

NM1 - _34_

**MONITORING
REPORT**

YEAR(S):

2017-2018

**DD LANDFARM
BOX 36
MONUMENT, NM 88265**

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

RE: DD Landfarm

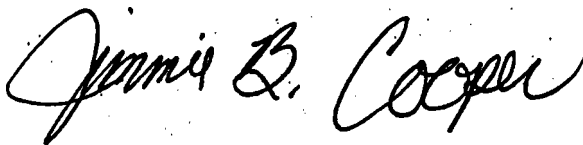
Mr. Jones:

Please find the attached request and/or information concerning DD Landfarm.

We appreciate your time and patience as we get everything together as you requested to get into compliance.

We appreciate your continued cooperation.

Thanks.



Jimmie B. Cooper
Owner - Operator
DD Landfarm
1-254-493-9082

RECEIVED C.O.
2011 MAY -1 PM 3:22

April 2017

NMOCD Environmental
1220 South ST. Francis Drive
Santa FE, NM 87505

RE: DD Landfarm
Sampling

Dear Sir:

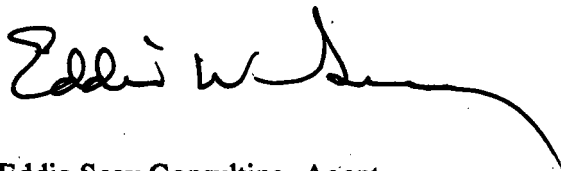
Find enclosed the analytical for DD Landfarm, both treatment and vadose samples and WQCC Metals.

The tests were compared to the background and PQL, and all were in compliance.

We are continuing with our closing, we are in the second growing season for the facility and hope to have final closure at end of year.

Should you have any questions, please call.

Thanks,

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

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

cc: DD Landfarm



Google earth

feet
meters

1000

400



Approx. sampling locations •
DD Lark Farm March 2017



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

April 06, 2017

Jim Cooper
DD Landfarm
Box 36
Monument, NM 88265
TEL: (575) 390-2454
FAX

RE: DD Landfarm

OrderNo.: 1703D74

Dear Jim Cooper:

Hall Environmental Analysis Laboratory received 18 sample(s) on 3/28/2017 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 1703D74

Date Reported: 4/6/2017

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** DD Landfarm**Client Sample ID:** Cell 1-T**Project:** DD Landfarm**Collection Date:** 3/26/2017 6:30:00 AM**Lab ID:** 1703D74-001**Matrix:** SOIL**Received Date:** 3/28/2017 9:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: LGT
Chloride	ND	1.5		mg/Kg	1	3/31/2017 2:02:46 PM
EPA METHOD 418.1: TPH						Analyst: MAB
Petroleum Hydrocarbons, TR	56	18		mg/Kg	1	4/3/2017

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report

Lab Order 1703D74

Date Reported: 4/6/2017

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** DD Landfarm**Client Sample ID:** Cell 2-T**Project:** DD Landfarm**Collection Date:** 3/26/2017 6:50:00 AM**Lab ID:** 1703D74-002**Matrix:** SOIL**Received Date:** 3/28/2017 9:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: LGT
Chloride	ND	1.5		mg/Kg	1	3/31/2017 3:17:13 PM
EPA METHOD 418.1: TPH						Analyst: MAB
Petroleum Hydrocarbons, TR	160	20		mg/Kg	1	4/3/2017

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1703D74

Date Reported: 4/6/2017

CLIENT: DD Landfarm

Client Sample ID: Cell 3-T

Project: DD Landfarm

Collection Date: 3/26/2017 7:15:00 AM

Lab ID: 1703D74-003

Matrix: SOIL

Received Date: 3/28/2017 9:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: LGT
Chloride	4.3	1.5		mg/Kg	1	3/31/2017 3:42:03 PM
EPA METHOD 418.1: TPH						Analyst: MAB
Petroleum Hydrocarbons, TR	47	19		mg/Kg	1	4/3/2017

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report

Lab Order 1703D74

Date Reported: 4/6/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: DD Landfarm

Client Sample ID: Cell 1-1V

Project: DD Landfarm

Collection Date: 3/26/2017 8:00:00 AM

Lab ID: 1703D74-004

Matrix: SOIL

Received Date: 3/28/2017 9:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: LGT
Chloride	ND	1.5		mg/Kg	1	3/31/2017 4:06:52 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: DJF
Methyl tert-butyl ether (MTBE)	ND	0.049		mg/Kg	1	3/29/2017 8:35:37 PM
Benzene	ND	0.024		mg/Kg	1	3/29/2017 8:35:37 PM
Toluene	ND	0.049		mg/Kg	1	3/29/2017 8:35:37 PM
Ethylbenzene	ND	0.049		mg/Kg	1	3/29/2017 8:35:37 PM
Xylenes, Total	ND	0.098		mg/Kg	1	3/29/2017 8:35:37 PM
Surr: 1,2-Dichloroethane-d4	108	70-130		%Rec	1	3/29/2017 8:35:37 PM
Surr: 4-Bromofluorobenzene	91.6	70-130		%Rec	1	3/29/2017 8:35:37 PM
Surr: Dibromofluoromethane	114	70-130		%Rec	1	3/29/2017 8:35:37 PM
Surr: Toluene-d8	95.0	70-130		%Rec	1	3/29/2017 8:35:37 PM
EPA METHOD 418.1: TPH						Analyst: MAB
Petroleum Hydrocarbons, TR	ND	18		mg/Kg	1	4/3/2017

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1703D74

Date Reported: 4/6/2017

CLIENT: DD Landfarm

Client Sample ID: Cell 1-2V

Project: DD Landfarm

Collection Date: 3/26/2017 8:25:00 AM

Lab ID: 1703D74-005

Matrix: SOIL

Received Date: 3/28/2017 9:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: LGT
Chloride	ND	1.5		mg/Kg	1	3/31/2017 4:31:40 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: DJF
Methyl tert-butyl ether (MTBE)	ND	0.049		mg/Kg	1	3/29/2017 9:04:15 PM
Benzene	ND	0.025		mg/Kg	1	3/29/2017 9:04:15 PM
Toluene	ND	0.049		mg/Kg	1	3/29/2017 9:04:15 PM
Ethylbenzene	ND	0.049		mg/Kg	1	3/29/2017 9:04:15 PM
Xylenes, Total	ND	0.099		mg/Kg	1	3/29/2017 9:04:15 PM
Surr: 1,2-Dichloroethane-d4	103	70-130		%Rec	1	3/29/2017 9:04:15 PM
Surr: 4-Bromofluorobenzene	90.7	70-130		%Rec	1	3/29/2017 9:04:15 PM
Surr: Dibromofluoromethane	108	70-130		%Rec	1	3/29/2017 9:04:15 PM
Surr: Toluene-d8	96.8	70-130		%Rec	1	3/29/2017 9:04:15 PM
EPA METHOD 418.1: TPH						Analyst: MAB
Petroleum Hydrocarbons, TR	ND	18		mg/Kg	1	4/3/2017

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report

Lab Order 1703D74

Date Reported: 4/6/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: DD Landfarm

Client Sample ID: Cell 1-3V

Project: DD Landfarm

Collection Date: 3/26/2017 8:55:00 AM

Lab ID: 1703D74-006

Matrix: SOIL

Received Date: 3/28/2017 9:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	ND	1.5		mg/Kg	1	4/3/2017 11:37:37 AM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: DJF
Methyl tert-butyl ether (MTBE)	ND	0.048		mg/Kg	1	3/29/2017 11:26:45 PM
Benzene	ND	0.024		mg/Kg	1	3/29/2017 11:26:45 PM
Toluene	ND	0.048		mg/Kg	1	3/29/2017 11:26:45 PM
Ethylbenzene	ND	0.048		mg/Kg	1	3/29/2017 11:26:45 PM
Xylenes, Total	ND	0.096		mg/Kg	1	3/29/2017 11:26:45 PM
Surr: 1,2-Dichloroethane-d4	107	70-130		%Rec	1	3/29/2017 11:26:45 PM
Surr: 4-Bromofluorobenzene	89.8	70-130		%Rec	1	3/29/2017 11:26:45 PM
Surr: Dibromofluoromethane	109	70-130		%Rec	1	3/29/2017 11:26:45 PM
Surr: Toluene-d8	97.5	70-130		%Rec	1	3/29/2017 11:26:45 PM
EPA METHOD 418.1: TPH						Analyst: MAB
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	4/3/2017

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

Analytical Report

Lab Order 1703D74

Date Reported: 4/6/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: DD Landfarm

Client Sample ID: Cell 1-4V

Project: DD Landfarm

Collection Date: 3/26/2017 9:15:00 AM

Lab ID: 1703D74-007

Matrix: SOIL

Received Date: 3/28/2017 9:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	ND	1.5		mg/Kg	1	4/3/2017 12:52:03 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: DJF
Methyl tert-butyl ether (MTBE)	ND	0.049		mg/Kg	1	3/29/2017 11:55:13 PM
Benzene	ND	0.024		mg/Kg	1	3/29/2017 11:55:13 PM
Toluene	ND	0.049		mg/Kg	1	3/29/2017 11:55:13 PM
Ethylbenzene	ND	0.049		mg/Kg	1	3/29/2017 11:55:13 PM
Xylenes, Total	ND	0.098		mg/Kg	1	3/29/2017 11:55:13 PM
Surr: 1,2-Dichloroethane-d4	102	70-130		%Rec	1	3/29/2017 11:55:13 PM
Surr: 4-Bromofluorobenzene	92.4	70-130		%Rec	1	3/29/2017 11:55:13 PM
Surr: Dibromofluoromethane	110	70-130		%Rec	1	3/29/2017 11:55:13 PM
Surr: Toluene-d8	98.9	70-130		%Rec	1	3/29/2017 11:55:13 PM
EPA METHOD 418.1: TPH						Analyst: MAB
Petroleum Hydrocarbons, TR	ND	18		mg/Kg	1	4/3/2017

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report

Lab Order 1703D74

Date Reported: 4/6/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: DD Landfarm

Client Sample ID: Cell 2-1V

Project: DD Landfarm

Collection Date: 3/26/2017 9:40:00 AM

Lab ID: 1703D74-008

Matrix: SOIL

Received Date: 3/28/2017 9:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	ND	1.5		mg/Kg	1	4/3/2017 1:16:52 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: DJF
Methyl tert-butyl ether (MTBE)	ND	0.049		mg/Kg	1	3/30/2017 12:23:37 AM
Benzene	ND	0.024		mg/Kg	1	3/30/2017 12:23:37 AM
Toluene	ND	0.049		mg/Kg	1	3/30/2017 12:23:37 AM
Ethylbenzene	ND	0.049		mg/Kg	1	3/30/2017 12:23:37 AM
Xylenes, Total	ND	0.097		mg/Kg	1	3/30/2017 12:23:37 AM
Surr: 1,2-Dichloroethane-d4	102	70-130		%Rec	1	3/30/2017 12:23:37 AM
Surr: 4-Bromofluorobenzene	91.7	70-130		%Rec	1	3/30/2017 12:23:37 AM
Surr: Dibromofluoromethane	111	70-130		%Rec	1	3/30/2017 12:23:37 AM
Surr: Toluene-d8	97.5	70-130		%Rec	1	3/30/2017 12:23:37 AM
EPA METHOD 418.1: TPH						Analyst: MAB
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	4/3/2017

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E Value above quantitation range
H	Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P Sample pH Not In Range
R	RPD outside accepted recovery limits	RL Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1703D74

Date Reported: 4/6/2017

CLIENT: DD Landfarm

Client Sample ID: Cell 2-2V

Project: DD Landfarm

Collection Date: 3/26/2017 10:10:00 AM

Lab ID: 1703D74-009

Matrix: SOIL

Received Date: 3/28/2017 9:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	ND	1.5		mg/Kg	1	4/3/2017 1:41:41 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: DJF
Methyl tert-butyl ether (MTBE)	ND	0.048		mg/Kg	1	3/30/2017 12:52:32 AM
Benzene	ND	0.024		mg/Kg	1	3/30/2017 12:52:32 AM
Toluene	ND	0.048		mg/Kg	1	3/30/2017 12:52:32 AM
Ethylbenzene	ND	0.048		mg/Kg	1	3/30/2017 12:52:32 AM
Xylenes, Total	ND	0.096		mg/Kg	1	3/30/2017 12:52:32 AM
Surr: 1,2-Dichloroethane-d4	101	70-130		%Rec	1	3/30/2017 12:52:32 AM
Surr: 4-Bromofluorobenzene	88.6	70-130		%Rec	1	3/30/2017 12:52:32 AM
Surr: Dibromofluoromethane	111	70-130		%Rec	1	3/30/2017 12:52:32 AM
Surr: Toluene-d8	97.5	70-130		%Rec	1	3/30/2017 12:52:32 AM
EPA METHOD 418.1: TPH						Analyst: MAB
Petroleum Hydrocarbons, TR	ND	19		mg/Kg	1	4/3/2017

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P Sample pH Not In Range
R	RPD outside accepted recovery limits	RL Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1703D74

Date Reported: 4/6/2017

CLIENT: DD Landfarm

Client Sample ID: Cell 2-3V

Project: DD Landfarm

Collection Date: 3/26/2017 10:30:00 AM

Lab ID: 1703D74-010

Matrix: SOIL

Received Date: 3/28/2017 9:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	ND	1.5		mg/Kg	1	4/3/2017 2:06:31 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: DJF
Methyl tert-butyl ether (MTBE)	ND	0.047		mg/Kg	1	3/30/2017 1:21:09 AM
Benzene	ND	0.023		mg/Kg	1	3/30/2017 1:21:09 AM
Toluene	ND	0.047		mg/Kg	1	3/30/2017 1:21:09 AM
Ethylbenzene	ND	0.047		mg/Kg	1	3/30/2017 1:21:09 AM
Xylenes, Total	ND	0.093		mg/Kg	1	3/30/2017 1:21:09 AM
Surr: 1,2-Dichloroethane-d4	107	70-130		%Rec	1	3/30/2017 1:21:09 AM
Surr: 4-Bromofluorobenzene	86.9	70-130		%Rec	1	3/30/2017 1:21:09 AM
Surr: Dibromofluoromethane	112	70-130		%Rec	1	3/30/2017 1:21:09 AM
Surr: Toluene-d8	98.2	70-130		%Rec	1	3/30/2017 1:21:09 AM
EPA METHOD 418.1: TPH						Analyst: MAB
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	4/3/2017

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report

Lab Order 1703D74

Date Reported: 4/6/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: DD Landfarm

Client Sample ID: Cell 2-4V

Project: DD Landfarm

Collection Date: 3/26/2017 10:50:00 AM

Lab ID: 1703D74-011

Matrix: SOIL

Received Date: 3/28/2017 9:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	ND	1.5		mg/Kg	1	4/3/2017 2:31:19 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: DJF
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	3/30/2017 1:49:41 AM
Benzene	ND	0.025		mg/Kg	1	3/30/2017 1:49:41 AM
Toluene	ND	0.050		mg/Kg	1	3/30/2017 1:49:41 AM
Ethylbenzene	ND	0.050		mg/Kg	1	3/30/2017 1:49:41 AM
Xylenes, Total	ND	0.099		mg/Kg	1	3/30/2017 1:49:41 AM
Surr: 1,2-Dichloroethane-d4	100	70-130		%Rec	1	3/30/2017 1:49:41 AM
Surr: 4-Bromofluorobenzene	91.1	70-130		%Rec	1	3/30/2017 1:49:41 AM
Surr: Dibromofluoromethane	104	70-130		%Rec	1	3/30/2017 1:49:41 AM
Surr: Toluene-d8	97.1	70-130		%Rec	1	3/30/2017 1:49:41 AM
EPA METHOD 418.1: TPH						Analyst: MAB
Petroleum Hydrocarbons, TR	ND	19		mg/Kg	1	4/3/2017

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

Analytical Report

Lab Order 1703D74

Date Reported: 4/6/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: DD Landfarm

Client Sample ID: Cell 3-1V

Project: DD Landfarm

Collection Date: 3/26/2017 11:20:00 AM

Lab ID: 1703D74-012

Matrix: SOIL

Received Date: 3/28/2017 9:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	ND	1.5		mg/Kg	1	4/3/2017 3:20:57 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: DJF
Methyl tert-butyl ether (MTBE)	ND	0.047		mg/Kg	1	3/30/2017 2:18:03 AM
Benzene	ND	0.023		mg/Kg	1	3/30/2017 2:18:03 AM
Toluene	ND	0.047		mg/Kg	1	3/30/2017 2:18:03 AM
Ethylbenzene	ND	0.047		mg/Kg	1	3/30/2017 2:18:03 AM
Xylenes, Total	ND	0.094		mg/Kg	1	3/30/2017 2:18:03 AM
Surr: 1,2-Dichloroethane-d4	106	70-130		%Rec	1	3/30/2017 2:18:03 AM
Surr: 4-Bromofluorobenzene	87.6	70-130		%Rec	1	3/30/2017 2:18:03 AM
Surr: Dibromofluoromethane	111	70-130		%Rec	1	3/30/2017 2:18:03 AM
Surr: Toluene-d8	96.9	70-130		%Rec	1	3/30/2017 2:18:03 AM
EPA METHOD 418.1: TPH						Analyst: MAB
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	4/3/2017

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1703D74

Date Reported: 4/6/2017

CLIENT: DD Landfarm

Client Sample ID: Cell 3-2V

Project: DD Landfarm

Collection Date: 3/26/2017 11:40:00 AM

Lab ID: 1703D74-013

Matrix: SOIL

Received Date: 3/28/2017 9:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	ND	1.5		mg/Kg	1	4/3/2017 3:45:46 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: DJF
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	3/30/2017 2:46:42 AM
Benzene	ND	0.025		mg/Kg	1	3/30/2017 2:46:42 AM
Toluene	ND	0.050		mg/Kg	1	3/30/2017 2:46:42 AM
Ethylbenzene	ND	0.050		mg/Kg	1	3/30/2017 2:46:42 AM
Xylenes, Total	ND	0.099		mg/Kg	1	3/30/2017 2:46:42 AM
Surr: 1,2-Dichloroethane-d4	105	70-130		%Rec	1	3/30/2017 2:46:42 AM
Surr: 4-Bromofluorobenzene	87.3	70-130		%Rec	1	3/30/2017 2:46:42 AM
Surr: Dibromofluoromethane	110	70-130		%Rec	1	3/30/2017 2:46:42 AM
Surr: Toluene-d8	95.7	70-130		%Rec	1	3/30/2017 2:46:42 AM
EPA METHOD 418.1: TPH						Analyst: MAB
Petroleum Hydrocarbons, TR	ND	19		mg/Kg	1	4/3/2017

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1703D74

Date Reported: 4/6/2017

CLIENT: DD Landfarm

Client Sample ID: Cell 3-3V

Project: DD Landfarm

Collection Date: 3/26/2017 12:10:00 PM

Lab ID: 1703D74-014

Matrix: SOIL

Received Date: 3/28/2017 9:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	ND	1.5		mg/Kg	1	4/3/2017 4:10:36 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: DJF
Methyl tert-butyl ether (MTBE)	ND	0.047		mg/Kg	1	3/30/2017 3:15:12 AM
Benzene	ND	0.024		mg/Kg	1	3/30/2017 3:15:12 AM
Toluene	ND	0.047		mg/Kg	1	3/30/2017 3:15:12 AM
Ethylbenzene	ND	0.047		mg/Kg	1	3/30/2017 3:15:12 AM
Xylenes, Total	ND	0.094		mg/Kg	1	3/30/2017 3:15:12 AM
Surr: 1,2-Dichloroethane-d4	106	70-130		%Rec	1	3/30/2017 3:15:12 AM
Surr: 4-Bromofluorobenzene	89.9	70-130		%Rec	1	3/30/2017 3:15:12 AM
Surr: Dibromofluoromethane	110	70-130		%Rec	1	3/30/2017 3:15:12 AM
Surr: Toluene-d8	95.7	70-130		%Rec	1	3/30/2017 3:15:12 AM
EPA METHOD 418.1: TPH						Analyst: MAB
Petroleum Hydrocarbons, TR	ND	18		mg/Kg	1	4/3/2017

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P Sample pH Not In Range
R	RPD outside accepted recovery limits	RL Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1703D74

Date Reported: 4/6/2017

CLIENT: DD Landfarm

Client Sample ID: Cell 3-4V

Project: DD Landfarm

Collection Date: 3/26/2017 12:55:00 PM

Lab ID: 1703D74-015

Matrix: SOIL

Received Date: 3/28/2017 9:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	ND	1.5		mg/Kg	1	4/3/2017 4:35:26 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: DJF
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	3/30/2017 3:43:54 AM
Benzene	ND	0.025		mg/Kg	1	3/30/2017 3:43:54 AM
Toluene	ND	0.050		mg/Kg	1	3/30/2017 3:43:54 AM
Ethylbenzene	ND	0.050		mg/Kg	1	3/30/2017 3:43:54 AM
Xylenes, Total	ND	0.10		mg/Kg	1	3/30/2017 3:43:54 AM
Surr: 1,2-Dichloroethane-d4	107	70-130		%Rec	1	3/30/2017 3:43:54 AM
Surr: 4-Bromofluorobenzene	89.0	70-130		%Rec	1	3/30/2017 3:43:54 AM
Surr: Dibromofluoromethane	111	70-130		%Rec	1	3/30/2017 3:43:54 AM
Surr: Toluene-d8	95.2	70-130		%Rec	1	3/30/2017 3:43:54 AM
EPA METHOD 418.1: TPH						Analyst: MAB
Petroleum Hydrocarbons, TR	ND	19		mg/Kg	1	4/3/2017

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical Report

Lab Order 1703D74

Date Reported: 4/6/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: DD Landfarm

Client Sample ID: Cell-1-M

Project: DD Landfarm

Collection Date: 3/26/2017 1:00:00 PM

Lab ID: 1703D74-016

Matrix: SOIL

Received Date: 3/28/2017 9:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 7471: MERCURY						Analyst: ELS
Mercury	ND	0.033		mg/Kg	1	4/3/2017 11:17:15 AM
EPA METHOD 6010B: SOIL METALS						Analyst: MED
Arsenic	ND	2.5		mg/Kg	1	3/31/2017 10:07:33 AM
Barium	35	0.099		mg/Kg	1	3/31/2017 10:07:33 AM
Cadmium	ND	0.099		mg/Kg	1	3/31/2017 10:07:33 AM
Chromium	4.6	0.30		mg/Kg	1	3/31/2017 10:07:33 AM
Copper	2.5	0.30		mg/Kg	1	3/31/2017 10:07:33 AM
Iron	4800	250		mg/Kg	100	3/31/2017 10:40:11 AM
Lead	2.4	0.25		mg/Kg	1	3/31/2017 10:07:33 AM
Manganese	68	0.099		mg/Kg	1	3/31/2017 10:07:33 AM
Selenium	ND	2.5		mg/Kg	1	3/31/2017 10:07:33 AM
Silver	ND	0.25		mg/Kg	1	3/31/2017 10:07:33 AM
Uranium	ND	5.0		mg/Kg	1	3/31/2017 10:07:33 AM
Zinc	11	2.5		mg/Kg	1	3/31/2017 10:07:33 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

Analytical Report

Lab Order 1703D74

Date Reported: 4/6/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: DD Landfarm

Client Sample ID: Cell-2-M

Project: DD Landfarm

Collection Date: 3/26/2017 1:15:00 PM

Lab ID: 1703D74-017

Matrix: SOIL

Received Date: 3/28/2017 9:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 7471: MERCURY						Analyst: ELS
Mercury	ND	0.033		mg/Kg	1	4/3/2017 11:19:01 AM
EPA METHOD 6010B: SOIL METALS						Analyst: MED
Arsenic	ND	2.5		mg/Kg	1	3/31/2017 10:08:59 AM
Barium	15	0.099		mg/Kg	1	3/31/2017 10:08:59 AM
Cadmium	ND	0.099		mg/Kg	1	3/31/2017 10:08:59 AM
Chromium	2.7	0.30		mg/Kg	1	3/31/2017 10:08:59 AM
Copper	1.0	0.30		mg/Kg	1	3/31/2017 10:08:59 AM
Iron	2700	250		mg/Kg	100	3/31/2017 10:41:46 AM
Lead	1.4	0.25		mg/Kg	1	3/31/2017 10:08:59 AM
Manganese	28	0.099		mg/Kg	1	3/31/2017 10:08:59 AM
Selenium	ND	2.5		mg/Kg	1	3/31/2017 10:08:59 AM
Silver	ND	0.25		mg/Kg	1	3/31/2017 10:08:59 AM
Uranium	ND	4.9		mg/Kg	1	3/31/2017 10:08:59 AM
Zinc	5.5	2.5		mg/Kg	1	3/31/2017 10:08:59 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

Analytical Report

Lab Order 1703D74

Date Reported: 4/6/2017

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** DD Landfarm**Client Sample ID:** Cell-3-M**Project:** DD Landfarm**Collection Date:** 3/26/2017 1:35:00 PM**Lab ID:** 1703D74-018**Matrix:** SOIL**Received Date:** 3/28/2017 9:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 7471: MERCURY						Analyst: ELS
Mercury	ND	0.033		mg/Kg	1	4/3/2017 11:20:47 AM
EPA METHOD 6010B: SOIL METALS						Analyst: MED
Arsenic	ND	2.5		mg/Kg	1	3/31/2017 10:18:41 AM
Barium	25	0.10		mg/Kg	1	3/31/2017 10:18:41 AM
Cadmium	ND	0.10		mg/Kg	1	3/31/2017 10:18:41 AM
Chromium	3.5	0.30		mg/Kg	1	3/31/2017 10:18:41 AM
Copper	1.5	0.30		mg/Kg	1	4/4/2017 8:49:12 AM
Iron	3600	250		mg/Kg	100	3/31/2017 10:43:34 AM
Lead	1.8	0.25		mg/Kg	1	3/31/2017 10:18:41 AM
Manganese	48	0.10		mg/Kg	1	3/31/2017 10:18:41 AM
Selenium	ND	2.5		mg/Kg	1	3/31/2017 10:18:41 AM
Silver	ND	0.25		mg/Kg	1	3/31/2017 10:18:41 AM
Uranium	ND	5.0		mg/Kg	1	3/31/2017 10:18:41 AM
Zinc	7.7	2.5		mg/Kg	1	3/31/2017 10:18:41 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1703D74

06-Apr-17

Client: DD Landfarm

Project: DD Landfarm

Sample ID	MB-31010	SampType:	mblk	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	31010	RunNo:	41802					
Prep Date:	3/31/2017	Analysis Date:	3/31/2017	SeqNo:	1313317	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-31010	SampType:	lcs	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	31010	RunNo:	41802					
Prep Date:	3/31/2017	Analysis Date:	3/31/2017	SeqNo:	1313318	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.7	90	110			

Sample ID	1703D74-001AMS	SampType:	ms	TestCode:	EPA Method 300.0: Anions					
Client ID:	Cell 1-T	Batch ID:	31010	RunNo:	41802					
Prep Date:	3/31/2017	Analysis Date:	3/31/2017	SeqNo:	1313341	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	1.254	94.3	70.8	119			

Sample ID	1703D74-001AMSD	SampType:	msd	TestCode:	EPA Method 300.0: Anions					
Client ID:	Cell 1-T	Batch ID:	31010	RunNo:	41802					
Prep Date:	3/31/2017	Analysis Date:	3/31/2017	SeqNo:	1313342	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	1.254	94.8	70.8	119	0.424	20	

Sample ID	MB-31040	SampType:	mblk	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	31040	RunNo:	41837					
Prep Date:	4/3/2017	Analysis Date:	4/3/2017	SeqNo:	1314506	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-31040	SampType:	lcs	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	31040	RunNo:	41837					
Prep Date:	4/3/2017	Analysis Date:	4/3/2017	SeqNo:	1314507	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.5	90	110			

Qualifiers:

- | | |
|---|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Value above quantitation range |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1703D74

06-Apr-17

Client: DD Landfarm

Project: DD Landfarm

Sample ID	1703D74-006AMS	SampType:	ms	TestCode:	EPA Method 300.0: Anions					
Client ID:	Cell 1-3V	Batch ID:	31040	RunNo:	41837					
Prep Date:	4/3/2017	Analysis Date:	4/3/2017	SeqNo:	1314512	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0.6408	93.0	70.8	119			

Sample ID 1703D74-006AMSD		SampType: msd		TestCode: EPA Method 300.0: Anions						
Client ID: Cell 1-3V		Batch ID: 31040		RunNo: 41837						
Prep Date: 4/3/2017		Analysis Date: 4/3/2017		SeqNo: 1314513		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0.6408	92.9	70.8	119	0.116	20	

Qualifiers:

- | | |
|---|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Value above quantitation range |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1703D74

06-Apr-17

Client: DD Landfarm

Project: DD Landfarm

Sample ID	MB-30952	SampType:	MBLK	TestCode:	EPA Method 418.1: TPH					
Client ID:	PBS	Batch ID:	30952	RunNo:	41846					
Prep Date:	3/29/2017	Analysis Date:	4/3/2017	SeqNo:	1313745	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	ND	20								

Sample ID	LCS-30952	SampType:	LCS	TestCode:	EPA Method 418.1: TPH					
Client ID:	LCSS	Batch ID:	30952	RunNo:	41846					
Prep Date:	3/29/2017	Analysis Date:	4/3/2017	SeqNo:	1313746	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	110	20	100.0	0	107	61.7	138			

Sample ID	LCSD-30952	SampType:	LCSD	TestCode:	EPA Method 418.1: TPH					
Client ID:	LCSS02	Batch ID:	30952	RunNo:	41846					
Prep Date:	3/29/2017	Analysis Date:	4/3/2017	SeqNo:	1313747	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	110	20	100.0	0	108	61.7	138	1.19	20	

Qualifiers:

- | | |
|---|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Value above quantitation range |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1703D74

06-Apr-17

Client: DD Landfarm

Project: DD Landfarm

Sample ID	mb-30945	SampType	MBLK	TestCode	EPA Method 8260B: Volatiles Short List					
Client ID	PBS	Batch ID	30945	RunNo	41730					
Prep Date	3/28/2017	Analysis Date	3/29/2017	SeqNo	1310415	Units	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	0.050								
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.54		0.5000		108	70	130			
Surr: 4-Bromofluorobenzene	0.43		0.5000		85.2	70	130			
Surr: Dibromofluoromethane	0.55		0.5000		110	70	130			
Surr: Toluene-d8	0.49		0.5000		97.2	70	130			

Sample ID	lcs-30945	SampType	LCS	TestCode	EPA Method 8260B: Volatiles Short List					
Client ID	LCSS	Batch ID	30945	RunNo	41730					
Prep Date	3/28/2017	Analysis Date	3/29/2017	SeqNo	1310416	Units	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.2	0.025	1.000	0	120	70	130			
Toluene	0.99	0.050	1.000	0	98.6	70	130			
Surr: 1,2-Dichloroethane-d4	0.57		0.5000		113	70	130			
Surr: 4-Bromofluorobenzene	0.46		0.5000		92.4	70	130			
Surr: Dibromofluoromethane	0.54		0.5000		109	70	130			
Surr: Toluene-d8	0.48		0.5000		95.1	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Value above quantitation range
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit	P Sample pH Not In Range
R RPD outside accepted recovery limits	RL Reporting Detection Limit
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1703D74

06-Apr-17

Client: DD Landfarm

Project: DD Landfarm

Sample ID	MB-31028	SampType:	MBLK	TestCode:	EPA Method 7471: Mercury					
Client ID:	PBS	Batch ID:	31028	RunNo:	41839					
Prep Date:	4/3/2017	Analysis Date:	4/3/2017	SeqNo:	1313544	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.033								

Sample ID	LCS-31028	SampType:	LCS	TestCode:	EPA Method 7471: Mercury					
Client ID:	LCSS	Batch ID:	31028	RunNo:	41839					
Prep Date:	4/3/2017	Analysis Date:	4/3/2017	SeqNo:	1313545	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.17	0.033	0.1687	0	101	80	120			

Qualifiers:

- | | |
|---|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Value above quantitation range |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1703D74

06-Apr-17

Client: DD Landfarm

Project: DD Landfarm

Sample ID	MB-30992	SampType:	MBLK	TestCode:	EPA Method 6010B: Soil Metals
Client ID:	PBS	Batch ID:	30992	RunNo:	41807
Prep Date:	3/30/2017	Analysis Date:	3/31/2017	SeqNo:	1312434
				Units:	mg/Kg

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	2.5								
Barium	ND	0.10								
Cadmium	ND	0.10								
Chromium	ND	0.30								
Copper	ND	0.30								
Iron	ND	2.5								
Lead	ND	0.25								
Manganese	ND	0.10								
Selenium	ND	2.5								
Silver	ND	0.25								
Uranium	ND	5.0								
Zinc	ND	2.5								

Sample ID	LCS-30992	SampType:	LCS	TestCode:	EPA Method 6010B: Soil Metals
Client ID:	LCSS	Batch ID:	30992	RunNo:	41807
Prep Date:	3/30/2017	Analysis Date:	3/31/2017	SeqNo:	1312435
				Units:	mg/Kg

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	23	2.5	25.00	0	94.0	80	120			
Barium	25	0.10	25.00	0	99.4	80	120			
Cadmium	24	0.10	25.00	0	97.9	80	120			
Chromium	24	0.30	25.00	0	97.6	80	120			
Copper	25	0.30	25.00	0	101	80	120			
Iron	26	2.5	25.00	0	104	80	120			
Lead	23	0.25	25.00	0	93.9	80	120			
Manganese	25	0.10	25.00	0	98.4	80	120			
Selenium	23	2.5	25.00	0	91.4	80	120			
Silver	4.9	0.25	5.000	0	98.4	80	120			
Uranium	25	5.0	25.00	0	99.2	80	120			
Zinc	23	2.5	25.00	0	93.3	80	120			

Sample ID	1703D74-017AMS	SampType:	MS	TestCode:	EPA Method 6010B: Soil Metals
Client ID:	Cell-2-M	Batch ID:	30992	RunNo:	41807
Prep Date:	3/30/2017	Analysis Date:	3/31/2017	SeqNo:	1312439
				Units:	mg/Kg

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	23	2.5	24.62	0	95.0	75	125			
Barium	41	0.098	24.62	14.79	106	75	125			
Cadmium	24	0.098	24.62	0	95.7	75	125			
Chromium	27	0.30	24.62	2.732	97.6	75	125			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit
W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1703D74

06-Apr-17

Client: DD Landfarm

Project: DD Landfarm

Sample ID	1703D74-017AMS	SampType:	MS	TestCode: EPA Method 6010B: Soil Metals						
Client ID:	Cell-2-M	Batch ID:	30992	RunNo: 41807						
Prep Date:	3/30/2017	Analysis Date:	3/31/2017	SeqNo:	1312439	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Copper	26	0.30	24.62	1.011	99.9	75	125			
Lead	24	0.25	24.62	1.447	90.1	75	125			
Manganese	53	0.098	24.62	28.46	98.6	75	125			
Selenium	21	2.5	24.62	0	85.7	75	125			
Silver	4.6	0.25	4.923	0	93.0	75	125			
Uranium	22	4.9	24.62	0	89.2	75	125			
Zinc	28	2.5	24.62	5.468	91.2	75	125			

Sample ID	1703D74-017AMSD	SampType: MSD		TestCode: EPA Method 6010B: Soil Metals						
Client ID:	Cell-2-M	Batch ID: 30992		RunNo: 41807						
Prep Date:	3/30/2017	Analysis Date: 3/31/2017		SeqNo: 1312440		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	24	2.5	24.67	0	95.5	75	125	0.770	20	
Barium	41	0.099	24.67	14.79	105	75	125	0.372	20	
Cadmium	24	0.099	24.67	0	95.4	75	125	0.0943	20	
Chromium	27	0.30	24.67	2.732	97.5	75	125	0.155	20	
Copper	26	0.30	24.67	1.011	100	75	125	0.627	20	
Lead	24	0.25	24.67	1.447	91.5	75	125	1.58	20	
Manganese	53	0.099	24.67	28.46	97.7	75	125	0.327	20	
Selenium	22	2.5	24.67	0	90.4	75	125	5.56	20	
Silver	4.6	0.25	4.933	0	94.2	75	125	1.48	20	
Uranium	23	4.9	24.67	0	94.8	75	125	6.29	20	
Zinc	28	2.5	24.67	5.468	90.5	75	125	0.494	20	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: DD LANDFARM

Work Order Number: 1703D74

RcptNo: 1

Received by/date:

EVM

03/28/17

Logged By: Ashley Gallegos

3/28/2017 9:46:00 AM

Ag

Completed By: Ashley Gallegos

3/28/2017 12:25:35 PM

Ag

Reviewed By:

Ag/EVM

03/28/17

Chain of Custody

- | | | | |
|--|---------|----|-------------|
| 1. Custody seals intact on sample bottles? | Yes | No | Not Present |
| 2. Is Chain of Custody complete? | Yes | No | Not Present |
| 3. How was the sample delivered? | Courier | | |

Log In

- | | | | |
|---|-----|----|--|
| 4. Was an attempt made to cool the samples? | Yes | No | NA |
| 5. Were all samples received at a temperature of >0° C to 6.0°C | Yes | No | NA |
| 6. Sample(s) in proper container(s)? | Yes | No | |
| 7. Sufficient sample volume for indicated test(s)? | Yes | No | |
| 8. Are samples (except VOA and ONG) properly preserved? | Yes | No | |
| 9. Was preservative added to bottles? | Yes | No | NA |
| 10. VOA vials have zero headspace? | Yes | No | No VOA Vials |
| 11. Were any sample containers received broken? | Yes | No | # of preserved bottles checked for pH: |
| 12. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) | Yes | No | (<2 or >12 unless noted) |
| 13. Are matrices correctly identified on Chain of Custody? | Yes | No | Adjusted? |
| 14. Is it clear what analyses were requested? | Yes | No | |
| 15. Were all holding times able to be met?
(If no, notify customer for authorization.) | Yes | No | Checked by: |

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes No NA
- | | | | |
|----------------------|--|-------|---------------------------|
| Person Notified: | | Date: | |
| By Whom: | | Via: | eMail Phone Fax In Person |
| Regarding: | | | |
| Client Instructions: | | | |

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.6	Good	Yes			

Chain-of-Custody Record

Client: DD Landfarm

Mailing Address: Box 36
Monument NM 96265

Phone #: 575-392-2236

email or Fax#: seay04@leaco.net

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:

☒ Standard ☐ Rush

Project Name:

DD Landfarm

Project #:

DD Landfarm B. Annual

Project Manager:

J. Cooper

Sampler: E. Seay

On Ice: ☒ Yes ☐ No

Sample Temperature: 5.6°C



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Chloride	Air Bubbles (Y or N)
3/26	6:30	Soil	Cell 1 - T	1-403	ice	-001				✓								✓	
"	6:50	"	Cell 2 - T	"	"	-002				✓								✓	
"	7:15	"	Cell 3 - T	"	"	-003				✓								✓	
3/26	8:00	Soil	Cell 1 - 1V	1-403		-004	✓			✓								✓	
"	8:25	"	Cell 1 - 2V	"		-005	✓			✓								✓	
"	8:55	"	Cell 1 - 3V	"		-006	✓			✓								✓	
"	9:15	"	Cell 1 - 4V	"		-007	✓			✓								✓	

Date: 3/27 Time: 8:30 Relinquished by: E. Seay Received by: Spk Date: 3/27/17 Time: 0830

Date: 3/27/17 Time: 1900 Relinquished by: Spk Received by: Witt Date: 03/28/17 Time: 0945

Remarks:

seay04@leaco.net

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Chain-of-Custody Record

Client: DD Landfarm

Mailing Address: Box 36
Monument NM 87265
 Phone #: 505-392-2236
 email or Fax#: 504 @ leeco.net
 QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)
 Accreditation
☐ NELAP ☐ Other _____
☐ EDD (Type) _____

Turn-Around Time:

☒ Standard ☐ Rush

Project Name:

DD Landfarm

Project #:

DD - Bi Annual

Project Manager:

J. Cooper

Sampler:

E. Seep

On Ice:

☒ Yes ☐ No

Sample Temperature: 5.6°C



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + MT	BTEX + MT	TPH 8015B	TPH (Method)	EDB (Method)	PAH's (8310)	RCRA 8 Met	Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)	8081 Pesticide	8260B (VOA)	8270 (Semi-VOA)	Chloride	WACC	Air Bubbles
3/26	9:40	Soil	Cell 2 - 1V	1-407	ICR	-008	✓			✓								✓		
"	10:10	"	Cell 2 - 2V	"	"	-009	✓			✓								✓		
"	10:30	"	Cell 2 - 3V	"	"	-010	✓			✓								✓		
"	10:50	"	Cell 2 - 4V	"	"	-011	✓			✓								✓		
3/26	11:20	Soil	Cell 3 - 1V	"	"	-012	✓			✓								✓		
"	11:40	"	Cell 3 - 2V	"	"	-013	✓			✓								✓		
"	12:10	"	Cell 3 - 3V	"	"	-014	✓			✓								✓		
"	12:55	"	Cell 3 - 4V	"	"	-015	✓			✓								✓		
3/26	1:00	Soil	Cell 1 - M	"	"	-016													✓	
"	1:15	"	Cell 2 - M	"	"	-017													✓	
"	1:35	"	Cell 3 - M	"	"	-018													✓	

Date: 3/27 Time: 8:30 Relinquished by: Edwin W. Seep Received by: Ship Date: 3/27/17 Time: 0830

Date: 3/27/17 Time: 1900 Relinquished by: Ship Received by: WAT Date: 03/28/17 Time: 0945

Remarks:

504 @ leeco.net

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.