 Project: DD LANDFARM (01-0034) 5 YR MO
 Project Number: DD LANDFARM
 Project Manager: Eddie Seay
 Fax To: (505) 392-6949

 Reported:
 12-Apr-13 16:03

CELL 1 - 2
H300636-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Green Analytical Laboratories
Total Metals by ICP

Iron	2040	5.00	mg/kg dry	100	B303155	JGS	22-Mar-13	HPA6010 B	
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Total Metals by ICPMS

Arsenic	0.683	0.0500	mg/kg dry	100	B303202	JGS	28-Mar-13	6020 A	
Barium	13.1	0.0500	mg/kg dry	100	B303202	JGS	28-Mar-13	6020 A	
Cadmium	0.121	0.0100	mg/kg dry	100	B303202	JGS	28-Mar-13	6020 A	
Chromium	1.80	0.100	mg/kg dry	100	B303202	JGS	28-Mar-13	6020 A	
Copper	0.781	0.0100	mg/kg dry	100	B303202	JGS	28-Mar-13	6020 A	
Lead	2.03	0.0500	mg/kg dry	100	B303202	JGS	28-Mar-13	6020 A	
Manganese	23.7	0.0500	mg/kg dry	100	B303202	JGS	28-Mar-13	6020 A	
Selenium	ND	0.100	mg/kg dry	100	B303202	JGS	28-Mar-13	6020 A	
Silver	0.0101	0.0100	mg/kg dry	100	B303202	JGS	28-Mar-13	6020 A	
Uranium	0.0614	0.0100	mg/kg dry	100	B303202	JGS	28-Mar-13	6020 A	
Zinc	4.95	0.100	mg/kg dry	100	B303202	JGS	28-Mar-13	6020 A	

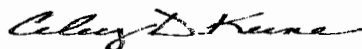
Total Mercury by CVAA

Mercury	ND	0.0962	mg/kg dry	481	B303135	JGS	20-Mar-13	EPA7471	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: DD LANDFARM (01-0034) 5 YR MO
Project Number: DD LANDFARM
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
12-Apr-13 16:03

CELL 1 - 3
H300636-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Inorganic Compounds

Chloride	ND	16.0	mg/kg	4	3031503	DW	18-Mar-13	4500-Cl-B	
pH*	8.11	0.100	pH Units	1	3031501	DW	15-Mar-13	9045	
Phenols	ND	0.5	mg/kg dry wt.	1	3041212	CK	04-Apr-13	EPA9065	GAL
Sulfate	ND	40.0	mg/kg	4	3031803	AP	20-Mar-13	375.4	

Organic Compounds

GRO C6-C10	ND	10.0	mg/kg	1	3031801	MS	18-Mar-13	8015M	
DRO >C10-C28	ND	10.0	mg/kg	1	3031801	MS	18-Mar-13	8015M	
Surrogate: 1-Chlorooctane		88.3 %	65.2-140		3031801	MS	18-Mar-13	8015M	
Surrogate: 1-Chlorooctadecane		103 %	63.6-154		3031801	MS	18-Mar-13	8015M	

Organic Compounds
SUB-SS

PCB 1016	ND	10.0	ug/kg	1	3041211	CK	21-Mar-13	8082	
PCB 1221	ND	10.0	ug/kg	1	3041211	CK	21-Mar-13	8082	
PCB 1232	ND	10.0	ug/kg	1	3041211	CK	21-Mar-13	8082	
PCB 1242	ND	10.0	ug/kg	1	3041211	CK	21-Mar-13	8082	
PCB 1248	ND	10.0	ug/kg	1	3041211	CK	21-Mar-13	8082	
PCB 1254	ND	10.0	ug/kg	1	3041211	CK	21-Mar-13	8082	
PCB 1260	ND	10.0	ug/kg	1	3041211	CK	21-Mar-13	8082	
Surrogate: Tetrachloro-meta-xylene		47.7 %	35-140		3041211	CK	21-Mar-13	8082	

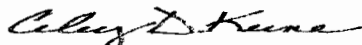
Radionuclides
SUB-RS

Radium-226	ND	0.50	pCi/gram	1	3041213	CK	28-Mar-13	903.1/904	
Radium-228	ND	0.90	pCi/gram	1	3041213	CK	28-Mar-13	903.1/904	
Total Radium	ND	0.90	pCi/gram	1	3041213	CK	28-Mar-13	903.1/904	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: DD LANDFARM (01-0034) 5 YR MO
Project Number: DD LANDFARM
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
12-Apr-13 16:03

CELL 1 - 3 H300636-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
1,1-Dichloroethene*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
Methylene chloride*	0.240	0.100	mg/kg	50	3032207	ms	22-Mar-13	8260	B
1,1-Dichloroethane*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
Chloroform*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
Carbon tetrachloride*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
1,1,1-Trichloroethane*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
Benzene*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
1,2-Dichloroethane*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
Trichloroethene*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
Toluene*	0.109	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
Tetrachloroethene*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
1,1,2-Trichloroethane*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
1,2-Dibromoethane*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
Ethylbenzene*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
m-p Xylenes*	ND	0.100	mg/kg	50	3032207	ms	22-Mar-13	8260	
o-Xylene*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
Total Xylenes*	ND	0.150	mg/kg	50	3032207	ms	22-Mar-13	8260	
1,1,2,2-Tetrachloroethane*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
Naphthalene*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
Surrogate: Dibromofluoromethane		95.1 %	70-130		3032207	ms	22-Mar-13	8260	
Surrogate: Toluene-d8		94.2 %	70-130		3032207	ms	22-Mar-13	8260	
Surrogate: 4-Bromofluorobenzene		97.4 %	70-130		3032207	ms	22-Mar-13	8260	

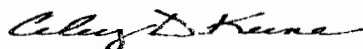
Semivolatile Organic Compounds by GCMS

Naphthalene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
2-Methylnaphthalene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
1-Methylnaphthalene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Acenaphthylene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: DD LANDFARM (01-0034) 5 YR MO
Project Number: DD LANDFARM
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
12-Apr-13 16:03

CELL 1 - 3
H300636-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Semivolatile Organic Compounds by GCMS

Acenaphthene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Fluorene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Phenanthrene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Anthracene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Carbazole	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Fluoranthene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Pyrene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Benzo[a]anthracene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Chrysene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Benzo[b]fluoranthene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Benzo[k]fluoranthene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Benzo[a]pyrene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Indeno[1,2,3-cd]pyrene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Dibenz[a,h]anthracene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Benzo[g,h,i]perylene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Surrogate: Nitrobenzene-d5		120 %	16.1-91.8		3032103	ms	22-Mar-13	8270C	
Surrogate: 2-Fluorobiphenyl		109 %	27.2-92.9		3032103	ms	22-Mar-13	8270C	
Surrogate: Terphenyl-d14		113 %	21.3-96.1		3032103	ms	22-Mar-13	8270C	

Green Analytical Laboratories

General Chemistry

Cyanide, Total	ND	1.00	mg/kg dry	100	B303184	KLM	21-Mar-13	EPA9012 B	
% Dry Solids	98.3		%	1	B303135	JGS	20-Mar-13	EPA160.3	

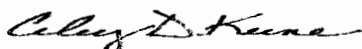
Soluble (DI Water Extraction)

Fluoride	1.75	0.800	mg/kg dry	4	B304012	ABP	01-Apr-13	4500-F- C	
Nitrate/Nitrite as N	6.03	0.320	mg/kg dry	8	B303178	KLM	22-Mar-13	EPA353.2	
Nitrite as N	0.284	0.160	mg/kg dry	8	B303183	KLM	21-Mar-13	EPA353.2	

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Eddie Seay Consulting
 601 W. Illinois
 Hobbs NM, 88242

 Project: DD LANDFARM (01-0034) 5 YR MO
 Project Number: DD LANDFARM
 Project Manager: Eddie Seay
 Fax To: (505) 392-6949

 Reported:
 12-Apr-13 16:03

CELL 1 - 3
H300636-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Green Analytical Laboratories
Total Metals by ICP

Iron	2110	5.00	mg/kg dry	100	B303155	JGS	22-Mar-13	EPA6010 B	
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Total Metals by ICPMS

Arsenic	0.827	0.0500	mg/kg dry	100	B303202	JGS	28-Mar-13	6020 A	
Barium	20.1	0.0500	mg/kg dry	100	B303202	JGS	28-Mar-13	6020 A	
Cadmium	0.134	0.0100	mg/kg dry	100	B303202	JGS	28-Mar-13	6020 A	
Chromium	1.86	0.100	mg/kg dry	100	B303202	JGS	28-Mar-13	6020 A	
Copper	0.819	0.0100	mg/kg dry	100	B303202	JGS	28-Mar-13	6020 A	
Lead	2.39	0.0500	mg/kg dry	100	B303202	JGS	28-Mar-13	6020 A	
Manganese	22.9	0.0500	mg/kg dry	100	B303202	JGS	28-Mar-13	6020 A	
Selenium	ND	0.100	mg/kg dry	100	B303202	JGS	28-Mar-13	6020 A	
Silver	0.0102	0.0100	mg/kg dry	100	B303202	JGS	28-Mar-13	6020 A	
Uranium	0.0911	0.0100	mg/kg dry	100	B303202	JGS	28-Mar-13	6020 A	
Zinc	6.38	0.100	mg/kg dry	100	B303202	JGS	28-Mar-13	6020 A	

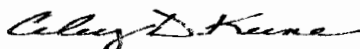
Total Mercury by CVAA

Mercury	ND	0.0970	mg/kg dry	485	B303135	JGS	20-Mar-13	EPA7471	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: DD LANDFARM (01-0034) 5 YR MO
Project Number: DD LANDFARM
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
12-Apr-13 16:03

CELL 1 - 4
H300636-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	ND	16.0	mg/kg	4	3031503	DW	18-Mar-13	4500-Cl-B	
pH*	7.83	0.100	pH Units	1	3031501	DW	15-Mar-13	9045	
Phenols	ND	0.5	mg/kg dry wt.	1	3041212	CK	04-Apr-13	EPA9065	GAL
Sulfate	ND	40.0	mg/kg	4	3031803	AP	20-Mar-13	375.4	

Organic Compounds

GRO C6-C10	ND	10.0	mg/kg	1	3031801	MS	18-Mar-13	8015M	
DRO >C10-C28	ND	10.0	mg/kg	1	3031801	MS	18-Mar-13	8015M	
Surrogate: 1-Chlorooctane		85.0 %	65.2-140		3031801	MS	18-Mar-13	8015M	
Surrogate: 1-Chlorooctadecane		104 %	63.6-154		3031801	MS	18-Mar-13	8015M	

Organic Compounds

SUB-SS

PCB 1016	ND	10.0	ug/kg	1	3041211	CK	21-Mar-13	8082	
PCB 1221	ND	10.0	ug/kg	1	3041211	CK	21-Mar-13	8082	
PCB 1232	ND	10.0	ug/kg	1	3041211	CK	21-Mar-13	8082	
PCB 1242	ND	10.0	ug/kg	1	3041211	CK	21-Mar-13	8082	
PCB 1248	ND	10.0	ug/kg	1	3041211	CK	21-Mar-13	8082	
PCB 1254	ND	10.0	ug/kg	1	3041211	CK	21-Mar-13	8082	
PCB 1260	ND	10.0	ug/kg	1	3041211	CK	21-Mar-13	8082	
Surrogate: Tetrachloro-meta-xylene		47.7 %	35-140		3041211	CK	21-Mar-13	8082	

Radionuclides

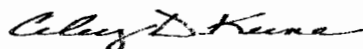
SUB-RS

Radium-226	ND	0.60	pCi/gram	1	3041213	CK	28-Mar-13	903.1/904	
Radium-228	ND	0.80	pCi/gram	1	3041213	CK	28-Mar-13	903.1/904	
Total Radium	ND	0.80	pCi/gram	1	3041213	CK	28-Mar-13	903.1/904	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: DD LANDFARM (01-0034) 5 YR MO
Project Number: DD LANDFARM
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
12-Apr-13 16:03

CELL 1 - 4
H300636-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
1,1-Dichloroethene*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
Methylene chloride*	ND	0.100	mg/kg	50	3032207	ms	22-Mar-13	8260	
1,1-Dichloroethane*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
Chloroform*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
Carbon tetrachloride*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
1,1,1-Trichloroethane*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
Benzene*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
1,2-Dichloroethane*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
Trichloroethene*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
Toluene*	0.107	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
Tetrachloroethene*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
1,1,2-Trichloroethane*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
1,2-Dibromoethane*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
Ethylbenzene*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
m-p Xylenes*	ND	0.100	mg/kg	50	3032207	ms	22-Mar-13	8260	
o-Xylene*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
Total Xylenes*	ND	0.150	mg/kg	50	3032207	ms	22-Mar-13	8260	
1,1,2,2-Tetrachloroethane*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
Naphthalene*	ND	0.0500	mg/kg	50	3032207	ms	22-Mar-13	8260	
Surrogate: Dibromofluoromethane		96.6 %	70-130		3032207	ms	22-Mar-13	8260	
Surrogate: Toluene-d8		94.8 %	70-130		3032207	ms	22-Mar-13	8260	
Surrogate: 4-Bromofluorobenzene		98.1 %	70-130		3032207	ms	22-Mar-13	8260	

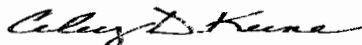
Semivolatile Organic Compounds by GCMS

Naphthalene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
2-Methylnaphthalene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
1-Methylnaphthalene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Acenaphthylene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: DD LANDFARM (01-0034) 5 YR MO
Project Number: DD LANDFARM
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
12-Apr-13 16:03

CELL 1 - 4
H300636-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Semivolatile Organic Compounds by GCMS

Acenaphthene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Fluorene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Phenanthrene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Anthracene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Carbazole	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Fluoranthene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Pyrene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Benzo[a]anthracene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Chrysene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Benzo[b]fluoranthene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Benzo[k]fluoranthene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Benzo[a]pyrene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Indeno[1,2,3-cd]pyrene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Dibenz[a,h]anthracene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Benzo[g,h,i]perylene	ND	0.040	mg/kg	40	3032103	ms	22-Mar-13	8270C	
Surrogate: Nitrobenzene-d5		120 %	16.1-91.8		3032103	ms	22-Mar-13	8270C	
Surrogate: 2-Fluorobiphenyl		115 %	27.2-92.9		3032103	ms	22-Mar-13	8270C	
Surrogate: Terphenyl-d14		114 %	21.3-96.1		3032103	ms	22-Mar-13	8270C	

Green Analytical Laboratories
General Chemistry

Cyanide, Total	4.41	1.00	mg/kg dry	100	B303184	KLM	21-Mar-13	EPA9012 B	
% Dry Solids	97.7		%	1	B303135	JGS	20-Mar-13	EPA160.3	

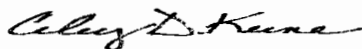
Soluble (DI Water Extraction)

Fluoride	0.813	0.800	mg/kg dry	4	B304012	ABP	01-Apr-13	4500-F- C	
Nitrate/Nitrite as N	3.16	0.320	mg/kg dry	8	B303178	KLM	22-Mar-13	EPA353.2	
Nitrite as N	1.42	0.160	mg/kg dry	8	B303183	KLM	21-Mar-13	EPA353.2	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Eddie Seay Consulting
 601 W. Illinois
 Hobbs NM, 88242

 Project: DD LANDFARM (01-0034) 5 YR MO
 Project Number: DD LANDFARM
 Project Manager: Eddie Seay
 Fax To: (505) 392-6949

 Reported:
 12-Apr-13 16:03

CELL 1 - 4
H300636-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Green Analytical Laboratories
Total Metals by ICP

Iron	2110	5.00	mg/kg dry	100	B303155	JGS	22-Mar-13	EPA6010 B	
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Total Metals by ICPMS

Arsenic	0.689	0.0500	mg/kg dry	100	B303202	JGS	28-Mar-13	6020 A	
Barium	11.3	0.0500	mg/kg dry	100	B303202	JGS	28-Mar-13	6020 A	
Cadmium	0.119	0.0100	mg/kg dry	100	B303202	JGS	28-Mar-13	6020 A	
Chromium	1.72	0.100	mg/kg dry	100	B303202	JGS	28-Mar-13	6020 A	
Copper	0.708	0.0100	mg/kg dry	100	B303202	JGS	28-Mar-13	6020 A	
Lead	1.74	0.0500	mg/kg dry	100	B303202	JGS	28-Mar-13	6020 A	
Manganese	18.0	0.0500	mg/kg dry	100	B303202	JGS	28-Mar-13	6020 A	
Selenium	ND	0.100	mg/kg dry	100	B303202	JGS	28-Mar-13	6020 A	
Silver	ND	0.0100	mg/kg dry	100	B303202	JGS	28-Mar-13	6020 A	
Uranium	0.0682	0.0100	mg/kg dry	100	B303202	JGS	28-Mar-13	6020 A	
Zinc	4.58	0.100	mg/kg dry	100	B303202	JGS	28-Mar-13	6020 A	

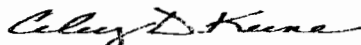
Total Mercury by CVAA

Mercury	ND	0.100	mg/kg dry	500	B303135	JGS	20-Mar-13	EPA7471	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: DD LANDFARM (01-0034) 5 YR MO
Project Number: DD LANDFARM
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
12-Apr-13 16:03

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3031501 - NO PREP

LCS (3031501-BS1)

Prepared & Analyzed: 15-Mar-13

pH	7.13		pH Units	7.00		102	90-110			
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Duplicate (3031501-DUP1)

Source: H300636-01

Prepared & Analyzed: 15-Mar-13

pH	8.05	0.100	pH Units	7.91		1.75	20			
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Batch 3031503 - 1:4 DI Water

Blank (3031503-BLK1)

Prepared & Analyzed: 15-Mar-13

Chloride	ND	16.0	mg/kg							
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LCS (3031503-BS1)

Prepared & Analyzed: 15-Mar-13

Chloride	448	16.0	mg/kg	400		112	80-120			
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LCS Dup (3031503-BSD1)

Prepared & Analyzed: 15-Mar-13

Chloride	448	16.0	mg/kg	400		112	80-120	0.00	20	
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Batch 3031803 - General Prep - Wet Chem

Blank (3031803-BLK1)

Prepared & Analyzed: 20-Mar-13

Sulfate	ND	10.0	mg/kg							
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LCS (3031803-BS1)

Prepared & Analyzed: 20-Mar-13

Sulfate	21.8	10.0	mg/kg	20.0		109	80-120			
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LCS Dup (3031803-BSD1)

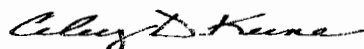
Prepared & Analyzed: 20-Mar-13

Sulfate	20.0	10.0	mg/kg	20.0		100	80-120	8.28	20	
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Celest D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Eddie Seay Consulting
 601 W. Illinois
 Hobbs NM, 88242

 Project: DD LANDFARM (01-0034) 5 YR MO
 Project Number: DD LANDFARM
 Project Manager: Eddie Seay
 Fax To: (505) 392-6949

 Reported:
 12-Apr-13 16:03

Inorganic Compounds - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 3041212 - General Prep
Blank (3041212-BLK1)

Prepared & Analyzed: 04-Apr-13

 Phenols ND 0.5 mg/kg dry
wt.

LCS (3041212-BS1)

Prepared & Analyzed: 04-Apr-13

Phenols 0.4 mg/kg 0.400 106 70-130

Matrix Spike (3041212-MS1)

Source: H300636-01

Prepared & Analyzed: 04-Apr-13

Phenols 4.6 mg/kg 4.08 0.0 112 70-130

Matrix Spike Dup (3041212-MSD1)

Source: H300636-01

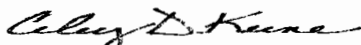
Prepared & Analyzed: 04-Apr-13

Phenols 4.5 mg/kg 4.08 0.0 111 70-130 0.883 20

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Eddie Seay Consulting
 601 W. Illinois
 Hobbs NM, 88242

 Project: DD LANDFARM (01-0034) 5 YR MO
 Project Number: DD LANDFARM
 Project Manager: Eddie Seay
 Fax To: (505) 392-6949

 Reported:
 12-Apr-13 16:03

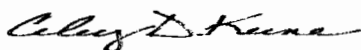
Organic Compounds - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 3031801 - General Prep - Organics									
Blank (3031801-BLK1)				Prepared & Analyzed: 18-Mar-13					
GRO C6-C10	ND	10.0	mg/kg						
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C35	ND	10.0	mg/kg						
Total TPH C6-C28	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	38.7		mg/kg	50.0		77.4	65.2-140		
Surrogate: 1-Chlorooctadecane	50.0		mg/kg	50.0		100	63.6-154		
LCS (3031801-BS1)				Prepared & Analyzed: 18-Mar-13					
GRO C6-C10	173	10.0	mg/kg	200		86.5	66.4-124		
DRO >C10-C28	169	10.0	mg/kg	200		84.5	61.6-132		
Total TPH C6-C28	342	10.0	mg/kg	400		85.5	69.7-122		
Surrogate: 1-Chlorooctane	44.0		mg/kg	50.0		88.0	65.2-140		
Surrogate: 1-Chlorooctadecane	48.0		mg/kg	50.0		95.9	63.6-154		
LCS Dup (3031801-BSD1)				Prepared & Analyzed: 18-Mar-13					
GRO C6-C10	186	10.0	mg/kg	200		93.0	66.4-124	7.19	23.4
DRO >C10-C28	185	10.0	mg/kg	200		92.6	61.6-132	9.12	23.1
Total TPH C6-C28	371	10.0	mg/kg	400		92.8	69.7-122	8.15	20.6
Surrogate: 1-Chlorooctane	47.7		mg/kg	50.0		95.5	65.2-140		
Surrogate: 1-Chlorooctadecane	53.8		mg/kg	50.0		108	63.6-154		

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: DD LANDFARM (01-0034) 5 YR MO
Project Number: DD LANDFARM
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
12-Apr-13 16:03

Organic Compounds - Quality Control

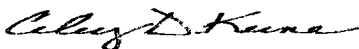
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3041211 - 3550										
Blank (3041211-BLK1) Prepared: 15-Mar-13 Analyzed: 21-Mar-13										
PCB 1016	ND	1.00	ug/kg							
PCB 1221	ND	1.00	ug/kg							
PCB 1232	ND	1.00	ug/kg							
PCB 1242	ND	1.00	ug/kg							
PCB 1248	ND	1.00	ug/kg							
PCB 1254	ND	1.00	ug/kg							
PCB 1260	ND	1.00	ug/kg							
Surrogate: Tetrachloro-meta-xylene	5.31		ug/L	10.0		53.1	35-140			
LCS (3041211-BS1) Prepared: 15-Mar-13 Analyzed: 21-Mar-13										
PCB 1016	94.8		ug/L	100		94.8	70-130			
PCB 1242	ND	1.00	ug/kg				70-130			
PCB 1254	ND	1.00	ug/kg				70-130			
PCB 1260	85.8		ug/L	100		85.8	70-130			
Surrogate: Tetrachloro-meta-xylene	5.12		ug/L	10.0		51.2	35-140			
Matrix Spike (3041211-MS1) Source: H300636-01 Prepared: 15-Mar-13 Analyzed: 21-Mar-13										
PCB 1016	78.7		ug/L	100	ND	78.7	70-130			
PCB 1242	ND	1.00	ug/kg		ND		70-130			
PCB 1254	ND	1.00	ug/kg		ND		70-130			
PCB 1260	70.9		ug/L	100	ND	70.9	70-130			
Surrogate: Tetrachloro-meta-xylene	4.69		ug/L	10.0		46.9	35-140			
Matrix Spike Dup (3041211-MSD1) Source: H300636-01 Prepared: 15-Mar-13 Analyzed: 21-Mar-13										
PCB 1016	81.1		ug/L	100	ND	81.1	70-130	3.00	20	
PCB 1242	ND	1.00	ug/kg		ND		70-130		20	
PCB 1254	ND	1.00	ug/kg		ND		70-130		20	
PCB 1260	79.5		ug/L	100	ND	79.5	70-130	11.4	20	
Surrogate: Tetrachloro-meta-xylene	5.11		ug/L	10.0		51.1	35-140			

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: DD LANDFARM (01-0034) 5 YR MO
Project Number: DD LANDFARM
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
12-Apr-13 16:03

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
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Batch 3032207 - Volatiles
Blank (3032207-BLK1)

Prepared & Analyzed: 22-Mar-13

Vinyl chloride	ND	0.0500	mg/kg					
1,1-Dichloroethene	ND	0.0500	mg/kg					
Methylene chloride	0.0956	0.0500	mg/kg					
1,1-Dichloroethane	ND	0.0500	mg/kg					
Chloroform	ND	0.0500	mg/kg					
Carbon tetrachloride	ND	0.0500	mg/kg					
1,1,1-Trichloroethane	ND	0.0500	mg/kg					
Benzene	ND	0.0500	mg/kg					
1,2-Dichloroethane	ND	0.0500	mg/kg					
Trichloroethene	ND	0.0500	mg/kg					
Toluene	ND	0.0500	mg/kg					
Tetrachloroethene	ND	0.0500	mg/kg					
1,1,2-Trichloroethane	ND	0.0500	mg/kg					
1,2-Dibromoethane	ND	0.0500	mg/kg					
Ethylbenzene	ND	0.0500	mg/kg					
m-p Xylenes	ND	0.100	mg/kg					
o-Xylene	ND	0.0500	mg/kg					
Total Xylenes	ND	0.150	mg/kg					
1,1,2,2-Tetrachloroethane	ND	0.0500	mg/kg					
Naphthalene	ND	0.0500	mg/kg					
Surrogate: Dibromofluoromethane	0.477		mg/kg	0.500		95.5	70-130	
Surrogate: Toluene-d8	0.476		mg/kg	0.500		95.1	70-130	
Surrogate: 4-Bromofluorobenzene	0.489		mg/kg	0.500		97.8	70-130	

LCS (3032207-BS1)

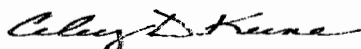
Prepared & Analyzed: 22-Mar-13

Vinyl chloride	1.92	0.0500	mg/kg	2.00		96.0	70-130	
1,1-Dichloroethene	2.02	0.0500	mg/kg	2.00		101	70-130	
Methylene chloride	2.05	0.0500	mg/kg	2.00		102	70-130	
1,1-Dichloroethane	1.70	0.0500	mg/kg	2.00		84.9	70-130	
Chloroform	1.87	0.0500	mg/kg	2.00		93.7	70-130	
Carbon tetrachloride	2.04	0.0500	mg/kg	2.00		102	70-130	
1,1,1-Trichloroethane	2.00	0.0500	mg/kg	2.00		100	70-130	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Eddie Seay Consulting
 601 W. Illinois
 Hobbs NM, 88242

 Project: DD LANDFARM (01-0034) 5 YR MO
 Project Number: DD LANDFARM
 Project Manager: Eddie Seay
 Fax To: (505) 392-6949

 Reported:
 12-Apr-13 16:03

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 3032207 - Volatiles
LCS (3032207-BS1)

Prepared & Analyzed: 22-Mar-13

Benzene	1.96	0.0500	mg/kg	2.00		97.9	70-130		
1,2-Dichloroethane	1.39	0.0500	mg/kg	2.00		69.4	70-130		
Trichloroethene	2.05	0.0500	mg/kg	2.00		103	70-130		
Toluene	1.90	0.0500	mg/kg	2.00		95.0	70-130		
Tetrachloroethene	2.19	0.0500	mg/kg	2.00		110	70-130		
1,1,2-Trichloroethane	1.85	0.0500	mg/kg	2.00		92.5	70-130		
1,2-Dibromoethane	1.85	0.0500	mg/kg	2.00		92.4	70-130		
Ethylbenzene	1.97	0.0500	mg/kg	2.00		98.6	70-130		
m-p Xylenes	4.11	0.100	mg/kg				70-130		
o-Xylene	2.17	0.0500	mg/kg	2.00		108	70-130		
Total Xylenes	6.28	0.150	mg/kg	6.00		105	70-130		
1,1,2,2-Tetrachloroethane	1.58	0.0500	mg/kg	2.00		79.0	70-130		
Naphthalene	1.32	0.0500	mg/kg	2.00		66.2	70-130		
Surrogate: Dibromofluoromethane	0.485		mg/kg	0.500		97.0	70-130		
Surrogate: Toluene-d8	0.480		mg/kg	0.500		96.0	70-130		
Surrogate: 4-Bromofluorobenzene	0.496		mg/kg	0.500		99.1	70-130		

LCS Dup (3032207-BSD1)

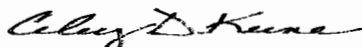
Prepared & Analyzed: 22-Mar-13

Vinyl chloride	1.96	0.0500	mg/kg	2.00		97.9	70-130	1.97	20
1,1-Dichloroethene	2.08	0.0500	mg/kg	2.00		104	70-130	2.52	20
Methylene chloride	2.08	0.0500	mg/kg	2.00		104	70-130	1.77	20
1,1-Dichloroethane	1.73	0.0500	mg/kg	2.00		86.3	70-130	1.65	20
Chloroform	1.94	0.0500	mg/kg	2.00		96.9	70-130	3.37	20
Carbon tetrachloride	2.07	0.0500	mg/kg	2.00		104	70-130	1.67	20
1,1,1-Trichloroethane	2.05	0.0500	mg/kg	2.00		102	70-130	2.31	20
Benzene	1.98	0.0500	mg/kg	2.00		99.0	70-130	1.12	20
1,2-Dichloroethane	1.41	0.0500	mg/kg	2.00		70.6	70-130	1.71	20
Trichloroethene	2.09	0.0500	mg/kg	2.00		105	70-130	1.99	20
Toluene	1.92	0.0500	mg/kg	2.00		96.2	70-130	1.24	20
Tetrachloroethene	2.26	0.0500	mg/kg	2.00		113	70-130	3.12	20
1,1,2-Trichloroethane	1.84	0.0500	mg/kg	2.00		92.2	70-130	0.258	20
1,2-Dibromoethane	1.87	0.0500	mg/kg	2.00		93.5	70-130	1.17	20

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Eddie Seay Consulting
 601 W. Illinois
 Hobbs NM, 88242

 Project: DD LANDFARM (01-0034) 5 YR MO
 Project Number: DD LANDFARM
 Project Manager: Eddie Seay
 Fax To: (505) 392-6949

 Reported:
 12-Apr-13 16:03

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 3032207 - Volatiles
LCS Dup (3032207-BSD1)

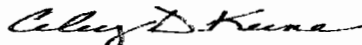
Prepared & Analyzed: 22-Mar-13

Ethylbenzene	1.97	0.0500	mg/kg	2.00		98.3	70-130	0.281	20
m-p Xylenes	4.11	0.100	mg/kg				70-130	0.128	20
o-Xylene	2.17	0.0500	mg/kg	2.00		109	70-130	0.365	20
Total Xylenes	6.28	0.150	mg/kg	6.00		105	70-130	0.0427	20
1,1,2,2-Tetrachloroethane	1.64	0.0500	mg/kg	2.00		81.8	70-130	3.53	20
Naphthalene	1.44	0.0500	mg/kg	2.00		72.1	70-130	8.52	20
Surrogate: Dibromofluoromethane	0.480		mg/kg	0.500		96.1	70-130		
Surrogate: Toluene-d8	0.480		mg/kg	0.500		96.1	70-130		
Surrogate: 4-Bromofluorobenzene	0.498		mg/kg	0.500		99.7	70-130		

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: DD LANDFARM (01-0034) 5 YR MO
Project Number: DD LANDFARM
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
12-Apr-13 16:03

Semivolatile Organic Compounds by GCMS - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 3032103 - SW846-3510
Blank (3032103-BLK1)

Prepared: 21-Mar-13 Analyzed: 22-Mar-13

Naphthalene	ND	0.040	mg/kg						
2-Methylnaphthalene	ND	0.040	mg/kg						
1-Methylnaphthalene	ND	0.040	mg/kg						
Acenaphthylene	ND	0.040	mg/kg						
Acenaphthene	ND	0.040	mg/kg						
Fluorene	ND	0.040	mg/kg						
Phenanthrene	ND	0.040	mg/kg						
Anthracene	ND	0.040	mg/kg						
Carbazole	ND	0.040	mg/kg						
Fluoranthene	ND	0.040	mg/kg						
Pyrene	ND	0.040	mg/kg						
Benzo[a]anthracene	ND	0.040	mg/kg						
Chrysene	ND	0.040	mg/kg						
Benzo[b]fluoranthene	ND	0.040	mg/kg						
Benzo[k]fluoranthene	ND	0.040	mg/kg						
Benzo[a]pyrene	ND	0.040	mg/kg						
Indeno[1,2,3-cd]pyrene	ND	0.040	mg/kg						
Dibenz[a,h]anthracene	ND	0.040	mg/kg						
Benzo[g,h,i]perylene	ND	0.040	mg/kg						
Surrogate: Nitrobenzene-d5	2.39		mg/kg	2.00		119	16.1-91.8		
Surrogate: 2-Fluorobiphenyl	2.08		mg/kg	2.00		104	27.2-92.9		
Surrogate: Terphenyl-d14	2.17		mg/kg	2.00		109	21.3-96.1		

LCS (3032103-BS1)

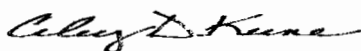
Prepared: 21-Mar-13 Analyzed: 22-Mar-13

Naphthalene	0.454	0.040	mg/kg	0.400		113	5.46-157		
2-Methylnaphthalene	0.448	0.040	mg/kg	0.400		112	16.1-146		
Acenaphthylene	0.437	0.040	mg/kg	0.400		109	21.6-144		
Acenaphthene	0.431	0.040	mg/kg	0.400		108	27-143		
Fluorene	0.425	0.040	mg/kg	0.400		106	30.9-138		
Phenanthrene	0.449	0.040	mg/kg	0.400		112	38.6-149		
Anthracene	0.462	0.040	mg/kg	0.400		115	36.1-149		
Carbazole	0.472	0.040	mg/kg	0.400		118	29.8-144		

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Eddie Seay Consulting
 601 W. Illinois
 Hobbs NM, 88242

 Project: DD LANDFARM (01-0034) 5 YR MO
 Project Number: DD LANDFARM
 Project Manager: Eddie Seay
 Fax To: (505) 392-6949

 Reported:
 12-Apr-13 16:03

Semivolatile Organic Compounds by GCMS - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3032103 - SW846-3510
LCS (3032103-BS1)

Prepared: 21-Mar-13 Analyzed: 22-Mar-13

Fluoranthene	0.445	0.040	mg/kg	0.400		111	34.6-148			
Pyrene	0.401	0.040	mg/kg	0.400		100	24.8-154			
Benzo[a]anthracene	0.439	0.040	mg/kg	0.400		110	0-179			
Chrysene	0.432	0.040	mg/kg	0.400		108	35.1-150			
Benzo[b]fluoranthene	0.303	0.040	mg/kg	0.400		75.8	17.6-158			
Benzo[k]fluoranthene	0.374	0.040	mg/kg	0.400		93.6	10.6-169			
Benzo[a]pyrene	0.352	0.040	mg/kg	0.400		88.0	2.25-166			
Indeno[1,2,3-cd]pyrene	0.356	0.040	mg/kg	0.400		88.9	0-181			
Dibenz[a,h]anthracene	0.370	0.040	mg/kg	0.400		92.4	2.49-177			
Benzo[g,h,i]perylene	0.320	0.040	mg/kg	0.400		80.0	0-173			
Surrogate: Nitrobenzene-d5	3.03		mg/kg	2.00		152	16.1-91.8			
Surrogate: 2-Fluorobiphenyl	2.73		mg/kg	2.00		136	27.2-92.9			
Surrogate: Terphenyl-d4	2.77		mg/kg	2.00		138	21.3-96.1			

LCS Dup (3032103-BSD1)

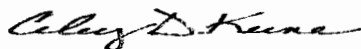
Prepared: 21-Mar-13 Analyzed: 22-Mar-13

Naphthalene	0.460	0.040	mg/kg	0.400		115	5.46-157	1.31	6.7	
2-Methylnaphthalene	0.464	0.040	mg/kg	0.400		116	16.1-146	3.44	8.99	
Acenaphthylene	0.431	0.040	mg/kg	0.400		108	21.6-144	1.39	14.6	
Acenaphthene	0.434	0.040	mg/kg	0.400		109	27-143	0.608	6.99	
Fluorene	0.425	0.040	mg/kg	0.400		106	30.9-138	0.198	13.9	
Phenanthrene	0.453	0.040	mg/kg	0.400		113	38.6-149	0.869	14.6	
Anthracene	0.460	0.040	mg/kg	0.400		115	36.1-149	0.417	18.5	
Carbazole	0.485	0.040	mg/kg	0.400		121	29.8-144	2.77	23.4	
Fluoranthene	0.460	0.040	mg/kg	0.400		115	34.6-148	3.33	19.7	
Pyrene	0.386	0.040	mg/kg	0.400		96.5	24.8-154	3.88	23	
Benzo[a]anthracene	0.442	0.040	mg/kg	0.400		110	0-179	0.663	32.5	
Chrysene	0.433	0.040	mg/kg	0.400		108	35.1-150	0.284	19.4	
Benzo[b]fluoranthene	0.299	0.040	mg/kg	0.400		74.6	17.6-158	1.60	31.4	
Benzo[k]fluoranthene	0.368	0.040	mg/kg	0.400		92.1	10.6-169	1.62	44.6	
Benzo[a]pyrene	0.351	0.040	mg/kg	0.400		87.7	2.25-166	0.302	60.5	
Indeno[1,2,3-cd]pyrene	0.359	0.040	mg/kg	0.400		89.7	0-181	0.887	77	
Dibenz[a,h]anthracene	0.371	0.040	mg/kg	0.400		92.8	2.49-177	0.434	63.3	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Eddie Seay Consulting
 601 W. Illinois
 Hobbs NM, 88242

 Project: DD LANDFARM (01-0034) 5 YR MO
 Project Number: DD LANDFARM
 Project Manager: Eddie Seay
 Fax To: (505) 392-6949

 Reported:
 12-Apr-13 16:03

Semivolatile Organic Compounds by GCMS - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3032103 - SW846-3510
LCS Dup (3032103-BSD1)

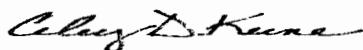
Prepared: 21-Mar-13 Analyzed: 22-Mar-13

Benzo[g,h,i]perylene	0.335	0.040	mg/kg	0.400		83.9	0-173	4.70	77.4	
Surrogate: Nitrobenzene-d5	3.06		mg/kg	2.00		153	16.1-91.8			
Surrogate: 2-Fluorobiphenyl	2.68		mg/kg	2.00		134	27.2-92.9			
Surrogate: Terphenyl-d14	2.77		mg/kg	2.00		138	21.3-96.1			

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Eddie Seay Consulting
 601 W. Illinois
 Hobbs NM, 88242

 Project: DD LANDFARM (01-0034) 5 YR MO
 Project Number: DD LANDFARM
 Project Manager: Eddie Seay
 Fax To: (505) 392-6949

 Reported:
 12-Apr-13 16:03

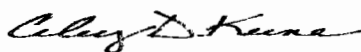
General Chemistry - Quality Control
Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B303184 - General Prep - Wet Chem										
Blank (B303184-BLK1)										
					Prepared: 20-Mar-13 Analyzed: 21-Mar-13					
Cyanide, Total	ND	0.0100	mg/kg wet							
LCS (B303184-BS1)										
					Prepared: 20-Mar-13 Analyzed: 21-Mar-13					
Cyanide, Total	0.0474	0.0100	mg/kg wet	0.0500		94.8	85-115			
LCS Dup (B303184-BSD1)										
					Prepared: 20-Mar-13 Analyzed: 21-Mar-13					
Cyanide, Total	0.0971	0.0100	mg/kg wet	0.100		97.1	85-115	68.8	20	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Eddie Seay Consulting
 601 W. Illinois
 Hobbs NM, 88242

 Project: DD LANDFARM (01-0034) 5 YR MO
 Project Number: DD LANDFARM
 Project Manager: Eddie Seay
 Fax To: (505) 392-6949

 Reported:
 12-Apr-13 16:03

Soluble (DI Water Extraction) - Quality Control
Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B303178 - General Prep - Wet Chem										
Blank (B303178-BLK1)				Prepared & Analyzed: 22-Mar-13						
Nitrate/Nitrite as N	ND	0.040	mg/kg wet							B3
LCS (B303178-BS1)				Prepared & Analyzed: 22-Mar-13						
Nitrate/Nitrite as N	0.105	0.040	mg/kg wet	0.100		105	85-115			
LCS Dup (B303178-BSD1)				Prepared & Analyzed: 22-Mar-13						
Nitrate/Nitrite as N	0.105	0.040	mg/kg wet	0.100		105	85-115	0.00	20	
Batch B303183 - General Prep - Wet Chem										
Blank (B303183-BLK1)				Prepared & Analyzed: 21-Mar-13						
Nitrite as N	ND	0.020	mg/kg wet							
LCS (B303183-BS1)				Prepared & Analyzed: 21-Mar-13						
Nitrite as N	0.098	0.020	mg/kg wet				85-115			
LCS Dup (B303183-BSD1)				Prepared & Analyzed: 21-Mar-13						
Nitrite as N	0.098	0.020	mg/kg wet				85-115	0.102	20	
Batch B304012 - General Prep - Wet Chem										
Blank (B304012-BLK1)				Prepared & Analyzed: 01-Apr-13						
Fluoride	ND	0.200	mg/kg wet							
LCS (B304012-BS1)				Prepared & Analyzed: 01-Apr-13						
Fluoride	0.991	0.200	mg/kg wet	1.00		99.1	85-115			

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: DD LANDFARM (01-0034) 5 YR MO
Project Number: DD LANDFARM
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
12-Apr-13 16:03

Soluble (DI Water Extraction) - Quality Control**Green Analytical Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B304012 - General Prep - Wet Chem**LCS Dup (B304012-BSD1)**

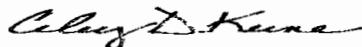
Prepared & Analyzed: 01-Apr-13

Fluoride	0.991	0.200	mg/kg wet	1.00		99.1	85-115	0.00	20	
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Analytical Results For:

 Eddie Seay Consulting
 601 W. Illinois
 Hobbs NM, 88242

 Project: DD LANDFARM (01-0034) 5 YR MO
 Project Number: DD LANDFARM
 Project Manager: Eddie Seay
 Fax To: (505) 392-6949

 Reported:
 12-Apr-13 16:03

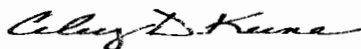
Total Metals by ICP - Quality Control
Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B303155 - EPA 3050										
Blank (B303155-BLK1)										
Prepared & Analyzed: 22-Mar-13										
Iron	ND	0.050	mg/kg dry							
LCS (B303155-BS1)										
Prepared & Analyzed: 22-Mar-13										
Iron	3.97	0.050	mg/kg dry	4.00		99.2	85-115			
LCS Dup (B303155-BSD1)										
Prepared & Analyzed: 22-Mar-13										
Iron	3.98	0.050	mg/kg dry	4.00		99.4	85-115	0.234	20	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: DD LANDFARM (01-0034) 5 YR MO
Project Number: DD LANDFARM
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
12-Apr-13 16:03

Total Metals by ICPMS - Quality Control

Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B303202 - EPA 3050M

Blank (B303202-BLK1)

Prepared & Analyzed: 28-Mar-13

Silver	ND	0.0001	mg/kg dry
Barium	ND	0.0005	mg/kg dry
Selenium	ND	0.0010	mg/kg dry
Lead	ND	0.0005	mg/kg dry
Copper	ND	0.0001	mg/kg dry
Cadmium	ND	0.0001	mg/kg dry
Arsenic	ND	0.0005	mg/kg dry
Manganese	ND	0.0005	mg/kg dry
Chromium	ND	0.0010	mg/kg dry
Zinc	ND	0.0010	mg/kg dry
Uranium	ND	0.0001	mg/kg dry

LCS (B303202-BS1)

Prepared & Analyzed: 28-Mar-13

Silver	0.0467	0.0001	mg/kg dry	0.0500	93.3	85-115
Chromium	0.0479	0.0010	mg/kg dry	0.0500	95.7	85-115
Cadmium	0.0462	0.0001	mg/kg dry	0.0500	92.3	85-115
Arsenic	0.0445	0.0005	mg/kg dry	0.0500	89.0	85-115
Manganese	0.0475	0.0005	mg/kg dry	0.0500	95.1	85-115
Copper	0.0489	0.0001	mg/kg dry	0.0500	97.7	85-115
Lead	0.0479	0.0005	mg/kg dry	0.0500	95.7	85-115
Uranium	0.0492	0.0001	mg/kg dry	0.0500	98.5	85-115
Zinc	0.0445	0.0010	mg/kg dry	0.0500	89.0	80-120
Selenium	0.233	0.0010	mg/kg dry	0.250	93.3	85-115
Barium	0.0488	0.0005	mg/kg dry	0.0500	97.7	85-115

LCS Dup (B303202-BSD1)

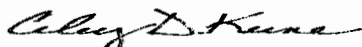
Prepared & Analyzed: 28-Mar-13

Silver	0.0494	0.0001	mg/kg dry	0.0500	98.8	85-115	5.74	20
Manganese	0.0507	0.0005	mg/kg dry	0.0500	101	85-115	6.42	20
Lead	0.0460	0.0005	mg/kg dry	0.0500	92.0	85-115	3.94	20
Chromium	0.0504	0.0010	mg/kg dry	0.0500	101	85-115	5.18	20
Arsenic	0.0470	0.0005	mg/kg dry	0.0500	94.0	85-115	5.49	20
Uranium	0.0481	0.0001	mg/kg dry	0.0500	96.1	85-115	2.42	20
Selenium	0.234	0.0010	mg/kg dry	0.250	93.7	85-115	0.371	20

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Eddie Seay Consulting
 601 W. Illinois
 Hobbs NM, 88242

 Project: DD LANDFARM (01-0034) 5 YR MO
 Project Number: DD LANDFARM
 Project Manager: Eddie Seay
 Fax To: (505) 392-6949

 Reported:
 12-Apr-13 16:03

Total Metals by ICPMS - Quality Control
Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B303202 - EPA 3050M
LCS Dup (B303202-BSD1)

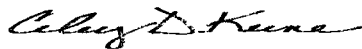
Prepared & Analyzed: 28-Mar-13

Copper	0.0496	0.0001	mg/kg dry	0.0500		99.2	85-115	1.52	20	
Cadmium	0.0486	0.0001	mg/kg dry	0.0500		97.2	85-115	5.13	20	
Barium	0.0484	0.0005	mg/kg dry	0.0500		96.7	85-115	0.991	20	
Zinc	0.0475	0.0010	mg/kg dry	0.0500		95.1	80-120	6.59	20	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: DD LANDFARM (01-0034) 5 YR MO
Project Number: DD LANDFARM
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
12-Apr-13 16:03

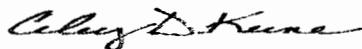
Total Mercury by CVAA - Quality Control
Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B303135 - EPA 7471										
Blank (B303135-BLK1)										
				Prepared: 19-Mar-13 Analyzed: 20-Mar-13						
Mercury	ND	0.0002	mg/kg wet							
LCS (B303135-BS1)										
				Prepared: 19-Mar-13 Analyzed: 20-Mar-13						
Mercury	0.0020	0.0002	mg/kg wet	0.00200		101	85-115			
LCS Dup (B303135-BSD1)										
				Prepared: 19-Mar-13 Analyzed: 20-Mar-13						
Mercury	0.0020	0.0002	mg/kg wet	0.00200		100	85-115	0.598	20	

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Celey D. Keene, Lab Director/Quality Manager

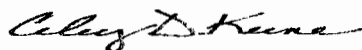
Notes and Definitions

SUB-SS	Analysis subcontracted to SunStar Laboratories, Inc.
SUB-RS	Analysis subcontracted to Radiation Safety Engineering, Inc.
GAL	Analysis subcontracted to Green Analytical Laboratories, a subsidiary of Cardinal Laboratories.
B3	Target analyte detected in method blank or continuing calibration blank. Reporting limit elevated to account for blank result.
B	Analyte is found in the associated blank as well as in the sample (CLP B-flag).
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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† Cardinal cannot accept verbal changes. Please fax written changes to (577) 393-2326



(575) 393-2328 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Eldio San Consulting						P.O. #:					
Project Manager:						Company:					
Address:						City:					
State:						Zip:					
Phone #:						Fax #:					
Project #: DD IF						Project Owner: S. Lopez					
Project Name: DD Landfill						(2034)					
Project Location: Camino Sur 31						City:					
						State:					
						Zip:					
Sample Name:						Phone #:					
FOR LAB USE ONLY						Fax #:					
Lab I.D. Sample I.D. C001-1 C001-2 C001-3 C001-4						Syr. Method					
						MATRIX					
						(G)RAB OR (C)OMP.					
						# CONTAINERS					
						GROUNDWATER					
						WASTEWATER					
						SOIL					
						OIL					
						SLUDGE					
						OTHER :					
						ACID/BASE:					
						ICE / COOL					
						OTHER :					
						DATE					
						TIME					
						SAMPLING					
						Benzene - a - pyrene					
						Copper					
						Iron					
						Manganese					
						Sulfate					
						Zinc					
						Ra 226 & Ra 228					
						Uranium					
						F. No 3					
						Phenols					
						P.H					
						Carbon Tetrachloride					

PLEASE NOTE: Liability and Damages. Client's liability and damage shall remain for any claim arising whether insured or not, shall be limited to the amount paid by the client for the service. All claims including negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Client within 30 days after completion of the applicable service. In no event shall Client be liable for incidental or consequential damages, including without limitation, business interruption, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors either oral or written to the performance of services provided by Client. Signature of analyst must appear below each sample analyzed.

Relinquished By: [Signature] **Date:** 3/14 **Received By:** [Signature] **Date:** 3/13

Relinquished By: [Signature] **Date:** 9/20 **Received By:** [Signature] **Date:** 3/13

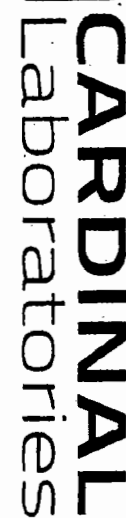
Delivered By: (Circle One) **Sample Condition** **CHECKED BY:** (Initials)

Sampler - UPS - Bus - Other: **Cool Intact** **No Yes** **No Yes**

REMARKS:

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

Fax Result: ☐ Yes ☐ No **Add'l Fax #:**



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

W
Z
W

(575) 393-2326 FAX (575) 393-2476

[illegible]