NM1 - 10B

MONITORING REPORTS

YEAR(S):

2007-2003

BLAGG ENGINEERING, INC.
P.O. Box 87, Bloomfield, New Mexico 87413
Phone: (505)632-1199 Fax: (505)632-3903

November 2, 2007

Mr. Brad Jones
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

NM 1 - 0010B

Re: JFJ Waste Management Facility: Permit NM-01-0010B
Quarterly Report on Treatment Zone Monitoring

Dear Mr. Jones:

On behalf of JFJ Landfarm L.L.C., Blagg Engineering, Inc. (BEI) is submitting quarterly treatment zone monitoring test results for the JFJ Waste Management Facility pursuant to Permit NM-01-0010B. This report is for sampling conducted on October 17-18, 2007.

Sampling protocol included collection of native soils below the treatment zone in each cell using a hand auger. Samples were submitted for analytical testing that included total petroleum hydrocarbons (TPH) by U.S. EPA Method 8015B and volatile hydrocarbons (BTEX) by U.S. EPA Method 8021B. Samples were collect from active cell units 2e, 3g, 4g, 7c, 8c, 9g, 11d, 12f and 13g (Figure 1). There were no test results in excess of standards. Analytical reports are attached. The facility permit requires quarterly testing for TPH and BTEX and annual testing for metals and cation/anions.

Questions or comments concerning this transmittal may be directed to myself at (505)632-1199 or Jake Hatcher with JFJ Landfarm L.L.C. at (505)632-1786.

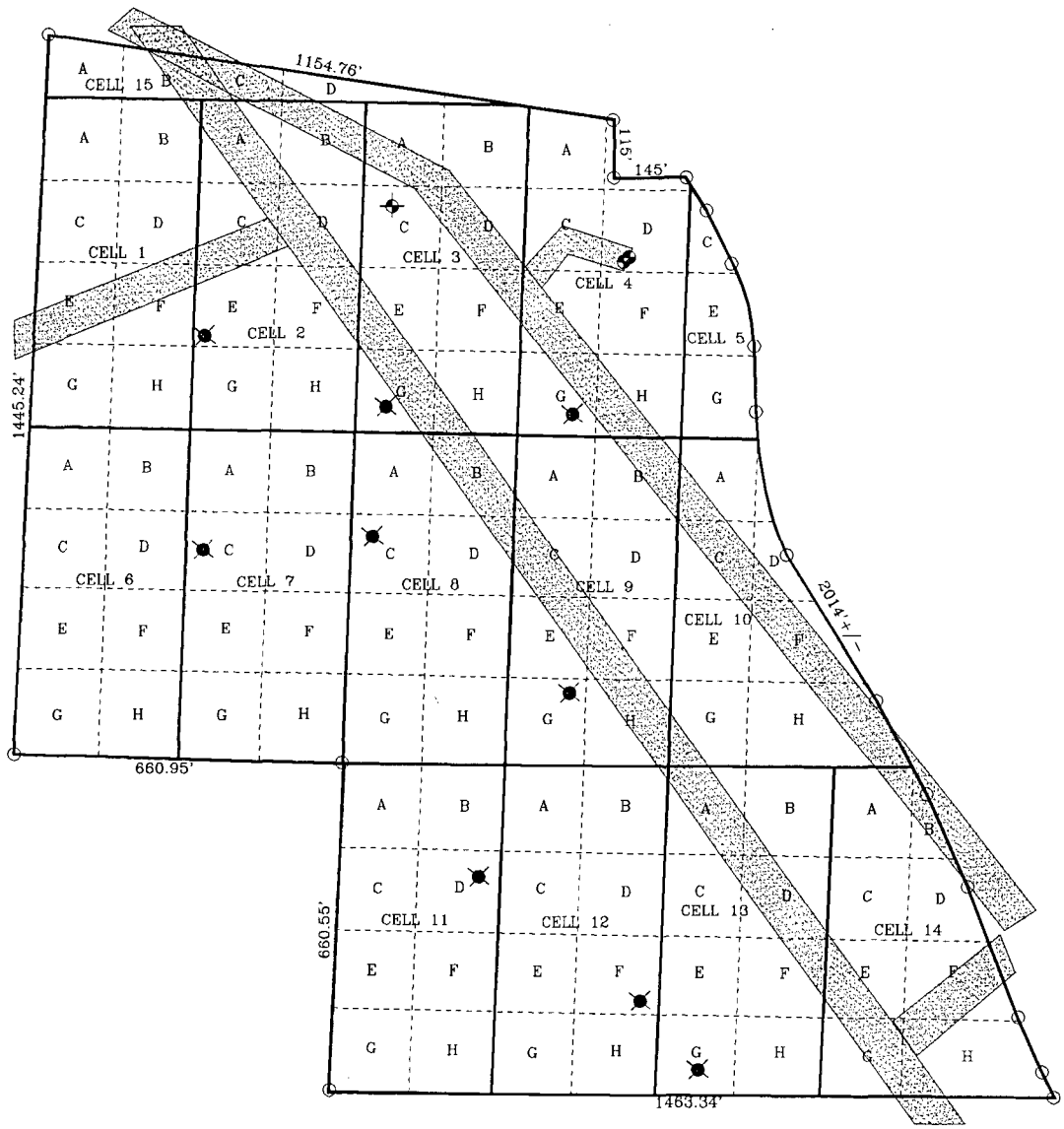
Respectfully submitted:
Blagg Engineering, Inc.

Jeffrey C. Blagg

Jeffrey C. Blagg, P.E.
President

Attachments: Site Diagram
Analytical Test Reports

cc: Brandon Powell, NMOCD Aztec District Office
Jake Hatcher, JFJ Farmington



JFJ LANDFARM FACILITY TREATMENT ZONE MONITORING			*BLAGG ENGINEERING, INC.*
DATE: 10/2007	FIGURE 1	BY: JCB	*P.O. BOX 87, BLOOMFIELD, NM* *PHONE: (505)632-1199*

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg Eng. Inc.	Project #:	94034-010
Sample ID:	Cell 2 E 2'	Date Reported:	10-22-07
Laboratory Number:	43399	Date Sampled:	10-17-07
Chain of Custody No:	3038	Date Received:	10-19-07
Sample Matrix:	Soil	Date Extracted:	10-19-07
Preservative:	Cool	Date Analyzed:	10-22-07
Condition:	Cool & Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm**

Analyst

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg Eng. Inc	Project #:	94034-010
Sample ID:	Cell 2 E 2'	Date Reported:	10-22-07
Laboratory Number:	43399	Date Sampled:	10-17-07
Chain of Custody:	3038	Date Received:	10-19-07
Sample Matrix:	Soil	Date Analyzed:	10-22-07
Preservative:	Cool	Date Extracted:	10-19-07
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**0.9**
Toluene	**ND**	**1.0**
Ethylbenzene	**ND**	**1.0**
p,m-Xylene	**ND**	**1.2**
o-Xylene	**ND**	**0.9**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**99.0 %**
	1,4-difluorobenzene	**99.0 %**
	Bromochlorobenzene	**99.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg Eng. Inc.	Project #:	94034-010
Sample ID:	Cell 3 G 2'-3'	Date Reported:	10-22-07
Laboratory Number:	43400	Date Sampled:	10-17-07
Chain of Custody No:	3038	Date Received:	10-19-07
Sample Matrix:	Soil	Date Extracted:	10-19-07
Preservative:	Cool	Date Analyzed:	10-22-07
Condition:	Cool & Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg Eng. Inc	Project #:	94034-010
Sample ID:	Cell 3 G 2'-3'	Date Reported:	10-22-07
Laboratory Number:	43400	Date Sampled:	10-17-07
Chain of Custody:	3038	Date Received:	10-19-07
Sample Matrix:	Soil	Date Analyzed:	10-22-07
Preservative:	Cool	Date Extracted:	10-19-07
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**0.9**
Toluene	**ND**	**1.0**
Ethylbenzene	**ND**	**1.0**
p,m-Xylene	**ND**	**1.2**
o-Xylene	**ND**	**0.9**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**98.0 %**
	1,4-difluorobenzene	**98.0 %**
	Bromochlorobenzene	**98.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg Eng. Inc.	Project #:	94034-010
Sample ID:	Cell 4 G 2'-3'	Date Reported:	10-22-07
Laboratory Number:	43401	Date Sampled:	10-17-07
Chain of Custody No:	3038	Date Received:	10-19-07
Sample Matrix:	Soil	Date Extracted:	10-19-07
Preservative:	Cool	Date Analyzed:	10-22-07
Condition:	Cool & Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg Eng. Inc	Project #:	94034-010
Sample ID:	Cell 4 G 2'-3'	Date Reported:	10-22-07
Laboratory Number:	43401	Date Sampled:	10-17-07
Chain of Custody:	3038	Date Received:	10-19-07
Sample Matrix:	Soil	Date Analyzed:	10-22-07
Preservative:	Cool	Date Extracted:	10-19-07
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**0.9**
Toluene	**ND**	**1.0**
Ethylbenzene	**ND**	**1.0**
p,m-Xylene	**ND**	**1.2**
o-Xylene	**ND**	**0.9**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**97.0 %**
	1,4-difluorobenzene	**97.0 %**
	Bromochlorobenzene	**97.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg Eng. Inc.	Project #:	94034-010
Sample ID:	Cell 7 C 2'	Date Reported:	10-22-07
Laboratory Number:	43398	Date Sampled:	10-17-07
Chain of Custody No:	3038	Date Received:	10-19-07
Sample Matrix:	Soil	Date Extracted:	10-19-07
Preservative:	Cool	Date Analyzed:	10-22-07
Condition:	Cool & Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg Eng. Inc	Project #:	94034-010
Sample ID:	Cell 7 C 2'	Date Reported:	10-22-07
Laboratory Number:	43398	Date Sampled:	10-17-07
Chain of Custody:	3038	Date Received:	10-19-07
Sample Matrix:	Soil	Date Analyzed:	10-22-07
Preservative:	Cool	Date Extracted:	10-19-07
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**0.9**
Toluene	**ND**	**1.0**
Ethylbenzene	**ND**	**1.0**
p,m-Xylene	**ND**	**1.2**
o-Xylene	**ND**	**0.9**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**98.0 %**
	1,4-difluorobenzene	**98.0 %**
	Bromochlorobenzene	**98.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg Eng. Inc.	Project #:	94034-010
Sample ID:	Cell 8 C 3'	Date Reported:	10-22-07
Laboratory Number:	43402	Date Sampled:	10-18-07
Chain of Custody No:	3038	Date Received:	10-19-07
Sample Matrix:	Soil	Date Extracted:	10-19-07
Preservative:	Cool	Date Analyzed:	10-22-07
Condition:	Cool & Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg Eng. Inc	Project #:	94034-010
Sample ID:	Cell 8 C 3'	Date Reported:	10-22-07
Laboratory Number:	43402	Date Sampled:	10-18-07
Chain of Custody:	3038	Date Received:	10-19-07
Sample Matrix:	Soil	Date Analyzed:	10-22-07
Preservative:	Cool	Date Extracted:	10-19-07
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**0.9**
Toluene	**ND**	**1.0**
Ethylbenzene	**ND**	**1.0**
p,m-Xylene	**ND**	**1.2**
o-Xylene	**ND**	**0.9**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**96.0 %**
	1,4-difluorobenzene	**96.0 %**
	Bromochlorobenzene	**96.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg Eng. Inc.	Project #:	94034-010
Sample ID:	Cell 9 G 2'-3'	Date Reported:	10-22-07
Laboratory Number:	43397	Date Sampled:	10-17-07
Chain of Custody No:	3038	Date Received:	10-19-07
Sample Matrix:	Soil	Date Extracted:	10-19-07
Preservative:	Cool	Date Analyzed:	10-22-07
Condition:	Cool & Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg Eng. Inc	Project #:	94034-010
Sample ID:	Cell 9 G 2'-3'	Date Reported:	10-22-07
Laboratory Number:	43397	Date Sampled:	10-17-07
Chain of Custody:	3038	Date Received:	10-19-07
Sample Matrix:	Soil	Date Analyzed:	10-22-07
Preservative:	Cool	Date Extracted:	10-19-07
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**0.9**
Toluene	**ND**	**1.0**
Ethylbenzene	**ND**	**1.0**
p,m-Xylene	**ND**	**1.2**
o-Xylene	**ND**	**0.9**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**97.0 %**
	1,4-difluorobenzene	**97.0 %**
	Bromochlorobenzene	**97.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg Eng. Inc.	Project #:	94034-010
Sample ID:	Cell 11 D 3'	Date Reported:	10-22-07
Laboratory Number:	43403	Date Sampled:	10-18-07
Chain of Custody No:	3038	Date Received:	10-19-07
Sample Matrix:	Soil	Date Extracted:	10-19-07
Preservative:	Cool	Date Analyzed:	10-22-07
Condition:	Cool & Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm**

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EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg Eng. Inc	Project #:	94034-010
Sample ID:	Cell 11 D 3'	Date Reported:	10-22-07
Laboratory Number:	43403	Date Sampled:	10-18-07
Chain of Custody:	3038	Date Received:	10-19-07
Sample Matrix:	Soil	Date Analyzed:	10-22-07
Preservative:	Cool	Date Extracted:	10-19-07
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**0.9**
Toluene	**ND**	**1.0**
Ethylbenzene	**ND**	**1.0**
p,m-Xylene	**ND**	**1.2**
o-Xylene	**ND**	**0.9**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**97.0 %**
	1,4-difluorobenzene	**97.0 %**
	Bromochlorobenzene	**97.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg Eng. Inc.	Project #:	94034-010
Sample ID:	Cell12 F 2½'	Date Reported:	10-22-07
Laboratory Number:	43404	Date Sampled:	10-18-07
Chain of Custody No:	3038	Date Received:	10-19-07
Sample Matrix:	Soil	Date Extracted:	10-19-07
Preservative:	Cool	Date Analyzed:	10-22-07
Condition:	Cool & Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg Eng. Inc	Project #:	94034-010
Sample ID:	Cell 12 F 2½'	Date Reported:	10-22-07
Laboratory Number:	43404	Date Sampled:	10-18-07
Chain of Custody:	3038	Date Received:	10-19-07
Sample Matrix:	Soil	Date Analyzed:	10-22-07
Preservative:	Cool	Date Extracted:	10-19-07
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**0.9**
Toluene	**ND**	**1.0**
Ethylbenzene	**ND**	**1.0**
p,m-Xylene	**ND**	**1.2**
o-Xylene	**ND**	**0.9**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**99.0 %**
	1,4-difluorobenzene	**99.0 %**
	Bromochlorobenzene	**99.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg Eng. Inc.	Project #:	94034-010
Sample ID:	Cell 13 G 2'	Date Reported:	10-22-07
Laboratory Number:	43405	Date Sampled:	10-18-07
Chain of Custody No:	3038	Date Received:	10-19-07
Sample Matrix:	Soil	Date Extracted:	10-19-07
Preservative:	Cool	Date Analyzed:	10-22-07
Condition:	Cool & Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg Eng. Inc	Project #:	94034-010
Sample ID:	Cell 13 G 2'	Date Reported:	10-22-07
Laboratory Number:	43405	Date Sampled:	10-18-07
Chain of Custody:	3038	Date Received:	10-19-07
Sample Matrix:	Soil	Date Analyzed:	10-22-07
Preservative:	Cool	Date Extracted:	10-19-07
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**0.9**
Toluene	**ND**	**1.0**
Ethylbenzene	**ND**	**1.0**
p,m-Xylene	**ND**	**1.2**
o-Xylene	**ND**	**0.9**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**97.0 %**
	1,4-difluorobenzene	**97.0 %**
	Bromochlorobenzene	**97.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	10-22-07 QA/QC	Date Reported:	10-22-07
Laboratory Number:	43397	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	10-22-07
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
Gasoline Range C5 - C10	05-07-07	9.9995E+002	1.0004E+003	**0.04%**	**0 - 15%**
Diesel Range C10 - C28	05-07-07	9.8289E+002	9.8328E+002	**0.04%**	**0 - 15%**

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	**ND**	**0.2**
Diesel Range C10 - C28	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	**ND**	**ND**	**0.0%**	**0 - 30%**
Diesel Range C10 - C28	**ND**	**ND**	**0.0%**	**0 - 30%**

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	**ND**	**250**	**250**	**100.0%**	**75 - 125%**
Diesel Range C10 - C28	**ND**	**250**	**250**	**100.0%**	**75 - 125%**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **QA/QC for Samples 43397 - 43405, 43407**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	10-22-BTEX QA/QC	Date Reported:	10-22-07
Laboratory Number:	43397	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	10-22-07
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF:	C-Cal RF:	%Diff. Accept. Range 0 - 15%	Blank Conc	Detect. Limit
Benzene	1.0879E+008	1.0901E+008	0.2%	ND	0.1
Toluene	9.5664E+007	9.5855E+007	0.2%	ND	0.1
Ethylbenzene	7.3795E+007	7.3943E+007	0.2%	ND	0.1
p,m-Xylene	1.4532E+008	1.4561E+008	0.2%	ND	0.1
o-Xylene	6.9011E+007	6.9149E+007	0.2%	ND	0.1

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	ND	ND	0.0%	0 - 30%	0.9
Toluene	ND	ND	0.0%	0 - 30%	1.0
Ethylbenzene	ND	ND	0.0%	0 - 30%	1.0
p,m-Xylene	ND	ND	0.0%	0 - 30%	1.2
o-Xylene	ND	ND	0.0%	0 - 30%	0.9

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	50.0	49.9	99.8%	39 - 150
Toluene	ND	50.0	49.9	99.8%	46 - 148
Ethylbenzene	ND	50.0	49.9	99.8%	32 - 160
p,m-Xylene	ND	100	99.9	99.9%	46 - 148
o-Xylene	ND	50.0	49.9	99.8%	46 - 148

ND - Parameter not detected at the stated detection limit.

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.
Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: **QA/QC for Samples 43397 - 43405, 43407**

Analyst

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BLAGG ENGINEERING, INC.
P.O. Box 87, Bloomfield, New Mexico 87413
Phone: (505)632-1199 Fax: (505)632-8903

RECEIVED
2007 AUG 7 PM 12 10

August 3, 2007

Mr. Brad Jones
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

NM1 - 0010B

Re: JFJ Waste Management Facility: Permit NM-01-0010B
Quarterly Report on Treatment Zone Monitoring

Dear Mr. Jones:

On behalf of JFJ Landfarm L.L.C., Blagg Engineering, Inc. (BEI) is submitting quarterly treatment zone monitoring test results for the JFJ Waste Management Facility pursuant to Permit NM-01-0010B. This report is for sampling conducted on July 6, 2007.

Sampling protocol included collection of native soils below the treatment zone in each cell using a hand auger. Samples were submitted for analytical testing that included total petroleum hydrocarbons (TPH) by U.S. EPA Method 8015B, volatile hydrocarbons (BTEX) by U.S. EPA Method 8021B, eight RCRA metals and major cations/anions. With this annual monitoring samples were collect from active cell units 2a, 3d, 4f, 7h, 8f, 9b, 11f, 12g and 13h (Figure 1). There were no test results in excess of standards. Analytical reports are attached. The facility permit requires quarterly testing for TPH and BTEX and annual testing for metals and cation/anions.

Questions or comments concerning this transmittal may be directed to myself at (505)632-1199 or Jake Hatcher with JFJ Landfarm L.L.C. at (505)632-1786.

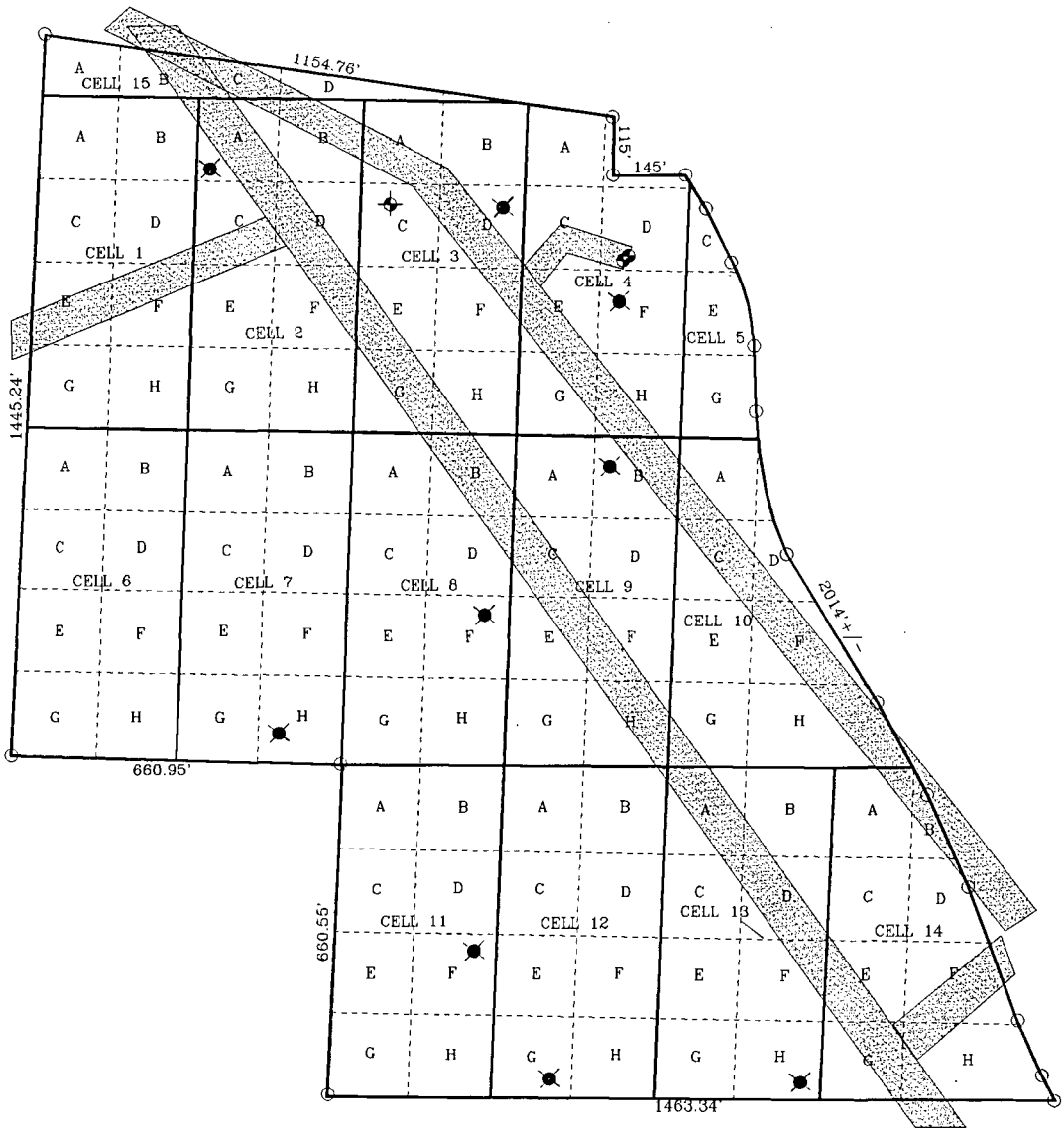
Respectfully submitted:
Blagg Engineering, Inc.

Jeffrey C. Blagg

Jeffrey C. Blagg, P.E.
President

Attachments: Site Diagram
Analytical Test Reports

cc: Brandon Powell, NMOCD Aztec District Office
Jake Hatcher, JFJ Farmington



LEGEND

- Treatment Zone Sample Location
- Active Gas Well
- PxA Gas Well
- Pipeline Right-of-Way

N

0 500 1000 Feet

JFJ LANDFARM FACILITY TREATMENT ZONE MONITORING			*BLAGG ENGINEERING, INC.*
DATE: 7/6/2007	FIGURE 1	BY: JCB	*P.O. BOX 87, BLOOMFIELD, NM* *PHONE: (505)632-1199*

CHAIN OF CUSTODY RECORD

2949

Client / Project Name	Project Location	ANALYSIS / PARAMETERS
BLAGG/JFJ	JFJ LANDFARM	

Sampler:	Client No.	
JEFF BLAGG	94034-010	

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TPH 8015	BTEX 8021	8 RCRA METALS	CATION/ ANION			Remarks
CELL 2A	7-3-07	1000	42298	SOIL	2	X	X	X	X			
CELL 3D	"	1010	42299	"	2	X	X	X	X			
CELL 4F	"	1030	42300	"	2	X	X	X	X			
CELL 7H	"	1110	42301	"	2	X	X	X	X			
CELL 8F	"	1055	42302	"	2	X	X	X	X			
CELL 9B	"	1041	42303	"	2	X	X	X	X			
CELL 11F	"	1120	42304	"	2	X	X	X	X			
CELL 12G	"	1135	42305	"	2	X	X	X	X			
CELL 13H	"	1145	42306	"	2	X	X	X	X			

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Jeff Blagg	7/5/07	0720	Dawn C. Aguirre	7/5/07	0720
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

ENVIROTECH INC.

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Farmington, New Mexico 87401
(505) 632-0615

Sample Receipt	Y	N	N/A
Received Intact	X		
Cool - Ice/Blue Ice	X		

san juan reproduction 578-129

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EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / JFJ Landfarm	Project #:	94034-010
Sample ID:	Cell 13H	Date Reported:	07-13-07
Laboratory Number:	42306	Date Sampled:	07-03-07
Chain of Custody No:	2949	Date Received:	07-05-07
Sample Matrix:	Soil	Date Extracted:	07-10-07
Preservative:	Cool	Date Analyzed:	07-13-07
Condition:	Cool & Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm**

Analyst

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / JFJ Landfarm	Project #:	94034-010
Sample ID:	Cell 12G	Date Reported:	07-13-07
Laboratory Number:	42305	Date Sampled:	07-03-07
Chain of Custody No:	2949	Date Received:	07-05-07
Sample Matrix:	Soil	Date Extracted:	07-10-07
Preservative:	Cool	Date Analyzed:	07-13-07
Condition:	Cool & Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / JFJ Landfarm	Project #:	94034-010
Sample ID:	Cell 11F	Date Reported:	07-13-07
Laboratory Number:	42304	Date Sampled:	07-03-07
Chain of Custody No:	2949	Date Received:	07-05-07
Sample Matrix:	Soil	Date Extracted:	07-10-07
Preservative:	Cool	Date Analyzed:	07-13-07
Condition:	Cool & Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm**

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EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / JFJ Landfarm	Project #:	94034-010
Sample ID:	Cell 9B	Date Reported:	07-13-07
Laboratory Number:	42303	Date Sampled:	07-03-07
Chain of Custody No:	2949	Date Received:	07-05-07
Sample Matrix:	Soil	Date Extracted:	07-10-07
Preservative:	Cool	Date Analyzed:	07-13-07
Condition:	Cool & Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / JFJ Landfarm	Project #:	94034-010
Sample ID:	Cell 8F	Date Reported:	07-13-07
Laboratory Number:	42302	Date Sampled:	07-03-07
Chain of Custody No:	2949	Date Received:	07-05-07
Sample Matrix:	Soil	Date Extracted:	07-10-07
Preservative:	Cool	Date Analyzed:	07-13-07
Condition:	Cool & Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / JFJ Landfarm	Project #:	94034-010
Sample ID:	Cell 7H	Date Reported:	07-13-07
Laboratory Number:	42301	Date Sampled:	07-03-07
Chain of Custody No:	2949	Date Received:	07-05-07
Sample Matrix:	Soil	Date Extracted:	07-10-07
Preservative:	Cool	Date Analyzed:	07-13-07
Condition:	Cool & Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / JFJ Landfarm	Project #:	94034-010
Sample ID:	Cell 4F	Date Reported:	07-13-07
Laboratory Number:	42300	Date Sampled:	07-03-07
Chain of Custody No:	2949	Date Received:	07-05-07
Sample Matrix:	Soil	Date Extracted:	07-10-07
Preservative:	Cool	Date Analyzed:	07-13-07
Condition:	Cool & Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / JFJ Landfarm	Project #:	94034-010
Sample ID:	Cell 3D	Date Reported:	07-13-07
Laboratory Number:	42299	Date Sampled:	07-03-07
Chain of Custody No:	2949	Date Received:	07-05-07
Sample Matrix:	Soil	Date Extracted:	07-10-07
Preservative:	Cool	Date Analyzed:	07-13-07
Condition:	Cool & Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / JFJ Landfarm	Project #:	94034-010
Sample ID:	Cell 2A	Date Reported:	07-13-07
Laboratory Number:	42298	Date Sampled:	07-03-07
Chain of Custody No:	2949	Date Received:	07-05-07
Sample Matrix:	Soil	Date Extracted:	07-10-07
Preservative:	Cool	Date Analyzed:	07-13-07
Condition:	Cool & Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 13H	Date Reported:	07-13-07
Laboratory Number:	42306	Date Sampled:	07-03-07
Chain of Custody:	2949	Date Received:	07-05-07
Sample Matrix:	Soil	Date Analyzed:	07-13-07
Preservative:	Cool	Date Extracted:	07-10-07
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**ND**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**97.0 %**
	1,4-difluorobenzene	**97.0 %**
	Bromochlorobenzene	**97.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 12G	Date Reported:	07-13-07
Laboratory Number:	42305	Date Sampled:	07-03-07
Chain of Custody:	2949	Date Received:	07-05-07
Sample Matrix:	Soil	Date Analyzed:	07-13-07
Preservative:	Cool	Date Extracted:	07-10-07
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**ND**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**97.0 %**
	1,4-difluorobenzene	**97.0 %**
	Bromochlorobenzene	**97.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 11F	Date Reported:	07-13-07
Laboratory Number:	42304	Date Sampled:	07-03-07
Chain of Custody:	2949	Date Received:	07-05-07
Sample Matrix:	Soil	Date Analyzed:	07-13-07
Preservative:	Cool	Date Extracted:	07-10-07
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**ND**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**98.0 %**
	1,4-difluorobenzene	**98.0 %**
	Bromochlorobenzene	**98.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm**

Analyst

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 9B	Date Reported:	07-13-07
Laboratory Number:	42303	Date Sampled:	07-03-07
Chain of Custody:	2949	Date Received:	07-05-07
Sample Matrix:	Soil	Date Analyzed:	07-13-07
Preservative:	Cool	Date Extracted:	07-10-07
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**ND**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**97.0 %**
	1,4-difluorobenzene	**97.0 %**
	Bromochlorobenzene	**97.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm**

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EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 8F	Date Reported:	07-13-07
Laboratory Number:	42302	Date Sampled:	07-03-07
Chain of Custody:	2949	Date Received:	07-05-07
Sample Matrix:	Soil	Date Analyzed:	07-13-07
Preservative:	Cool	Date Extracted:	07-10-07
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**ND**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**98.0 %**
	1,4-difluorobenzene	**98.0 %**
	Bromochlorobenzene	**98.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 4F	Date Reported:	07-13-07
Laboratory Number:	42300	Date Sampled:	07-03-07
Chain of Custody:	2949	Date Received:	07-05-07
Sample Matrix:	Soil	Date Analyzed:	07-13-07
Preservative:	Cool	Date Extracted:	07-10-07
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**ND**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**99.0 %**
	1,4-difluorobenzene	**99.0 %**
	Bromochlorobenzene	**99.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 3D	Date Reported:	07-13-07
Laboratory Number:	42299	Date Sampled:	07-03-07
Chain of Custody:	2949	Date Received:	07-05-07
Sample Matrix:	Soil	Date Analyzed:	07-13-07
Preservative:	Cool	Date Extracted:	07-10-07
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**ND**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**97.0 %**
	1,4-difluorobenzene	**97.0 %**
	Bromochlorobenzene	**97.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 2A	Date Reported:	07-13-07
Laboratory Number:	42298	Date Sampled:	07-03-07
Chain of Custody:	2949	Date Received:	07-05-07
Sample Matrix:	Soil	Date Analyzed:	07-13-07
Preservative:	Cool	Date Extracted:	07-10-07
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**ND**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**98.0 %**
	1,4-difluorobenzene	**98.0 %**
	Bromochlorobenzene	**98.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

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EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 7H	Date Reported:	07-13-07
Laboratory Number:	42301	Date Sampled:	07-03-07
Chain of Custody:	2949	Date Received:	07-05-07
Sample Matrix:	Soil	Date Analyzed:	07-13-07
Preservative:	Cool	Date Extracted:	07-10-07
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**ND**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**97.0 %**
	1,4-difluorobenzene	**97.0 %**
	Bromochlorobenzene	**97.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW.

TRACE METAL ANALYSIS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 13H	Date Reported:	07-12-07
Laboratory Number:	42306	Date Sampled:	07-03-07
Chain of Custody:	2949	Date Received:	07-05-07
Sample Matrix:	Soil	Date Analyzed:	07-12-07
Preservative:	Cool	Date Digested:	07-10-07
Condition:	Intact	Analysis Needed:	Total Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Arsenic	**ND**	**0.001**	**5.0**
Barium	**0.483**	**0.001**	**100**
Cadmium	**ND**	**0.001**	**1.0**
Chromium	**0.628**	**0.001**	**5.0**
Lead	**0.121**	**0.001**	**5.0**
Mercury	**ND**	**0.001**	**0.2**
Selenium	**ND**	**0.001**	**1.0**
Silver	**ND**	**0.001**	**5.0**

ND - Parameter not detected at the stated detection limit.

References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils. SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision Spectroscopy, SW-846, USEPA, December 1996.

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, August 24, 1998.

Comments: **JFJ Landfarm**

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TRACE METAL ANALYSIS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 12G	Date Reported:	07-12-07
Laboratory Number:	42305	Date Sampled:	07-03-07
Chain of Custody:	2949	Date Received:	07-05-07
Sample Matrix:	Soil	Date Analyzed:	07-12-07
Preservative:	Cool	Date Digested:	07-10-07
Condition:	Intact	Analysis Needed:	Total Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Arsenic	**0.016**	**0.001**	**5.0**
Barium	**2.68**	**0.001**	**100**
Cadmium	**ND**	**0.001**	**1.0**
Chromium	**0.600**	**0.001**	**5.0**
Lead	**0.171**	**0.001**	**5.0**
Mercury	**ND**	**0.001**	**0.2**
Selenium	**ND**	**0.001**	**1.0**
Silver	**ND**	**0.001**	**5.0**

ND - Parameter not detected at the stated detection limit.

References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils. SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision Spectroscopy, SW-846, USEPA, December 1996.

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, August 24, 1998.

Comments: **JFJ Landfarm**

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TRACE METAL ANALYSIS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 11F	Date Reported:	07-12-07
Laboratory Number:	42304	Date Sampled:	07-03-07
Chain of Custody:	2949	Date Received:	07-05-07
Sample Matrix:	Soil	Date Analyzed:	07-12-07
Preservative:	Cool	Date Digested:	07-10-07
Condition:	Intact	Analysis Needed:	Total Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Arsenic	**0.029**	**0.001**	**5.0**
Barium	**0.817**	**0.001**	**100**
Cadmium	**ND**	**0.001**	**1.0**
Chromium	**0.553**	**0.001**	**5.0**
Lead	**0.321**	**0.001**	**5.0**
Mercury	**ND**	**0.001**	**0.2**
Selenium	**ND**	**0.001**	**1.0**
Silver	**ND**	**0.001**	**5.0**

ND - Parameter not detected at the stated detection limit.

References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils. SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision Spectroscopy, SW-846, USEPA, December 1996.

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, August 24, 1998.

Comments: **JFJ Landfarm**

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TRACE METAL ANALYSIS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 9B	Date Reported:	07-12-07
Laboratory Number:	42303	Date Sampled:	07-03-07
Chain of Custody:	2949	Date Received:	07-05-07
Sample Matrix:	Soil	Date Analyzed:	07-12-07
Preservative:	Cool	Date Digested:	07-10-07
Condition:	Intact	Analysis Needed:	Total Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Arsenic	**0.028**	**0.001**	**5.0**
Barium	**1.20**	**0.001**	**100**
Cadmium	**ND**	**0.001**	**1.0**
Chromium	**0.516**	**0.001**	**5.0**
Lead	**0.220**	**0.001**	**5.0**
Mercury	**ND**	**0.001**	**0.2**
Selenium	**ND**	**0.001**	**1.0**
Silver	**ND**	**0.001**	**5.0**

ND - Parameter not detected at the stated detection limit.

References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils. SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision Spectroscopy, SW-846, USEPA, December 1996.

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, August 24, 1998.

Comments: **JFJ Landfarm**

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TRACE METAL ANALYSIS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 8F	Date Reported:	07-12-07
Laboratory Number:	42302	Date Sampled:	07-03-07
Chain of Custody:	2949	Date Received:	07-05-07
Sample Matrix:	Soil	Date Analyzed:	07-12-07
Preservative:	Cool	Date Digested:	07-10-07
Condition:	Intact	Analysis Needed:	Total Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Arsenic	**0.025**	**0.001**	**5.0**
Barium	**4.48**	**0.001**	**100**
Cadmium	**ND**	**0.001**	**1.0**
Chromium	**0.454**	**0.001**	**5.0**
Lead	**0.185**	**0.001**	**5.0**
Mercury	**ND**	**0.001**	**0.2**
Selenium	**ND**	**0.001**	**1.0**
Silver	**ND**	**0.001**	**5.0**

ND - Parameter not detected at the stated detection limit.

References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils. SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision Spectroscopy, SW-846, USEPA, December 1996.

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, August 24, 1998.

Comments: **JFJ Landfarm**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 7H	Date Reported:	07-12-07
Laboratory Number:	42301	Date Sampled:	07-03-07
Chain of Custody:	2949	Date Received:	07-05-07
Sample Matrix:	Soil	Date Analyzed:	07-12-07
Preservative:	Cool	Date Digested:	07-10-07
Condition:	Intact	Analysis Needed:	Total Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Arsenic	**0.044**	**0.001**	**5.0**
Barium	**1.40**	**0.001**	**100**
Cadmium	**ND**	**0.001**	**1.0**
Chromium	**0.568**	**0.001**	**5.0**
Lead	**0.327**	**0.001**	**5.0**
Mercury	**ND**	**0.001**	**0.2**
Selenium	**ND**	**0.001**	**1.0**
Silver	**ND**	**0.001**	**5.0**

ND - Parameter not detected at the stated detection limit.

References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils. SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision Spectroscopy, SW-846, USEPA, December 1996.

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, August 24, 1998.

Comments: **JFJ Landfarm**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 4F	Date Reported:	07-12-07
Laboratory Number:	42300	Date Sampled:	07-03-07
Chain of Custody:	2949	Date Received:	07-05-07
Sample Matrix:	Soil	Date Analyzed:	07-12-07
Preservative:	Cool	Date Digested:	07-10-07
Condition:	Intact	Analysis Needed:	Total Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Arsenic	**0.191**	**0.001**	**5.0**
Barium	**0.431**	**0.001**	**100**
Cadmium	**ND**	**0.001**	**1.0**
Chromium	**0.383**	**0.001**	**5.0**
Lead	**0.402**	**0.001**	**5.0**
Mercury	**ND**	**0.001**	**0.2**
Selenium	**ND**	**0.001**	**1.0**
Silver	**ND**	**0.001**	**5.0**

ND - Parameter not detected at the stated detection limit.

References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils. SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision Spectroscopy, SW-846, USEPA, December 1996.

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, August 24, 1998.

Comments: **JFJ Landfarm**

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TRACE METAL ANALYSIS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 3D	Date Reported:	07-12-07
Laboratory Number:	42299	Date Sampled:	07-03-07
Chain of Custody:	2949	Date Received:	07-05-07
Sample Matrix:	Soil	Date Analyzed:	07-12-07
Preservative:	Cool	Date Digested:	07-10-07
Condition:	Intact	Analysis Needed:	Total Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Arsenic	**0.147**	**0.001**	**5.0**
Barium	**0.415**	**0.001**	**100**
Cadmium	**ND**	**0.001**	**1.0**
Chromium	**0.806**	**0.001**	**5.0**
Lead	**0.345**	**0.001**	**5.0**
Mercury	**ND**	**0.001**	**0.2**
Selenium	**ND**	**0.001**	**1.0**
Silver	**ND**	**0.001**	**5.0**

ND - Parameter not detected at the stated detection limit.

References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils. SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision Spectroscopy, SW-846, USEPA, December 1996.

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, August 24, 1998.

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 2A	Date Reported:	07-12-07
Laboratory Number:	42298	Date Sampled:	07-03-07
Chain of Custody:	2949	Date Received:	07-05-07
Sample Matrix:	Soil	Date Analyzed:	07-12-07
Preservative:	Cool	Date Digested:	07-10-07
Condition:	Intact	Analysis Needed:	Total Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Arsenic	**0.151**	**0.001**	**5.0**
Barium	**3.06**	**0.001**	**100**
Cadmium	**0.003**	**0.001**	**1.0**
Chromium	**0.510**	**0.001**	**5.0**
Lead	**0.289**	**0.001**	**5.0**
Mercury	**ND**	**0.001**	**0.2**
Selenium	**ND**	**0.001**	**1.0**
Silver	**ND**	**0.001**	**5.0**

ND - Parameter not detected at the stated detection limit.

References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils. SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision Spectroscopy, SW-846, USEPA, December 1996.

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, August 24, 1998.

Comments: **JFJ Landfarm**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 13H	Date Reported:	07-13-07
Laboratory Number:	42306	Date Sampled:	07-03-07
Chain of Custody:	2949	Date Received:	07-05-07
Sample Matrix:	Soil Extract	Date Extracted:	07-12-07
Preservative:	Cool	Date Analyzed:	07-13-07
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		
pH	**9.46**	s.u.		
Conductivity @ 25° C	**159**	umhos/cm		
Total Dissolved Solids @ 180C	**140**	mg/L		
Total Dissolved Solids (Calc)	**142**	mg/L		
SAR	**1.4**	ratio		
Total Alkalinity as CaCO3	**54.0**	mg/L		
Total Hardness as CaCO3	**56.6**	mg/L		
Bicarbonate as HCO3	**54.0**	mg/L	0.89	meq/L
Carbonate as CO3	**<0.1**	mg/L	0.00	meq/L
Hydroxide as OH	**<0.1**	mg/L	0.00	meq/L
Nitrate Nitrogen	**5.77**	mg/L	0.09	meq/L
Nitrite Nitrogen	**<0.01**	mg/L	0.00	meq/L
Chloride	**3.91**	mg/L	0.11	meq/L
Fluoride	**2.78**	mg/L	0.15	meq/L
Phosphate	**0.03**	mg/L	0.00	meq/L
Sulfate	**52.7**	mg/L	1.10	meq/L
Iron	**0.029**	mg/L	0.00	meq/L
Calcium	**2.00**	mg/L	0.10	meq/L
Magnesium	**12.6**	mg/L	1.04	meq/L
Potassium	**5.04**	mg/L	0.13	meq/L
Sodium	**24.5**	mg/L	1.07	meq/L
Cations			2.33	meq/L
Anions			2.33	meq/L
Cation/Anion Difference			**0.02%**	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **JFJ Landfarm**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 12G	Date Reported:	07-13-07
Laboratory Number:	42305	Date Sampled:	07-03-07
Chain of Custody:	2949	Date Received:	07-05-07
Sample Matrix:	Soil Extract	Date Extracted:	07-12-07
Preservative:	Cool	Date Analyzed:	07-13-07
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		
pH	8.72	s.u.		
Conductivity @ 25° C	215	umhos/cm		
Total Dissolved Solids @ 180C	130	mg/L		
Total Dissolved Solids (Calc)	122	mg/L		
SAR	1.2	ratio		
Total Alkalinity as CaCO3	41.0	mg/L		
Total Hardness as CaCO3	51.1	mg/L		
Bicarbonate as HCO3	41.0	mg/L	0.67	meq/L
Carbonate as CO3	<0.1	mg/L	0.00	meq/L
Hydroxide as OH	<0.1	mg/L	0.00	meq/L
Nitrate Nitrogen	9.88	mg/L	0.16	meq/L
Nitrite Nitrogen	<0.01	mg/L	0.00	meq/L
Chloride	19.0	mg/L	0.54	meq/L
Fluoride	0.71	mg/L	0.04	meq/L
Phosphate	0.07	mg/L	0.00	meq/L
Sulfate	26.2	mg/L	0.55	meq/L
Iron	<0.001	mg/L	0.00	meq/L
Calcium	17.5	mg/L	0.87	meq/L
Magnesium	1.80	mg/L	0.15	meq/L
Potassium	1.67	mg/L	0.04	meq/L
Sodium	20.4	mg/L	0.89	meq/L
Cations			1.95	meq/L
Anions			1.95	meq/L
Cation/Anion Difference			0.05%	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **JFJ Landfarm**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 11F	Date Reported:	07-13-07
Laboratory Number:	42304	Date Sampled:	07-03-07
Chain of Custody:	2949	Date Received:	07-05-07
Sample Matrix:	Soil Extract	Date Extracted:	07-12-07
Preservative:	Cool	Date Analyzed:	07-13-07
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		
pH	**9.40**	s.u.		
Conductivity @ 25° C	**117**	umhos/cm		
Total Dissolved Solids @ 180C	**90.0**	mg/L		
Total Dissolved Solids (Calc)	**95.6**	mg/L		
SAR	**2.3**	ratio		
Total Alkalinity as CaCO3	**52.0**	mg/L		
Total Hardness as CaCO3	**19.4**	mg/L		
Bicarbonate as HCO3	**52.0**	mg/L	0.85	meq/L
Carbonate as CO3	**<0.1**	mg/L	0.00	meq/L
Hydroxide as OH	**<0.1**	mg/L	0.00	meq/L
Nitrate Nitrogen	**20.8**	mg/L	0.34	meq/L
Nitrite Nitrogen	**<0.01**	mg/L	0.00	meq/L
Chloride	**0.40**	mg/L	0.01	meq/L
Fluoride	**4.92**	mg/L	0.26	meq/L
Phosphate	**0.04**	mg/L	0.00	meq/L
Sulfate	**3.40**	mg/L	0.07	meq/L
Iron	**0.005**	mg/L	0.00	meq/L
Calcium	**4.22**	mg/L	0.21	meq/L
Magnesium	**2.16**	mg/L	0.18	meq/L
Potassium	**4.37**	mg/L	0.11	meq/L
Sodium	**23.7**	mg/L	1.03	meq/L
Cations			1.53	meq/L
Anions			1.53	meq/L
Cation/Anion Difference			**0.07%**	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **JFJ Landfarm**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 9B	Date Reported:	07-13-07
Laboratory Number:	42303	Date Sampled:	07-03-07
Chain of Custody:	2949	Date Received:	07-05-07
Sample Matrix:	Soil Extract	Date Extracted:	07-12-07
Preservative:	Cool	Date Analyzed:	07-13-07
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		
pH	**8.04**	s.u.		
Conductivity @ 25° C	**2,710**	umhos/cm		
Total Dissolved Solids @ 180C	**2,170**	mg/L		
Total Dissolved Solids (Calc)	**2,200**	mg/L		
SAR	**3.2**	ratio		
Total Alkalinity as CaCO3	**32.0**	mg/L		
Total Hardness as CaCO3	**1,070**	mg/L		
Bicarbonate as HCO3	**32.0**	mg/L	0.52	meq/L
Carbonate as CO3	**<0.1**	mg/L	0.00	meq/L
Hydroxide as OH	**<0.1**	mg/L	0.00	meq/L
Nitrate Nitrogen	**81.0**	mg/L	1.31	meq/L
Nitrite Nitrogen	**<0.01**	mg/L	0.00	meq/L
Chloride	**38.6**	mg/L	1.09	meq/L
Fluoride	**0.44**	mg/L	0.02	meq/L
Phosphate	**0.12**	mg/L	0.00	meq/L
Sulfate	**1,400**	mg/L	29.15	meq/L
Iron	**<0.001**	mg/L	0.00	meq/L
Calcium	**383**	mg/L	19.11	meq/L
Magnesium	**28.1**	mg/L	2.31	meq/L
Potassium	**5.78**	mg/L	0.15	meq/L
Sodium	**241**	mg/L	10.50	meq/L
Cations			32.07	meq/L
Anions			32.09	meq/L
Cation/Anion Difference			**0.07%**	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **JFJ Landfarm**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 8F	Date Reported:	07-13-07
Laboratory Number:	42302	Date Sampled:	07-03-07
Chain of Custody:	2949	Date Received:	07-05-07
Sample Matrix:	Soil Extract	Date Extracted:	07-12-07
Preservative:	Cool	Date Analyzed:	07-13-07
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		
pH	**8.53**	s.u.		
Conductivity @ 25° C	**326**	umhos/cm		
Total Dissolved Solids @ 180C	**220**	mg/L		
Total Dissolved Solids (Calc)	**212**	mg/L		
SAR	**0.7**	ratio		
Total Alkalinity as CaCO3	**32.0**	mg/L		
Total Hardness as CaCO3	**115**	mg/L		
Bicarbonate as HCO3	**32.0**	mg/L	0.52	meq/L
Carbonate as CO3	**<0.1**	mg/L	0.00	meq/L
Hydroxide as OH	**<0.1**	mg/L	0.00	meq/L
Nitrate Nitrogen	**29.2**	mg/L	0.47	meq/L
Nitrite Nitrogen	**<0.01**	mg/L	0.00	meq/L
Chloride	**45.9**	mg/L	1.29	meq/L
Fluoride	**0.27**	mg/L	0.01	meq/L
Phosphate	**0.10**	mg/L	0.00	meq/L
Sulfate	**51.0**	mg/L	1.06	meq/L
Iron	**<0.001**	mg/L	0.00	meq/L
Calcium	**18.2**	mg/L	0.91	meq/L
Magnesium	**16.9**	mg/L	1.39	meq/L
Potassium	**14.3**	mg/L	0.37	meq/L
Sodium	**16.2**	mg/L	0.71	meq/L
Cations			3.37	meq/L
Anions			3.37	meq/L
Cation/Anion Difference			**0.02%**	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **JFJ Landfarm**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 7H	Date Reported:	07-13-07
Laboratory Number:	42301	Date Sampled:	07-03-07
Chain of Custody:	2949	Date Received:	07-05-07
Sample Matrix:	Soil Extract	Date Extracted:	07-12-07
Preservative:	Cool	Date Analyzed:	07-13-07
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		
pH	**8.15**	s.u.		
Conductivity @ 25° C	**546**	umhos/cm		
Total Dissolved Solids @ 180C	**370**	mg/L		
Total Dissolved Solids (Calc)	**367**	mg/L		
SAR	**0.8**	ratio		
Total Alkalinity as CaCO3	**33.0**	mg/L		
Total Hardness as CaCO3	**203**	mg/L		
Bicarbonate as HCO3	**33.0**	mg/L	0.54	meq/L
Carbonate as CO3	**<0.1**	mg/L	0.00	meq/L
Hydroxide as OH	**<0.1**	mg/L	0.00	meq/L
Nitrate Nitrogen	**5.3**	mg/L	0.09	meq/L
Nitrite Nitrogen	**<0.01**	mg/L	0.00	meq/L
Chloride	**8.05**	mg/L	0.23	meq/L
Fluoride	**0.46**	mg/L	0.02	meq/L
Phosphate	**<0.01**	mg/L	0.00	meq/L
Sulfate	**228**	mg/L	4.75	meq/L
Iron	**0.011**	mg/L	0.00	meq/L
Calcium	**36.8**	mg/L	1.84	meq/L
Magnesium	**27.2**	mg/L	2.24	meq/L
Potassium	**14.6**	mg/L	0.37	meq/L
Sodium	**27.0**	mg/L	1.17	meq/L
Cations			5.62	meq/L
Anions			5.62	meq/L
Cation/Anion Difference			**0.03%**	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **JFJ Landfarm**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 4F	Date Reported:	07-13-07
Laboratory Number:	42300	Date Sampled:	07-03-07
Chain of Custody:	2949	Date Received:	07-05-07
Sample Matrix:	Soil Extract	Date Extracted:	07-12-07
Preservative:	Cool	Date Analyzed:	07-13-07
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		
pH	**7.95**	s.u.		
Conductivity @ 25° C	**3,250**	umhos/cm		
Total Dissolved Solids @ 180C	**1,930**	mg/L		
Total Dissolved Solids (Calc)	**1,960**	mg/L		
SAR	**5.4**	ratio		
Total Alkalinity as CaCO3	**25.0**	mg/L		
Total Hardness as CaCO3	**622**	mg/L		
Bicarbonate as HCO3	**25.0**	mg/L	0.41	meq/L
Carbonate as CO3	**<0.1**	mg/L	0.00	meq/L
Hydroxide as OH	**<0.1**	mg/L	0.00	meq/L
Nitrate Nitrogen	**64.8**	mg/L	1.05	meq/L
Nitrite Nitrogen	**<0.01**	mg/L	0.00	meq/L
Chloride	**28.6**	mg/L	0.81	meq/L
Fluoride	**0.58**	mg/L	0.03	meq/L
Phosphate	**0.06**	mg/L	0.00	meq/L
Sulfate	**1,250**	mg/L	26.03	meq/L
Iron	**<0.001**	mg/L	0.00	meq/L
Calcium	**125**	mg/L	6.24	meq/L
Magnesium	**75.6**	mg/L	6.22	meq/L
Potassium	**91.2**	mg/L	2.33	meq/L
Sodium	**312**	mg/L	13.57	meq/L
Cations			28.36	meq/L
Anions			28.32	meq/L
Cation/Anion Difference			**0.16%**	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **JFJ Landfarm**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 3D	Date Reported:	07-13-07
Laboratory Number:	42299	Date Sampled:	07-03-07
Chain of Custody:	2949	Date Received:	07-05-07
Sample Matrix:	Soil Extract	Date Extracted:	07-12-07
Preservative:	Cool	Date Analyzed:	07-13-07
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		
pH	**6.64**	s.u.		
Conductivity @ 25° C	**2,780**	umhos/cm		
Total Dissolved Solids @ 180C	**1,580**	mg/L		
Total Dissolved Solids (Calc)	**1,580**	mg/L		
SAR	**4.4**	ratio		
Total Alkalinity as CaCO3	**28.0**	mg/L		
Total Hardness as CaCO3	**567**	mg/L		
Bicarbonate as HCO3	**28.0**	mg/L	0.46	meq/L
Carbonate as CO3	**<0.1**	mg/L	0.00	meq/L
Hydroxide as OH	**<0.1**	mg/L	0.00	meq/L
Nitrate Nitrogen	**33.6**	mg/L	0.54	meq/L
Nitrite Nitrogen	**<0.01**	mg/L	0.00	meq/L
Chloride	**5.28**	mg/L	0.15	meq/L
Fluoride	**2.94**	mg/L	0.15	meq/L
Phosphate	**0.02**	mg/L	0.00	meq/L
Sulfate	**1,050**	mg/L	21.86	meq/L
Iron	**0.001**	mg/L	0.00	meq/L
Calcium	**93.0**	mg/L	4.64	meq/L
Magnesium	**81.7**	mg/L	6.72	meq/L
Potassium	**53.8**	mg/L	1.38	meq/L
Sodium	**240**	mg/L	10.44	meq/L
Cations			23.18	meq/L
Anions			23.17	meq/L
Cation/Anion Difference			**0.06%**	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **JFJ Landfarm**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 2A	Date Reported:	07-13-07
Laboratory Number:	42298	Date Sampled:	07-03-07
Chain of Custody:	2949	Date Received:	07-05-07
Sample Matrix:	Soil Extract	Date Extracted:	07-12-07
Preservative:	Cool	Date Analyzed:	07-13-07
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		
pH	**8.28**	s.u.		
Conductivity @ 25° C	**816**	umhos/cm		
Total Dissolved Solids @ 180C	**580**	mg/L		
Total Dissolved Solids (Calc)	**529**	mg/L		
SAR	**0.7**	ratio		
Total Alkalinity as CaCO3	**36.0**	mg/L		
Total Hardness as CaCO3	**350**	mg/L		
Bicarbonate as HCO3	**36.0**	mg/L	0.59	meq/L
Carbonate as CO3	**<0.1**	mg/L	0.00	meq/L
Hydroxide as OH	**<0.1**	mg/L	0.00	meq/L
Nitrate Nitrogen	**0.06**	mg/L	0.00	meq/L
Nitrite Nitrogen	**<0.01**	mg/L	0.00	meq/L
Chloride	**7.30**	mg/L	0.21	meq/L
Fluoride	**2.36**	mg/L	0.12	meq/L
Phosphate	**0.05**	mg/L	0.00	meq/L
Sulfate	**355**	mg/L	7.39	meq/L
Iron	**<0.001**	mg/L	0.00	meq/L
Calcium	**68.4**	mg/L	3.41	meq/L
Magnesium	**43.7**	mg/L	3.60	meq/L
Potassium	**0.66**	mg/L	0.02	meq/L
Sodium	**29.8**	mg/L	1.30	meq/L
Cations			8.32	meq/L
Anions			8.31	meq/L
Cation/Anion Difference			**0.10%**	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **JFJ Landfarm**

Analyst

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BLAGG ENGINEERING, INC.
P.O. Box 87, Bloomfield, New Mexico 87413
Phone: (505)632-1199 Fax: (505)632-3903

2007 FEB 8 AM 11 22

February 6, 2007

Mr. Brad Jones
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Re: JFJ Waste Management Facility: Permit NM-01-0010B
Quarterly Report on Treatment Zone Monitoring

Dear Mr. Jones:

On behalf of JFJ Landfarm L.L.C., Blagg Engineering, Inc. (BEI) is submitting quarterly treatment zone monitoring test results for the JFJ Waste Management Facility pursuant to Permit NM-01-0010B. This report is for sampling conducted on January 30, 2007.

Sampling protocol included collection of native soils at a depth of 2'- 3' below the treatment zone in each cell using a hand auger. Samples were submitted for analytical testing that included total petroleum hydrocarbons (TPH) by U.S. EPA Method 8015B and volatile hydrocarbons (BTEX) by U.S. EPA Method 8021B.

With this quarterly monitoring samples were collect from active cell units 2c, 3f, 4g, 7a, 8b, 9a, 11e, 12e and 13d (Figure 1). There were no test results in excess of standards. Analytical reports are attached. The facility permit requires quarterly testing for TPH and BTEX and annual testing for metals and cation/anions.

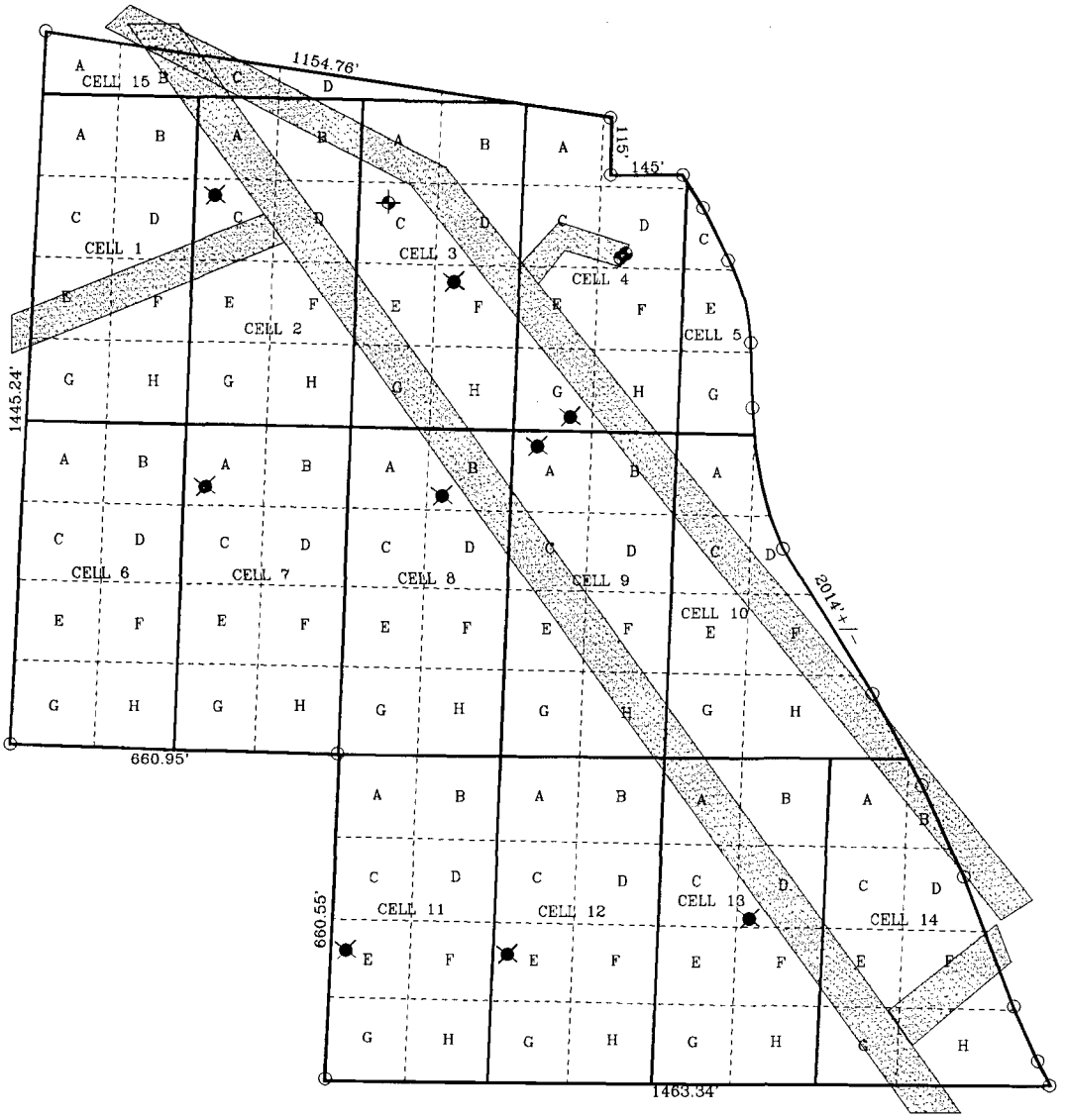
Questions or comments concerning this transmittal may be directed to myself at (505)632-1199 or Jake Hatcher with JFJ Landfarm L.L.C. at (505)632-1786.

Respectfully submitted:
Blagg Engineering, Inc.

Jeffrey C. Blagg, P.E.
President

Attachments: Site Diagram
Analytical Test Reports

cc: Brandon Powell, NMOCD Aztec District Office
Jake Hatcher, JFJ Farmington



JFJ LANDFARM FACILITY
TREATMENT ZONE MONITORING

BLAGG ENGINEERING, INC.

DATE: 1/30/2007 | FIGURE 1 | BY: JCB

P.O. BOX 87, BLOOMFIELD, NM
PHONE: (505)632-1199

CHAIN OF CUSTODY RECORD

2047

Client / Project Name	Project Location	ANALYSIS / PARAMETERS
BLAGG	JFJ LANDFARM	

Sampler:	Client No.	
JEFF BLAGG	94034-010	

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TPH 8015	BTEX 8021					Remarks
CELL 2C	1/30/07	1240	39881	SOIL	1	X	X					
CELL 3F	"	1300	39882	"	1	X	X					
CELL 4G	"	1315	39883	"	1	X	X					
CELL 7A	"	1435	39884	"	1	X	X					
CELL 8B	"	1420	39885	"	1	X	X					
CELL 9A	"	1345	39886	"	1	X	X					
CELL 11E	"	1450	39887	"	1	X	X					
CELL 12E	"	1515	39888	"	1	X	X					
CELL 13D	"	1545	39889	"	1	X	X					

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Jeff Blagg	1/31/07	1003	Dawn C. Aguirre	1/31/07	1003
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

ENVIROTECH INC.

5796 U.S. Highway 64
Farmington, New Mexico 87401
(505) 632-0615

Sample Receipt	Y	N	N/A
Received Intact	Y		
Cool - Ice/Blue Ice	Y		

san juan reproduction 578-129

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg	Project #:	94034-010
Sample ID:	Cell 2C	Date Reported:	02-02-07
Laboratory Number:	39881	Date Sampled:	01-30-07
Chain of Custody No:	2047	Date Received:	01-31-07
Sample Matrix:	Soil	Date Extracted:	02-01-07
Preservative:	Cool	Date Analyzed:	02-01-07
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg	Project #:	94034-010
Sample ID:	Cell 3F	Date Reported:	02-02-07
Laboratory Number:	39882	Date Sampled:	01-30-07
Chain of Custody No:	2047	Date Received:	01-31-07
Sample Matrix:	Soil	Date Extracted:	02-01-07
Preservative:	Cool	Date Analyzed:	02-01-07
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg	Project #:	94034-010
Sample ID:	Cell 4G	Date Reported:	02-02-07
Laboratory Number:	39883	Date Sampled:	01-30-07
Chain of Custody No:	2047	Date Received:	01-31-07
Sample Matrix:	Soil	Date Extracted:	02-01-07
Preservative:	Cool	Date Analyzed:	02-01-07
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg	Project #:	94034-010
Sample ID:	Cell 7A	Date Reported:	02-02-07
Laboratory Number:	39884	Date Sampled:	01-30-07
Chain of Custody No:	2047	Date Received:	01-31-07
Sample Matrix:	Soil	Date Extracted:	02-01-07
Preservative:	Cool	Date Analyzed:	02-01-07
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg	Project #:	94034-010
Sample ID:	Cell 8B	Date Reported:	02-02-07
Laboratory Number:	39885	Date Sampled:	01-30-07
Chain of Custody No:	2047	Date Received:	01-31-07
Sample Matrix:	Soil	Date Extracted:	02-01-07
Preservative:	Cool	Date Analyzed:	02-01-07
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg	Project #:	94034-010
Sample ID:	Cell 9A	Date Reported:	02-02-07
Laboratory Number:	39886	Date Sampled:	01-30-07
Chain of Custody No:	2047	Date Received:	01-31-07
Sample Matrix:	Soil	Date Extracted:	02-01-07
Preservative:	Cool	Date Analyzed:	02-01-07
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg	Project #:	94034-010
Sample ID:	Cell 11E	Date Reported:	02-02-07
Laboratory Number:	39887	Date Sampled:	01-30-07
Chain of Custody No:	2047	Date Received:	01-31-07
Sample Matrix:	Soil	Date Extracted:	02-01-07
Preservative:	Cool	Date Analyzed:	02-01-07
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg	Project #:	94034-010
Sample ID:	Cell 12E	Date Reported:	02-02-07
Laboratory Number:	39888	Date Sampled:	01-30-07
Chain of Custody No:	2047	Date Received:	01-31-07
Sample Matrix:	Soil	Date Extracted:	02-01-07
Preservative:	Cool	Date Analyzed:	02-01-07
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg	Project #:	94034-010
Sample ID:	Cell 13D	Date Reported:	02-02-07
Laboratory Number:	39889	Date Sampled:	01-30-07
Chain of Custody No:	2047	Date Received:	01-31-07
Sample Matrix:	Soil	Date Extracted:	02-01-07
Preservative:	Cool	Date Analyzed:	02-01-07
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	02-01-07 QA/QC	Date Reported:	02-02-07
Laboratory Number:	39881	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	02-01-07
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF	C-Cal RF	% Difference	Accept. Range
Gasoline Range C5 - C10	07-11-05	1.0004E+003	1.0014E+003	**0.10%**	**0 - 15%**
Diesel Range C10 - C28	07-11-05	9.9972E+002	1.0017E+003	**0.20%**	**0 - 15%**

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	**ND**	**0.2**
Diesel Range C10 - C28	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	**ND**	**ND**	**0.0%**	**0 - 30%**
Diesel Range C10 - C28	**ND**	**ND**	**0.0%**	**0 - 30%**

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	**ND**	**250**	**250**	**100.0%**	**75 - 125%**
Diesel Range C10 - C28	**ND**	**250**	**250**	**100.0%**	**75 - 125%**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **QA/QC for Samples 39881 - 39890**

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EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg	Project #:	94034-010
Sample ID:	Cell 2C	Date Reported:	02-02-07
Laboratory Number:	39881	Date Sampled:	01-30-07
Chain of Custody:	2047	Date Received:	01-31-07
Sample Matrix:	Soil	Date Analyzed:	02-01-07
Preservative:	Cool	Date Extracted:	02-01-07
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**5.5**	**1.5**
p,m-Xylene	**23.2**	**2.2**
o-Xylene	**16.8**	**1.0**
Total BTEX	**45.5**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**99.0 %**
	1,4-difluorobenzene	**99.0 %**
	Bromochlorobenzene	**99.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg	Project #:	94034-010
Sample ID:	Cell 3F	Date Reported:	02-02-07
Laboratory Number:	39882	Date Sampled:	01-30-07
Chain of Custody:	2047	Date Received:	01-31-07
Sample Matrix:	Soil	Date Analyzed:	02-01-07
Preservative:	Cool	Date Extracted:	02-01-07
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**20.3**	**2.2**
o-Xylene	**8.3**	**1.0**
Total BTEX	**28.6**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**97.0 %**
	1,4-difluorobenzene	**97.0 %**
	Bromochlorobenzene	**97.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg	Project #:	94034-010
Sample ID:	Cell 4G	Date Reported:	02-02-07
Laboratory Number:	39883	Date Sampled:	01-30-07
Chain of Custody:	2047	Date Received:	01-31-07
Sample Matrix:	Soil	Date Analyzed:	02-01-07
Preservative:	Cool	Date Extracted:	02-01-07
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**2.5**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**2.5**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**97.0 %**
	1,4-difluorobenzene	**97.0 %**
	Bromochlorobenzene	**97.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg	Project #:	94034-010
Sample ID:	Cell 7A	Date Reported:	02-02-07
Laboratory Number:	39884	Date Sampled:	01-30-07
Chain of Custody:	2047	Date Received:	01-31-07
Sample Matrix:	Soil	Date Analyzed:	02-01-07
Preservative:	Cool	Date Extracted:	02-01-07
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**ND**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**98.0 %**
	1,4-difluorobenzene	**98.0 %**
	Bromochlorobenzene	**98.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg	Project #:	94034-010
Sample ID:	Cell 8B	Date Reported:	02-02-07
Laboratory Number:	39885	Date Sampled:	01-30-07
Chain of Custody:	2047	Date Received:	01-31-07
Sample Matrix:	Soil	Date Analyzed:	02-01-07
Preservative:	Cool	Date Extracted:	02-01-07
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**ND**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**99.0 %**
	1,4-difluorobenzene	**99.0 %**
	Bromochlorobenzene	**99.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm**

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EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg	Project #:	94034-010
Sample ID:	Cell 9A	Date Reported:	02-02-07
Laboratory Number:	39886	Date Sampled:	01-30-07
Chain of Custody:	2047	Date Received:	01-31-07
Sample Matrix:	Soil	Date Analyzed:	02-01-07
Preservative:	Cool	Date Extracted:	02-01-07
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**ND**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**99.0 %**
	1,4-difluorobenzene	**99.0 %**
	Bromochlorobenzene	**99.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm**

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EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg	Project #:	94034-010
Sample ID:	Cell 11E	Date Reported:	02-02-07
Laboratory Number:	39887	Date Sampled:	01-30-07
Chain of Custody:	2047	Date Received:	01-31-07
Sample Matrix:	Soil	Date Analyzed:	02-01-07
Preservative:	Cool	Date Extracted:	02-01-07
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**ND**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**99.0 %**
	1,4-difluorobenzene	**99.0 %**
	Bromochlorobenzene	**99.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm**

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EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg	Project #:	94034-010
Sample ID:	Cell 12E	Date Reported:	02-02-07
Laboratory Number:	39888	Date Sampled:	01-30-07
Chain of Custody:	2047	Date Received:	01-31-07
Sample Matrix:	Soil	Date Analyzed:	02-01-07
Preservative:	Cool	Date Extracted:	02-01-07
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**ND**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**98.0 %**
	1,4-difluorobenzene	**98.0 %**
	Bromochlorobenzene	**98.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg	Project #:	94034-010
Sample ID:	Cell 13D	Date Reported:	02-02-07
Laboratory Number:	39889	Date Sampled:	01-30-07
Chain of Custody:	2047	Date Received:	01-31-07
Sample Matrix:	Soil	Date Analyzed:	02-01-07
Preservative:	Cool	Date Extracted:	02-01-07
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**ND**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**97.0 %**
	1,4-difluorobenzene	**97.0 %**
	Bromochlorobenzene	**97.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm**

Analyst

Review

5796 U.S. Highway 64 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	02-01-BTEX QA/QC	Date Reported:	02-02-07
Laboratory Number:	39881	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	02-01-07
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF:	C-Cal RF:	%Diff. Accept. Range 0 - 15%	Blank Conc.	Detect. Limit
Benzene	3.4066E+007	3.4134E+007	0.2%	ND	0.2
Toluene	4.7412E+007	4.7507E+007	0.2%	ND	0.2
Ethylbenzene	2.2278E+007	2.2323E+007	0.2%	ND	0.2
p,m-Xylene	9.8835E+007	9.9033E+007	0.2%	ND	0.2
o-Xylene	4.3231E+007	4.3318E+007	0.2%	ND	0.1

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	ND	ND	0.0%	0 - 30%	1.8
Toluene	ND	ND	0.0%	0 - 30%	1.7
Ethylbenzene	5.5	5.5	0.0%	0 - 30%	1.5
p,m-Xylene	23.2	23.1	0.4%	0 - 30%	2.2
o-Xylene	16.8	16.7	0.6%	0 - 30%	1.0

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	50.0	50.0	100.0%	39 - 150
Toluene	ND	50.0	49.9	99.8%	46 - 148
Ethylbenzene	5.5	50.0	55.4	99.8%	32 - 160
p,m-Xylene	23.2	100	123	99.8%	46 - 148
o-Xylene	16.8	50.0	66.7	99.9%	46 - 148

ND - Parameter not detected at the stated detection limit.

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.
Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: **QA/QC for Samples 39881 - 39890**

Analyst

Review

5796 U.S. Highway 64 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

Jones, Brad A., EMNRD

From: Joel Owens [joel.owens@industrialecosystems.com]
Sent: Friday, December 15, 2006 9:08 AM
To: Jones, Brad A., EMNRD
Subject: Request for Closure/Reuse of Biopiles
Attachments: HALL0612027.pdf

IEI Industrial Ecosystems Inc.

#81 CR 3150
Aztec, NM 87410

12/15/06

To: Brad Jones,
New Mexico Oil Conservation Division

From: Joel Owens,
JFJ Land farm L.L.C.
C/O Industrial Ecosystems Inc.

Subject: Request to Reuse Compost Piles in Accordance with Permit NM-01-0010B

In accordance with OCD 711 permit NM-01-0010B, Industrial Ecosystems requests approval from the New Mexico Oil Conservation Division to reuse the following Compost/Bio-piles:

1. Pile # 107 (0612027-04)
2. Pile #59 (0612027-05)
3. Pile # 224 (0612027-13)

Attached you will find the analytical results from Hall.

Thank you,

Joel Owens
Operations Manager
505-632-1782

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

COVER LETTER

Wednesday, December 06, 2006

Joel Owens
Industrial Ecosystems, Inc.
#81 County Road 3150
Aztec, NM 87410

TEL: (505) 632-1782
FAX (505) 334-1003

RE: JFJ Land Farm

Order No.: 0612027

Dear Joel Owens:

Hall Environmental Analysis Laboratory, Inc. received 24 sample(s) on 12/4/2006 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent.

Reporting limits are determined by EPA methodology. No determination of compounds below these (denoted by the ND or < sign) has been made.

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

Sincerely,

Andy Freeman, Business Manager
Nancy McDuffie, Laboratory Manager

NM Lab # NM9425
AZ license # AZ0682
ORELAP Lab # NM100001

Hall Environmental Analysis Laboratory, Inc.

Date: *06-Dec-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	518
Lab Order:	0612027	**Collection Date:**	12/1/2006 9:00:00 AM
Project:	JFJ Land Farm	**Date Received:**	12/4/2006
Lab ID:	0612027-01	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **SCC**
Diesel Range Organics (DRO)	440	50		mg/Kg	5	12/5/2006 10:31:03 PM
Motor Oil Range Organics (MRO)	550	250		mg/Kg	5	12/5/2006 10:31:03 PM
Surr: DNOP	93.6	61.7-135		%REC	5	12/5/2006 10:31:03 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/5/2006 11:28:15 AM
Surr: BFB	107	84-138		%REC	1	12/5/2006 11:28:15 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.050		mg/Kg	1	12/5/2006 11:28:15 AM
Toluene	ND	0.050		mg/Kg	1	12/5/2006 11:28:15 AM
Ethylbenzene	ND	0.050		mg/Kg	1	12/5/2006 11:28:15 AM
Xylenes, Total	ND	0.15		mg/Kg	1	12/5/2006 11:28:15 AM
Surr: 4-Bromofluorobenzene	82.7	68.2-109		%REC	1	12/5/2006 11:28:15 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *06-Dec-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	38
Lab Order:	0612027	**Collection Date:**	12/1/2006 9:55:00 AM
Project:	JFJ Land Farm	**Date Received:**	12/4/2006
Lab ID:	0612027-02	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **SCC**
Diesel Range Organics (DRO)	240	50		mg/Kg	5	12/5/2006 11:06:02 PM
Motor Oil Range Organics (MRO)	400	250		mg/Kg	5	12/5/2006 11:06:02 PM
Surr: DNOP	92.1	61.7-135		%REC	5	12/5/2006 11:06:02 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/5/2006 11:58:20 AM
Surr: BFB	112	84-138		%REC	1	12/5/2006 11:58:20 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.050		mg/Kg	1	12/5/2006 11:58:20 AM
Toluene	ND	0.050		mg/Kg	1	12/5/2006 11:58:20 AM
Ethylbenzene	ND	0.050		mg/Kg	1	12/5/2006 11:58:20 AM
Xylenes, Total	ND	0.15		mg/Kg	1	12/5/2006 11:58:20 AM
Surr: 4-Bromofluorobenzene	84.1	68.2-109		%REC	1	12/5/2006 11:58:20 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *06-Dec-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	67
Lab Order:	0612027	**Collection Date:**	12/1/2006 9:10:00 AM
Project:	JFJ Land Farm	**Date Received:**	12/4/2006
Lab ID:	0612027-03	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	360	50		mg/Kg	5	12/5/2006 11:41:01 PM
Motor Oil Range Organics (MRO)	470	250		mg/Kg	5	12/5/2006 11:41:01 PM
Surr: DNOP	98.6	61.7-135		%REC	5	12/5/2006 11:41:01 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/5/2006 12:28:25 PM
Surr: BFB	108	84-138		%REC	1	12/5/2006 12:28:25 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	12/5/2006 12:28:25 PM
Toluene	ND	0.050		mg/Kg	1	12/5/2006 12:28:25 PM
Ethylbenzene	ND	0.050		mg/Kg	1	12/5/2006 12:28:25 PM
Xylenes, Total	ND	0.15		mg/Kg	1	12/5/2006 12:28:25 PM
Surr: 4-Bromofluorobenzene	82.7	68.2-109		%REC	1	12/5/2006 12:28:25 PM

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank	
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	
	J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level	
	ND	Not Detected at the Reporting Limit	RL	Reporting Limit	
	S	Spike recovery outside accepted recovery limits			

Hall Environmental Analysis Laboratory, Inc.

Date: *06-Dec-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	107
Lab Order:	0612027	**Collection Date:**	12/1/2006 11:50:00 AM
Project:	JFJ Land Farm	**Date Received:**	12/4/2006
Lab ID:	0612027-04	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **SCC**
Diesel Range Organics (DRO)	17	10		mg/Kg	1	12/5/2006 9:21:06 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/5/2006 9:21:06 PM
Surr: DNOP	92.2	61.7-135		%REC	1	12/5/2006 9:21:06 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/5/2006 12:58:25 PM
Surr: BFB	109	84-138		%REC	1	12/5/2006 12:58:25 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.050		mg/Kg	1	12/5/2006 12:58:25 PM
Toluene	ND	0.050		mg/Kg	1	12/5/2006 12:58:25 PM
Ethylbenzene	ND	0.050		mg/Kg	1	12/5/2006 12:58:25 PM
Xylenes, Total	ND	0.15		mg/Kg	1	12/5/2006 12:58:25 PM
Surr: 4-Bromofluorobenzene	83.5	68.2-109		%REC	1	12/5/2006 12:58:25 PM

Qualifiers:				
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
	ND	Not Detected at the Reporting Limit	RL	Reporting Limit
	S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *06-Dec-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	59
Lab Order:	0612027	**Collection Date:**	12/1/2006 9:15:00 AM
Project:	JFJ Land Farm	**Date Received:**	12/4/2006
Lab ID:	0612027-05	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	43	10		mg/Kg	1	12/5/2006 9:56:05 PM
Motor Oil Range Organics (MRO)	52	50		mg/Kg	1	12/5/2006 9:56:05 PM
Surr: DNOP	94.4	61.7-135		%REC	1	12/5/2006 9:56:05 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/5/2006 1:28:36 PM
Surr: BFB	108	84-138		%REC	1	12/5/2006 1:28:36 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	12/5/2006 1:28:36 PM
Toluene	ND	0.050		mg/Kg	1	12/5/2006 1:28:36 PM
Ethylbenzene	ND	0.050		mg/Kg	1	12/5/2006 1:28:36 PM
Xylenes, Total	ND	0.15		mg/Kg	1	12/5/2006 1:28:36 PM
Surr: 4-Bromofluorobenzene	82.9	68.2-109		%REC	1	12/5/2006 1:28:36 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *06-Dec-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	42
Lab Order:	0612027	**Collection Date:**	12/1/2006 10:10:00 AM
Project:	JFJ Land Farm	**Date Received:**	12/4/2006
Lab ID:	0612027-06	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **SCC**
Diesel Range Organics (DRO)	49	10		mg/Kg	1	12/4/2006 8:54:02 PM
Motor Oil Range Organics (MRO)	110	50		mg/Kg	1	12/4/2006 8:54:02 PM
Surr: DNOP	114	61.7-135		%REC	1	12/4/2006 8:54:02 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/5/2006 1:58:48 PM
Surr: BFB	108	84-138		%REC	1	12/5/2006 1:58:48 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.050		mg/Kg	1	12/5/2006 1:58:48 PM
Toluene	ND	0.050		mg/Kg	1	12/5/2006 1:58:48 PM
Ethylbenzene	ND	0.050		mg/Kg	1	12/5/2006 1:58:48 PM
Xylenes, Total	ND	0.15		mg/Kg	1	12/5/2006 1:58:48 PM
Surr: 4-Bromofluorobenzene	82.7	68.2-109		%REC	1	12/5/2006 1:58:48 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *06-Dec-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	101
Lab Order:	0612027	**Collection Date:**	12/1/2006 10:50:00 AM
Project:	JFJ Land Farm	**Date Received:**	12/4/2006
Lab ID:	0612027-07	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **SCC**
Diesel Range Organics (DRO)	80	10		mg/Kg	1	12/4/2006 10:03:26 PM
Motor Oil Range Organics (MRO)	150	50		mg/Kg	1	12/4/2006 10:03:26 PM
Surr: DNOP	133	61.7-135		%REC	1	12/4/2006 10:03:26 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/5/2006 2:28:55 PM
Surr: BFB	109	84-138		%REC	1	12/5/2006 2:28:55 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.050		mg/Kg	1	12/5/2006 2:28:55 PM
Toluene	ND	0.050		mg/Kg	1	12/5/2006 2:28:55 PM
Ethylbenzene	ND	0.050		mg/Kg	1	12/5/2006 2:28:55 PM
Xylenes, Total	ND	0.15		mg/Kg	1	12/5/2006 2:28:55 PM
Surr: 4-Bromofluorobenzene	83.2	68.2-109		%REC	1	12/5/2006 2:28:55 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *06-Dec-06*

CLIENT:	Industrial Ecosystems, Inc.	Client Sample ID:	106
Lab Order:	0612027	Collection Date:	12/1/2006 11:43:00 AM
Project:	JFJ Land Farm	Date Received:	12/4/2006
Lab ID:	0612027-08	Matrix:	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	40	10		mg/Kg	1	12/4/2006 10:38:05 PM
Motor Oil Range Organics (MRO)	87	50		mg/Kg	1	12/4/2006 10:38:05 PM
Surr: DNOP	134	61.7-135		%REC	1	12/4/2006 10:38:05 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/5/2006 2:59:04 PM
Surr: BFB	109	84-138		%REC	1	12/5/2006 2:59:04 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	12/5/2006 2:59:04 PM
Toluene	ND	0.050		mg/Kg	1	12/5/2006 2:59:04 PM
Ethylbenzene	ND	0.050		mg/Kg	1	12/5/2006 2:59:04 PM
Xylenes, Total	ND	0.15		mg/Kg	1	12/5/2006 2:59:04 PM
Surr: 4-Bromofluorobenzene	83.3	68.2-109		%REC	1	12/5/2006 2:59:04 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *06-Dec-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	30
Lab Order:	0612027	**Collection Date:**	12/1/2006 9:36:00 AM
Project:	JFJ Land Farm	**Date Received:**	12/4/2006
Lab ID:	0612027-09	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	33	10		mg/Kg	1	12/4/2006 11:12:49 PM
Motor Oil Range Organics (MRO)	85	50		mg/Kg	1	12/4/2006 11:12:49 PM
Surr: DNOP	134	61.7-135		%REC	1	12/4/2006 11:12:49 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/5/2006 3:29:12 PM
Surr: BFB	112	84-138		%REC	1	12/5/2006 3:29:12 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	12/5/2006 3:29:12 PM
Toluene	ND	0.050		mg/Kg	1	12/5/2006 3:29:12 PM
Ethylbenzene	ND	0.050		mg/Kg	1	12/5/2006 3:29:12 PM
Xylenes, Total	ND	0.15		mg/Kg	1	12/5/2006 3:29:12 PM
Surr: 4-Bromofluorobenzene	83.6	68.2-109		%REC	1	12/5/2006 3:29:12 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *06-Dec-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	65
Lab Order:	0612027	**Collection Date:**	12/1/2006 10:18:00 AM
Project:	JFJ Land Farm	**Date Received:**	12/4/2006
Lab ID:	0612027-10	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **SCC**
Diesel Range Organics (DRO)	78	10		mg/Kg	1	12/4/2006 11:47:27 PM
Motor Oil Range Organics (MRO)	170	50		mg/Kg	1	12/4/2006 11:47:27 PM
Surr: DNOP	132	61.7-135		%REC	1	12/4/2006 11:47:27 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/5/2006 3:59:16 PM
Surr: BFB	111	84-138		%REC	1	12/5/2006 3:59:16 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.050		mg/Kg	1	12/5/2006 3:59:16 PM
Toluene	ND	0.050		mg/Kg	1	12/5/2006 3:59:16 PM
Ethylbenzene	ND	0.050		mg/Kg	1	12/5/2006 3:59:16 PM
Xylenes, Total	ND	0.15		mg/Kg	1	12/5/2006 3:59:16 PM
Surr: 4-Bromofluorobenzene	84.6	68.2-109		%REC	1	12/5/2006 3:59:16 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- RL Reporting Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *06-Dec-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	60
Lab Order:	0612027	**Collection Date:**	12/1/2006 10:05:00 AM
Project:	JFJ Land Farm	**Date Received:**	12/4/2006
Lab ID:	0612027-11	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	61	10		mg/Kg	1	12/5/2006 12:22:07 AM
Motor Oil Range Organics (MRO)	110	50		mg/Kg	1	12/5/2006 12:22:07 AM
Surr: DNOP	124	61.7-135		%REC	1	12/5/2006 12:22:07 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/5/2006 5:59:36 PM
Surr: BFB	108	84-138		%REC	1	12/5/2006 5:59:36 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	12/5/2006 5:59:36 PM
Toluene	ND	0.050		mg/Kg	1	12/5/2006 5:59:36 PM
Ethylbenzene	ND	0.050		mg/Kg	1	12/5/2006 5:59:36 PM
Xylenes, Total	ND	0.15		mg/Kg	1	12/5/2006 5:59:36 PM
Surr: 4-Bromofluorobenzene	83.5	68.2-109		%REC	1	12/5/2006 5:59:36 PM

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank	
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	
	J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level	
	ND	Not Detected at the Reporting Limit	RL	Reporting Limit	
	S	Spike recovery outside accepted recovery limits			

Hall Environmental Analysis Laboratory, Inc.

Date: *06-Dec-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	49
Lab Order:	0612027	**Collection Date:**	12/1/2006 10:36:00 AM
Project:	JFJ Land Farm	**Date Received:**	12/4/2006
Lab ID:	0612027-12	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **SCC**
Diesel Range Organics (DRO)	45	10		mg/Kg	1	12/5/2006 12:56:46 AM
Motor Oil Range Organics (MRO)	90	50		mg/Kg	1	12/5/2006 12:56:46 AM
Surr: DNOP	135	61.7-135		%REC	1	12/5/2006 12:56:46 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/5/2006 6:29:40 PM
Surr: BFB	111	84-138		%REC	1	12/5/2006 6:29:40 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.050		mg/Kg	1	12/5/2006 6:29:40 PM
Toluene	ND	0.050		mg/Kg	1	12/5/2006 6:29:40 PM
Ethylbenzene	ND	0.050		mg/Kg	1	12/5/2006 6:29:40 PM
Xylenes, Total	ND	0.15		mg/Kg	1	12/5/2006 6:29:40 PM
Surr: 4-Bromofluorobenzene	84.0	68.2-109		%REC	1	12/5/2006 6:29:40 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *06-Dec-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	224
Lab Order:	0612027	**Collection Date:**	12/1/2006 12:23:00 AM
Project:	JFJ Land Farm	**Date Received:**	12/4/2006
Lab ID:	0612027-13	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **SCC**
Diesel Range Organics (DRO)	11	10		mg/Kg	1	12/5/2006 1:31:26 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/5/2006 1:31:26 AM
Surr: DNOP	133	61.7-135		%REC	1	12/5/2006 1:31:26 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/5/2006 6:59:48 PM
Surr: BFB	108	84-138		%REC	1	12/5/2006 6:59:48 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.050		mg/Kg	1	12/5/2006 6:59:48 PM
Toluene	ND	0.050		mg/Kg	1	12/5/2006 6:59:48 PM
Ethylbenzene	ND	0.050		mg/Kg	1	12/5/2006 6:59:48 PM
Xylenes, Total	ND	0.15		mg/Kg	1	12/5/2006 6:59:48 PM
Surr: 4-Bromofluorobenzene	82.8	68.2-109		%REC	1	12/5/2006 6:59:48 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *06-Dec-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	104
Lab Order:	0612027	**Collection Date:**	12/1/2006 11:30:00 AM
Project:	JFJ Land Farm	**Date Received:**	12/4/2006
Lab ID:	0612027-14	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **SCC**
Diesel Range Organics (DRO)	310	100		mg/Kg	10	12/5/2006 8:25:10 AM
Motor Oil Range Organics (MRO)	990	500		mg/Kg	10	12/5/2006 8:25:10 AM
Surr: DNOP	132	61.7-135		%REC	10	12/5/2006 8:25:10 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/5/2006 7:29:52 PM
Surr: BFB	108	84-138		%REC	1	12/5/2006 7:29:52 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.050		mg/Kg	1	12/5/2006 7:29:52 PM
Toluene	ND	0.050		mg/Kg	1	12/5/2006 7:29:52 PM
Ethylbenzene	ND	0.050		mg/Kg	1	12/5/2006 7:29:52 PM
Xylenes, Total	ND	0.15		mg/Kg	1	12/5/2006 7:29:52 PM
Surr: 4-Bromofluorobenzene	83.1	68.2-109		%REC	1	12/5/2006 7:29:52 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *06-Dec-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	35
Lab Order:	0612027	**Collection Date:**	12/1/2006 12:30:00 AM
Project:	JFJ Land Farm	**Date Received:**	12/4/2006
Lab ID:	0612027-15	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	300	50		mg/Kg	5	12/6/2006 12:15:57 AM
Motor Oil Range Organics (MRO)	350	250		mg/Kg	5	12/6/2006 12:15:57 AM
Surr: DNOP	88.1	61.7-135		%REC	5	12/6/2006 12:15:57 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/5/2006 7:59:55 PM
Surr: BFB	107	84-138		%REC	1	12/5/2006 7:59:55 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	12/5/2006 7:59:55 PM
Toluene	ND	0.050		mg/Kg	1	12/5/2006 7:59:55 PM
Ethylbenzene	ND	0.050		mg/Kg	1	12/5/2006 7:59:55 PM
Xylenes, Total	ND	0.15		mg/Kg	1	12/5/2006 7:59:55 PM
Surr: 4-Bromofluorobenzene	82.6	68.2-109		%REC	1	12/5/2006 7:59:55 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *06-Dec-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	571
Lab Order:	0612027	**Collection Date:**	12/1/2006 12:10:00 AM
Project:	JFJ Land Farm	**Date Received:**	12/4/2006
Lab ID:	0612027-16	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	340	50		mg/Kg	5	12/6/2006 12:50:42 AM
Motor Oil Range Organics (MRO)	470	250		mg/Kg	5	12/6/2006 12:50:42 AM
Surr: DNOP	95.4	61.7-135		%REC	5	12/6/2006 12:50:42 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/5/2006 8:29:59 PM
Surr: BFB	111	84-138		%REC	1	12/5/2006 8:29:59 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	12/5/2006 8:29:59 PM
Toluene	ND	0.050		mg/Kg	1	12/5/2006 8:29:59 PM
Ethylbenzene	ND	0.050		mg/Kg	1	12/5/2006 8:29:59 PM
Xylenes, Total	ND	0.15		mg/Kg	1	12/5/2006 8:29:59 PM
Surr: 4-Bromofluorobenzene	84.8	68.2-109		%REC	1	12/5/2006 8:29:59 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *06-Dec-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	41
Lab Order:	0612027	**Collection Date:**	12/1/2006 10:15:00 AM
Project:	JFJ Land Farm	**Date Received:**	12/4/2006
Lab ID:	0612027-17	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **SCC**
Diesel Range Organics (DRO)	260	50		mg/Kg	5	12/6/2006 1:25:28 AM
Motor Oil Range Organics (MRO)	380	250		mg/Kg	5	12/6/2006 1:25:28 AM
Surr: DNOP	98.0	61.7-135		%REC	5	12/6/2006 1:25:28 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/5/2006 8:59:50 PM
Surr: BFB	108	84-138		%REC	1	12/5/2006 8:59:50 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.050		mg/Kg	1	12/5/2006 8:59:50 PM
Toluene	ND	0.050		mg/Kg	1	12/5/2006 8:59:50 PM
Ethylbenzene	ND	0.050		mg/Kg	1	12/5/2006 8:59:50 PM
Xylenes, Total	ND	0.15		mg/Kg	1	12/5/2006 8:59:50 PM
Surr: 4-Bromofluorobenzene	83.9	68.2-109		%REC	1	12/5/2006 8:59:50 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Date: *06-Dec-06*

CLIENT:	Industrial Ecosystems, Inc.	Client Sample ID:	103
Lab Order:	0612027	Collection Date:	12/1/2006 11:15:00 AM
Project:	JFJ Land Farm	Date Received:	12/4/2006
Lab ID:	0612027-18	Matrix:	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	49	10		mg/Kg	1	12/5/2006 4:24:17 AM
Motor Oil Range Organics (MRO)	95	50		mg/Kg	1	12/5/2006 4:24:17 AM
Surr: DNOP	135	61.7-135		%REC	1	12/5/2006 4:24:17 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	20	5.0		mg/Kg	1	12/5/2006 9:29:45 PM
Surr: BFB	111	84-138		%REC	1	12/5/2006 9:29:45 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	12/5/2006 9:29:45 PM
Toluene	ND	0.050		mg/Kg	1	12/5/2006 9:29:45 PM
Ethylbenzene	ND	0.050		mg/Kg	1	12/5/2006 9:29:45 PM
Xylenes, Total	ND	0.15		mg/Kg	1	12/5/2006 9:29:45 PM
Surr: 4-Bromofluorobenzene	85.6	68.2-109		%REC	1	12/5/2006 9:29:45 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *06-Dec-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	70
Lab Order:	0612027	**Collection Date:**	12/1/2006 9:22:00 AM
Project:	JFJ Land Farm	**Date Received:**	12/4/2006
Lab ID:	0612027-19	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	310	50		mg/Kg	5	12/6/2006 2:00:25 AM
Motor Oil Range Organics (MRO)	440	250		mg/Kg	5	12/6/2006 2:00:25 AM
Surr: DNOP	100	61.7-135		%REC	5	12/6/2006 2:00:25 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/5/2006 9:59:56 PM
Surr: BFB	109	84-138		%REC	1	12/5/2006 9:59:56 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	12/5/2006 9:59:56 PM
Toluene	ND	0.050		mg/Kg	1	12/5/2006 9:59:56 PM
Ethylbenzene	ND	0.050		mg/Kg	1	12/5/2006 9:59:56 PM
Xylenes, Total	ND	0.15		mg/Kg	1	12/5/2006 9:59:56 PM
Surr: 4-Bromofluorobenzene	84.2	68.2-109		%REC	1	12/5/2006 9:59:56 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *06-Dec-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	5
Lab Order:	0612027	**Collection Date:**	12/1/2006 9:30:00 AM
Project:	JFJ Land Farm	**Date Received:**	12/4/2006
Lab ID:	0612027-20	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **SCC**
Diesel Range Organics (DRO)	190	10		mg/Kg	1	12/5/2006 5:33:06 AM
Motor Oil Range Organics (MRO)	460	50		mg/Kg	1	12/5/2006 5:33:06 AM
Surr: DNOP	92.9	61.7-135		%REC	1	12/5/2006 5:33:06 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/5/2006 10:30:06 PM
Surr: BFB	108	84-138		%REC	1	12/5/2006 10:30:06 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.050		mg/Kg	1	12/5/2006 10:30:06 PM
Toluene	ND	0.050		mg/Kg	1	12/5/2006 10:30:06 PM
Ethylbenzene	ND	0.050		mg/Kg	1	12/5/2006 10:30:06 PM
Xylenes, Total	ND	0.15		mg/Kg	1	12/5/2006 10:30:06 PM
Surr: 4-Bromofluorobenzene	84.0	68.2-109		%REC	1	12/5/2006 10:30:06 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *06-Dec-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	16
Lab Order:	0612027	**Collection Date:**	12/1/2006 10:24:00 AM
Project:	JFJ Land Farm	**Date Received:**	12/4/2006
Lab ID:	0612027-21	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	180	10		mg/Kg	1	12/5/2006 6:07:30 AM
Motor Oil Range Organics (MRO)	380	50		mg/Kg	1	12/5/2006 6:07:30 AM
Surr: DNOP	125	61.7-135		%REC	1	12/5/2006 6:07:30 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/5/2006 11:10:26 AM
Surr: BFB	104	84-138		%REC	1	12/5/2006 11:10:26 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	12/5/2006 11:10:26 AM
Toluene	ND	0.050		mg/Kg	1	12/5/2006 11:10:26 AM
Ethylbenzene	ND	0.050		mg/Kg	1	12/5/2006 11:10:26 AM
Xylenes, Total	ND	0.15		mg/Kg	1	12/5/2006 11:10:26 AM
Surr: 4-Bromofluorobenzene	85.6	68.2-109		%REC	1	12/5/2006 11:10:26 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *06-Dec-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	102
Lab Order:	0612027	**Collection Date:**	12/1/2006 11:00:00 AM
Project:	JFJ Land Farm	**Date Received:**	12/4/2006
Lab ID:	0612027-22	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	92	10		mg/Kg	1	12/5/2006 6:41:55 AM
Motor Oil Range Organics (MRO)	260	50		mg/Kg	1	12/5/2006 6:41:55 AM
Surr: DNOP	112	61.7-135		%REC	1	12/5/2006 6:41:55 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/5/2006 11:40:46 AM
Surr: BFB	104	84-138		%REC	1	12/5/2006 11:40:46 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	12/5/2006 11:40:46 AM
Toluene	ND	0.050		mg/Kg	1	12/5/2006 11:40:46 AM
Ethylbenzene	ND	0.050		mg/Kg	1	12/5/2006 11:40:46 AM
Xylenes, Total	ND	0.15		mg/Kg	1	12/5/2006 11:40:46 AM
Surr: 4-Bromofluorobenzene	83.8	68.2-109		%REC	1	12/5/2006 11:40:46 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *06-Dec-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	312
Lab Order:	0612027	**Collection Date:**	12/1/2006 11:15:00 AM
Project:	JFJ Land Farm	**Date Received:**	12/4/2006
Lab ID:	0612027-23	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	70	10		mg/Kg	1	12/5/2006 7:16:19 AM
Motor Oil Range Organics (MRO)	160	50		mg/Kg	1	12/5/2006 7:16:19 AM
Surr: DNOP	109	61.7-135		%REC	1	12/5/2006 7:16:19 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/5/2006 12:11:25 PM
Surr: BFB	103	84-138		%REC	1	12/5/2006 12:11:25 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	12/5/2006 12:11:25 PM
Toluene	ND	0.050		mg/Kg	1	12/5/2006 12:11:25 PM
Ethylbenzene	ND	0.050		mg/Kg	1	12/5/2006 12:11:25 PM
Xylenes, Total	ND	0.15		mg/Kg	1	12/5/2006 12:11:25 PM
Surr: 4-Bromofluorobenzene	82.6	68.2-109		%REC	1	12/5/2006 12:11:25 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *06-Dec-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	34
Lab Order:	0612027	**Collection Date:**	12/1/2006 9:44:00 AM
Project:	JFJ Land Farm	**Date Received:**	12/4/2006
Lab ID:	0612027-24	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **SCC**
Diesel Range Organics (DRO)	120	10		mg/Kg	1	12/5/2006 7:50:44 AM
Motor Oil Range Organics (MRO)	300	50		mg/Kg	1	12/5/2006 7:50:44 AM
Surr: DNOP	92.5	61.7-135		%REC	1	12/5/2006 7:50:44 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/5/2006 12:42:03 PM
Surr: BFB	98.0	84-138		%REC	1	12/5/2006 12:42:03 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.050		mg/Kg	1	12/5/2006 12:42:03 PM
Toluene	ND	0.050		mg/Kg	1	12/5/2006 12:42:03 PM
Ethylbenzene	ND	0.050		mg/Kg	1	12/5/2006 12:42:03 PM
Xylenes, Total	ND	0.15		mg/Kg	1	12/5/2006 12:42:03 PM
Surr: 4-Bromofluorobenzene	80.0	68.2-109		%REC	1	12/5/2006 12:42:03 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

QA/QC SUMMARY REPORT

Client: Industrial Ecosystems, Inc.
Project: JFJ Land Farm
Work Order: 0612027

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: SW8015									
Sample ID: MB-11901		*MBLK*			Batch ID:	**11901**	Analysis Date:	12/4/2006 1:55:55 PM	
Diesel Range Organics (DRO)	ND	mg/Kg	10						
Motor Oil Range Organics (MRO)	ND	mg/Kg	50						
Sample ID: MB-11906		*MBLK*			Batch ID:	**11906**	Analysis Date:	12/4/2006 4:15:20 PM	
Diesel Range Organics (DRO)	ND	mg/Kg	10						
Motor Oil Range Organics (MRO)	ND	mg/Kg	50						
Sample ID: LCS-11901		*LCS*			Batch ID:	**11901**	Analysis Date:	12/4/2006 2:30:39 PM	
Diesel Range Organics (DRO)	40.19	mg/Kg	10	80.4	64.6	116			
Sample ID: LCS-11906		*LCS*			Batch ID:	**11906**	Analysis Date:	12/4/2006 4:50:19 PM	
Diesel Range Organics (DRO)	39.90	mg/Kg	10	79.8	64.6	116			
Sample ID: LCSD-11901		*LCSD*			Batch ID:	**11901**	Analysis Date:	12/4/2006 3:40:22 PM	
Diesel Range Organics (DRO)	35.14	mg/Kg	10	70.3	64.6	116	13.4	17.4	
Sample ID: LCSD-11906		*LCSD*			Batch ID:	**11906**	Analysis Date:	12/4/2006 5:25:17 PM	
Diesel Range Organics (DRO)	38.01	mg/Kg	10	76.0	64.6	116	4.87	17.4	
Method: SW8015									
Sample ID: MB-11908		*MBLK*			Batch ID:	**11908**	Analysis Date:	12/5/2006 9:38:24 AM	
Gasoline Range Organics (GRO)	ND	mg/Kg	5.0						
Sample ID: MB-11907		*MBLK*			Batch ID:	**11907**	Analysis Date:	12/5/2006 9:58:01 AM	
Gasoline Range Organics (GRO)	ND	mg/Kg	5.0						
Sample ID: LCS-11908		*LCS*			Batch ID:	**11908**	Analysis Date:	12/5/2006 10:08:58 AM	
Gasoline Range Organics (GRO)	24.10	mg/Kg	5.0	96.4	69.5	120			
Sample ID: LCS-11907		*LCS*			Batch ID:	**11907**	Analysis Date:	12/5/2006 10:28:02 AM	
Gasoline Range Organics (GRO)	25.60	mg/Kg	5.0	102	69.5	120			
Sample ID: LCSD-11908		*LCSD*			Batch ID:	**11908**	Analysis Date:	12/5/2006 10:39:40 AM	
Gasoline Range Organics (GRO)	22.40	mg/Kg	5.0	89.6	69.5	120	7.31	11.6	
Sample ID: LCSD-11907		*LCSD*			Batch ID:	**11907**	Analysis Date:	12/5/2006 10:58:11 AM	
Gasoline Range Organics (GRO)	25.89	mg/Kg	5.0	104	69.5	120	1.13	11.6	

Qualifiers:

- 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
- R RPD outside accepted recovery limits
- S Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Industrial Ecosystems, Inc.
Project: JFJ Land Farm **Work Order:** 0612027

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: SW8021									
Sample ID: MB-11908		*MBLK*			Batch ID:	11908	Analysis Date:	12/5/2006 9:38:24 AM	
Benzene	ND	mg/Kg	0.050						
Toluene	ND	mg/Kg	0.050						
Ethylbenzene	ND	mg/Kg	0.050						
Xylenes, Total	ND	mg/Kg	0.15						
Sample ID: MB-11907		*MBLK*			Batch ID:	11907	Analysis Date:	12/5/2006 9:58:01 AM	
Benzene	ND	mg/Kg	0.050						
Toluene	ND	mg/Kg	0.050						
Ethylbenzene	ND	mg/Kg	0.050						
Xylenes, Total	ND	mg/Kg	0.15						
Sample ID: LCS-11908		*LCS*			Batch ID:	11908	Analysis Date:	12/5/2006 10:08:58 AM	
Benzene	0.2612	mg/Kg	0.050	81.6	62.7	114			
Toluene	1.723	mg/Kg	0.050	86.2	68.2	121			
Ethylbenzene	0.3342	mg/Kg	0.050	85.7	71.4	115			
Xylenes, Total	1.943	mg/Kg	0.15	92.5	65	135			
Sample ID: LCS-11907		*LCS*			Batch ID:	11907	Analysis Date:	12/5/2006 10:28:02 AM	
Benzene	0.2794	mg/Kg	0.050	87.3	62.7	114			
Toluene	1.653	mg/Kg	0.050	82.6	68.2	121			
Ethylbenzene	0.3757	mg/Kg	0.050	96.3	71.4	115			
Xylenes, Total	1.932	mg/Kg	0.15	92.0	65	135			
Sample ID: LCSD-11908		*LCSD*			Batch ID:	11908	Analysis Date:	12/5/2006 10:39:40 AM	
Benzene	0.2571	mg/Kg	0.050	80.3	62.7	114	1.58	27	
Toluene	1.710	mg/Kg	0.050	85.5	68.2	121	0.757	19	
Ethylbenzene	0.3288	mg/Kg	0.050	84.3	71.4	115	1.63	10	
Xylenes, Total	1.929	mg/Kg	0.15	91.9	65	135	0.728	13	
Sample ID: LCSD-11907		*LCSD*			Batch ID:	11907	Analysis Date:	12/5/2006 10:58:11 AM	
Benzene	0.2714	mg/Kg	0.050	84.8	62.7	114	2.90	27	
Toluene	1.608	mg/Kg	0.050	80.4	68.2	121	2.78	19	
Ethylbenzene	0.3646	mg/Kg	0.050	93.5	71.4	115	3.00	10	
Xylenes, Total	1.854	mg/Kg	0.15	88.3	65	135	4.12	13	

Qualifiers:

- 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
- R RPD outside accepted recovery limits
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name IND ECO | Date and Time Received: 12/4/2006

Work Order Number 0612027 | Received by TLS

Checklist completed by _____ 12/4/06
Signature | Date

Matrix | Carrier name UPS

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐	Not Shipped ☐
Custody seals intact on sample bottles?	Yes ☑	No ☐	N/A ☐	
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		
Water - VOA vials have zero headspace?	No VOA vials submitted ☑	Yes ☐	No ☐	
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑	

Container/Temp Blank temperature? 2° *4° C ± 2 Acceptable* If given sufficient time to cool.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: per SM collection form for #312 is 1115 hrs 12/4/06

Corrective Action _____

CHAIN-OF-CUSTODY RECORD

QA / QC Package:
Std ☐ Level 4 ☐
Other:

HALL ENVIRONMENTAL ANALYSIS LABORATORY
4901 Hawkins NE, Suite D
Albuquerque, New Mexico 87109
Tel. 505.345.3975 Fax 505.345.4107
www.hallenvironmental.com

Client: Industrial Ecosystems Inc
Address: #81 CR 3150
87410
Phone #: 632-1782
Fax #: 632-1876

Project Name: JFD handform
Project #:
Project Manager: Joel Owens
Sampler: Steve Aboyta
Sample Temperature: 2°

ANALYSIS REQUEST

Date	Time	Matrix	Sample I.D. No.	Number/Volume	Preservative: $HgCl_2$	Preservative: HNO_3	Preservative: Ice	HEAL No.
12/1	1223 AM	Soil	224	1			X	1206027 – 13
	1130		104					– 14
	1230 AM		35					– 15
	1210 AM		571					– 16
	1015		41					– 17
	~~1115~~ 1115		103					– 18
	~~927~~ 927		70					– 19
	930		5					– 20
	1024		16					– 21
	1100		102					– 22
	1115 AM		313					– 23
	944		34					– 24

Date	Time	Relinquished By: (Signature)	Received By: (Signature)
12/1	1400		12/4/20 1007
Date:	Time:	Relinquished By: (Signature)	Received By: (Signature)

BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gasoline Only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	EDC (Method 8021)	8310 (PNA or PAH)	RCRA 8 Metals	Anions ($F, Cl, NO_3, NO_2, PO_4, SO_4$)	8081 Pesticides / PCB's (8082)	8260B (VOA)	8270 (Semi-VOA)					Air Bubbles or Headspace (Y or N)
X		X														

Remarks: Rush
send results via mail + email to joel.owens@industrialecosystems.com only.

CHAIN-OF-CUSTODY RECORD

QA/QC Package: Std ☒ Level 4 ☐
Other: _____

HALL ENVIRONMENTAL ANALYSIS LABORATORY
4901 Hawkins NE, Suite D
Albuquerque, New Mexico 87109
Tel. 505.345.3975 Fax 505.345.4107
www.hallenvironmental.com

Client: Industrial Ecosystems Inc
Address: #81 CR #3150 87410
Phone #: 632-1782
Fax #: 632-1876

Project Name: JEJ homefarm
Project #:
Project Manager: Joel Owens
Sampler: Steve Aboyta
Sample Temperature: 2°

ANALYSIS REQUEST

Date	Time	Matrix	Sample I.D. No.	Number/Volume	Preservative $HgCl_2$	Preservative HNO_3	Preservative ICE	HEAL No. 1612027	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gasoline Only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	EDC (Method 8021)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F, Cl, NO_3, NO_2, PO_4, SO_4)	8081 Pesticides / PCB's (8082)	8260B (VOA)	8270 (Semi-VOA)					Air Bubbles or Headspace (Y or N)
12/1	9:00	Soil	518	1			X	-1	X		X														
	9:55		38					-2																	
	9:10		67					-3																	
	11:50		107					-4																	
	9:15		59					-5																	
	10:10		42					-6																	
	10:50		101					-7																	
	11:43		106					-8																	
	9:36		30					-9																	
	10:18		65					-10																	
	10:05		40					-11																	
	1036		49					-12																	

Date:	Time:	Relinquished By: (Signature)	Received By: (Signature)
12/1	1400		12/4/04 1087
Date:	Time:	Relinquished By: (Signature)	Received By: (Signature)

Remarks:
Rush
Send Results mail'd Email to
joel.owens@industrial@ecosystems.com
only !!

BLAGG ENGINEERING, INC.
P.O. Box 87, Bloomfield, New Mexico 87413
Phone: (505)632-1199 Fax: (505)632-3903

October 9, 2006

2006 OCT 13 AM 11 48

Mr. Brad Jones
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Re: JFJ Waste Management Facility: Permit NM-01-0010B
Quarterly Report on Treatment Zone Monitoring

Dear Mr. Jones:

On behalf of JFJ Landfarm L.L.C., Blagg Engineering, Inc. (BEI) is submitting quarterly treatment zone monitoring test results for the JFJ Waste Management Facility pursuant to Permit NM-01-0010B. This report is for sampling conducted on September 28, 2006.

Sampling protocol included collection of native soils below the treatment zone in each cell using a hand auger. Samples were submitted for analytical testing that included total petroleum hydrocarbons (TPH) by U.S. EPA Method 8015B and volatile hydrocarbons (BTEX) by U.S. EPA Method 8021B.

With this quarterly monitoring samples were collect from active cell units 2f, 3f, 4g, 7d, 8c, 9b, 11e, 12g and 13h (Figure 1). There were no test results in excess of standards. Analytical reports are attached. The facility permit requires quarterly testing for TPH and BTEX and annual testing for metals and cation/anions.

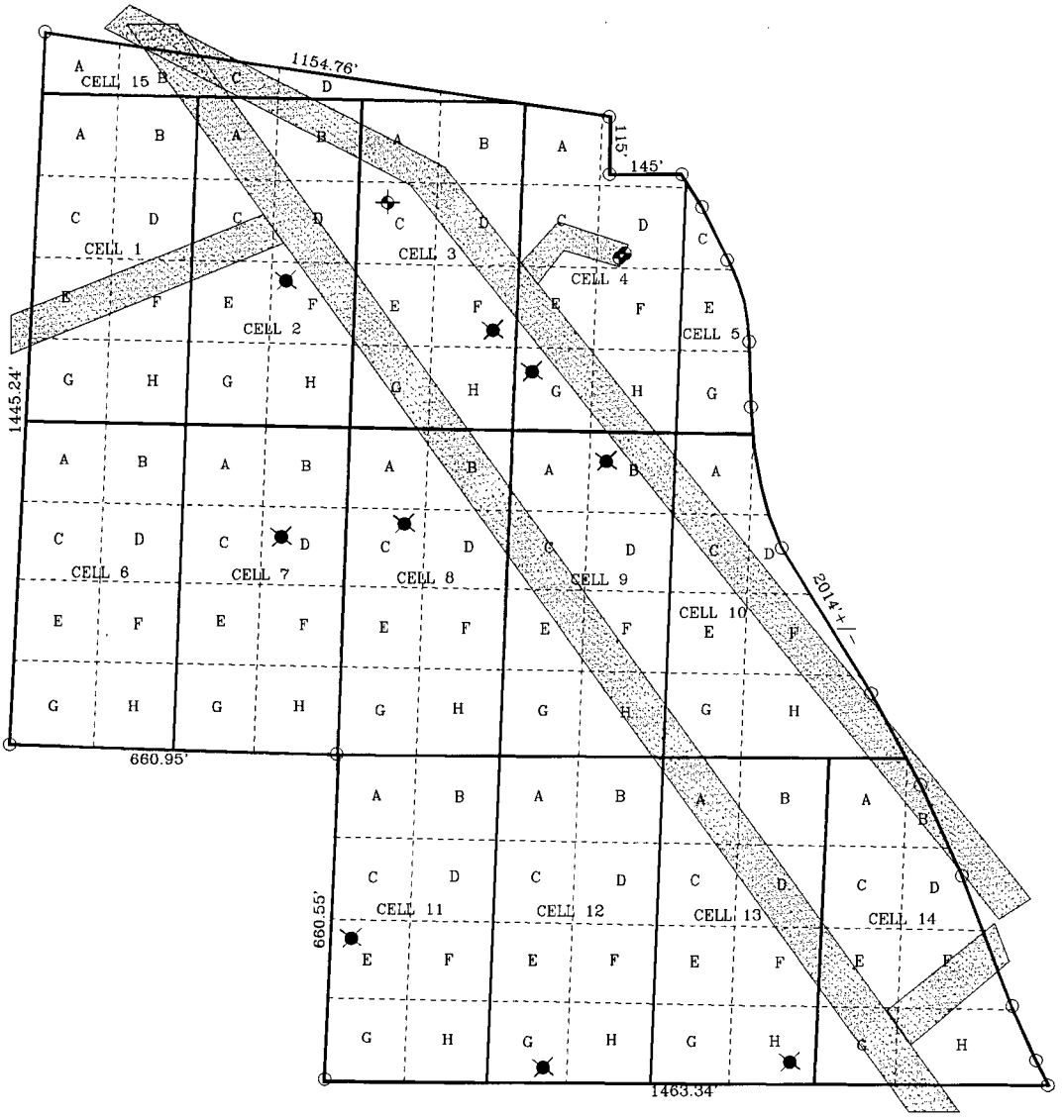
Questions or comments concerning this transmittal may be directed to myself at (505)632-1199 or Jake Hatcher with JFJ Landfarm L.L.C. at (505)632-1786.

Respectfully submitted:
Blagg Engineering, Inc.

Jeffrey C. Blagg, P.E.
President

Attachments: Site Diagram
Analytical Test Reports

cc: Brandon Powell, NMOCD Aztec District Office
Jake Hatcher, JFJ Farmington



JFJ LANDFARM FACILITY TREATMENT ZONE MONITORING			*BLAGG ENGINEERING, INC.*
DATE: 9/28/2006	FIGURE 1	BY: JCB	*P.O. BOX 87, BLOOMFIELD, NM* *PHONE: (505)632-1199*

14704

CHAIN OF CUSTODY RECORD

Client / Project Name	Project Location
BLAGG / JFJ	JFJ LANDFARM
Sampler: Jeff Blagg	Client No. 94034-010

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TPH 8015	BTEX 8021					Remarks
					ANALYSIS / PARAMETERS							
CELL 2F	9/28/06	1220	38664	SOIL	1	X	X					BEDROCK — 2' BELOW GRADE
CELL 3F	"	1235	38665	"	1	X	X					3' BELOW GRADE
CELL 4G	"	1250	38666	"	1	X	X					BEDROCK — 2' BELOW GRADE
CELL 7D	"	1345	38667	"	1	X	X					BEDROCK — 2' BELOW GRADE
CELL 8C	"	1330	38668	"	1	X	X					BEDROCK — 2½' BELOW GRADE
CELL 9B	"	1315	38669	"	1	X	X					3' BELOW GRADE
CELL 11E	"	1445	38670	"	1	X	X					BEDROCK — 1½' BELOW GRADE
CELL 12G	"	1400	38671	"	1	X	X					3' BELOW GRADE
CELL 13H	"	1435	38672	"	1	X	X					BEDROCK — 2½' BELOW GRADE

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Jeff Blagg	9/29/06	1240	Allen P. Applegate	9/29/06	1240
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

ENVIROTECH INC.

5796 U.S. Highway 64
Farmington, New Mexico 87401
(505) 632-0615

Sample Receipt	Y	N	N/A
Received Intact	✓		
Cool - Ice/Blue Ice	X		

san juan reproduction 578-129

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 3F	Date Reported:	10-05-06
Laboratory Number:	38665	Date Sampled:	09-28-06
Chain of Custody No:	14704	Date Received:	09-29-06
Sample Matrix:	Soil	Date Extracted:	10-03-06
Preservative:	Cool	Date Analyzed:	10-05-06
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 3' Below Grade**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 2F	Date Reported:	10-05-06
Laboratory Number:	38664	Date Sampled:	09-28-06
Chain of Custody No:	14704	Date Received:	09-29-06
Sample Matrix:	Soil	Date Extracted:	10-03-06
Preservative:	Cool	Date Analyzed:	10-05-06
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2' Below Grade**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 4G	Date Reported:	10-05-06
Laboratory Number:	38666	Date Sampled:	09-28-06
Chain of Custody No:	14704	Date Received:	09-29-06
Sample Matrix:	Soil	Date Extracted:	10-03-06
Preservative:	Cool	Date Analyzed:	10-05-06
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2' Below Grade**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 7D	Date Reported:	10-05-06
Laboratory Number:	38667	Date Sampled:	09-28-06
Chain of Custody No:	14704	Date Received:	09-29-06
Sample Matrix:	Soil	Date Extracted:	10-03-06
Preservative:	Cool	Date Analyzed:	10-05-06
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2' Below Grade**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 8C	Date Reported:	10-05-06
Laboratory Number:	38668	Date Sampled:	09-28-06
Chain of Custody No:	14704	Date Received:	09-29-06
Sample Matrix:	Soil	Date Extracted:	10-03-06
Preservative:	Cool	Date Analyzed:	10-05-06
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2½' Below Grade**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 9B	Date Reported:	10-05-06
Laboratory Number:	38669	Date Sampled:	09-28-06
Chain of Custody No:	14704	Date Received:	09-29-06
Sample Matrix:	Soil	Date Extracted:	10-03-06
Preservative:	Cool	Date Analyzed:	10-05-06
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 3' Below Grade**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 11E	Date Reported:	10-05-06
Laboratory Number:	38670	Date Sampled:	09-28-06
Chain of Custody No:	14704	Date Received:	09-29-06
Sample Matrix:	Soil	Date Extracted:	10-03-06
Preservative:	Cool	Date Analyzed:	10-05-06
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 1½' Below Grade**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 12G	Date Reported:	10-05-06
Laboratory Number:	38671	Date Sampled:	09-28-06
Chain of Custody No:	14704	Date Received:	09-29-06
Sample Matrix:	Soil	Date Extracted:	10-03-06
Preservative:	Cool	Date Analyzed:	10-05-06
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 3' Below Grade**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 13H	Date Reported:	10-05-06
Laboratory Number:	38672	Date Sampled:	09-28-06
Chain of Custody No:	14704	Date Received:	09-29-06
Sample Matrix:	Soil	Date Extracted:	10-03-06
Preservative:	Cool	Date Analyzed:	10-05-06
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2½' Below Grade**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	10-05-06 QA/QC	Date Reported:	10-05-06
Laboratory Number:	38654	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	10-05-06
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
Gasoline Range C5 - C10	07-11-05	9.9646E+002	9.9746E+002	**0.10%**	**0 - 15%**
Diesel Range C10 - C28	07-11-05	9.9924E+002	1.0012E+003	**0.20%**	**0 - 15%**

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	**ND**	**0.2**
Diesel Range C10 - C28	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	**ND**	**ND**	**0.0%**	**0 - 30%**
Diesel Range C10 - C28	**ND**	**ND**	**0.0%**	**0 - 30%**

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	**ND**	**250**	**250**	**100.0%**	**75 - 125%**
Diesel Range C10 - C28	**ND**	**250**	**250**	**100.0%**	**75 - 125%**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **QA/QC for Samples 38654, 38664 - 38672**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 2F	Date Reported:	10-05-06
Laboratory Number:	38664	Date Sampled:	09-28-06
Chain of Custody:	14704	Date Received:	09-29-06
Sample Matrix:	Soil	Date Analyzed:	10-05-06
Preservative:	Cool	Date Extracted:	10-03-06
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**ND**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**98.0 %**
	1,4-difluorobenzene	**98.0 %**
	Bromochlorobenzene	**98.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2' Below Grade**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 3F	Date Reported:	10-05-06
Laboratory Number:	38665	Date Sampled:	09-28-06
Chain of Custody:	14704	Date Received:	09-29-06
Sample Matrix:	Soil	Date Analyzed:	10-05-06
Preservative:	Cool	Date Extracted:	10-03-06
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**ND**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**98.0 %**
	1,4-difluorobenzene	**98.0 %**
	Bromochlorobenzene	**98.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 3' Below Grade**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 4G	Date Reported:	10-05-06
Laboratory Number:	38666	Date Sampled:	09-28-06
Chain of Custody:	14704	Date Received:	09-29-06
Sample Matrix:	Soil	Date Analyzed:	10-05-06
Preservative:	Cool	Date Extracted:	10-03-06
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**ND**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**97.0 %**
	1,4-difluorobenzene	**97.0 %**
	Bromochlorobenzene	**97.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2' Below Grade**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 7D	Date Reported:	10-05-06
Laboratory Number:	38667	Date Sampled:	09-28-06
Chain of Custody:	14704	Date Received:	09-29-06
Sample Matrix:	Soil	Date Analyzed:	10-05-06
Preservative:	Cool	Date Extracted:	10-03-06
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**ND**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**97.0 %**
	1,4-difluorobenzene	**97.0 %**
	Bromochlorobenzene	**97.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2' Below Grade**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 8C	Date Reported:	10-05-06
Laboratory Number:	38668	Date Sampled:	09-28-06
Chain of Custody:	14704	Date Received:	09-29-06
Sample Matrix:	Soil	Date Analyzed:	10-05-06
Preservative:	Cool	Date Extracted:	10-03-06
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**ND**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**99.0 %**
	1,4-difluorobenzene	**99.0 %**
	Bromochlorobenzene	**99.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2½' Below Grade**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 9B	Date Reported:	10-05-06
Laboratory Number:	38669	Date Sampled:	09-28-06
Chain of Custody:	14704	Date Received:	09-29-06
Sample Matrix:	Soil	Date Analyzed:	10-05-06
Preservative:	Cool	Date Extracted:	10-03-06
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**ND**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**99.0 %**
	1,4-difluorobenzene	**99.0 %**
	Bromochlorobenzene	**99.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 3' Below Grade**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 11E	Date Reported:	10-05-06
Laboratory Number:	38670	Date Sampled:	09-28-06
Chain of Custody:	14704	Date Received:	09-29-06
Sample Matrix:	Soil	Date Analyzed:	10-05-06
Preservative:	Cool	Date Extracted:	10-03-06
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**ND**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**97.0 %**
	1,4-difluorobenzene	**97.0 %**
	Bromochlorobenzene	**97.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 1½' Below Grade**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 12G	Date Reported:	10-05-06
Laboratory Number:	38671	Date Sampled:	09-28-06
Chain of Custody:	14704	Date Received:	09-29-06
Sample Matrix:	Soil	Date Analyzed:	10-05-06
Preservative:	Cool	Date Extracted:	10-03-06
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**ND**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**97.0 %**
	1,4-difluorobenzene	**97.0 %**
	Bromochlorobenzene	**97.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 3' Below Grade**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 13H	Date Reported:	10-05-06
Laboratory Number:	38672	Date Sampled:	09-28-06
Chain of Custody:	14704	Date Received:	09-29-06
Sample Matrix:	Soil	Date Analyzed:	10-05-06
Preservative:	Cool	Date Extracted:	10-03-06
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**ND**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**99.0 %**
	1,4-difluorobenzene	**99.0 %**
	Bromochlorobenzene	**99.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2½' Below Grade**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	10-05-BTEX QA/QC	Date Reported:	10-05-06
Laboratory Number:	38664	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	10-05-06
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF:	C-Cal RF:	%Diff. Accept. Range 0 - 15%	Blank Conc	Detect. Limit
Benzene	2.3353E+007	2.3400E+007	0.2%	ND	0.2
Toluene	9.9878E+007	1.0008E+008	0.2%	ND	0.2
Ethylbenzene	3.9640E+007	3.9719E+007	0.2%	ND	0.2
p,m-Xylene	1.7010E+008	1.7044E+008	0.2%	ND	0.2
o-Xylene	9.1337E+007	9.1520E+007	0.2%	ND	0.1

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	ND	ND	0.0%	0 - 30%	1.8
Toluene	ND	ND	0.0%	0 - 30%	1.7
Ethylbenzene	ND	ND	0.0%	0 - 30%	1.5
p,m-Xylene	ND	ND	0.0%	0 - 30%	2.2
o-Xylene	ND	ND	0.0%	0 - 30%	1.0

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	50.0	49.9	99.8%	39 - 150
Toluene	ND	50.0	49.9	99.8%	46 - 148
Ethylbenzene	ND	50.0	49.9	99.8%	32 - 160
p,m-Xylene	ND	100	99.9	99.9%	46 - 148
o-Xylene	ND	50.0	50.0	100.0%	46 - 148

ND - Parameter not detected at the stated detection limit.

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.
Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: **QA/QC for Samples 38664 - 38672**

Analyst

Review

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HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

COVER LETTER

Monday, October 30, 2006

Jake Hatcher
Industrial Ecosystems, Inc.
#81 County Road 3150
Aztec, NM 87410

TEL: (505) 632-1782
FAX (505) 632-1876

RE: JFJ Land Farm

Order No.: 0610245

Dear Jake Hatcher:

Hall Environmental Analysis Laboratory, Inc. received 28 sample(s) on 10/23/2006 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent.

Reporting limits are determined by EPA methodology. No determination of compounds below these (denoted by the ND or < sign) has been made.

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

Sincerely,

Andy Freeman, Business Manager
Nancy McDuffie, Laboratory Manager

NM Lab # NM9425
AZ license # AZ0682
ORELAP Lab # NM100001

CLIENT: Industrial Ecosystems, Inc.
Project: JFJ Land Farm
Lab Order: 0610245

CASE NARRATIVE

"S" flags denote that the surrogate was not recoverable due to sample dilution or matrix interferences.

Hall Environmental Analysis Laboratory, Inc.

Date: *30-Oct-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	Pile 522
Lab Order:	0610245	**Collection Date:**	10/20/2006 9:55:00 AM
Project:	JFJ Land Farm	**Date Received:**	10/23/2006
Lab ID:	0610245-01	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: LMM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	10/25/2006
Benzene	ND	0.050		mg/Kg	1	10/25/2006
Toluene	ND	0.050		mg/Kg	1	10/25/2006
Ethylbenzene	ND	0.050		mg/Kg	1	10/25/2006
Xylenes, Total	ND	0.10		mg/Kg	1	10/25/2006
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	10/25/2006
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	10/25/2006
Surr: Dibromofluoromethane	73.4	66.6-145		%REC	1	10/25/2006

Qualifiers:				
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
	ND	Not Detected at the Reporting Limit	RL	Reporting Limit
	S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *30-Oct-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	Pile 229
Lab Order:	0610245	**Collection Date:**	10/20/2006 9:00:00 AM
Project:	JFJ Land Farm	**Date Received:**	10/23/2006
Lab ID:	0610245-02	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: LMM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	10/25/2006
Benzene	ND	0.050		mg/Kg	1	10/25/2006
Toluene	ND	0.050		mg/Kg	1	10/25/2006
Ethylbenzene	ND	0.050		mg/Kg	1	10/25/2006
Xylenes, Total	ND	0.10		mg/Kg	1	10/25/2006
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	10/25/2006
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	10/25/2006
Surr: Dibromofluoromethane	77.0	66.6-145		%REC	1	10/25/2006

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *30-Oct-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	Pile 231
Lab Order:	0610245	**Collection Date:**	10/20/2006 9:08:00 AM
Project:	JFJ Land Farm	**Date Received:**	10/23/2006
Lab ID:	0610245-03	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: LMM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	10/25/2006
Benzene	ND	0.050		mg/Kg	1	10/25/2006
Toluene	ND	0.050		mg/Kg	1	10/25/2006
Ethylbenzene	ND	0.050		mg/Kg	1	10/25/2006
Xylenes, Total	ND	0.10		mg/Kg	1	10/25/2006
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	10/25/2006
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	10/25/2006
Surr: Dibromofluoromethane	76.0	66.6-145		%REC	1	10/25/2006

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *30-Oct-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	Pile 552
Lab Order:	0610245	**Collection Date:**	10/20/2006 9:32:00 AM
Project:	JFJ Land Farm	**Date Received:**	10/23/2006
Lab ID:	0610245-04	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: LMM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	10/25/2006
Benzene	ND	0.050		mg/Kg	1	10/25/2006
Toluene	ND	0.050		mg/Kg	1	10/25/2006
Ethylbenzene	ND	0.050		mg/Kg	1	10/25/2006
Xylenes, Total	ND	0.10		mg/Kg	1	10/25/2006
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	10/25/2006
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	10/25/2006
Surr: Dibromofluoromethane	75.1	66.6-145		%REC	1	10/25/2006

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *30-Oct-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	Pile 527
Lab Order:	0610245	**Collection Date:**	10/20/2006 10:10:00 AM
Project:	JFJ Land Farm	**Date Received:**	10/23/2006
Lab ID:	0610245-05	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **SCC**
Diesel Range Organics (DRO)	34	10		mg/Kg	1	10/26/2006 1:05:20 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/26/2006 1:05:20 AM
Surr: DNOP	64.7	61.7-135		%REC	1	10/26/2006 1:05:20 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/27/2006 12:25:42 PM
Surr: BFB	106	84.5-129		%REC	1	10/27/2006 12:25:42 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **LMM**
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	10/25/2006
Benzene	ND	0.050		mg/Kg	1	10/25/2006
Toluene	ND	0.050		mg/Kg	1	10/25/2006
Ethylbenzene	ND	0.050		mg/Kg	1	10/25/2006
Xylenes, Total	ND	0.10		mg/Kg	1	10/25/2006
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	10/25/2006
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	10/25/2006
Surr: Dibromofluoromethane	73.0	66.6-145		%REC	1	10/25/2006

Qualifiers:

*	Value exceeds Maximum Contaminant Level
E	Value above quantitation range
J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit
S	Spike recovery outside accepted recovery limits
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
MCL	Maximum Contaminant Level
RL	Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Date: *30-Oct-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	Pile 526
Lab Order:	0610245	**Collection Date:**	10/20/2006 10:00:00 AM
Project:	JFJ Land Farm	**Date Received:**	10/23/2006
Lab ID:	0610245-06	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/26/2006 1:40:09 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/26/2006 1:40:09 AM
Surr: DNOP	82.5	61.7-135		%REC	1	10/26/2006 1:40:09 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/27/2006 12:56:13 PM
Surr: BFB	108	84.5-129		%REC	1	10/27/2006 12:56:13 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: LMM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	10/25/2006
Benzene	ND	0.050		mg/Kg	1	10/25/2006
Toluene	ND	0.050		mg/Kg	1	10/25/2006
Ethylbenzene	ND	0.050		mg/Kg	1	10/25/2006
Xylenes, Total	ND	0.10		mg/Kg	1	10/25/2006
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	10/25/2006
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	10/25/2006
Surr: Dibromofluoromethane	76.8	66.6-145		%REC	1	10/25/2006

Qualifiers:

*	Value exceeds Maximum Contaminant Level
E	Value above quantitation range
J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit
S	Spike recovery outside accepted recovery limits
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
MCL	Maximum Contaminant Level
RL	Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Date: *30-Oct-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	Pile 518
Lab Order:	0610245	**Collection Date:**	10/20/2006 9:44:00 AM
Project:	JFJ Land Farm	**Date Received:**	10/23/2006
Lab ID:	0610245-07	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **SCC**
Diesel Range Organics (DRO)	110	10		mg/Kg	1	10/26/2006 2:14:56 AM
Motor Oil Range Organics (MRO)	91	50		mg/Kg	1	10/26/2006 2:14:56 AM
Surr: DNOP	96.0	61.7-135		%REC	1	10/26/2006 2:14:56 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/27/2006 1:26:49 PM
Surr: BFB	103	84.5-129		%REC	1	10/27/2006 1:26:49 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **LMM**
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	10/25/2006
Benzene	ND	0.050		mg/Kg	1	10/25/2006
Toluene	ND	0.050		mg/Kg	1	10/25/2006
Ethylbenzene	ND	0.050		mg/Kg	1	10/25/2006
Xylenes, Total	ND	0.10		mg/Kg	1	10/25/2006
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	10/25/2006
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	10/25/2006
Surr: Dibromofluoromethane	77.3	66.6-145		%REC	1	10/25/2006

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *30-Oct-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	Pile 551
Lab Order:	0610245	**Collection Date:**	10/20/2006 9:15:00 AM
Project:	JFJ Land Farm	**Date Received:**	10/23/2006
Lab ID:	0610245-08	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: LMM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	10/25/2006
Benzene	ND	0.050		mg/Kg	1	10/25/2006
Toluene	ND	0.050		mg/Kg	1	10/25/2006
Ethylbenzene	ND	0.050		mg/Kg	1	10/25/2006
Xylenes, Total	ND	0.10		mg/Kg	1	10/25/2006
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	10/25/2006
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	10/25/2006
Surr: Dibromofluoromethane	74.1	66.6-145		%REC	1	10/25/2006

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *30-Oct-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	Pile 229
Lab Order:	0610245	**Collection Date:**	10/20/2006 11:25:00 AM
Project:	JFJ Land Farm	**Date Received:**	10/23/2006
Lab ID:	0610245-09	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: LMM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	10/25/2006
Benzene	ND	0.050		mg/Kg	1	10/25/2006
Toluene	ND	0.050		mg/Kg	1	10/25/2006
Ethylbenzene	ND	0.050		mg/Kg	1	10/25/2006
Xylenes, Total	ND	0.10		mg/Kg	1	10/25/2006
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	10/25/2006
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	10/25/2006
Surr: Dibromofluoromethane	72.1	66.6-145		%REC	1	10/25/2006

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: 30-Oct-06

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	Pile 528
Lab Order:	0610245	**Collection Date:**	10/20/2006 10:22:00 AM
Project:	JFJ Land Farm	**Date Received:**	10/23/2006
Lab ID:	0610245-10	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **SCC**
Diesel Range Organics (DRO)	37	10		mg/Kg	1	10/26/2006 2:49:42 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/26/2006 2:49:42 AM
Surr: DNOP	82.1	61.7-135		%REC	1	10/26/2006 2:49:42 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/27/2006 1:57:20 PM
Surr: BFB	105	84.5-129		%REC	1	10/27/2006 1:57:20 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **LMM**
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	10/25/2006
Benzene	ND	0.050		mg/Kg	1	10/25/2006
Toluene	ND	0.050		mg/Kg	1	10/25/2006
Ethylbenzene	ND	0.050		mg/Kg	1	10/25/2006
Xylenes, Total	ND	0.10		mg/Kg	1	10/25/2006
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	10/25/2006
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	10/25/2006
Surr: Dibromofluoromethane	72.0	66.6-145		%REC	1	10/25/2006

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- RL Reporting Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *30-Oct-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	Pile 531
Lab Order:	0610245	**Collection Date:**	10/20/2006 10:52:00 AM
Project:	JFJ Land Farm	**Date Received:**	10/23/2006
Lab ID:	0610245-11	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **SCC**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/26/2006 3:24:29 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/26/2006 3:24:29 AM
Surr: DNOP	83.7	61.7-135		%REC	1	10/26/2006 3:24:29 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/27/2006 2:27:49 PM
Surr: BFB	104	84.5-129		%REC	1	10/27/2006 2:27:49 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **LMM**
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	10/25/2006
Benzene	ND	0.050		mg/Kg	1	10/25/2006
Toluene	ND	0.050		mg/Kg	1	10/25/2006
Ethylbenzene	ND	0.050		mg/Kg	1	10/25/2006
Xylenes, Total	ND	0.10		mg/Kg	1	10/25/2006
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	10/25/2006
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	10/25/2006
Surr: Dibromofluoromethane	75.0	66.6-145		%REC	1	10/25/2006

Qualifiers:

*	Value exceeds Maximum Contaminant Level
E	Value above quantitation range
J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit
S	Spike recovery outside accepted recovery limits
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
MCL	Maximum Contaminant Level
RL	Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Date: *30-Oct-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	Pile 509
Lab Order:	0610245	**Collection Date:**	10/20/2006 10:26:00 AM
Project:	JFJ Land Farm	**Date Received:**	10/23/2006
Lab ID:	0610245-12	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: LMM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	10/25/2006
Benzene	ND	0.050		mg/Kg	1	10/25/2006
Toluene	ND	0.050		mg/Kg	1	10/25/2006
Ethylbenzene	ND	0.050		mg/Kg	1	10/25/2006
Xylenes, Total	ND	0.10		mg/Kg	1	10/25/2006
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	10/25/2006
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	10/25/2006
Surr: Dibromofluoromethane	73.8	66.6-145		%REC	1	10/25/2006

Qualifiers:

- `*` Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Date: *30-Oct-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	Pile 61
Lab Order:	0610245	**Collection Date:**	10/20/2006 1:06:00 PM
Project:	JFJ Land Farm	**Date Received:**	10/23/2006
Lab ID:	0610245-13	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: LMM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	10/25/2006
Benzene	ND	0.050		mg/Kg	1	10/25/2006
Toluene	ND	0.050		mg/Kg	1	10/25/2006
Ethylbenzene	ND	0.050		mg/Kg	1	10/25/2006
Xylenes, Total	ND	0.10		mg/Kg	1	10/25/2006
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	10/25/2006
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	10/25/2006
Surr: Dibromofluoromethane	73.2	66.6-145		%REC	1	10/25/2006

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *30-Oct-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	Pile 230
Lab Order:	0610245	**Collection Date:**	10/20/2006 11:30:00 AM
Project:	JFJ Land Farm	**Date Received:**	10/23/2006
Lab ID:	0610245-14	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: LMM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	10/25/2006
Benzene	ND	0.050		mg/Kg	1	10/25/2006
Toluene	ND	0.050		mg/Kg	1	10/25/2006
Ethylbenzene	ND	0.050		mg/Kg	1	10/25/2006
Xylenes, Total	ND	0.10		mg/Kg	1	10/25/2006
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	10/25/2006
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	10/25/2006
Surr: Dibromofluoromethane	71.5	66.6-145		%REC	1	10/25/2006

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *30-Oct-06*

CLIENT:	Industrial Ecosystems, Inc.	Client Sample ID:	Pile 207
Lab Order:	0610245	Collection Date:	10/20/2006 11:18:00 AM
Project:	JFJ Land Farm	Date Received:	10/23/2006
Lab ID:	0610245-15	Matrix:	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: LMM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	10/25/2006
Benzene	ND	0.050		mg/Kg	1	10/25/2006
Toluene	ND	0.050		mg/Kg	1	10/25/2006
Ethylbenzene	ND	0.050		mg/Kg	1	10/25/2006
Xylenes, Total	ND	0.10		mg/Kg	1	10/25/2006
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	10/25/2006
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	10/25/2006
Surr: Dibromofluoromethane	73.0	66.6-145		%REC	1	10/25/2006

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *30-Oct-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	Pile 63
Lab Order:	0610245	**Collection Date:**	10/20/2006 1:00:00 PM
Project:	JFJ Land Farm	**Date Received:**	10/23/2006
Lab ID:	0610245-16	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: LMM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	10/25/2006
Benzene	ND	0.050		mg/Kg	1	10/25/2006
Toluene	ND	0.050		mg/Kg	1	10/25/2006
Ethylbenzene	ND	0.050		mg/Kg	1	10/25/2006
Xylenes, Total	ND	0.10		mg/Kg	1	10/25/2006
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	10/25/2006
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	10/25/2006
Surr: Dibromofluoromethane	73.9	66.6-145		%REC	1	10/25/2006

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *30-Oct-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	Pile 70
Lab Order:	0610245	**Collection Date:**	10/20/2006 11:48:00 AM
Project:	JFJ Land Farm	**Date Received:**	10/23/2006
Lab ID:	0610245-17	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: LMM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	10/25/2006
Benzene	ND	0.050		mg/Kg	1	10/25/2006
Toluene	ND	0.050		mg/Kg	1	10/25/2006
Ethylbenzene	ND	0.050		mg/Kg	1	10/25/2006
Xylenes, Total	ND	0.10		mg/Kg	1	10/25/2006
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	10/25/2006
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	10/25/2006
Surr: Dibromofluoromethane	70.2	66.6-145		%REC	1	10/25/2006

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Date: *30-Oct-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	Pile 538
Lab Order:	0610245	**Collection Date:**	10/20/2006 11:10:00 AM
Project:	JFJ Land Farm	**Date Received:**	10/23/2006
Lab ID:	0610245-18	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: LMM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	10/25/2006
Benzene	ND	0.050		mg/Kg	1	10/25/2006
Toluene	ND	0.050		mg/Kg	1	10/25/2006
Ethylbenzene	ND	0.050		mg/Kg	1	10/25/2006
Xylenes, Total	ND	0.10		mg/Kg	1	10/25/2006
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	10/25/2006
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	10/25/2006
Surr: Dibromofluoromethane	70.4	66.6-145		%REC	1	10/25/2006

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Date: *30-Oct-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	Pile 38
Lab Order:	0610245	**Collection Date:**	10/20/2006 12:30:00 PM
Project:	JFJ Land Farm	**Date Received:**	10/23/2006
Lab ID:	0610245-19	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	590	10		mg/Kg	1	10/27/2006 2:49:00 AM
Motor Oil Range Organics (MRO)	630	50		mg/Kg	1	10/27/2006 2:49:00 AM
Surr: DNOP	98.3	61.7-135		%REC	1	10/27/2006 2:49:00 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/27/2006 2:58:18 PM
Surr: BFB	105	84.5-129		%REC	1	10/27/2006 2:58:18 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: LMM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	10/25/2006
Benzene	ND	0.050		mg/Kg	1	10/25/2006
Toluene	ND	0.050		mg/Kg	1	10/25/2006
Ethylbenzene	ND	0.050		mg/Kg	1	10/25/2006
Xylenes, Total	ND	0.10		mg/Kg	1	10/25/2006
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	10/25/2006
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	10/25/2006
Surr: Dibromofluoromethane	77.5	66.6-145		%REC	1	10/25/2006

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *30-Oct-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	Pile 44
Lab Order:	0610245	**Collection Date:**	10/20/2006 12:50:00 PM
Project:	JFJ Land Farm	**Date Received:**	10/23/2006
Lab ID:	0610245-20	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	230	10		mg/Kg	1	10/27/2006 3:58:38 AM
Motor Oil Range Organics (MRO)	260	50		mg/Kg	1	10/27/2006 3:58:38 AM
Surr: DNOP	102	61.7-135		%REC	1	10/27/2006 3:58:38 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/27/2006 3:30:00 PM
Surr: BFB	106	84.5-129		%REC	1	10/27/2006 3:30:00 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: LMM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	10/25/2006
Benzene	ND	0.050		mg/Kg	1	10/25/2006
Toluene	ND	0.050		mg/Kg	1	10/25/2006
Ethylbenzene	ND	0.050		mg/Kg	1	10/25/2006
Xylenes, Total	ND	0.10		mg/Kg	1	10/25/2006
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	10/25/2006
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	10/25/2006
Surr: Dibromofluoromethane	76.9	66.6-145		%REC	1	10/25/2006

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- RL Reporting Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *30-Oct-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	Pile 5
Lab Order:	0610245	**Collection Date:**	10/20/2006 12:07:00 PM
Project:	JFJ Land Farm	**Date Received:**	10/23/2006
Lab ID:	0610245-21	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **SCC**
Diesel Range Organics (DRO)	2000	200		mg/Kg	20	10/26/2006 5:43:41 AM
Motor Oil Range Organics (MRO)	2900	1000		mg/Kg	20	10/26/2006 5:43:41 AM
Surr: DNOP	0	61.7-135	S	%REC	20	10/26/2006 5:43:41 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/27/2006 4:00:33 PM
Surr: BFB	107	84.5-129		%REC	1	10/27/2006 4:00:33 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **LMM**
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	10/25/2006
Benzene	ND	0.050		mg/Kg	1	10/25/2006
Toluene	ND	0.050		mg/Kg	1	10/25/2006
Ethylbenzene	ND	0.050		mg/Kg	1	10/25/2006
Xylenes, Total	ND	0.10		mg/Kg	1	10/25/2006
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	10/25/2006
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	10/25/2006
Surr: Dibromofluoromethane	66.9	66.6-145		%REC	1	10/25/2006

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *30-Oct-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	Pile 34
Lab Order:	0610245	**Collection Date:**	10/20/2006 12:20:00 PM
Project:	JFJ Land Farm	**Date Received:**	10/23/2006
Lab ID:	0610245-22	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **SCC**
Diesel Range Organics (DRO)	420	100		mg/Kg	10	10/26/2006 6:18:29 AM
Motor Oil Range Organics (MRO)	760	500		mg/Kg	10	10/26/2006 6:18:29 AM
Surr: DNOP	129	61.7-135		%REC	10	10/26/2006 6:18:29 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/27/2006 4:30:56 PM
Surr: BFB	104	84.5-129		%REC	1	10/27/2006 4:30:56 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **LMM**
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	10/28/2006
Benzene	ND	0.050		mg/Kg	1	10/28/2006
Toluene	ND	0.050		mg/Kg	1	10/28/2006
Ethylbenzene	ND	0.050		mg/Kg	1	10/28/2006
Xylenes, Total	ND	0.10		mg/Kg	1	10/28/2006
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	10/28/2006
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	10/28/2006
Surr: Dibromofluoromethane	78.6	66.6-145		%REC	1	10/28/2006

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Date: *30-Oct-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	Pile 2
Lab Order:	0610245	**Collection Date:**	10/20/2006 12:00:00 PM
Project:	JFJ Land Farm	**Date Received:**	10/23/2006
Lab ID:	0610245-23	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: LMM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	10/25/2006
Benzene	ND	0.050		mg/Kg	1	10/25/2006
Toluene	ND	0.050		mg/Kg	1	10/25/2006
Ethylbenzene	ND	0.050		mg/Kg	1	10/25/2006
Xylenes, Total	ND	0.10		mg/Kg	1	10/25/2006
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	10/25/2006
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	10/25/2006
Surr: Dibromofluoromethane	70.8	66.6-145		%REC	1	10/25/2006

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *30-Oct-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	Pile 40
Lab Order:	0610245	**Collection Date:**	10/20/2006 12:42:00 PM
Project:	JFJ Land Farm	**Date Received:**	10/23/2006
Lab ID:	0610245-24	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **SCC**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/26/2006 6:53:17 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/26/2006 6:53:17 AM
Surr: DNOP	89.6	61.7-135		%REC	1	10/26/2006 6:53:17 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/27/2006 5:01:26 PM
Surr: BFB	105	84.5-129		%REC	1	10/27/2006 5:01:26 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: **LMM**
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	10/25/2006
Benzene	ND	0.050		mg/Kg	1	10/25/2006
Toluene	ND	0.050		mg/Kg	1	10/25/2006
Ethylbenzene	ND	0.050		mg/Kg	1	10/25/2006
Xylenes, Total	ND	0.10		mg/Kg	1	10/25/2006
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	10/25/2006
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	10/25/2006
Surr: Dibromofluoromethane	70.2	66.6-145		%REC	1	10/25/2006

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Date: *30-Oct-06*

CLIENT:	Industrial Ecosystems, Inc.	Client Sample ID:	Pile 516
Lab Order:	0610245	Collection Date:	10/20/2006 10:40:00 AM
Project:	JFJ Land Farm	Date Received:	10/23/2006
Lab ID:	0610245-25	Matrix:	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	1400	200		mg/Kg	20	10/26/2006 7:28:09 AM
Motor Oil Range Organics (MRO)	2400	1000		mg/Kg	20	10/26/2006 7:28:09 AM
Surr: DNOP	0	61.7-135	S	%REC	20	10/26/2006 7:28:09 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	10/27/2006 7:02:53 PM
Surr: BFB	105	84.5-129		%REC	5	10/27/2006 7:02:53 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: LMM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	10/25/2006
Benzene	ND	0.050		mg/Kg	1	10/25/2006
Toluene	ND	0.050		mg/Kg	1	10/25/2006
Ethylbenzene	ND	0.050		mg/Kg	1	10/25/2006
Xylenes, Total	ND	0.10		mg/Kg	1	10/25/2006
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	10/25/2006
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	10/25/2006
Surr: Dibromofluoromethane	71.8	66.6-145		%REC	1	10/25/2006

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *30-Oct-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	Pile 533
Lab Order:	0610245	**Collection Date:**	10/20/2006 11:06:00 AM
Project:	JFJ Land Farm	**Date Received:**	10/23/2006
Lab ID:	0610245-26	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	820	200		mg/Kg	20	10/26/2006 8:03:11 AM
Motor Oil Range Organics (MRO)	1300	1000		mg/Kg	20	10/26/2006 8:03:11 AM
Surr: DNOP	0	61.7-135	S	%REC	20	10/26/2006 8:03:11 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	10/27/2006 7:33:25 PM
Surr: BFB	102	84.5-129		%REC	5	10/27/2006 7:33:25 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: LMM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	10/25/2006
Benzene	ND	0.050		mg/Kg	1	10/25/2006
Toluene	ND	0.050		mg/Kg	1	10/25/2006
Ethylbenzene	ND	0.050		mg/Kg	1	10/25/2006
Xylenes, Total	ND	0.10		mg/Kg	1	10/25/2006
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	10/25/2006
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	10/25/2006
Surr: Dibromofluoromethane	72.7	66.6-145		%REC	1	10/25/2006

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *30-Oct-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	Pile 505
Lab Order:	0610245	**Collection Date:**	10/20/2006 10:30:00 AM
Project:	JFJ Land Farm	**Date Received:**	10/23/2006
Lab ID:	0610245-27	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	2000	200		mg/Kg	20	10/26/2006 8:38:19 AM
Motor Oil Range Organics (MRO)	3600	1000		mg/Kg	20	10/26/2006 8:38:19 AM
Surr: DNOP	0	61.7-135	S	%REC	20	10/26/2006 8:38:19 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	10/27/2006 8:03:54 PM
Surr: BFB	105	84.5-129		%REC	5	10/27/2006 8:03:54 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: LMM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	10/25/2006
Benzene	ND	0.050		mg/Kg	1	10/25/2006
Toluene	ND	0.050		mg/Kg	1	10/25/2006
Ethylbenzene	ND	0.050		mg/Kg	1	10/25/2006
Xylenes, Total	ND	0.10		mg/Kg	1	10/25/2006
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	10/25/2006
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	10/25/2006
Surr: Dibromofluoromethane	69.6	66.6-145		%REC	1	10/25/2006

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *30-Oct-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	Pile 521
Lab Order:	0610245	**Collection Date:**	10/20/2006 10:46:00 AM
Project:	*JFJ Land Farm*	**Date Received:**	10/23/2006
Lab ID:	0610245-28	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	2000	200		mg/Kg	20	10/26/2006 9:13:21 AM
Motor Oil Range Organics (MRO)	4100	1000		mg/Kg	20	10/26/2006 9:13:21 AM
Surr: DNOP	0	61.7-135	S	%REC	20	10/26/2006 9:13:21 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	10/27/2006 8:34:27 PM
Surr: BFB	106	84.5-129		%REC	5	10/27/2006 8:34:27 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: LMM
Methyl tert-butyl ether (MTBE)	ND	0.050		mg/Kg	1	10/25/2006
Benzene	ND	0.050		mg/Kg	1	10/25/2006
Toluene	ND	0.050		mg/Kg	1	10/25/2006
Ethylbenzene	ND	0.050		mg/Kg	1	10/25/2006
Xylenes, Total	ND	0.10		mg/Kg	1	10/25/2006
1,2,4-Trimethylbenzene	ND	0.050		mg/Kg	1	10/25/2006
1,3,5-Trimethylbenzene	ND	0.050		mg/Kg	1	10/25/2006
Surr: Dibromofluoromethane	69.7	66.6-145		%REC	1	10/25/2006

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- RL Reporting Limit
- S Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Industrial Ecosystems, Inc.
Project: JFJ Land Farm **Work Order:** 0610245

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: SW8015									
Sample ID: MB-11558		*MBLK*			Batch ID:	11558	Analysis Date:	10/25/2006 10:46:14 PM	
Diesel Range Organics (DRO)	ND	mg/Kg	10						
Motor Oil Range Organics (MRO)	ND	mg/Kg	50						
Sample ID: LCS-11558		*LCS*			Batch ID:	11558	Analysis Date:	10/25/2006 11:21:00 PM	
Diesel Range Organics (DRO)	47.64	mg/Kg	10	95.3	64.6	116			
Sample ID: LCSD-11558		*LCSD*			Batch ID:	11558	Analysis Date:	10/25/2006 11:55:47 PM	
Diesel Range Organics (DRO)	46.66	mg/Kg	10	93.3	64.6	116	2.09	17.4	
Method: SW8015									
Sample ID: 0610245-20A MSD		*MSD*			Batch ID:	11566	Analysis Date:	10/27/2006 6:01:59 PM	
Gasoline Range Organics (GRO)	26.70	mg/Kg	5.0	103	73.4	115	5.38	11.6	
Sample ID: 0610245-24A MSD		*MSD*			Batch ID:	11567	Analysis Date:	10/27/2006 9:35:27 PM	
Gasoline Range Organics (GRO)	18.50	mg/Kg	5.0	74.0	73.4	115	2.67	11.6	
Sample ID: MB-11566		*MBLK*			Batch ID:	11566	Analysis Date:	10/27/2006 11:24:36 AM	
Gasoline Range Organics (GRO)	ND	mg/Kg	5.0						
Sample ID: MB-11567		*MBLK*			Batch ID:	11567	Analysis Date:	10/27/2006 10:05:52 PM	
Gasoline Range Organics (GRO)	ND	mg/Kg	5.0						
Sample ID: LCS-11566		*LCS*			Batch ID:	11566	Analysis Date:	10/27/2006 11:55:10 AM	
Gasoline Range Organics (GRO)	23.50	mg/Kg	5.0	94.0	73.4	115			
Sample ID: LCS-11567		*LCS*			Batch ID:	11567	Analysis Date:	10/27/2006 10:36:15 PM	
Gasoline Range Organics (GRO)	23.30	mg/Kg	5.0	93.2	73.4	115			
Sample ID: 0610245-20A MS		*MS*			Batch ID:	11566	Analysis Date:	10/27/2006 5:31:46 PM	
Gasoline Range Organics (GRO)	25.30	mg/Kg	5.0	97.6	73.4	115			
Sample ID: 0610245-24A MS		*MS*			Batch ID:	11567	Analysis Date:	10/27/2006 9:04:54 PM	
Gasoline Range Organics (GRO)	19.00	mg/Kg	5.0	76.0	73.4	115			

Qualifiers:

- 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
- R RPD outside accepted recovery limits
- S Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Industrial Ecosystems, Inc.
Project: JFJ Land Farm **Work Order:** 0610245

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: SW8260B									
Sample ID: 0610245-02a msd		*MSD*			Batch ID:	11566	Analysis Date:		10/25/2006
Benzene	0.9494	mg/Kg	0.050	94.9	78	126	4.61	19	
Toluene	0.9282	mg/Kg	0.050	92.8	79.4	117	3.36	0	
Sample ID: 0610245-26a msd		*MSD*			Batch ID:	11567	Analysis Date:		10/25/2006
Benzene	0.9971	mg/Kg	0.050	99.7	78	126	5.20	19	
Toluene	1.018	mg/Kg	0.050	102	79.4	117	0.265	0	
Sample ID: MB-11566		*MBLK*			Batch ID:	11566	Analysis Date:		10/25/2006
Methyl tert-butyl ether (MTBE)	ND	mg/Kg	0.050						
Benzene	ND	mg/Kg	0.050						
Toluene	ND	mg/Kg	0.050						
Ethylbenzene	ND	mg/Kg	0.050						
Xylenes, Total	ND	mg/Kg	0.10						
1,2,4-Trimethylbenzene	ND	mg/Kg	0.050						
1,3,5-Trimethylbenzene	ND	mg/Kg	0.050						
Sample ID: MB-11567		*MBLK*			Batch ID:	11567	Analysis Date:		10/25/2006
Methyl tert-butyl ether (MTBE)	ND	mg/Kg	0.050						
Benzene	ND	mg/Kg	0.050						
Toluene	ND	mg/Kg	0.050						
Ethylbenzene	ND	mg/Kg	0.050						
Xylenes, Total	ND	mg/Kg	0.10						
1,2,4-Trimethylbenzene	ND	mg/Kg	0.050						
1,3,5-Trimethylbenzene	ND	mg/Kg	0.050						
Sample ID: LCS-11566		*LCS*			Batch ID:	11566	Analysis Date:		10/25/2006
Benzene	1.003	mg/Kg	0.050	100	78	126			
Toluene	0.9719	mg/Kg	0.050	97.2	79.4	117			
Sample ID: LCS-11567		*LCS*			Batch ID:	11567	Analysis Date:		10/25/2006
Benzene	1.048	mg/Kg	0.050	105	78	126			
Toluene	0.9239	mg/Kg	0.050	92.4	79.4	117			
Sample ID: 0610245-02a ms		*MS*			Batch ID:	11566	Analysis Date:		10/25/2006
Benzene	0.9942	mg/Kg	0.050	99.4	78	126			
Toluene	0.9599	mg/Kg	0.050	96.0	79.4	117			
Sample ID: 0610245-26a ms		*MS*			Batch ID:	11567	Analysis Date:		10/25/2006
Benzene	1.050	mg/Kg	0.050	105	78	126			
Toluene	1.020	mg/Kg	0.050	102	79.4	117			

Qualifiers:

- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name IND ECO | Date and Time Received: 10/23/2006

Work Order Number 0610245 | Received by GLS

Checklist completed by G/Schleppe 10-23-06
Signature Date

Matrix | Carrier name UPS

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐	Not Shipped ☐
Custody seals intact on sample bottles?	Yes ☑	No ☐	N/A ☐	
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		
Water - VOA vials have zero headspace?	No VOA vials submitted ☑	Yes ☐	No ☐	
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑	

Container/Temp Blank temperature? 5° *4° C ± 2 Acceptable* If given sufficient time to cool.

COMMENTS:

Client contacted | Date contacted: | Person contacted

Contacted by: | Regarding

Comments: per SH collection times on Sample ID label are correct /AT 10/23/06. Sample ID is Pili #

Corrective Action

CHAIN-OF-CUSTODY RECORD

QA/QC Package: Std ☒ Level 4 ☐
Other:

HALL ENVIRONMENTAL ANALYSIS LABORATORY
4901 Hawkins NE, Suite D
Albuquerque, New Mexico 87109
Tel. 505.345.3975 Fax 505.345.4107
www.hallenvironmental.com

Client: Industrial Ecosystems
Address: #81 CR 3150, Aztec, NM 87410
Phone #: 505-632-1786
Fax #: 505-632-1876

Project Name: JFJ landfarm
Project #:
Project Manager: Jake Hatcher
Sampler: Steve Abeyta
Sample Temperature: 5°

HEAL No. 0610245

	Date	Time	Matrix	Sample I.D. No.	Number/Volume	Preservative: $HgCl_2$	Preservative: HNO_3	Preservative: Ice	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gasoline Only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	EDC (Method 8021)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F, Cl, NO_3, NO_2, PO_4, SO_4)	8081 Pesticides / PCB's (8082)	8260B (VOA)	8270 (Semi-VOA)					Air Bubbles or Headspace (Y or N)
0	10/20	~~9:32~~ 955 AT	Soil	Pile 522	1			✓	X		X														1
0	10/20	~~4:08~~ 900 AT	Soil	Pile 229	1			✓	X		X														2
0	10/20	~~4:00~~ 908 AT	Soil	Pile 231	1			✓	X		X														3
0	10/20	~~9:55~~ 932 AT	Soil	Pile 552	1			✓	X		X														4
0	10/20	10:10	Soil	Pile 527	1			✓	X		X														5
0	10/20	~~10:05~~ 1000 AT	Soil	Pile 526	1			✓	X		X														6
	10/20	7:44	Soil	Pile 518	1			✓	X		X														7
	10/20	9:15	Soil	Pile 551	1			✓	X		X														8
0	10/20	11:25	Soil	Pile 229	1			✓	X		X														9
0	10/20	10:22	Soil	Pile 528	1			✓	X		X														10
0	10/20	10:52	Soil	Pile 531	1			✓	X		X														11
0	10/20	10:26	Soil	Pile 509	1			✓	X		X														12

Date:	Time:	Relinquished By: (Signature)	Received By: (Signature)
10/20	1400		
Date:	Time:	Relinquished By: (Signature)	Received By: (Signature)
			10-23-06 1005

Remarks: email to: joel.owens@industrialecosystems.com
~~jake43@qwest.net~~

CHAIN-OF-CUSTODY RECORD

QA/QC Package: Std [X] Level 4 [ ]
Other:

Client: Industrial Ecosystems
Address: #81 CR 3150, Aztec, NM 87410
Phone #: 505-632-1782
Fax #: 505-632-1876

Project Name: JPJ Landfarm
Project #:
Project Manager: Jake Hatchen
Sampler: Steve Abeyta
Sample Temperature: 5°

HALL ENVIRONMENTAL ANALYSIS LABORATORY
4901 Hawkins NE, Suite D
Albuquerque, New Mexico 87109
Tel. 505.345.3975 Fax 505.345.4107
www.hallenvironmental.com

ANALYSIS REQUEST

Date	Time	Matrix	Sample I.D. No.	Number/Volume	Preservative: $HgCl_2$	Preservative: HNO_3	Preservative: Ice	HEAL No.	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gasoline Only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	EDC (Method 8021)	B310 (PNA or PAH)	RCRA 8 Metals	Anions (F, Cl, NO_3, NO_2, PO_4, SO_4)	8081 Pesticides / PCB's (8082)	8260B (VOA)	8270 (Semi-VOA)					Air Bubbles or Headspace (Y or N)
10/20	1306	Soil	Pile 61	1			✓	0610245 13	X		NO														
10/20	1130	Soil	Pile 230	1			✓	14	X		NO														
10/20	1118	Soil	Pile 207	1			✓	15	X		NO														
10/20	1360	Soil	Pile 63	1			✓	16	X		NO														
10/20	1148	Soil	Pile 70	1			✓	17	X		NO														
10/20	1110	Soil	Pile 538	1			✓	18	X		NO														
10/20	1230	Soil	Pile 38	1			✓	19	X		X														
10/20	1250	Soil	Pile 44	1			✓	20	X		X														
10/20	1207	Soil	Pile 5	1			✓	21	X		X														
10/20	1220	Soil	Pile 34	1			✓	22	X		X														
10/20	1200	Soil	Pile 2	1			✓	23	X		NO														
10/20	1242	Soil	Pile 40	1			✓	24	X		X														

Date:	Time:	Relinquished By: (Signature)	Received By: (Signature)
10/20	14:00		
Date:	Time:	Relinquished By: (Signature)	Received By: (Signature)
			10-23-06 1005

Remarks: Email: joel.owens@industrialecosystems.com

CHAIN-OF-CUSTODY RECORD

QA/QC Package: Std ☒ Level 4 ☐
Other:

Client: Industrial Ecosystems
Address: #81 CR 3150, Aztec, NM 87410
Phone #: 505-632-1782
Fax #: 505-632-1876

Project Name: JFJ Land Farm
Project #:
Project Manager: Jake Hatchen
Sampler: Steve Sheyta
Sample Temperature: 5°

HALL ENVIRONMENTAL ANALYSIS LABORATORY
4901 Hawkins NE, Suite D
Albuquerque, New Mexico 87109
Tel. 505.345.3975 Fax 505.345.4107
www.hallenvironmental.com

ANALYSIS REQUEST

Date	Time	Matrix	Sample I.D. No.	Number/Volume	Preservative: $HgCl_2$	Preservative: HNO_3	Preservative: ICE	HEAL No. 0610245	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gasoline Only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	EDC (Method 8021)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F, Cl, NO_3, NO_2, PO_4, SO_4)	8081 Pesticides / PCB's (8082)	8260B (VOA)	8270 (Semi-VOA)					Air Bubbles or Headspace (Y or N)
10/20	10:40	Soil	Pile - 516	1			✓	25	X		X														
10/20	11:06	Soil	Pile - 533	1			✓	26	X		X														
10/20	10:30	Soil	Pile - 505	1			✓	27	X		X														
10/20	10:46	Soil	Pile - 521	1			✓	28	X		X														

Date:	Time:	Relinquished By: (Signature)	Received By: (Signature)
~~10/20~~ 10/20	~~14:00~~ 14:01		
Date:	Time:	Relinquished By: (Signature)	Received By: (Signature)
			10-23-20 @ 1005

Remarks: Email joel-owens@industrialecosystems.com ~~joel@jfjinvestment~~

Jones, Brad A., EMNRD

From: Joel Owens [joel.owens@industrialecosystems.com]
Sent: Monday, October 16, 2006 11:53 AM
To: Jones, Brad A., EMNRD
Subject: FW: Request to Reuse Compost Piles in Accordance with Permit NM-01-0010B
Attachments: HALL1541_000.pdf

From: Joel Owens [mailto:joel.owens@industrialecosystems.com]
Sent: Monday, October 16, 2006 10:01 AM
To: 'brad.jones@state.nm.us'
Subject: Request to Reuse Compost Piles in Accordance with Permit NM-01-0010B

IEI
Industrial
Ecosystems Inc.

#81 CR 3150
Aztec, NM 87410

10/16/06

To: Brad Jones,
New Mexico Oil Conservation Division

From: Joel Owens,
JFJ Land farm L.L.C.
C/O Industrial Ecosystems Inc.

Subject: Request to Reuse Compost Piles in Accordance with Permit NM-01-0010B

In accordance with OCD 711 permit NM-01-0010B, Industrial Ecosystems requests approval from the New Mexico Oil Conservation Division to reuse the following Compost/Bio-piles:

1. Pile # 507
2. Pile # 529
3. Pile #21
4. Pile #03

5. Pile #504 Denied - TPH 142 ppm

Attached you will find the analytical results from Hall.

Thank you,

Joel Owens
Operations Manager
505-632-1782

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

COVER LETTER

Thursday, October 12, 2006

Jake Hatcher
Industrial Ecosystems, Inc.
#81 County Road 3150
Aztec, NM 87410

TEL: (505) 632-1782
FAX (505) 632-1876

RE: JFJ Land Farm

Order No.: 0610098

Dear Jake Hatcher:

Hall Environmental Analysis Laboratory, Inc. received 11 sample(s) on 10/10/2006 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent.

Reporting limits are determined by EPA methodology. No determination of compounds below these (denoted by the ND or < sign) has been made.

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

Sincerely,

Andy Freeman, Business Manager
Nancy McDuffie, Laboratory Manager

NM Lab # NM9425
AZ license # AZ0682
ORELAP Lab # NM100001

CLIENT: Industrial Ecosystems, Inc.
Project: JFJ Land Farm
Lab Order: 0610098

CASE NARRATIVE

"S" flags denote that the surrogate was not recoverable due to sample dilution or matrix interferences.

Hall Environmental Analysis Laboratory, Inc.

Date: *12-Oct-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	Pile 109 Key Yard
Lab Order:	0610098	**Collection Date:**	10/9/2006 9:24:00 AM
Project:	JFJ Land Farm	**Date Received:**	10/10/2006
Lab ID:	0610098-01	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	2300	200		mg/Kg	20	10/11/2006 10:23:38 PM
Motor Oil Range Organics (MRO) 3400	1300	1000		mg/Kg	20	10/11/2006 10:23:38 PM
Surr: DNOP	0	61.7-135	S	%REC	20	10/11/2006 10:23:38 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	100		mg/Kg	20	10/11/2006 8:49:56 PM
Surr: BFB	94.4	84.5-129		%REC	20	10/11/2006 8:49:56 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	1.0		mg/Kg	20	10/11/2006 8:49:56 PM
Toluene	ND	1.0		mg/Kg	20	10/11/2006 8:49:56 PM
Ethylbenzene	ND	1.0		mg/Kg	20	10/11/2006 8:49:56 PM
Xylenes, Total	ND	3.0		mg/Kg	20	10/11/2006 8:49:56 PM
Surr: 4-Bromofluorobenzene	97.0	76.8-115		%REC	20	10/11/2006 8:49:56 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *12-Oct-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	Pile 507 Basin
Lab Order:	0610098	**Collection Date:**	10/9/2006 9:34:00 AM
Project:	JFJ Land Farm	**Date Received:**	10/10/2006
Lab ID:	0610098-02	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/12/2006 5:21:02 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/12/2006 5:21:02 AM
Surr: DNOP	114	61.7-135		%REC	1	10/12/2006 5:21:02 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	10		mg/Kg	2	10/11/2006 9:21:32 PM
Surr: BFB	94.2	84.5-129		%REC	2	10/11/2006 9:21:32 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.10		mg/Kg	2	10/11/2006 9:21:32 PM
Toluene	ND	0.10		mg/Kg	2	10/11/2006 9:21:32 PM
Ethylbenzene	ND	0.10		mg/Kg	2	10/11/2006 9:21:32 PM
Xylenes, Total	ND	0.30		mg/Kg	2	10/11/2006 9:21:32 PM
Surr: 4-Bromofluorobenzene	95.0	76.8-115		%REC	2	10/11/2006 9:21:32 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *12-Oct-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	Pile 529 XTO/duke
Lab Order:	0610098	**Collection Date:**	10/9/2006 10:07:00 AM
Project:	JFJ Land Farm	**Date Received:**	10/10/2006
Lab ID:	0610098-03	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	30	10		mg/Kg	1	10/12/2006 5:55:35 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/12/2006 5:55:35 AM
Surr: DNOP	94.0	61.7-135		%REC	1	10/12/2006 5:55:35 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	10		mg/Kg	2	10/11/2006 9:53:07 PM
Surr: BFB	93.7	84.5-129		%REC	2	10/11/2006 9:53:07 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.10		mg/Kg	2	10/11/2006 9:53:07 PM
Toluene	ND	0.10		mg/Kg	2	10/11/2006 9:53:07 PM
Ethylbenzene	ND	0.10		mg/Kg	2	10/11/2006 9:53:07 PM
Xylenes, Total	ND	0.30		mg/Kg	2	10/11/2006 9:53:07 PM
Surr: 4-Bromofluorobenzene	96.3	76.8-115		%REC	2	10/11/2006 9:53:07 PM

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank	
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	
	J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level	
	ND	Not Detected at the Reporting Limit	RL	Reporting Limit	
	S	Spike recovery outside accepted recovery limits			

Hall Environmental Analysis Laboratory, Inc.

Date: *12-Oct-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	Pile 504 XTO/CDX
Lab Order:	0610098	**Collection Date:**	10/9/2006 9:30:00 AM
Project:	JFJ Land Farm	**Date Received:**	10/10/2006
Lab ID:	0610098-04	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	49	10		mg/Kg	1	10/11/2006 7:28:41 PM
Motor Oil Range Organics (MRO)	93	50		mg/Kg	1	10/11/2006 7:28:41 PM
Surr: DNOP	95.5	61.7-135		%REC	1	10/11/2006 7:28:41 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	10		mg/Kg	2	10/11/2006 10:24:50 PM
Surr: BFB	93.4	84.5-129		%REC	2	10/11/2006 10:24:50 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.10		mg/Kg	2	10/11/2006 10:24:50 PM
Toluene	ND	0.10		mg/Kg	2	10/11/2006 10:24:50 PM
Ethylbenzene	ND	0.10		mg/Kg	2	10/11/2006 10:24:50 PM
Xylenes, Total	ND	0.30		mg/Kg	2	10/11/2006 10:24:50 PM
Surr: 4-Bromofluorobenzene	95.0	76.8-115		%REC	2	10/11/2006 10:24:50 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *12-Oct-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	Pile 21 Williams
Lab Order:	0610098	**Collection Date:**	10/9/2006 9:00:00 AM
Project:	JFJ Land Farm	**Date Received:**	10/10/2006
Lab ID:	0610098-05	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JMP**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/11/2006 8:38:54 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/11/2006 8:38:54 PM
Surr: DNOP	87.6	61.7-135		%REC	1	10/11/2006 8:38:54 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	10		mg/Kg	2	10/11/2006 10:56:23 PM
Surr: BFB	97.2	84.5-129		%REC	2	10/11/2006 10:56:23 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.10		mg/Kg	2	10/11/2006 10:56:23 PM
Toluene	ND	0.10		mg/Kg	2	10/11/2006 10:56:23 PM
Ethylbenzene	ND	0.10		mg/Kg	2	10/11/2006 10:56:23 PM
Xylenes, Total	ND	0.30		mg/Kg	2	10/11/2006 10:56:23 PM
Surr: 4-Bromofluorobenzene	98.9	76.8-115		%REC	2	10/11/2006 10:56:23 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- RL Reporting Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *12-Oct-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	Pile 29 Basin
Lab Order:	0610098	**Collection Date:**	10/9/2006 9:42:00 AM
Project:	JFJ Land Farm	**Date Received:**	10/10/2006
Lab ID:	0610098-06	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	540	50		mg/Kg	5	10/12/2006 6:30:10 AM
Motor Oil Range Organics (MRO)	690	250		mg/Kg	5	10/12/2006 6:30:10 AM
Surr: DNOP	84.0	61.7-135		%REC	5	10/12/2006 6:30:10 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	10		mg/Kg	2	10/11/2006 11:27:50 PM
Surr: BFB	94.5	84.5-129		%REC	2	10/11/2006 11:27:50 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.10		mg/Kg	2	10/11/2006 11:27:50 PM
Toluene	ND	0.10		mg/Kg	2	10/11/2006 11:27:50 PM
Ethylbenzene	ND	0.10		mg/Kg	2	10/11/2006 11:27:50 PM
Xylenes, Total	ND	0.30		mg/Kg	2	10/11/2006 11:27:50 PM
Surr: 4-Bromofluorobenzene	97.2	76.8-115		%REC	2	10/11/2006 11:27:50 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Date: *12-Oct-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	Pile 108 Largo Tank
Lab Order:	0610098	**Collection Date:**	10/9/2006 9:20:00 AM
Project:	JFJ Land Farm	**Date Received:**	10/10/2006
Lab ID:	0610098-07	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	2300	200		mg/Kg	20	10/11/2006 10:58:29 PM
Motor Oil Range Organics (MRO) 3400	1100	1000		mg/Kg	20	10/11/2006 10:58:29 PM
Surr: DNOP	0	61.7-135	S	%REC	20	10/11/2006 10:58:29 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	10		mg/Kg	2	10/11/2006 11:59:26 PM
Surr: BFB	95.3	84.5-129		%REC	2	10/11/2006 11:59:26 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.10		mg/Kg	2	10/11/2006 11:59:26 PM
Toluene	ND	0.10		mg/Kg	2	10/11/2006 11:59:26 PM
Ethylbenzene	ND	0.10		mg/Kg	2	10/11/2006 11:59:26 PM
Xylenes, Total	ND	0.30		mg/Kg	2	10/11/2006 11:59:26 PM
Surr: 4-Bromofluorobenzene	98.4	76.8-115		%REC	2	10/11/2006 11:59:26 PM

Qualifiers:				
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
	ND	Not Detected at the Reporting Limit	RL	Reporting Limit
	S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *12-Oct-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	Pile 03 Basin
Lab Order:	0610098	**Collection Date:**	10/9/2006 9:11:00 AM
Project:	JFJ Land Farm	**Date Received:**	10/10/2006
Lab ID:	0610098-08	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/11/2006 9:14:02 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	10/11/2006 9:14:02 PM
Surr: DNOP	107	61.7-135		%REC	1	10/11/2006 9:14:02 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	10		mg/Kg	2	10/12/2006 12:31:01 AM
Surr: BFB	96.2	84.5-129		%REC	2	10/12/2006 12:31:01 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.10		mg/Kg	2	10/12/2006 12:31:01 AM
Toluene	ND	0.10		mg/Kg	2	10/12/2006 12:31:01 AM
Ethylbenzene	ND	0.10		mg/Kg	2	10/12/2006 12:31:01 AM
Xylenes, Total	ND	0.30		mg/Kg	2	10/12/2006 12:31:01 AM
Surr: 4-Bromofluorobenzene	97.7	76.8-115		%REC	2	10/12/2006 12:31:01 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *12-Oct-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	Pile 105 Graves
Lab Order:	0610098	**Collection Date:**	10/9/2006 9:50:00 AM
Project:	JFJ Land Farm	**Date Received:**	10/10/2006
Lab ID:	0610098-09	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	650	100		mg/Kg	10	10/12/2006 7:04:43 AM
Motor Oil Range Organics (MRO)	840	500		mg/Kg	10	10/12/2006 7:04:43 AM
Surr: DNOP	0	61.7-135	S	%REC	10	10/12/2006 7:04:43 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	10		mg/Kg	2	10/12/2006 1:02:40 AM
Surr: BFB	100	84.5-129		%REC	2	10/12/2006 1:02:40 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.10		mg/Kg	2	10/12/2006 1:02:40 AM
Toluene	ND	0.10		mg/Kg	2	10/12/2006 1:02:40 AM
Ethylbenzene	ND	0.10		mg/Kg	2	10/12/2006 1:02:40 AM
Xylenes, Total	ND	0.30		mg/Kg	2	10/12/2006 1:02:40 AM
Surr: 4-Bromofluorobenzene	97.2	76.8-115		%REC	2	10/12/2006 1:02:40 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *12-Oct-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	Pile 517 XTO/Energen
Lab Order:	0610098	**Collection Date:**	10/9/2006 9:58:00 AM
Project:	JFJ Land Farm	**Date Received:**	10/10/2006
Lab ID:	0610098-10	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	590	100		mg/Kg	10	10/11/2006 11:33:15 PM
Motor Oil Range Organics (MRO)	650	500		mg/Kg	10	10/11/2006 11:33:15 PM
Surr: DNOP	0	61.7-135	S	%REC	10	10/11/2006 11:33:15 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	10		mg/Kg	2	10/12/2006 1:34:20 AM
Surr: BFB	95.6	84.5-129		%REC	2	10/12/2006 1:34:20 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.10		mg/Kg	2	10/12/2006 1:34:20 AM
Toluene	ND	0.10		mg/Kg	2	10/12/2006 1:34:20 AM
Ethylbenzene	ND	0.10		mg/Kg	2	10/12/2006 1:34:20 AM
Xylenes, Total	ND	0.30		mg/Kg	2	10/12/2006 1:34:20 AM
Surr: 4-Bromofluorobenzene	95.7	76.8-115		%REC	2	10/12/2006 1:34:20 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Date: *12-Oct-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	Pile 557 Dugan
Lab Order:	0610098	**Collection Date:**	10/9/2006 10:15:00 AM
Project:	JFJ Land Farm	**Date Received:**	10/10/2006
Lab ID:	0610098-11	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	420	100		mg/Kg	10	10/12/2006 12:08:02 AM
Motor Oil Range Organics (MRO)	ND	500		mg/Kg	10	10/12/2006 12:08:02 AM
Surr: DNOP	0	61.7-135	S	%REC	10	10/12/2006 12:08:02 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	21	10		mg/Kg	2	10/12/2006 4:30:27 AM
Surr: BFB	240	84.5-129	S	%REC	2	10/12/2006 4:30:27 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.10		mg/Kg	2	10/12/2006 4:30:27 AM
Toluene	ND	0.10		mg/Kg	2	10/12/2006 4:30:27 AM
Ethylbenzene	ND	0.10		mg/Kg	2	10/12/2006 4:30:27 AM
Xylenes, Total	0.46	0.30		mg/Kg	2	10/12/2006 4:30:27 AM
Surr: 4-Bromofluorobenzene	109	76.8-115		%REC	2	10/12/2006 4:30:27 AM

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
	ND	Not Detected at the Reporting Limit	RL	Reporting Limit
	S	Spike recovery outside accepted recovery limits		

QA/QC SUMMARY REPORT

Client: Industrial Ecosystems, Inc.
Project: JFJ Land Farm **Work Order:** 0610098

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: SW8015									
Sample ID: MB-11462		*MBLK*			Batch ID:	**11462**	Analysis Date:	10/11/2006 3:56:58 PM	
Diesel Range Organics (DRO)	ND	mg/Kg	10						
Motor Oil Range Organics (MRO)	ND	mg/Kg	50						
Sample ID: LCS-11462		*LCS*			Batch ID:	**11462**	Analysis Date:	10/11/2006 4:32:20 PM	
Diesel Range Organics (DRO)	36.19	mg/Kg	10	72.4	64.6	116			
Sample ID: LCSD-11462		*LCSD*			Batch ID:	**11462**	Analysis Date:	10/11/2006 5:07:41 PM	
Diesel Range Organics (DRO)	39.88	mg/Kg	10	79.8	64.6	116	9.70	17.4	
Method: SW8015									
Sample ID: MB-11460		*MBLK*			Batch ID:	**11460**	Analysis Date:	10/11/2006 7:20:21 PM	
Gasoline Range Organics (GRO)	ND	mg/Kg	5.0						
Sample ID: LCS-11460		*LCS*			Batch ID:	**11460**	Analysis Date:	10/11/2006 7:49:20 PM	
Gasoline Range Organics (GRO)	24.40	mg/Kg	5.0	97.6	73.4	115			
Sample ID: LCSD-11460		*LCSD*			Batch ID:	**11460**	Analysis Date:	10/11/2006 8:18:18 PM	
Gasoline Range Organics (GRO)	24.90	mg/Kg	5.0	99.6	73.4	115	2.03	11.6	
Method: SW8021									
Sample ID: MB-11460		*MBLK*			Batch ID:	**11460**	Analysis Date:	10/11/2006 7:20:21 PM	
Benzene	ND	mg/Kg	0.050						
Toluene	ND	mg/Kg	0.050						
Ethylbenzene	ND	mg/Kg	0.050						
Xylenes, Total	ND	mg/Kg	0.15						
Sample ID: LCS-11460		*LCS*			Batch ID:	**11460**	Analysis Date:	10/11/2006 7:49:20 PM	
Benzene	0.2756	mg/Kg	0.050	86.1	77.5	123			
Toluene	1.878	mg/Kg	0.050	93.9	85.3	129			
Ethylbenzene	0.3715	mg/Kg	0.050	95.3	79.6	121			
Xylenes, Total	2.163	mg/Kg	0.15	103	80	130			
Sample ID: LCSD-11460		*LCSD*			Batch ID:	**11460**	Analysis Date:	10/11/2006 8:18:18 PM	
Benzene	0.2812	mg/Kg	0.050	87.9	77.5	123	2.01	27	
Toluene	1.894	mg/Kg	0.050	94.7	85.3	129	0.833	19	
Ethylbenzene	0.3742	mg/Kg	0.050	95.9	79.6	121	0.724	10	
Xylenes, Total	2.180	mg/Kg	0.15	104	80	130	0.797	13	

Qualifiers:

- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name IND ECO | Date and Time Received: 10/10/2006

Work Order Number 0610098 | Received by BLM

Checklist completed by Bobby Morris 10/10/06
Signature | Date

Matrix | Carrier name UPS

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☐	Not Shipped ☑
Custody seals intact on sample bottles?	Yes ☑	No ☐	N/A ☐	
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		
Water - VOA vials have zero headspace?	No VOA vials submitted ☑	Yes ☐	No ☐	
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑	

Container/Temp Blank temperature? **20°** *4° C ± 2 Acceptable* If given sufficient time to cool.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____

CHAIN-OF-CUSTODY RECORD

QA/QC Package: Std ☒ Level 4 ☐
Other:

Client: Industrial Ecosystems
Address: #81 CR 3150
Aztec, NM 87410
Phone #: 505-632-1782
Fax #: 505-632-1876

Project Name: JFJ Land Farm
Project #:
Project Manager: Jake Hatcher
Sampler: Steve Abeyta
Sample Temperature: 20°

HALL ENVIRONMENTAL ANALYSIS LABORATORY
4901 Hawkins NE, Suite D
Albuquerque, New Mexico 87109
Tel. 505.345.3975 Fax 505.345.4107
www.hallenvironmental.com

ANALYSIS REQUEST

Date	Time	Matrix	Sample I.D. No.	Number/Volume	Preservative $HgCl_2$	Preservative HNO_3	Preservative	HEAL No. 0610098	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gasoline Only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	EDC (Method 8021)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F, Cl, NO_3, NO_2, PO_4, SO_4)	8081 Pesticides / PCB's (8082)	8260B (VOA)	8270 (Semi-VOA)					Air Bubbles or Headspace (Y or N)
10/9	0924	Soil	Pile 109 Key Yard	(1)			Ice	-1	X		X														
10/9	0934		Pile 507 Basin	(1)				-2	X		X														
10/9	1007		Pile 529 XTO/Duke	(1)				-3	X		X														
10/9	0930		Pile 504 XTO/CDX	(1)				-4	X		X														
10/9	0900		Pile 21 Williams	(1)				-5	X		X														
10/9	0942		Pile 29 Basin	(1)				-6	X		X														
10/9	0920		Pile 108 Navajo Tank	(1)				-7	X		X														
10/9	0911		Pile 03 Basin	(1)				-8	X		X														
10/9	0950		Pile 105 Graves	(1)				-9	X		X														
10/9	0958		Pile 517 XTO/Energen	(1)				-10	X		X														
10/9	1015		Pile 557 Dugan	(1)				-11	X		X														
10/9																									

Date:	Time:	Relinquished By: (Signature)	Received By: (Signature)
10/9/06	11:00		Eddy Morris 10/10/05 12:00
Date:	Time:	Relinquished By: (Signature)	Received By: (Signature)

Remarks:
Additionally email duplicate results to ~~owens-joel@industrial~~ joel_owens ecosystems.com

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

COVER LETTER

Monday, September 11, 2006

Jake Hatcher
Industrial Ecosystems, Inc.
#81 County Road 3150
Aztec, NM 87410

TEL: (505) 632-1782
FAX (505) 632-1876

RE: JFJ Land Farm

Order No.: 0608360

Dear Jake Hatcher:

Hall Environmental Analysis Laboratory, Inc. received 9 sample(s) on 8/31/2006 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent.

Reporting limits are determined by EPA methodology. No determination of compounds below these (denoted by the ND or < sign) has been made.

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

Sincerely,

Andy Freeman, Business Manager
Nancy McDuffie, Laboratory Manager

AZ license # AZ0682
ORELAP Lab # NM100001

4901 Hawkins NE ■ Suite D ■ Albuquerque, NM 87109
505.345.3975 ■ Fax 505.345.4107
www.hallenvironmental.com

Hall Environmental Analysis Laboratory, Inc. Date: *11-Sep-06*

CLIENT:	Industrial Ecosystems, Inc.
Project:	JFJ Land Farm
Lab Order:	0608360

CASE NARRATIVE

Analytical Comments for METHOD 8015DRO_S, SAMPLE 0608360-03A: DNOP not recovered due to dilution Analytical Comments for METHOD 8015DRO_S, SAMPLE 0608360-05A: DNOP not recovered due to dilution Analytical Comments for METHOD 8015GRO_S, SAMPLE 0608360-06A: Sample re-analyzed on 9/8/2006, high surrogate interference confirmed.

Hall Environmental Analysis Laboratory, Inc.

Date: *11-Sep-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	Pile 229 Energen XTO
Lab Order:	0608360	**Collection Date:**	8/29/2006 11:08:00 AM
Project:	JFJ Land Farm	**Date Received:**	8/31/2006
Lab ID:	0608360-01	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **SCC**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	9/2/2006 3:15:26 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	9/2/2006 3:15:26 PM
Surr: DNOP	114	61.7-135		%REC	1	9/2/2006 3:15:26 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/8/2006 12:55:09 AM
Surr: BFB	122	84.5-129		%REC	1	9/8/2006 12:55:09 AM

Qualifiers:				
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	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
	S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *11-Sep-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	Pile 538 XTO
Lab Order:	0608360	**Collection Date:**	8/29/2006 11:00:00 AM
Project:	JFJ Land Farm	**Date Received:**	8/31/2006
Lab ID:	0608360-02	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **SCC**
Diesel Range Organics (DRO)	33	10		mg/Kg	1	9/3/2006 8:26:57 PM
Motor Oil Range Organics (MRO)	62	50		mg/Kg	1	9/3/2006 8:26:57 PM
Surr: DNOP	110	61.7-135		%REC	1	9/3/2006 8:26:57 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/8/2006 1:24:06 AM
Surr: BFB	119	84.5-129		%REC	1	9/8/2006 1:24:06 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
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
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *11-Sep-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	Pile 21 Williams
Lab Order:	0608360	**Collection Date:**	8/29/2006 11:50:00 AM
Project:	JFJ Land Farm	**Date Received:**	8/31/2006
Lab ID:	0608360-03	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **SCC**
Diesel Range Organics (DRO)	3200	500		mg/Kg	50	9/2/2006 9:16:11 PM
Motor Oil Range Organics (MRO)	7200	2500		mg/Kg	50	9/2/2006 9:16:11 PM
Surr: DNOP	0	61.7-135	S	%REC	50	9/2/2006 9:16:11 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	50		mg/Kg	10	9/8/2006 2:51:09 AM
Surr: BFB	108	84.5-129		%REC	10	9/8/2006 2:51:09 AM

Qualifiers:				
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	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
	S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *11-Sep-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	Pile 108 Largo
Lab Order:	0608360	**Collection Date:**	8/29/2006 11:40:00 AM
Project:	JFJ Land Farm	**Date Received:**	8/31/2006
Lab ID:	0608360-04	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **SCC**
Diesel Range Organics (DRO)	650	100		mg/Kg	10	9/2/2006 9:49:02 PM
Motor Oil Range Organics (MRO)	760	500		mg/Kg	10	9/2/2006 9:49:02 PM
Surr: DNOP	73.2	61.7-135		%REC	10	9/2/2006 9:49:02 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	9/8/2006 3:20:06 AM
Surr: BFB	109	84.5-129		%REC	5	9/8/2006 3:20:06 AM

Qualifiers:				
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	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
	S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *11-Sep-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	Pile 49 Burlington
Lab Order:	0608360	**Collection Date:**	8/29/2006 11:42:00 AM
Project:	JFJ Land Farm	**Date Received:**	8/31/2006
Lab ID:	0608360-05	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **SCC**
Diesel Range Organics (DRO)	4600	200		mg/Kg	20	9/2/2006 10:21:49 PM
Motor Oil Range Organics (MRO)	6500	1000		mg/Kg	20	9/2/2006 10:21:49 PM
Surr: DNOP	0	61.7-135	S	%REC	20	9/2/2006 10:21:49 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	50		mg/Kg	10	9/8/2006 3:49:00 AM
Surr: BFB	107	84.5-129		%REC	10	9/8/2006 3:49:00 AM

Qualifiers:				
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	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
	S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *11-Sep-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	Pile 2 XTO Duke
Lab Order:	0608360	**Collection Date:**	8/29/2006 11:26:00 AM
Project:	JFJ Land Farm	**Date Received:**	8/31/2006
Lab ID:	0608360-06	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	34	10		mg/Kg	1	9/2/2006 6:00:50 PM
Motor Oil Range Organics (MRO)	65	50		mg/Kg	1	9/2/2006 6:00:50 PM
Surr: DNOP	94.8	61.7-135		%REC	1	9/2/2006 6:00:50 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/8/2006 4:17:48 AM
Surr: BFB	142	84.5-129	S	%REC	1	9/8/2006 4:17:48 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
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
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *11-Sep-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	Pile 03 Basin
Lab Order:	0608360	**Collection Date:**	8/29/2006 11:32:00 AM
Project:	JFJ Land Farm	**Date Received:**	8/31/2006
Lab ID:	0608360-07	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	120	10		mg/Kg	1	9/2/2006 6:33:46 PM
Motor Oil Range Organics (MRO)	150	50		mg/Kg	1	9/2/2006 6:33:46 PM
Surr: DNOP	102	61.7-135		%REC	1	9/2/2006 6:33:46 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	10		mg/Kg	2	9/8/2006 4:46:45 AM
Surr: BFB	110	84.5-129		%REC	2	9/8/2006 4:46:45 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
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
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *11-Sep-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	Pile 16 XTO
Lab Order:	0608360	**Collection Date:**	8/29/2006 11:20:00 AM
Project:	JFJ Land Farm	**Date Received:**	8/31/2006
Lab ID:	0608360-08	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **SCC**
Diesel Range Organics (DRO)	150	10		mg/Kg	1	9/2/2006 7:06:35 PM
Motor Oil Range Organics (MRO)	300	50		mg/Kg	1	9/2/2006 7:06:35 PM
Surr: DNOP	97.6	61.7-135		%REC	1	9/2/2006 7:06:35 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	10		mg/Kg	2	9/8/2006 5:15:36 AM
Surr: BFB	110	84.5-129		%REC	2	9/8/2006 5:15:36 AM

Qualifiers:				
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	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
	S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *11-Sep-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	Pile 70 Basin
Lab Order:	0608360	**Collection Date:**	8/29/2006 11:12:00 AM
Project:	JFJ Land Farm	**Date Received:**	8/31/2006
Lab ID:	0608360-09	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	9/2/2006 7:39:19 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	9/2/2006 7:39:19 PM
Surr: DNOP	95.6	61.7-135		%REC	1	9/2/2006 7:39:19 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/8/2006 5:44:35 AM
Surr: BFB	122	84.5-129		%REC	1	9/8/2006 5:44:35 AM

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	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
	S	Spike Recovery outside accepted recovery limits		

QA/QC SUMMARY REPORT

Client: Industrial Ecosystems, Inc.
Project: JFJ Land Farm **Work Order:** 0608360

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: SW8015									
Sample ID: 0608360-01AMSD		*MSD*			Batch ID: **11167**		Analysis Date:		9/2/2006 4:21:33 PM
Diesel Range Organics (DRO)	55.73	mg/Kg	10	111	67.4	117	9.88	17.4	
Sample ID: MB-11167		*MBLK*			Batch ID: **11167**		Analysis Date:		9/1/2006 12:53:20 AM
Diesel Range Organics (DRO)	ND	mg/Kg	10						
Motor Oil Range Organics (MRO)	ND	mg/Kg	50						
Sample ID: LCS-11167		*LCS*			Batch ID: **11167**		Analysis Date:		8/31/2006 5:12:58 PM
Diesel Range Organics (DRO)	48.84	mg/Kg	10	97.7	64.6	116			
Motor Oil Range Organics (MRO)	ND	mg/Kg	50						
Sample ID: LCSD-11167		*LCSD*			Batch ID: **11167**		Analysis Date:		8/31/2006 5:46:16 PM
Diesel Range Organics (DRO)	48.54	mg/Kg	10	97.1	64.6	116	0.604	17.4	
Sample ID: 0608360-01AMS		*MS*			Batch ID: **11167**		Analysis Date:		9/2/2006 3:48:30 PM
Diesel Range Organics (DRO)	50.48	mg/Kg	10	101	67.4	117			
Method: SW8015									
Sample ID: MB-11166		*MBLK*			Batch ID: **11166**		Analysis Date:		9/1/2006 12:12:10 PM
Gasoline Range Organics (GRO)	ND	mg/Kg	5.0						
Sample ID: LCS-11166		*LCS*			Batch ID: **11166**		Analysis Date:		9/1/2006 12:54:59 PM
Gasoline Range Organics (GRO)	24.50	mg/Kg	5.0	98.0	73.4	115			
Sample ID: LCSD-11166		*LCSD*			Batch ID: **11166**		Analysis Date:		9/1/2006 1:24:58 PM
Gasoline Range Organics (GRO)	24.20	mg/Kg	5.0	96.8	73.4	115	1.23	11.6	

Qualifiers:

- 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
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name IND ECO | Date and Time Received: 8/31/2006

Work Order Number 0608360 | Received by GLS

Checklist completed by [signature] Signature | 8-31-06 Date

Matrix | Carrier name FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐	Not Shipped ☐
Custody seals intact on sample bottles?	Yes ☑	No ☐	N/A ☐	
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		
Water - VOA vials have zero headspace?	No VOA vials submitted ☑	Yes ☐	No ☐	
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑	
Container/Temp Blank temperature?	3°	*4° C ± 2 Acceptable* If given sufficient time to cool.		

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____

CHAIN-OF-CUSTODY RECORD

QA / QC Package:
Std ☐ Level 4 ☐
Other:

HALL ENVIRONMENTAL ANALYSIS LABORATORY
4901 Hawkins NE, Suite D
Albuquerque, New Mexico 87109
Tel. 505.345.3975 Fax 505.345.4107
www.hallenvironmental.com

Client: Industrial Ecosystems
Address: #81 CR 3150
Aztec NM 87410
Phone #: 505-632-1782
Fax #: 505-632-1876

Project Name: JFJ Landfarm
Project #:
Project Manager: Jake Hatcher
Sampler: Steve Abeyta
Sample Temperature: 3°

ANALYSIS REQUEST

Date	Time	Matrix	Sample I.D. No.	Number/Volume	Preservative $HgCl_2$	Preservative HNO_3	HEAL No. 0608360	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gasoline Only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	EDC (Method 8021)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F, Cl, NO_3, NO_2, PO_4, SO_4)	8081 Pesticides / PCB's (8082)	8260B (VOA)	8270 (Semi-VOA)					Air Bubbles or Headspace (Y or N)
8/29/06	11:08	Soil	Pile 229 Energer XTO	1-4oz			001			X														
8/29/06	11:00		Pile 538 XTO	1-4oz			002			X														
8/29/06	11:50		Pile 21 Williams	1-4oz			003			X														
8/29/06	11:40		Pile 108 Lapco	1-4oz			004			X														
8/29/06	11:42		Pile 49 Burlington	1-4oz			005			X														
8/29/06	11:26		Pile 2 XTO Duke	1-4oz			006			X														
8/29/06	11:32		Pile 03 Basin	1-4oz			007			X														
8/29/06	11:20		Pile 16 XTO	1-4oz			008			X														
8/29/06	11:12	↓	Pile 20 Basin	1-4oz			009			X														

Date: 8/29/06 Time: 3:00 PM Relinquished By: (Signature)
Received By: (Signature) 8-31-06 0945
Date: Time: Relinquished By: (Signature)
Received By: (Signature)

Remarks:

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

COVER LETTER

Tuesday, July 25, 2006

Jake Hatcher
Industrial Ecosystems, Inc.
#81 County Road 3150
Aztec, NM 87410

TEL: (505) 632-1782
FAX (505) 632-1876

RE: JFJ Land Farm

Order No.: 0607161

Dear Jake Hatcher:

Hall Environmental Analysis Laboratory, Inc. received 11 sample(s) on 7/14/2006 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent.

Reporting limits are determined by EPA methodology. No determination of compounds below these (denoted by the ND or < sign) has been made.

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

Sincerely,

Andy Freeman, Business Manager
Nancy McDuffie, Laboratory Manager

AZ license # AZ0682
ORELAP Lab # NM100001

CLIENT:	Industrial Ecosystems, Inc.
Project:	JFJ Land Farm
Lab Order:	0607161

CASE NARRATIVE

"S" flags denote that the surrogate was not recoverable due to sample dilution or matrix interferences.

Hall Environmental Analysis Laboratory, Inc.

Date: *25-Jul-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	Pile #2 XTO/Duke
Lab Order:	0607161	**Collection Date:**	7/12/2006 8:15:00 AM
Project:	JFJ Land Farm	**Date Received:**	7/14/2006
Lab ID:	0607161-01	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **SCC**
Diesel Range Organics (DRO)	200	10		mg/Kg	1	7/20/2006 12:28:24 PM
Motor Oil Range Organics (MRO)	120	50		mg/Kg	1	7/20/2006 12:28:24 PM
Surr: DNOP	112	61.7-135		%REC	1	7/20/2006 12:28:24 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	7/21/2006 7:26:15 PM
Surr: BFB	92.2	81.7-127		%REC	5	7/21/2006 7:26:15 PM

Qualifiers:				
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	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
	S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *25-Jul-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	Pile #03 Basin
Lab Order:	0607161	**Collection Date:**	7/12/2006 8:45:00 AM
Project:	JFJ Land Farm	**Date Received:**	7/14/2006
Lab ID:	0607161-02	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	260	10		mg/Kg	1	7/20/2006 1:01:27 PM
Motor Oil Range Organics (MRO)	300	50		mg/Kg	1	7/20/2006 1:01:27 PM
Surr: DNOP	112	61.7-135		%REC	1	7/20/2006 1:01:27 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	7/21/2006 7:56:19 PM
Surr: BFB	94.2	81.7-127		%REC	5	7/21/2006 7:56:19 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
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
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *25-Jul-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	Pile #21 Williams
Lab Order:	0607161	**Collection Date:**	7/12/2006 8:45:00 AM
Project:	JFJ Land Farm	**Date Received:**	7/14/2006
Lab ID:	0607161-03	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	3200	200		mg/Kg	20	7/20/2006 1:34:32 PM
Motor Oil Range Organics (MRO)	4800	1000		mg/Kg	20	7/20/2006 1:34:32 PM
Surr: DNOP	0	61.7-135	S	%REC	20	7/20/2006 1:34:32 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	250		mg/Kg	50	7/21/2006 8:26:32 PM
Surr: BFB	99.4	81.7-127		%REC	50	7/21/2006 8:26:32 PM

Qualifiers:				
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	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
	S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *25-Jul-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	Pile #29 Basin
Lab Order:	0607161	**Collection Date:**	7/12/2006 8:30:00 AM
Project:	JFJ Land Farm	**Date Received:**	7/14/2006
Lab ID:	0607161-04	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	7800	200		mg/Kg	20	7/20/2006 2:07:36 PM
Motor Oil Range Organics (MRO)	8100	1000		mg/Kg	20	7/20/2006 2:07:36 PM
Surr: DNOP	0	61.7-135	S	%REC	20	7/20/2006 2:07:36 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	250		mg/Kg	50	7/21/2006 9:56:44 PM
Surr: BFB	96.7	81.7-127		%REC	50	7/21/2006 9:56:44 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
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
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *25-Jul-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	Pile #40 Energen/Devon
Lab Order:	0607161	**Collection Date:**	7/12/2006 8:30:00 AM
Project:	JFJ Land Farm	**Date Received:**	7/14/2006
Lab ID:	0607161-05	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	2000	200		mg/Kg	20	7/20/2006 2:40:55 PM
Motor Oil Range Organics (MRO)	3200	1000		mg/Kg	20	7/20/2006 2:40:55 PM
Surr: DNOP	0	61.7-135	S	%REC	20	7/20/2006 2:40:55 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	100		mg/Kg	20	7/24/2006 2:39:20 PM
Surr: BFB	94.0	81.7-127		%REC	20	7/24/2006 2:39:20 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
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
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *25-Jul-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	Pile #44 Burlington
Lab Order:	0607161	**Collection Date:**	7/12/2006 8:30:00 AM
Project:	JFJ Land Farm	**Date Received:**	7/14/2006
Lab ID:	0607161-06	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	76	10		mg/Kg	1	7/20/2006 3:14:14 PM
Motor Oil Range Organics (MRO)	80	50		mg/Kg	1	7/20/2006 3:14:14 PM
Surr: DNOP	114	61.7-135		%REC	1	7/20/2006 3:14:14 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	10		mg/Kg	2	7/24/2006 3:09:38 PM
Surr: BFB	94.6	81.7-127		%REC	2	7/24/2006 3:09:38 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
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
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *25-Jul-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	Pile #54 Basin
Lab Order:	0607161	**Collection Date:**	7/12/2006 8:45:00 AM
Project:	JFJ Land Farm	**Date Received:**	7/14/2006
Lab ID:	0607161-07	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **SCC**
Diesel Range Organics (DRO)	5500	500		mg/Kg	50	7/20/2006 3:47:32 PM
Motor Oil Range Organics (MRO)	7000	2500		mg/Kg	50	7/20/2006 3:47:32 PM
Surr: DNOP	0	81.7-135	S	%REC	50	7/20/2006 3:47:32 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	250		mg/Kg	50	7/24/2006 3:40:04 PM
Surr: BFB	96.9	81.7-127		%REC	50	7/24/2006 3:40:04 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
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
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *25-Jul-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	Pile #518 Burlington
Lab Order:	0607161	**Collection Date:**	7/12/2006 8:00:00 AM
Project:	JFJ Land Farm	**Date Received:**	7/14/2006
Lab ID:	0607161-08	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	54	10		mg/Kg	1	7/20/2006 4:54:32 PM
Motor Oil Range Organics (MRO)	96	50		mg/Kg	1	7/20/2006 4:54:32 PM
Surr: DNOP	109	61.7-135		%REC	1	7/20/2006 4:54:32 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	10		mg/Kg	2	7/24/2006 4:41:00 PM
Surr: BFB	94.0	81.7-127		%REC	2	7/24/2006 4:41:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
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
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *25-Jul-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	Pile #551 Burlington
Lab Order:	0607161	**Collection Date:**	7/12/2006 8:00:00 AM
Project:	JFJ Land Farm	**Date Received:**	7/14/2006
Lab ID:	0607161-09	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	15	10		mg/Kg	1	7/20/2006 5:28:10 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/20/2006 5:28:10 PM
Surr: DNOP	105	61.7-135		%REC	1	7/20/2006 5:28:10 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/24/2006 5:11:26 PM
Surr: BFB	93.2	81.7-127		%REC	1	7/24/2006 5:11:26 PM

Qualifiers:				
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	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
	S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *25-Jul-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	Pile #552 Burlington
Lab Order:	0607161	**Collection Date:**	7/12/2006 8:00:00 AM
Project:	JFJ Land Farm	**Date Received:**	7/14/2006
Lab ID:	0607161-10	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	20	10		mg/Kg	1	7/20/2006 6:01:49 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/20/2006 6:01:49 PM
Surr: DNOP	105	61.7-135		%REC	1	7/20/2006 6:01:49 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/24/2006 5:41:51 PM
Surr: BFB	91.9	81.7-127		%REC	1	7/24/2006 5:41:51 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
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
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *25-Jul-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	Pile #553 XTO/Duke
Lab Order:	0607161	**Collection Date:**	7/12/2006 8:15:00 AM
Project:	JFJ Land Farm	**Date Received:**	7/14/2006
Lab ID:	0607161-11	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	74	10		mg/Kg	1	7/20/2006 6:35:11 PM
Motor Oil Range Organics (MRO)	63	50		mg/Kg	1	7/20/2006 6:35:11 PM
Surr: DNOP	104	61.7-135		%REC	1	7/20/2006 6:35:11 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	10		mg/Kg	2	7/24/2006 10:14:24 PM
Surr: BFB	93.9	81.7-127		%REC	2	7/24/2006 10:14:24 PM

Qualifiers:				
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	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
	S	Spike Recovery outside accepted recovery limits		

QA/QC SUMMARY REPORT

Client: Industrial Ecosystems, Inc.
Project: JFJ Land Farm
Work Order: 0607161

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: SW8015									
Sample ID: MB-10805		*MBLK*			Batch ID:	10805	Analysis Date:	7/15/2006 7:25:05 AM	
Diesel Range Organics (DRO)	ND	mg/Kg	10						
Motor Oil Range Organics (MRO)	ND	mg/Kg	50						
Sample ID: LCS-10805		*LCS*			Batch ID:	10805	Analysis Date:	7/15/2006 7:57:38 AM	
Diesel Range Organics (DRO)	43.24	mg/Kg	10	86.5	64.6	116			
Sample ID: LCSD-10805		*LCSD*			Batch ID:	10805	Analysis Date:	7/15/2006 9:02:32 AM	
Diesel Range Organics (DRO)	44.18	mg/Kg	10	88.4	64.6	116	2.16	17.4	
Method: SW8015									
Sample ID: 0607161-10A MSD		*MSD*			Batch ID:	10832	Analysis Date:	7/24/2006 8:42:30 PM	
Gasoline Range Organics (GRO)	26.50	mg/Kg	5.0	106	73.4	115	1.13	11.6	
Sample ID: MB-10832		*MBLK*			Batch ID:	10832	Analysis Date:	7/20/2006 9:57:17 AM	
Gasoline Range Organics (GRO)	ND	mg/Kg	5.0						
Sample ID: LCS-10832		*LCS*			Batch ID:	10832	Analysis Date:	7/20/2006 10:27:19 AM	
Gasoline Range Organics (GRO)	23.80	mg/Kg	5.0	95.2	73.4	115			
Sample ID: 0607161-10A MS		*MS*			Batch ID:	10832	Analysis Date:	7/24/2006 6:12:09 PM	
Gasoline Range Organics (GRO)	26.80	mg/Kg	5.0	107	73.4	115			

Qualifiers:

- 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
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name IND ECO | Date and Time Received: 7/14/2006

Work Order Number 0607161 | Received by NJM

Checklist completed by _____ 7/14/06
Signature | Date

Matrix: | Carrier name: Greyhound

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐	Not Shipped ☐
Custody seals intact on sample bottles?	Yes ☑	No ☐	N/A ☐	
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		
Water - VOA vials have zero headspace?	No VOA vials submitted ☑	Yes ☐	No ☐	
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑	

Container/Temp Blank temperature? 7° *4° C ± 2 Acceptable* If given sufficient time to cool.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

CHAIN-OF-CUSTODY RECORD

QA / QC Package:
Std ☐ Level 4 ☐
Other:

HALL ENVIRONMENTAL ANALYSIS LABORATORY
4901 Hawkins NE, Suite D
Albuquerque, New Mexico 87109
Tel. 505.345.3975 Fax 505.345.4107
www.hallenvironmental.com

Client: Industrial Ecosystems
Address: #81 CR 3150
Aztec NM 87410
Phone #: 505-632-1782
Fax #: 505-632-1876

Project Name: SFJ Landfarm
Project #:
Project Manager: Jake Hatcher
Sampler: Joe Bixby
Sample Temperature: 7

ANALYSIS REQUEST

Date	Time	Matrix	Sample I.D. No.	Number/Volume	Preservative $HgCl_2$	Preservative HNO_3		HEAL No.	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gasoline Only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	EDC (Method 8021)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F, Cl, NO_2, NO_3, PO_4, SO_4)	8081 Pesticides / PCB's (8082)	8260B (VOA)	8270 (Semi-VOA)					Air Bubbles or Headspace (Y or N)
7/12/06	AM 8:15	Soil	Pile #2 xto/Duke	1				0607161-1			X														
7/12/06	AM 9:45		Pile #03 Basin					-2			X														
7/12/06	AM 8:45		Pile #21 Williams					-3			X														
7/12/06	AM 8:30		Pile #29 Basin					-4			X														
7/12/06	AM 8:30		Pile #40 Energen/Devon					-5			X														
7/12/06	AM 8:30		Pile #44 Burlington					-6			X														
7/12/06	AM 8:45		Pile #54 Basin					-7			X														
7/12/06	AM 8:00		Pile #518 Burlington					-8			X														
7/12/06	AM 8:00		Pile #551 Burlington					-9			X														
7/12/06	AM 8:00		Pile #552 Burlington					-10			X														
7/12/06	AM 8:15		Pile #553 xto/Duke					-11			X														

Date	Time	Relinquished By: (Signature)	Received By: (Signature)	Remarks:
7/13/06	PM 3:00	Joe Bixby	7/14/06 10:45	
Date:	Time:	Relinquished By: (Signature)	Received By: (Signature)	

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

COVER LETTER

Wednesday, June 28, 2006

Jake Hatcher
Industrial Ecosystems, Inc.
#81 County Road 3150
Aztec, NM 87410

TEL: (505) 632-1782
FAX (505) 632-1876

RE: JFJ Land Farm

Order No.: 0606178

Dear Jake Hatcher:

Hall Environmental Analysis Laboratory, Inc. received 9 sample(s) on 6/16/2006 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent.

Reporting limits are determined by EPA methodology. No determination of compounds below these (denoted by the ND or < sign) has been made.

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

Sincerely,

Andy Freeman, Business Manager
Nancy McDuffie, Laboratory Manager

AZ license # AZ0682
ORELAP Lab # NM100001

CLIENT:	Industrial Ecosystems, Inc.
Project:	JFJ Land Farm
Lab Order:	0606178

CASE NARRATIVE

"S" flags denote that the surrogate was not recoverable due to sample dilution or matrix interferences.

Hall Environmental Analysis Laboratory, Inc.

Date: *28-Jun-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	Pile 49 Burlington
Lab Order:	0606178	**Collection Date:**	6/15/2006 12:30:00 PM
Project:	JFJ Land Farm	**Date Received:**	6/16/2006
Lab ID:	0606178-01	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	3700	200		mg/Kg	20	6/20/2006 6:01:43 PM
Motor Oil Range Organics (MRO)	4600	1000		mg/Kg	20	6/20/2006 6:01:43 PM
Surr: DNOP	0	61.7-135	S	%REC	20	6/20/2006 6:01:43 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: HLM
Gasoline Range Organics (GRO)	20	5.0		mg/Kg	1	6/21/2006 2:21:42 PM
Surr: BFB	249	81.7-127	S	%REC	1	6/21/2006 2:21:42 PM

Qualifiers:				
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	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
	S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *28-Jun-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	Pile 5 Basin
Lab Order:	0606178	**Collection Date:**	6/15/2006 12:00:00 PM
Project:	JFJ Land Farm	**Date Received:**	6/16/2006
Lab ID:	0606178-02	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	57	10		mg/Kg	1	6/20/2006 6:35:17 PM
Motor Oil Range Organics (MRO)	45	50	J	mg/Kg	1	6/20/2006 6:35:17 PM
Surr: DNOP	97.5	61.7-135		%REC	1	6/20/2006 6:35:17 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: HLM
Gasoline Range Organics (GRO)	3.7	5.0	J	mg/Kg	1	6/20/2006 5:24:42 PM
Surr: BFB	162	81.7-127	S	%REC	1	6/20/2006 5:24:42 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
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
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *28-Jun-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	Pile 2 XTO/Duke
Lab Order:	0606178	**Collection Date:**	6/15/2006 12:00:00 PM
Project:	JFJ Land Farm	**Date Received:**	6/16/2006
Lab ID:	0606178-03	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **SCC**
Diesel Range Organics (DRO)	450	10		mg/Kg	1	6/20/2006 7:08:39 PM
Motor Oil Range Organics (MRO)	160	50		mg/Kg	1	6/20/2006 7:08:39 PM
Surr: DNOP	100	61.7-135		%REC	1	6/20/2006 7:08:39 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **HLM**
Gasoline Range Organics (GRO)	7.6	5.0		mg/Kg	1	6/20/2006 5:53:48 PM
Surr: BFB	211	81.7-127	S	%REC	1	6/20/2006 5:53:48 PM

Qualifiers:				
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	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
	S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *28-Jun-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	Pile 504 XTO/Duke
Lab Order:	0606178	**Collection Date:**	6/15/2006 12:30:00 PM
Project:	JFJ Land Farm	**Date Received:**	6/16/2006
Lab ID:	0606178-04	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	2700	200		mg/Kg	20	6/20/2006 7:41:58 PM
Motor Oil Range Organics (MRO)	3600	1000		mg/Kg	20	6/20/2006 7:41:58 PM
Surr: DNOP	0	61.7-135	S	%REC	20	6/20/2006 7:41:58 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: HLM
Gasoline Range Organics (GRO)	0.80	5.0	J	mg/Kg	1	6/21/2006 2:50:49 PM
Surr: BFB	111	81.7-127		%REC	1	6/21/2006 2:50:49 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
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
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *28-Jun-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	Pile 29 Basin
Lab Order:	0606178	**Collection Date:**	6/15/2006 11:45:00 AM
Project:	JFJ Land Farm	**Date Received:**	6/16/2006
Lab ID:	0606178-05	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	630	100		mg/Kg	10	6/20/2006 8:15:20 PM
Motor Oil Range Organics (MRO)	810	500		mg/Kg	10	6/20/2006 8:15:20 PM
Surr: DNOP	93.5	61.7-135		%REC	10	6/20/2006 8:15:20 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: HLM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/20/2006 6:51:48 PM
Surr: BFB	102	81.7-127		%REC	1	6/20/2006 6:51:48 PM

Qualifiers:				
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	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
	S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *28-Jun-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	Pile 207 Burlington
Lab Order:	0606178	**Collection Date:**	6/15/2006 12:15:00 PM
Project:	JFJ Land Farm	**Date Received:**	6/16/2006
Lab ID:	0606178-06	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **SCC**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/20/2006 8:48:38 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/20/2006 8:48:38 PM
Surr: DNOP	83.4	61.7-135		%REC	1	6/20/2006 8:48:38 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **HLM**
Gasoline Range Organics (GRO)	2.3	5.0	J	mg/Kg	1	6/20/2006 7:20:50 PM
Surr: BFB	131	81.7-127	S	%REC	1	6/20/2006 7:20:50 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
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
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *28-Jun-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	Pile 518 Burlington
Lab Order:	0606178	**Collection Date:**	6/15/2006 11:30:00 AM
Project:	JFJ Land Farm	**Date Received:**	6/16/2006
Lab ID:	0606178-07	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **SCC**
Diesel Range Organics (DRO)	53	10		mg/Kg	1	6/21/2006 1:02:58 PM
Motor Oil Range Organics (MRO)	110	50		mg/Kg	1	6/21/2006 1:02:58 PM
Surr: DNOP	61.3	61.7-135	S	%REC	1	6/21/2006 1:02:58 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **HLM**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/20/2006 10:15:14 PM
Surr: BFB	97.7	81.7-127		%REC	1	6/20/2006 10:15:14 PM

Qualifiers:				
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	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
	S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *28-Jun-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	Pile 522 Burlington
Lab Order:	0606178	**Collection Date:**	6/15/2006 11:45:00 AM
Project:	JFJ Land Farm	**Date Received:**	6/16/2006
Lab ID:	0606178-08	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	23	10		mg/Kg	1	6/21/2006 1:36:15 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/21/2006 1:36:15 PM
Surr: DNOP	147	61.7-135	S	%REC	1	6/21/2006 1:36:15 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: HLM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/20/2006 10:44:21 PM
Surr: BFB	95.8	81.7-127		%REC	1	6/20/2006 10:44:21 PM

Qualifiers:				
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	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
	S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *28-Jun-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	Pile 230 Key
Lab Order:	0606178	**Collection Date:**	6/15/2006 12:15:00 PM
Project:	JFJ Land Farm	**Date Received:**	6/16/2006
Lab ID:	0606178-09	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **SCC**
Diesel Range Organics (DRO)	32	10		mg/Kg	1	6/20/2006 10:56:17 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/20/2006 10:56:17 PM
Surr: DNOP	87.6	61.7-135		%REC	1	6/20/2006 10:56:17 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **HLM**
Gasoline Range Organics (GRO)	4.9	5.0	J	mg/Kg	1	6/20/2006 11:13:23 PM
Surr: BFB	169	81.7-127	S	%REC	1	6/20/2006 11:13:23 PM

Qualifiers:				
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	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
	S	Spike Recovery outside accepted recovery limits		

QA/QC SUMMARY REPORT

Client: Industrial Ecosystems, Inc.
Project: JFJ Land Farm **Work Order:** 0606178

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: SW8015									Batch ID: 10632
Sample ID: MB-10632		*MBLK*							Analysis Date: 6/20/2006
Diesel Range Organics (DRO)	ND	mg/Kg	10						
Motor Oil Range Organics (MRO)	ND	mg/Kg	50						
Sample ID: LCS-10632		*LCS*							Analysis Date: 6/20/2006
Diesel Range Organics (DRO)	39.33	mg/Kg	10	78.7	64.6	116			
Sample ID: LCSD-10632		*LCSD*							Analysis Date: 6/20/2006
Diesel Range Organics (DRO)	41.81	mg/Kg	10	83.6	64.6	116	6.11	17.4	
Method: SW8015									Batch ID: 10631
Sample ID: MB-10631		*MBLK*							Analysis Date: 6/19/2006
Gasoline Range Organics (GRO)	ND	mg/Kg	5.0						
Sample ID: LCS-10631		*LCS*							Analysis Date: 6/19/2006
Gasoline Range Organics (GRO)	19.90	mg/Kg	5.0	79.6	73.4	115			

Qualifiers:

- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name IND ECO | Date and Time Received: 6/16/2006

Work Order Number 0606178 | Received by AT

Checklist completed by _____ 6/16/06
Signature Date

Matrix | Carrier name FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐		
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐	Not Shipped ☐	
Custody seals intact on sample bottles?	Yes ☐	No ☑	N/A ☐		
Chain of custody present?	Yes ☑	No ☐			
Chain of custody signed when relinquished and received?	Yes ☑	No ☐			
Chain of custody agrees with sample labels?	Yes ☑	No ☐			
Samples in proper container/bottle?	Yes ☑	No ☐			
Sample containers intact?	Yes ☑	No ☐			
Sufficient sample volume for indicated test?	Yes ☑	No ☐			
All samples received within holding time?	Yes ☑	No ☐			
Water - VOA vials have zero headspace?	No VOA vials submitted ☑	Yes ☐	No ☐		
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑		

Container/Temp Blank temperature? 6° *4° C ± 2 Acceptable* If given sufficient time to cool.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____

CHAIN-OF-CUSTODY RECORD

QA / QC Package:
Std ☐ Level 4 ☐
Other:

HALL ENVIRONMENTAL ANALYSIS LABORATORY
4901 Hawkins NE, Suite D
Albuquerque, New Mexico 87109
Tel. 505.345.3975 Fax 505.345.4107
www.hallenvironmental.com

Client: Industrial Ecosystems Inc.
Address: #81CR 3150 Aztec NM 87410
Phone #: 505-632-1782
Fax #: 505-632-1876

Project Name: JFJ Landfarm
Project #:
Project Manager: Jake Hatcher
Sampler: Joe Birkby
Sample Temperature: 6°

ANALYSIS REQUEST

Date	Time	Matrix	Sample I.D. No.	Number/Volume	Preservative $HgCl_2$	Preservative HNO_3	Preservative	HEAL No.	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gasoline Only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	EDC (Method 8021)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F, Cl, NO_3, NO_2, PO_4, SO_4)	8081 Pesticides / PCB's (8082)	8260B (VOA)	8270 (Semi-VOA)					Air Bubbles or Headspace (Y or N)
6/15/06	12:30	Soil	Pile 49 Burlington	1			E	0606078-1			X														
6/15/06	12:00		Pile 5 Basin	1			E	-2			X														
6/15/06	12:00		Pile 2 XTO/Duke	1			E	-3			X														
6/15/06	12:30		Pile 504 XTO/Duke	1			E	-4			X														
6/15/06	11:45		Pile 29 Basin	1			E	-5			X														
6/15/06	12:15		Pile 207 Burlington	1				-6			X														
6/15/06	11:30		Pile 518 Burlington	1			E	-7			X														
6/15/06	11:45		Pile 522 Burlington	1				-8			X														
6/15/06	12:15		Pile 230 Key	1				-9			X														

Date	Time	Relinquished By: (Signature)	Received By: (Signature)	Date	Time
6/15/06	3:30 PM	Joe Birkby			
				6-16-06	1150
Date:	Time:	Relinquished By: (Signature)	Received By: (Signature)		

Remarks:

BLAGG ENGINEERING, INC.
P.O. Box 87, Bloomfield, New Mexico 87413
Phone: (505)632-1199 Fax: (505)632-3903

March 30, 2006

2006 APR 3 PM 1 35

Mr. Ed Martin
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Re: JFJ Waste Management Facility: Permit NM-01-0010B
Quarterly Report on Treatment Zone Monitoring

Dear Mr. Martin:

On behalf of JFJ Landfarm L.L.C., Blagg Engineering, Inc. (BEI) is submitting quarterly treatment zone monitoring test results for the JFJ Waste Management Facility pursuant to Permit NM-01-0010B. This report is for sampling conducted on March 17, 2006.

Sampling protocol included collection of native soils at a depth between 2' - 3' below the treatment zone in each cell using a hand auger. Samples were submitted for analytical testing that included total petroleum hydrocarbons (TPH) by U.S. EPA Method 8015B, volatile hydrocarbons (BTEX) by U.S. EPA Method 8021B, 8 RCRA metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium and silver) and standard cation/anion balance.

With this quarterly monitoring samples were collect from active cell units 2a, 3f, 4f, 7g, 8f, 9b, 11a, 12f and 13g (Figure 1). There were no test results in excess of standards. Analytical reports are attached. The facility permit requires quarterly testing for TPH and BTEX and annual testing for metals and cation/anions.

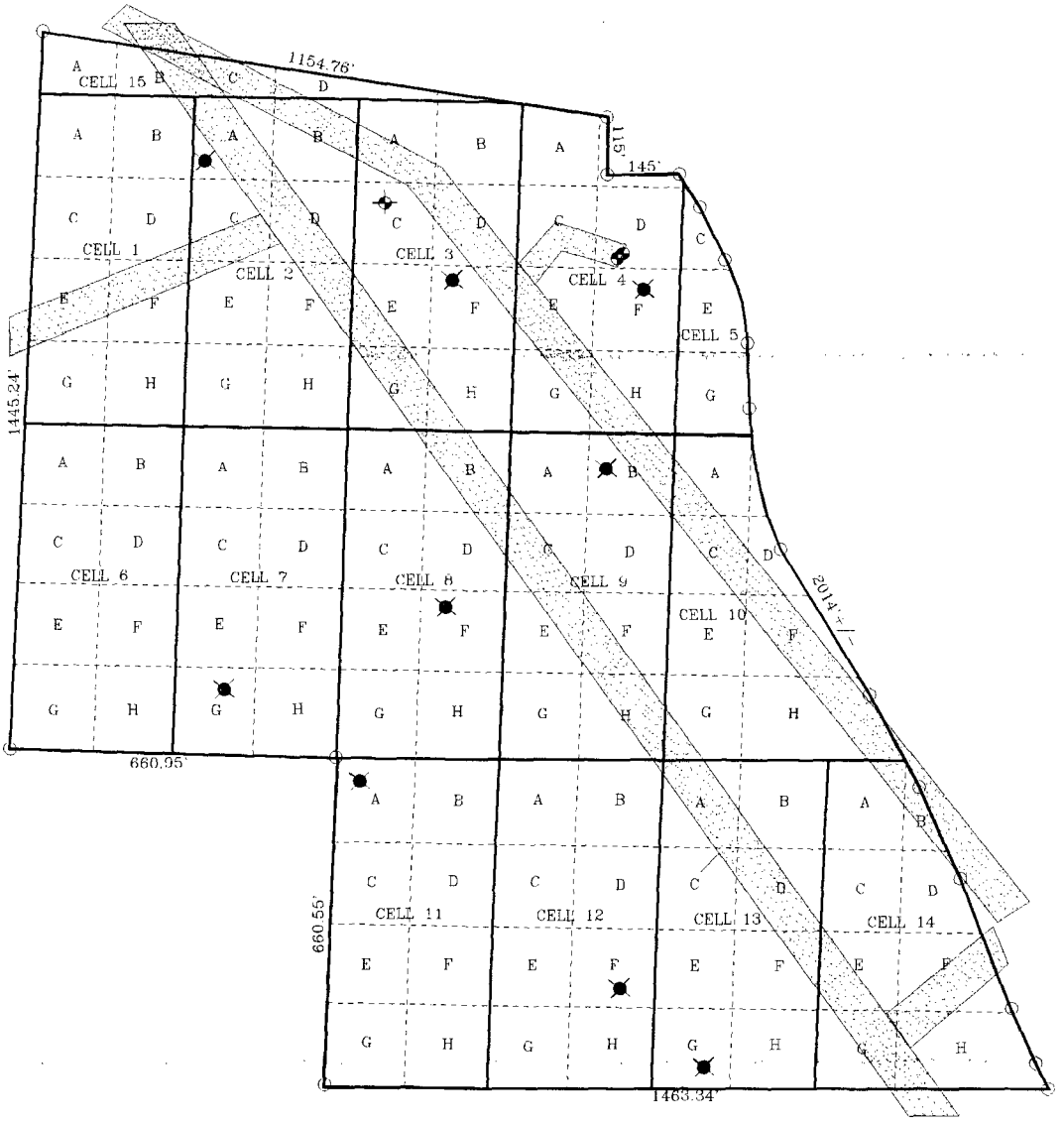
Questions or comments concerning this transmittal may be directed to myself at (505)632-1199 or to Jake Hatcher with JFJ Landfarm L.L.C. at (505)632-1786.

Respectfully submitted:
Blagg Engineering, Inc.

Jeffrey C. Blagg, P.E.
President

Attachments: Site Diagram
Analytical Test Reports

cc: Denny Foust, NMOCD Aztec District Office
Jake Hatcher, JFJ Farmington



LEGEND

- Treatment Zone Sample Location
- Active Gas Well
- PxA Gas Well
- Pipeline Right-of-Way

N

0 500 1000 Feet

JFJ LANDFARM FACILITY TREATMENT ZONE MONITORING			*BLAGG ENGINEERING, INC.*
DATE:3/17/2006	FIGURE 1	BY: JCB	*P.O. BOX 87, BLOOMFIELD, NM* *PHONE: (505)632-1199*

15684

CHAIN OF CUSTODY RECORD

Client / Project Name	Project Location
BLAGG / JFJ	JFJ LANDFARM
Sampler: J.C. Blagg	Client No. 94034-010

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TPH 8015	BTEX 8021	8 RCRA METALS	CATION/ ANION			Remarks
CELL 2A	3/17/06	1245	36472	SOIL	1	X	X	X	X			
CELL 3F	"	1325	36473	"	1	X	X	X	X			
CELL 4F	"	1310	36474	"	1	X	X	X	X			
CELL 7G	"	1345	36475	"	1	X	X	X	X			
CELL 8F	"	1410	36476	"	1	X	X	X	X			
CELL 9B	"	1420	36477	"	1	X	X	X	X			
CELL 11A	"	1500	36478	"	1	X	X	X	X			
CELL 12F	"	1440	36479	"	1	X	X	X	X			
CELL 13G	"	1430	36480	"	1	X	X	X	X			

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
J.C. Blagg	3/20/06	0645	Ann E. Ogden	3/20/06	0645
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

ENVIROTECH INC.

5796 U.S. Highway 64
Farmington, New Mexico 87401
(505) 632-0615

Sample Receipt	Y	N	N/A
Received Intact	✓		
Cool - Ice/Blue Ice	✓		

san juan reproduction 578-129

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 2A	Date Reported:	03-21-06
Laboratory Number:	36472	Date Sampled:	03-17-06
Chain of Custody No:	15684	Date Received:	03-20-06
Sample Matrix:	Soil	Date Extracted:	03-20-06
Preservative:	Cool	Date Analyzed:	03-21-06
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 3F	Date Reported:	03-21-06
Laboratory Number:	36473	Date Sampled:	03-17-06
Chain of Custody No:	15684	Date Received:	03-20-06
Sample Matrix:	Soil	Date Extracted:	03-20-06
Preservative:	Cool	Date Analyzed:	03-21-06
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 4F	Date Reported:	03-21-06
Laboratory Number:	36474	Date Sampled:	03-17-06
Chain of Custody No:	15684	Date Received:	03-20-06
Sample Matrix:	Soil	Date Extracted:	03-20-06
Preservative:	Cool	Date Analyzed:	03-21-06
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 7G	Date Reported:	03-21-06
Laboratory Number:	36475	Date Sampled:	03-17-06
Chain of Custody No:	15684	Date Received:	03-20-06
Sample Matrix:	Soil	Date Extracted:	03-20-06
Preservative:	Cool	Date Analyzed:	03-21-06
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 8F	Date Reported:	03-21-06
Laboratory Number:	36476	Date Sampled:	03-17-06
Chain of Custody No:	15684	Date Received:	03-20-06
Sample Matrix:	Soil	Date Extracted:	03-20-06
Preservative:	Cool	Date Analyzed:	03-21-06
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 9B	Date Reported:	03-21-06
Laboratory Number:	36477	Date Sampled:	03-17-06
Chain of Custody No:	15684	Date Received:	03-20-06
Sample Matrix:	Soil	Date Extracted:	03-20-06
Preservative:	Cool	Date Analyzed:	03-21-06
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**0.2**	**0.1**
Total Petroleum Hydrocarbons	**0.2**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 11A	Date Reported:	03-21-06
Laboratory Number:	36478	Date Sampled:	03-17-06
Chain of Custody No:	15684	Date Received:	03-20-06
Sample Matrix:	Soil	Date Extracted:	03-20-06
Preservative:	Cool	Date Analyzed:	03-21-06
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 12F	Date Reported:	03-21-06
Laboratory Number:	36479	Date Sampled:	03-17-06
Chain of Custody No:	15684	Date Received:	03-20-06
Sample Matrix:	Soil	Date Extracted:	03-20-06
Preservative:	Cool	Date Analyzed:	03-21-06
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**0.2**	**0.1**
Total Petroleum Hydrocarbons	**0.2**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 13G	Date Reported:	03-21-06
Laboratory Number:	36480	Date Sampled:	03-17-06
Chain of Custody No:	15684	Date Received:	03-20-06
Sample Matrix:	Soil	Date Extracted:	03-20-06
Preservative:	Cool	Date Analyzed:	03-21-06
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**0.3**	**0.1**
Total Petroleum Hydrocarbons	**0.3**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	03-21-06 QA/QC	Date Reported:	03-21-06
Laboratory Number:	36472	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	03-21-06
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
Gasoline Range C5 - C10	02-04-05	1.0016E+003	1.0026E+003	**0.10%**	**0 - 15%**
Diesel Range C10 - C28	02-04-05	9.8841E+002	9.9039E+002	**0.20%**	**0 - 15%**

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	**ND**	**0.2**
Diesel Range C10 - C28	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	**ND**	**ND**	**0.0%**	**0 - 30%**
Diesel Range C10 - C28	**ND**	**ND**	**0.0%**	**0 - 30%**

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	**ND**	**250**	**250**	**100.0%**	**75 - 125%**
Diesel Range C10 - C28	**ND**	**250**	**250**	**100.0%**	**75 - 125%**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **QA/QC for Samples 36472 - 36480, 36483.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 2A	Date Reported:	03-21-06
Laboratory Number:	36472	Date Sampled:	03-17-06
Chain of Custody:	15684	Date Received:	03-20-06
Sample Matrix:	Soil	Date Analyzed:	03-21-06
Preservative:	Cool	Date Extracted:	03-20-06
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**13.2**	**1.7**
Ethylbenzene	**7.0**	**1.5**
p,m-Xylene	**26.3**	**2.2**
o-Xylene	**6.8**	**1.0**
Total BTEX	**53.3**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**98.0 %**
	1,4-difluorobenzene	**98.0 %**
	Bromochlorobenzene	**98.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 3F	Date Reported:	03-21-06
Laboratory Number:	36473	Date Sampled:	03-17-06
Chain of Custody:	15684	Date Received:	03-20-06
Sample Matrix:	Soil	Date Analyzed:	03-21-06
Preservative:	Cool	Date Extracted:	03-20-06
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**12.3**	**1.7**
Ethylbenzene	**6.7**	**1.5**
p,m-Xylene	**38.8**	**2.2**
o-Xylene	**9.8**	**1.0**
Total BTEX	**67.6**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**98.0 %**
	1,4-difluorobenzene	**98.0 %**
	Bromochlorobenzene	**98.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 4F	Date Reported:	03-21-06
Laboratory Number:	36474	Date Sampled:	03-17-06
Chain of Custody:	15684	Date Received:	03-20-06
Sample Matrix:	Soil	Date Analyzed:	03-21-06
Preservative:	Cool	Date Extracted:	03-20-06
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**11.9**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**37.6**	**2.2**
o-Xylene	**13.5**	**1.0**
Total BTEX	**63.0**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**98.0 %**
	1,4-difluorobenzene	**98.0 %**
	Bromochlorobenzene	**98.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm.**

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EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 7G	Date Reported:	03-21-06
Laboratory Number:	36475	Date Sampled:	03-17-06
Chain of Custody:	15684	Date Received:	03-20-06
Sample Matrix:	Soil	Date Analyzed:	03-21-06
Preservative:	Cool	Date Extracted:	03-20-06
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**10.2**	**1.7**
Ethylbenzene	**11.6**	**1.5**
p,m-Xylene	**25.2**	**2.2**
o-Xylene	**2.8**	**1.0**
Total BTEX	**49.8**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**97.0 %**
	1,4-difluorobenzene	**97.0 %**
	Bromochlorobenzene	**97.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm.**

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EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 8F	Date Reported:	03-21-06
Laboratory Number:	36476	Date Sampled:	03-17-06
Chain of Custody:	15684	Date Received:	03-20-06
Sample Matrix:	Soil	Date Analyzed:	03-21-06
Preservative:	Cool	Date Extracted:	03-20-06
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**8.1**	**1.7**
Ethylbenzene	**3.5**	**1.5**
p,m-Xylene	**8.4**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**20.0**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**98.0 %**
	1,4-difluorobenzene	**98.0 %**
	Bromochlorobenzene	**98.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 9B	Date Reported:	03-21-06
Laboratory Number:	36477	Date Sampled:	03-17-06
Chain of Custody:	15684	Date Received:	03-20-06
Sample Matrix:	Soil	Date Analyzed:	03-21-06
Preservative:	Cool	Date Extracted:	03-20-06
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**8.2**	**1.7**
Ethylbenzene	**3.0**	**1.5**
p,m-Xylene	**6.8**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**18.0**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**97.0 %**
	1,4-difluorobenzene	**97.0 %**
	Bromochlorobenzene	**97.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm.**

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EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 11A	Date Reported:	03-21-06
Laboratory Number:	36478	Date Sampled:	03-17-06
Chain of Custody:	15684	Date Received:	03-20-06
Sample Matrix:	Soil	Date Analyzed:	03-21-06
Preservative:	Cool	Date Extracted:	03-20-06
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**9.2**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**5.9**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**15.1**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**99.0 %**
	1,4-difluorobenzene	**99.0 %**
	Bromochlorobenzene	**99.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 12F	Date Reported:	03-21-06
Laboratory Number:	36479	Date Sampled:	03-17-06
Chain of Custody:	15684	Date Received:	03-20-06
Sample Matrix:	Soil	Date Analyzed:	03-21-06
Preservative:	Cool	Date Extracted:	03-20-06
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**8.4**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**4.6**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**13.0**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**97.0 %**
	1,4-difluorobenzene	**97.0 %**
	Bromochlorobenzene	**97.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 13G	Date Reported:	03-21-06
Laboratory Number:	36480	Date Sampled:	03-17-06
Chain of Custody:	15684	Date Received:	03-20-06
Sample Matrix:	Soil	Date Analyzed:	03-21-06
Preservative:	Cool	Date Extracted:	03-20-06
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**10.0**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**11.7**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**21.7**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**97.0 %**
	1,4-difluorobenzene	**97.0 %**
	Bromochlorobenzene	**97.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	03-21-BTEX QA/QC	Date Reported:	03-21-06
Laboratory Number:	36472	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	03-21-06
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF:	C-Cal RF:	%Diff. Accept. Range 0 - 15%	Blank Conc.	Detect. Limit
Benzene	8.2896E+007	8.3062E+007	0.2%	ND	0.2
Toluene	8.2542E+007	8.2707E+007	0.2%	ND	0.2
Ethylbenzene	5.9373E+007	5.9492E+007	0.2%	ND	0.2
p,m-Xylene	1.4278E+008	1.4306E+008	0.2%	ND	0.2
o-Xylene	6.8118E+007	6.8255E+007	0.2%	ND	0.1

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	ND	ND	0.0%	0 - 30%	1.8
Toluene	13.2	13.2	0.0%	0 - 30%	1.7
Ethylbenzene	7.0	7.0	0.0%	0 - 30%	1.5
p,m-Xylene	26.3	26.2	0.4%	0 - 30%	2.2
o-Xylene	6.8	6.8	0.0%	0 - 30%	1.0

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	50.0	49.9	99.8%	39 - 150
Toluene	13.2	50.0	63.2	100.0%	46 - 148
Ethylbenzene	7.0	50.0	56.9	99.8%	32 - 160
p,m-Xylene	26.3	100	126	99.8%	46 - 148
o-Xylene	6.8	50.0	56.7	99.8%	46 - 148

ND - Parameter not detected at the stated detection limit.

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.
Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: **QA/QC for Samples 36472 - 36480, 36483.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 2A	Date Reported:	03-21-06
Laboratory Number:	36472	Date Sampled:	03-17-06
Chain of Custody:	15684	Date Received:	03-20-06
Sample Matrix:	Soil	Date Analyzed:	03-21-06
Preservative:	N/A	Date Digested:	03-20-06
Condition:	Intact	Analysis Needed:	Total Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Arsenic	**0.099**	**0.001**	**5.0**
Barium	**1.90**	**0.001**	**100**
Cadmium	**0.002**	**0.001**	**1.0**
Chromium	**0.112**	**0.001**	**5.0**
Lead	**0.239**	**0.001**	**5.0**
Mercury	**ND**	**0.001**	**0.2**
Selenium	**ND**	**0.001**	**1.0**
Silver	**ND**	**0.001**	**5.0**

ND - Parameter not detected at the stated detection limit.

References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils. SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision Spectroscopy, SW-846, USEPA, December 1996.

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, August 24, 1998.

Comments: **JFJ Landfarm.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 3F	Date Reported:	03-21-06
Laboratory Number:	36473	Date Sampled:	03-17-06
Chain of Custody:	15684	Date Received:	03-20-06
Sample Matrix:	Soil	Date Analyzed:	03-21-06
Preservative:	N/A	Date Digested:	03-20-06
Condition:	Intact	Analysis Needed:	Total Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Arsenic	**0.097**	**0.001**	**5.0**
Barium	**8.27**	**0.001**	**100**
Cadmium	**ND**	**0.001**	**1.0**
Chromium	**0.152**	**0.001**	**5.0**
Lead	**0.285**	**0.001**	**5.0**
Mercury	**ND**	**0.001**	**0.2**
Selenium	**0.016**	**0.001**	**1.0**
Silver	**ND**	**0.001**	**5.0**

ND - Parameter not detected at the stated detection limit.

References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils. SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision Spectroscopy, SW-846, USEPA, December 1996.

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, August 24, 1998.

Comments: **JFJ Landfarm.**

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TRACE METAL ANALYSIS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 4F	Date Reported:	03-21-06
Laboratory Number:	36474	Date Sampled:	03-17-06
Chain of Custody:	15684	Date Received:	03-20-06
Sample Matrix:	Soil	Date Analyzed:	03-21-06
Preservative:	N/A	Date Digested:	03-20-06
Condition:	Intact	Analysis Needed:	Total Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Arsenic	**0.278**	**0.001**	**5.0**
Barium	**0.410**	**0.001**	**100**
Cadmium	**0.003**	**0.001**	**1.0**
Chromium	**0.136**	**0.001**	**5.0**
Lead	**0.433**	**0.001**	**5.0**
Mercury	**ND**	**0.001**	**0.2**
Selenium	**ND**	**0.001**	**1.0**
Silver	**ND**	**0.001**	**5.0**

ND - Parameter not detected at the stated detection limit.

References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils. SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision Spectroscopy, SW-846, USEPA, December 1996.

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, August 24, 1998.

Comments: **JFJ Landfarm.**

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TRACE METAL ANALYSIS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 7G	Date Reported:	03-21-06
Laboratory Number:	36475	Date Sampled:	03-17-06
Chain of Custody:	15684	Date Received:	03-20-06
Sample Matrix:	Soil	Date Analyzed:	03-21-06
Preservative:	N/A	Date Digested:	03-20-06
Condition:	Intact	Analysis Needed:	Total Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Arsenic	**0.066**	**0.001**	**5.0**
Barium	**3.00**	**0.001**	**100**
Cadmium	**0.020**	**0.001**	**1.0**
Chromium	**0.040**	**0.001**	**5.0**
Lead	**0.368**	**0.001**	**5.0**
Mercury	**ND**	**0.001**	**0.2**
Selenium	**0.105**	**0.001**	**1.0**
Silver	**ND**	**0.001**	**5.0**

ND - Parameter not detected at the stated detection limit.

References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils. SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision Spectroscopy, SW-846, USEPA, December 1996.

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, August 24, 1998.

Comments: **JFJ Landfarm.**

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TRACE METAL ANALYSIS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 8F	Date Reported:	03-21-06
Laboratory Number:	36476	Date Sampled:	03-17-06
Chain of Custody:	15684	Date Received:	03-20-06
Sample Matrix:	Soil	Date Analyzed:	03-21-06
Preservative:	N/A	Date Digested:	03-20-06
Condition:	Intact	Analysis Needed:	Total Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Arsenic	**0.077**	**0.001**	**5.0**
Barium	**9.92**	**0.001**	**100**
Cadmium	**0.003**	**0.001**	**1.0**
Chromium	**0.096**	**0.001**	**5.0**
Lead	**0.157**	**0.001**	**5.0**
Mercury	**ND**	**0.001**	**0.2**
Selenium	**ND**	**0.001**	**1.0**
Silver	**ND**	**0.001**	**5.0**

ND - Parameter not detected at the stated detection limit.

References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils. SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision Spectroscopy, SW-846, USEPA, December 1996.

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, August 24, 1998.

Comments: **JFJ Landfarm.**

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TRACE METAL ANALYSIS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 9B	Date Reported:	03-21-06
Laboratory Number:	36477	Date Sampled:	03-17-06
Chain of Custody:	15684	Date Received:	03-20-06
Sample Matrix:	Soil	Date Analyzed:	03-21-06
Preservative:	N/A	Date Digested:	03-20-06
Condition:	Intact	Analysis Needed:	Total Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Arsenic	**0.143**	**0.001**	**5.0**
Barium	**11.9**	**0.001**	**100**
Cadmium	**0.004**	**0.001**	**1.0**
Chromium	**0.150**	**0.001**	**5.0**
Lead	**0.272**	**0.001**	**5.0**
Mercury	**ND**	**0.001**	**0.2**
Selenium	**0.029**	**0.001**	**1.0**
Silver	**ND**	**0.001**	**5.0**

ND - Parameter not detected at the stated detection limit.

References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils. SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision Spectroscopy, SW-846, USEPA, December 1996.

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, August 24, 1998.

Comments: **JFJ Landfarm.**

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TRACE METAL ANALYSIS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 11A	Date Reported:	03-21-06
Laboratory Number:	36478	Date Sampled:	03-17-06
Chain of Custody:	15684	Date Received:	03-20-06
Sample Matrix:	Soil	Date Analyzed:	03-21-06
Preservative:	N/A	Date Digested:	03-20-06
Condition:	Intact	Analysis Needed:	Total Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Arsenic	**0.238**	**0.001**	**5.0**
Barium	**2.10**	**0.001**	**100**
Cadmium	**0.001**	**0.001**	**1.0**
Chromium	**0.158**	**0.001**	**5.0**
Lead	**0.357**	**0.001**	**5.0**
Mercury	**ND**	**0.001**	**0.2**
Selenium	**ND**	**0.001**	**1.0**
Silver	**ND**	**0.001**	**5.0**

ND - Parameter not detected at the stated detection limit.

References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils. SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision Spectroscopy, SW-846, USEPA, December 1996.

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, August 24, 1998.

Comments: **JFJ Landfarm.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 12F	Date Reported:	03-21-06
Laboratory Number:	36479	Date Sampled:	03-17-06
Chain of Custody:	15684	Date Received:	03-20-06
Sample Matrix:	Soil	Date Analyzed:	03-21-06
Preservative:	N/A	Date Digested:	03-20-06
Condition:	Intact	Analysis Needed:	Total Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Arsenic	**0.348**	**0.001**	**5.0**
Barium	**0.431**	**0.001**	**100**
Cadmium	**0.003**	**0.001**	**1.0**
Chromium	**0.136**	**0.001**	**5.0**
Lead	**0.407**	**0.001**	**5.0**
Mercury	**ND**	**0.001**	**0.2**
Selenium	**ND**	**0.001**	**1.0**
Silver	**ND**	**0.001**	**5.0**

ND - Parameter not detected at the stated detection limit.

References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils. SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision Spectroscopy, SW-846, USEPA, December 1996.

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, August 24, 1998.

Comments: **JFJ Landfarm.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 13G	Date Reported:	03-21-06
Laboratory Number:	36480	Date Sampled:	03-17-06
Chain of Custody:	15684	Date Received:	03-20-06
Sample Matrix:	Soil	Date Analyzed:	03-21-06
Preservative:	N/A	Date Digested:	03-20-06
Condition:	Intact	Analysis Needed:	Total Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Arsenic	**0.073**	**0.001**	**5.0**
Barium	**8.61**	**0.001**	**100**
Cadmium	**0.003**	**0.001**	**1.0**
Chromium	**0.095**	**0.001**	**5.0**
Lead	**0.237**	**0.001**	**5.0**
Mercury	**ND**	**0.001**	**0.2**
Selenium	**ND**	**0.001**	**1.0**
Silver	**ND**	**0.001**	**5.0**

ND - Parameter not detected at the stated detection limit.

References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils. SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision Spectroscopy, SW-846, USEPA, December 1996.

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, August 24, 1998.

Comments: **JFJ Landfarm.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS
Quality Control / Quality Assurance Report

Client:	QA/QC	Project #:	QA/QC
Sample ID:	03-21 TM QA/AC	Date Reported:	03-21-06
Laboratory Number:	36472	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	Total RCRA Metals	Date Analyzed:	03-21-06
Condition:	N/A	Date Digested:	03-20-06

Blank & Duplicate Conc. (mg/Kg)	Instrument Blank (mg/L)	Method Blank	Detection Limit	Sample	Duplicate	% Diff.	Acceptance Range
Arsenic	ND	ND	0.001	0.099	0.099	0.0%	0% - 30%
Barium	ND	ND	0.001	1.90	1.89	0.5%	0% - 30%
Cadmium	ND	ND	0.001	0.002	0.002	0.0%	0% - 30%
Chromium	ND	ND	0.001	0.112	0.113	0.9%	0% - 30%
Lead	ND	ND	0.001	0.239	0.240	0.4%	0% - 30%
Mercury	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Selenium	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Silver	ND	ND	0.001	ND	ND	0.0%	0% - 30%

Spike Conc. (mg/Kg)	Spike Added	Sample	Spiked Sample	Percent Recovery	Acceptance Range
Arsenic	0.500	0.099	0.597	99.7%	80% - 120%
Barium	0.500	1.90	2.39	99.6%	80% - 120%
Cadmium	0.500	0.002	0.502	100.0%	80% - 120%
Chromium	0.500	0.112	0.611	99.8%	80% - 120%
Lead	0.500	0.239	0.737	99.7%	80% - 120%
Mercury	0.500	ND	0.498	99.6%	80% - 120%
Selenium	0.500	ND	0.499	99.8%	80% - 120%
Silver	0.500	ND	0.500	100.0%	80% - 120%

ND - Parameter not detected at the stated detection limit.

References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils. SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision Spectorscopy, SW-846, USEPA, December 1996.

Comments: **QA/QC for Samples 36472 - 36480.**

Analyst

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 2A	Date Reported:	03-21-06
Laboratory Number:	36472	Date Sampled:	03-17-06
Chain of Custody:	15684	Date Received:	03-20-06
Sample Matrix:	Soil Extract	Date Extracted:	03-20-06
Preservative:	Cool	Date Analyzed:	03-21-06
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		
pH	**8.96**	s.u.		
Conductivity @ 25° C	**150**	umhos/cm		
Total Dissolved Solids @ 180C	**106**	mg/L		
Total Dissolved Solids (Calc)	**104**	mg/L		
SAR	**2.7**	ratio		
Total Alkalinity as CaCO3	**44.0**	mg/L		
Total Hardness as CaCO3	**21.3**	mg/L		
Bicarbonate as HCO3	**44.0**	mg/L	0.72	meq/L
Carbonate as CO3	**<0.1**	mg/L	0.00	meq/L
Hydroxide as OH	**<0.1**	mg/L	0.00	meq/L
Nitrate Nitrogen	**<0.01**	mg/L	0.00	meq/L
Nitrite Nitrogen	**<0.01**	mg/L	0.00	meq/L
Chloride	**2.79**	mg/L	0.08	meq/L
Fluoride	**2.82**	mg/L	0.15	meq/L
Phosphate	**1.96**	mg/L	0.06	meq/L
Sulfate	**33.2**	mg/L	0.69	meq/L
Iron	**0.079**	mg/L	0.00	meq/L
Calcium	**5.89**	mg/L	0.29	meq/L
Magnesium	**1.59**	mg/L	0.13	meq/L
Potassium	**0.25**	mg/L	0.01	meq/L
Sodium	**29.1**	mg/L	1.27	meq/L
Cations			1.70	meq/L
Anions			1.70	meq/L
Cation/Anion Difference			**0.10%**	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **JFJ Landfarm.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 3F	Date Reported:	03-21-06
Laboratory Number:	36473	Date Sampled:	03-17-06
Chain of Custody:	15684	Date Received:	03-20-06
Sample Matrix:	Soil Extract	Date Extracted:	03-20-06
Preservative:	Cool	Date Analyzed:	03-21-06
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		
pH	**8.54**	s.u.		
Conductivity @ 25° C	**170**	umhos/cm		
Total Dissolved Solids @ 180C	**106**	mg/L		
Total Dissolved Solids (Calc)	**106**	mg/L		
SAR	**2.1**	ratio		
Total Alkalinity as CaCO3	**35.0**	mg/L		
Total Hardness as CaCO3	**29.8**	mg/L		
Bicarbonate as HCO3	**35.0**	mg/L	0.57	meq/L
Carbonate as CO3	**<0.1**	mg/L	0.00	meq/L
Hydroxide as OH	**<0.1**	mg/L	0.00	meq/L
Nitrate Nitrogen	**0.29**	mg/L	0.00	meq/L
Nitrite Nitrogen	**0.12**	mg/L	0.00	meq/L
Chloride	**15.8**	mg/L	0.45	meq/L
Fluoride	**0.64**	mg/L	0.03	meq/L
Phosphate	**3.85**	mg/L	0.12	meq/L
Sulfate	**27.0**	mg/L	0.56	meq/L
Iron	**0.072**	mg/L	0.00	meq/L
Calcium	**9.68**	mg/L	0.48	meq/L
Magnesium	**1.34**	mg/L	0.11	meq/L
Potassium	**0.24**	mg/L	0.01	meq/L
Sodium	**26.2**	mg/L	1.14	meq/L
Cations			1.74	meq/L
Anions			1.74	meq/L
Cation/Anion Difference			**0.14%**	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **JFJ Landfarm.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 4F	Date Reported:	03-21-06
Laboratory Number:	36474	Date Sampled:	03-17-06
Chain of Custody:	15684	Date Received:	03-20-06
Sample Matrix:	Soil Extract	Date Extracted:	03-20-06
Preservative:	Cool	Date Analyzed:	03-21-06
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		
pH	**8.13**	s.u.		
Conductivity @ 25° C	**1,270**	umhos/cm		
Total Dissolved Solids @ 180C	**976**	mg/L		
Total Dissolved Solids (Calc)	**944**	mg/L		
SAR	**1.6**	ratio		
Total Alkalinity as CaCO3	**31.0**	mg/L		
Total Hardness as CaCO3	**525**	mg/L		
Bicarbonate as HCO3	**31.0**	mg/L	0.51	meq/L
Carbonate as CO3	**<0.1**	mg/L	0.00	meq/L
Hydroxide as OH	**<0.1**	mg/L	0.00	meq/L
Nitrate Nitrogen	**0.13**	mg/L	0.00	meq/L
Nitrite Nitrogen	**0.08**	mg/L	0.00	meq/L
Chloride	**14.9**	mg/L	0.42	meq/L
Fluoride	**1.14**	mg/L	0.06	meq/L
Phosphate	**0.81**	mg/L	0.03	meq/L
Sulfate	**628**	mg/L	13.07	meq/L
Iron	**0.012**	mg/L	0.00	meq/L
Calcium	**177**	mg/L	8.83	meq/L
Magnesium	**19.8**	mg/L	1.63	meq/L
Potassium	**0.64**	mg/L	0.02	meq/L
Sodium	**82.9**	mg/L	3.61	meq/L
Cations			14.08	meq/L
Anions			14.09	meq/L
Cation/Anion Difference			**0.06%**	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **JFJ Landfarm.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 7G	Date Reported:	03-21-06
Laboratory Number:	36475	Date Sampled:	03-17-06
Chain of Custody:	15684	Date Received:	03-20-06
Sample Matrix:	Soil Extract	Date Extracted:	03-20-06
Preservative:	Cool	Date Analyzed:	03-21-06
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		
pH	**8.27**	s.u.		
Conductivity @ 25° C	**247**	umhos/cm		
Total Dissolved Solids @ 180C	**136**	mg/L		
Total Dissolved Solids (Calc)	**124**	mg/L		
SAR	**6.0**	ratio		
Total Alkalinity as CaCO3	**6.8**	mg/L		
Total Hardness as CaCO3	**8.0**	mg/L		
Bicarbonate as HCO3	**6.8**	mg/L	0.11	meq/L
Carbonate as CO3	**<0.1**	mg/L	0.00	meq/L
Hydroxide as OH	**<0.1**	mg/L	0.00	meq/L
Nitrate Nitrogen	**0.16**	mg/L	0.00	meq/L
Nitrite Nitrogen	**0.06**	mg/L	0.00	meq/L
Chloride	**16.1**	mg/L	0.45	meq/L
Fluoride	**0.06**	mg/L	0.00	meq/L
Phosphate	**0.80**	mg/L	0.03	meq/L
Sulfate	**60.7**	mg/L	1.26	meq/L
Iron	**0.327**	mg/L	0.01	meq/L
Calcium	**3.18**	mg/L	0.16	meq/L
Magnesium	**<0.01**	mg/L	0.00	meq/L
Potassium	**0.19**	mg/L	0.00	meq/L
Sodium	**38.8**	mg/L	1.69	meq/L
Cations			1.86	meq/L
Anions			1.86	meq/L
Cation/Anion Difference			**0.07%**	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **JFJ Landfarm.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 8F	Date Reported:	03-21-06
Laboratory Number:	36476	Date Sampled:	03-17-06
Chain of Custody:	15684	Date Received:	03-20-06
Sample Matrix:	Soil Extract	Date Extracted:	03-20-06
Preservative:	Cool	Date Analyzed:	03-21-06
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		
pH	**8.62**	s.u.		
Conductivity @ 25° C	**202**	umhos/cm		
Total Dissolved Solids @ 180C	**145**	mg/L		
Total Dissolved Solids (Calc)	**143**	mg/L		
SAR	**2.3**	ratio		
Total Alkalinity as CaCO3	**64.0**	mg/L		
Total Hardness as CaCO3	**44.3**	mg/L		
Bicarbonate as HCO3	**64.0**	mg/L	1.05	meq/L
Carbonate as CO3	**<0.1**	mg/L	0.00	meq/L
Hydroxide as OH	**<0.1**	mg/L	0.00	meq/L
Nitrate Nitrogen	**0.12**	mg/L	0.00	meq/L
Nitrite Nitrogen	**<0.01**	mg/L	0.00	meq/L
Chloride	**29.0**	mg/L	0.82	meq/L
Fluoride	**1.13**	mg/L	0.06	meq/L
Phosphate	**1.86**	mg/L	0.06	meq/L
Sulfate	**19.3**	mg/L	0.40	meq/L
Iron	**0.036**	mg/L	0.00	meq/L
Calcium	**17.7**	mg/L	0.88	meq/L
Magnesium	**<0.01**	mg/L	0.00	meq/L
Potassium	**0.28**	mg/L	0.01	meq/L
Sodium	**34.4**	mg/L	1.50	meq/L
Cations			2.39	meq/L
Anions			2.39	meq/L
Cation/Anion Difference			**0.04%**	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **JFJ Landfarm.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 9B	Date Reported:	03-21-06
Laboratory Number:	36477	Date Sampled:	03-17-06
Chain of Custody:	15684	Date Received:	03-20-06
Sample Matrix:	Soil Extract	Date Extracted:	03-20-06
Preservative:	Cool	Date Analyzed:	03-21-06
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		
pH	**8.53**	s.u.		
Conductivity @ 25° C	**112**	umhos/cm		
Total Dissolved Solids @ 180C	**74.6**	mg/L		
Total Dissolved Solids (Calc)	**82.2**	mg/L		
SAR	**1.3**	ratio		
Total Alkalinity as CaCO3	**36.0**	mg/L		
Total Hardness as CaCO3	**42.5**	mg/L		
Bicarbonate as HCO3	**36.0**	mg/L	0.59	meq/L
Carbonate as CO3	**<0.1**	mg/L	0.00	meq/L
Hydroxide as OH	**<0.1**	mg/L	0.00	meq/L
Nitrate Nitrogen	**0.69**	mg/L	0.01	meq/L
Nitrite Nitrogen	**0.02**	mg/L	0.00	meq/L
Chloride	**2.61**	mg/L	0.07	meq/L
Fluoride	**0.28**	mg/L	0.01	meq/L
Phosphate	**5.89**	mg/L	0.19	meq/L
Sulfate	**14.7**	mg/L	0.31	meq/L
Iron	**0.113**	mg/L	0.00	meq/L
Calcium	**17.0**	mg/L	0.85	meq/L
Magnesium	**<0.01**	mg/L	0.00	meq/L
Potassium	**0.26**	mg/L	0.01	meq/L
Sodium	**18.9**	mg/L	0.82	meq/L
Cations			1.18	meq/L
Anions			1.18	meq/L
Cation/Anion Difference			**0.08%**	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **JFJ Landfarm.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 11A	Date Reported:	03-21-06
Laboratory Number:	36478	Date Sampled:	03-17-06
Chain of Custody:	15684	Date Received:	03-20-06
Sample Matrix:	Soil Extract	Date Extracted:	03-20-06
Preservative:	Cool	Date Analyzed:	03-21-06
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		
pH	**8.74**	s.u.		
Conductivity @ 25° C	**1,130**	umhos/cm		
Total Dissolved Solids @ 180C	**642**	mg/L		
Total Dissolved Solids (Calc)	**620**	mg/L		
SAR	**9.2**	ratio		
Total Alkalinity as CaCO3	**35.2**	mg/L		
Total Hardness as CaCO3	**80.1**	mg/L		
Bicarbonate as HCO3	**35.2**	mg/L	0.58	meq/L
Carbonate as CO3	**<0.1**	mg/L	0.00	meq/L
Hydroxide as OH	**<0.1**	mg/L	0.00	meq/L
Nitrate Nitrogen	**0.05**	mg/L	0.00	meq/L
Nitrite Nitrogen	**<0.01**	mg/L	0.00	meq/L
Chloride	**180**	mg/L	5.08	meq/L
Fluoride	**2.21**	mg/L	0.12	meq/L
Phosphate	**22.8**	mg/L	0.72	meq/L
Sulfate	**172**	mg/L	3.58	meq/L
Iron	**0.041**	mg/L	0.00	meq/L
Calcium	**13.4**	mg/L	0.67	meq/L
Magnesium	**11.2**	mg/L	0.92	meq/L
Potassium	**7.97**	mg/L	0.20	meq/L
Sodium	**189**	mg/L	8.24	meq/L
Cations			10.06	meq/L
Anions			10.07	meq/L
Cation/Anion Difference			**0.13%**	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **JFJ Landfarm.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 12F	Date Reported:	03-21-06
Laboratory Number:	36479	Date Sampled:	03-17-06
Chain of Custody:	15684	Date Received:	03-20-06
Sample Matrix:	Soil Extract	Date Extracted:	03-20-06
Preservative:	Cool	Date Analyzed:	03-21-06
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		
pH	**8.25**	s.u.		
Conductivity @ 25° C	**1,290**	umhos/cm		
Total Dissolved Solids @ 180C	**882**	mg/L		
Total Dissolved Solids (Calc)	**876**	mg/L		
SAR	**1.1**	ratio		
Total Alkalinity as CaCO3	**16.0**	mg/L		
Total Hardness as CaCO3	**537**	mg/L		
Bicarbonate as HCO3	**16.0**	mg/L	0.26	meq/L
Carbonate as CO3	**<0.1**	mg/L	0.00	meq/L
Hydroxide as OH	**<0.1**	mg/L	0.00	meq/L
Nitrate Nitrogen	**0.16**	mg/L	0.00	meq/L
Nitrite Nitrogen	**<0.01**	mg/L	0.00	meq/L
Chloride	**8.83**	mg/L	0.25	meq/L
Fluoride	**0.86**	mg/L	0.05	meq/L
Phosphate	**8.06**	mg/L	0.25	meq/L
Sulfate	**595**	mg/L	12.39	meq/L
Iron	**0.016**	mg/L	0.00	meq/L
Calcium	**166**	mg/L	8.28	meq/L
Magnesium	**29.3**	mg/L	2.41	meq/L
Potassium	**0.66**	mg/L	0.02	meq/L
Sodium	**57.1**	mg/L	2.48	meq/L
Cations			13.20	meq/L
Anions			13.20	meq/L
Cation/Anion Difference			**0.04%**	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **JFJ Landfarm.**

Analyst

Review

5796 U.S. Highway 64 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 13G	Date Reported:	03-21-06
Laboratory Number:	36480	Date Sampled:	03-17-06
Chain of Custody:	15684	Date Received:	03-20-06
Sample Matrix:	Soil Extract	Date Extracted:	03-20-06
Preservative:	Cool	Date Analyzed:	03-21-06
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		
pH	**8.51**	s.u.		
Conductivity @ 25° C	**101**	umhos/cm		
Total Dissolved Solids @ 180C	**66.8**	mg/L		
Total Dissolved Solids (Calc)	**65.0**	mg/L		
SAR	**1.3**	ratio		
Total Alkalinity as CaCO3	**38.4**	mg/L		
Total Hardness as CaCO3	**21.6**	mg/L		
Bicarbonate as HCO3	**38.4**	mg/L	0.63	meq/L
Carbonate as CO3	**<0.1**	mg/L	0.00	meq/L
Hydroxide as OH	**<0.1**	mg/L	0.00	meq/L
Nitrate Nitrogen	**0.61**	mg/L	0.01	meq/L
Nitrite Nitrogen	**<0.01**	mg/L	0.00	meq/L
Chloride	**2.24**	mg/L	0.06	meq/L
Fluoride	**0.32**	mg/L	0.02	meq/L
Phosphate	**0.95**	mg/L	0.03	meq/L
Sulfate	**14.4**	mg/L	0.30	meq/L
Iron	**0.054**	mg/L	0.00	meq/L
Calcium	**8.64**	mg/L	0.43	meq/L
Magnesium	**<0.01**	mg/L	0.00	meq/L
Potassium	**0.83**	mg/L	0.02	meq/L
Sodium	**13.7**	mg/L	0.60	meq/L
Cations			1.05	meq/L
Anions			1.05	meq/L
Cation/Anion Difference			**0.03%**	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **JFJ Landfarm.**

Analyst

Review

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HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

COVER LETTER

Thursday, February 16, 2006

James Hatcher
Industrial Ecosystems, Inc.
#81 C.R. 3150
Aztec, NM 87410

TEL: (505) 632-1782
FAX (505) 632-1876

RE: JFJ Land Farm

Order No.: 0602074

Dear James Hatcher:

Hall Environmental Analysis Laboratory received 19 sample(s) on 2/8/2006 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent.

Reporting limits are determined by EPA methodology. No determination of compounds below these (denoted by the ND or < sign) has been made.

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

Sincerely,

Andy Freeman, Business Manager
Nancy McDuffie, Laboratory Manager

AZ license # AZ0682
ORELAP Lab # NM100001

"S" flags denote that the surrogate was not recoverable due to sample dilution or matrix interferences.

Hall Environmental Analysis Laboratory

Date: *16-Feb-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	Pile 5 Basin
Lab Order:	0602074	**Collection Date:**	2/7/2006 11:45:00 AM
Project:	JFJ Land Farm	**Date Received:**	2/8/2006
Lab ID:	0602074-01	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **SCC**
Diesel Range Organics (DRO)	2900	500		mg/Kg	50	2/14/2006 10:57:40 AM
Motor Oil Range Organics (MRO)	3600	2500		mg/Kg	50	2/14/2006 10:57:40 AM
Surr: DNOP	0	60-124	S	%REC	50	2/14/2006 10:57:40 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/9/2006 5:22:08 PM
Surr: BFB	120	79-128		%REC	1	2/9/2006 5:22:08 PM

Qualifiers:				
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	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
	S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory

Date: *16-Feb-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	Pile 102 Key Energy
Lab Order:	0602074	**Collection Date:**	2/7/2006 11:30:00 AM
Project:	JFJ Land Farm	**Date Received:**	2/8/2006
Lab ID:	0602074-02	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						**Analyst: SCC**
Diesel Range Organics (DRO)	53	10		mg/Kg	1	2/14/2006 12:03:10 PM
Motor Oil Range Organics (MRO)	72	50		mg/Kg	1	2/14/2006 12:03:10 PM
Surr: DNOP	102	60-124		%REC	1	2/14/2006 12:03:10 PM
EPA METHOD 8015B: GASOLINE RANGE						**Analyst: NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/9/2006 6:24:30 PM
Surr: BFB	109	79-128		%REC	1	2/9/2006 6:24:30 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
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
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory

Date: *16-Feb-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	Pile 230 Basin
Lab Order:	0602074	**Collection Date:**	2/7/2006 11:45:00 AM
Project:	JFJ Land Farm	**Date Received:**	2/8/2006
Lab ID:	0602074-03	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **SCC**
Diesel Range Organics (DRO)	1600	100		mg/Kg	10	2/14/2006 12:35:59 PM
Motor Oil Range Organics (MRO)	2100	500		mg/Kg	10	2/14/2006 12:35:59 PM
Surr: DNOP	124	60-124		%REC	10	2/14/2006 12:35:59 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/9/2006 6:55:43 PM
Surr: BFB	110	79-128		%REC	1	2/9/2006 6:55:43 PM

Qualifiers:				
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	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
	S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory

Date: *16-Feb-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	Pile 42 Delta Env
Lab Order:	0602074	**Collection Date:**	2/7/2006 11:30:00 AM
Project:	JFJ Land Farm	**Date Received:**	2/8/2006
Lab ID:	0602074-04	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **SCC**
Diesel Range Organics (DRO)	68	10		mg/Kg	1	2/14/2006 1:41:33 PM
Motor Oil Range Organics (MRO)	75	50		mg/Kg	1	2/14/2006 1:41:33 PM
Surr: DNOP	89.4	60-124		%REC	1	2/14/2006 1:41:33 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/9/2006 7:26:53 PM
Surr: BFB	109	79-128		%REC	1	2/9/2006 7:26:53 PM

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	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
	S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory

Date: *16-Feb-06*

CLIENT:	Industrial Ecosystems, Inc.	Client Sample ID:	Pile 207 Burlington
Lab Order:	0602074	Collection Date:	2/7/2006 11:45:00 AM
Project:	JFJ Land Farm	Date Received:	2/8/2006
Lab ID:	0602074-05	Matrix:	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **SCC**
Diesel Range Organics (DRO)	3100	200		mg/Kg	20	2/14/2006 2:14:17 PM
Motor Oil Range Organics (MRO)	3600	1000		mg/Kg	20	2/14/2006 2:14:17 PM
Surr: DNOP	0	60-124	S	%REC	20	2/14/2006 2:14:17 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/9/2006 9:00:27 PM
Surr: BFB	109	79-128		%REC	1	2/9/2006 9:00:27 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
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
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory

Date: *16-Feb-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	Pile 231 Duke Texaco
Lab Order:	0602074	**Collection Date:**	2/7/2006 11:15:00 AM
Project:	JFJ Land Farm	**Date Received:**	2/8/2006
Lab ID:	0602074-06	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **SCC**
Diesel Range Organics (DRO)	15	10		mg/Kg	1	2/15/2006 8:08:41 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	2/15/2006 8:08:41 AM
Surr: DNOP	100	60-124		%REC	1	2/15/2006 8:08:41 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/9/2006 9:31:36 PM
Surr: BFB	108	79-128		%REC	1	2/9/2006 9:31:36 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
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
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory

Date: *16-Feb-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	Pile 2 XTO/Duke
Lab Order:	0602074	**Collection Date:**	2/7/2006 11:45:00 AM
Project:	JFJ Land Farm	**Date Received:**	2/8/2006
Lab ID:	0602074-07	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	2900	500		mg/Kg	50	2/15/2006 11:26:06 AM
Motor Oil Range Organics (MRO)	3400	2500		mg/Kg	50	2/15/2006 11:26:06 AM
Surr: DNOP	0	60-124	S	%REC	50	2/15/2006 11:26:06 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/9/2006 11:04:34 PM
Surr: BFB	112	79-128		%REC	1	2/9/2006 11:04:34 PM

Qualifiers:				
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	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
	S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory

Date: *16-Feb-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	Pile 61 Basin
Lab Order:	0602074	**Collection Date:**	2/7/2006 11:00:00 AM
Project:	JFJ Land Farm	**Date Received:**	2/8/2006
Lab ID:	0602074-08	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **SCC**
Diesel Range Organics (DRO)	22	10		mg/Kg	1	2/15/2006 11:58:49 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	2/15/2006 11:58:49 AM
Surr: DNOP	93.6	60-124		%REC	1	2/15/2006 11:58:49 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/9/2006 11:35:32 PM
Surr: BFB	109	79-128		%REC	1	2/9/2006 11:35:32 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
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
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory

Date: *16-Feb-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	Pile 30 Burlington
Lab Order:	0602074	**Collection Date:**	2/7/2006 11:30:00 AM
Project:	JFJ Land Farm	**Date Received:**	2/8/2006
Lab ID:	0602074-09	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **SCC**
Diesel Range Organics (DRO)	84	10		mg/Kg	1	2/15/2006 12:31:33 PM
Motor Oil Range Organics (MRO)	58	50		mg/Kg	1	2/15/2006 12:31:33 PM
Surr: DNOP	94.5	60-124		%REC	1	2/15/2006 12:31:33 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/10/2006 12:06:23 AM
Surr: BFB	109	79-128		%REC	1	2/10/2006 12:06:23 AM

Qualifiers:				
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	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
	S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory

Date: *16-Feb-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	Pile 522 Burlington
Lab Order:	0602074	**Collection Date:**	2/7/2006 11:00:00 AM
Project:	JFJ Land Farm	**Date Received:**	2/8/2006
Lab ID:	0602074-10	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **SCC**
Diesel Range Organics (DRO)	130	10		mg/Kg	1	2/15/2006 1:04:20 PM
Motor Oil Range Organics (MRO)	170	50		mg/Kg	1	2/15/2006 1:04:20 PM
Surr: DNOP	95.0	60-124		%REC	1	2/15/2006 1:04:20 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/10/2006 12:37:05 AM
Surr: BFB	110	79-128		%REC	1	2/10/2006 12:37:05 AM

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	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
	S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory

Date: *16-Feb-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	Pile 104 Red Cedar
Lab Order:	0602074	**Collection Date:**	2/7/2006 11:30:00 AM
Project:	JFJ Land Farm	**Date Received:**	2/8/2006
Lab ID:	0602074-11	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **SCC**
Diesel Range Organics (DRO)	46	10		mg/Kg	1	2/15/2006 1:37:12 PM
Motor Oil Range Organics (MRO)	57	50		mg/Kg	1	2/15/2006 1:37:12 PM
Surr: DNOP	92.3	60-124		%REC	1	2/15/2006 1:37:12 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/10/2006 1:07:46 AM
Surr: BFB	107	79-128		%REC	1	2/10/2006 1:07:46 AM

Qualifiers:				
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	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
	S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory

Date: *16-Feb-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	Pile 103 XTO Energy
Lab Order:	0602074	**Collection Date:**	2/7/2006 11:30:00 AM
Project:	JFJ Land Farm	**Date Received:**	2/8/2006
Lab ID:	0602074-12	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **SCC**
Diesel Range Organics (DRO)	120	10		mg/Kg	1	2/15/2006 2:10:16 PM
Motor Oil Range Organics (MRO)	150	50		mg/Kg	1	2/15/2006 2:10:16 PM
Surr: DNOP	91.8	60-124		%REC	1	2/15/2006 2:10:16 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/10/2006 1:38:19 AM
Surr: BFB	108	79-128		%REC	1	2/10/2006 1:38:19 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
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
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory

Date: *16-Feb-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	Pile 509 Burlington
Lab Order:	0602074	**Collection Date:**	2/7/2006 11:15:00 AM
Project:	JFJ Land Farm	**Date Received:**	2/8/2006
Lab ID:	0602074-13	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **SCC**
Diesel Range Organics (DRO)	14	10		mg/Kg	1	2/15/2006 2:43:19 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	2/15/2006 2:43:19 PM
Surr: DNOP	103	60-124		%REC	1	2/15/2006 2:43:19 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/10/2006 4:39:59 PM
Surr: BFB	104	79-128		%REC	1	2/10/2006 4:39:59 PM

Qualifiers:				
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	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
	S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory

Date: *16-Feb-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	Pile 531 Burlington
Lab Order:	0602074	**Collection Date:**	2/7/2006 11:00:00 AM
Project:	JFJ Land Farm	**Date Received:**	2/8/2006
Lab ID:	0602074-14	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **SCC**
Diesel Range Organics (DRO)	47	10		mg/Kg	1	2/15/2006 3:14:51 PM
Motor Oil Range Organics (MRO)	60	50		mg/Kg	1	2/15/2006 3:14:51 PM
Surr: DNOP	97.5	60-124		%REC	1	2/15/2006 3:14:51 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/10/2006 5:11:11 PM
Surr: BFB	103	79-128		%REC	1	2/10/2006 5:11:11 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
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
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory

Date: *16-Feb-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	Pile 63 Duke/Texaco
Lab Order:	0602074	**Collection Date:**	2/7/2006 11:15:00 AM
Project:	JFJ Land Farm	**Date Received:**	2/8/2006
Lab ID:	0602074-15	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: SCC
Diesel Range Organics (DRO)	17	10		mg/Kg	1	2/15/2006 3:48:10 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	2/15/2006 3:48:10 PM
Surr: DNOP	113	60-124		%REC	1	2/15/2006 3:48:10 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/10/2006 7:16:32 PM
Surr: BFB	102	79-128		%REC	1	2/10/2006 7:16:32 PM

Qualifiers:				
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	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
	S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory

Date: *16-Feb-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	Pile 528 Coleman Oil & Gas
Lab Order:	0602074	**Collection Date:**	2/7/2006 11:45:00 AM
Project:	JFJ Land Farm	**Date Received:**	2/8/2006
Lab ID:	0602074-16	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **SCC**
Diesel Range Organics (DRO)	68	10		mg/Kg	1	2/15/2006 4:19:51 PM
Motor Oil Range Organics (MRO)	58	50		mg/Kg	1	2/15/2006 4:19:51 PM
Surr: DNOP	93.8	60-124		%REC	1	2/15/2006 4:19:51 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/10/2006 7:47:40 PM
Surr: BFB	118	79-128		%REC	1	2/10/2006 7:47:40 PM

Qualifiers:				
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	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
	S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory

Date: *16-Feb-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	Pile 527 Coleman Oil & Gas
Lab Order:	0602074	**Collection Date:**	2/7/2006 10:45:00 AM
Project:	JFJ Land Farm	**Date Received:**	2/8/2006
Lab ID:	0602074-17	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **SCC**
Diesel Range Organics (DRO)	76	10		mg/Kg	1	2/15/2006 5:26:13 PM
Motor Oil Range Organics (MRO)	73	50		mg/Kg	1	2/15/2006 5:26:13 PM
Surr: DNOP	96.6	60-124		%REC	1	2/15/2006 5:26:13 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/10/2006 8:18:49 PM
Surr: BFB	105	79-128		%REC	1	2/10/2006 8:18:49 PM

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	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
	S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory

Date: *16-Feb-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	Pile 526 Coleman Oil & Gas
Lab Order:	0602074	**Collection Date:**	2/7/2006 10:45:00 AM
Project:	JFJ Land Farm	**Date Received:**	2/8/2006
Lab ID:	0602074-18	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **SCC**
Diesel Range Organics (DRO)	76	10		mg/Kg	1	2/15/2006 7:37:49 PM
Motor Oil Range Organics (MRO)	50	50		mg/Kg	1	2/15/2006 7:37:49 PM
Surr: DNOP	92.9	60-124		%REC	1	2/15/2006 7:37:49 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/10/2006 9:51:28 PM
Surr: BFB	108	79-128		%REC	1	2/10/2006 9:51:28 PM

Qualifiers:				
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	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
	S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory

Date: *16-Feb-06*

CLIENT:	Industrial Ecosystems, Inc.	**Client Sample ID:**	Pile 518 Burlington
Lab Order:	0602074	**Collection Date:**	2/7/2006 11:00:00 AM
Project:	JFJ Land Farm	**Date Received:**	2/8/2006
Lab ID:	0602074-19	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **SCC**
Diesel Range Organics (DRO)	110	10		mg/Kg	1	2/15/2006 8:10:33 PM
Motor Oil Range Organics (MRO)	150	50		mg/Kg	1	2/15/2006 8:10:33 PM
Surr: DNOP	99.8	60-124		%REC	1	2/15/2006 8:10:33 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/10/2006 10:22:01 PM
Surr: BFB	104	79-128		%REC	1	2/10/2006 10:22:01 PM

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	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
	S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory

Date: *16-Feb-06*

CLIENT: Industrial Ecosystems, Inc.
Work Order: 0602074
Project: JFJ Land Farm

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015DRO_S

Sample ID: MB-9725	SampType: MBLK	TestCode: 8015DRO_S	Units: mg/Kg	Prep Date: 2/8/2006	RunNo: 18235
Client ID: ZZZZZ	Batch ID: 9725	TestNo: SW8015		Analysis Date: 2/14/2006	SeqNo: 450096

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10									
Motor Oil Range Organics (MRO)	ND	50									

Sample ID: MB-9740	SampType: MBLK	TestCode: 8015DRO_S	Units: mg/Kg	Prep Date: 2/9/2006	RunNo: 18235
Client ID: ZZZZZ	Batch ID: 9740	TestNo: SW8015		Analysis Date: 2/15/2006	SeqNo: 450708

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10									
Motor Oil Range Organics (MRO)	ND	50									

Sample ID: LCS-9725	SampType: LCS	TestCode: 8015DRO_S	Units: mg/Kg	Prep Date: 2/8/2006	RunNo: 18235
Client ID: ZZZZZ	Batch ID: 9725	TestNo: SW8015		Analysis Date: 2/14/2006	SeqNo: 450097

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	54.35	10	50	0	109	67.4	117				

Sample ID: LCS-9740	SampType: LCS	TestCode: 8015DRO_S	Units: mg/Kg	Prep Date: 2/9/2006	RunNo: 18235
Client ID: ZZZZZ	Batch ID: 9740	TestNo: SW8015		Analysis Date: 2/15/2006	SeqNo: 450709

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	39.99	10	50	0	80.0	67.4	117				

Sample ID: LCSD-9725	SampType: LCSD	TestCode: 8015DRO_S	Units: mg/Kg	Prep Date: 2/8/2006	RunNo: 18235
Client ID: ZZZZZ	Batch ID: 9725	TestNo: SW8015		Analysis Date: 2/14/2006	SeqNo: 450098

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	56.20	10	50	0	112	67.4	117	54.35	3.35	17.4	

Qualifiers:
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
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

CLIENT: Industrial Ecosystems, Inc.
Work Order: 0602074
Project: JFJ Land Farm

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015DRO_S

Sample ID: LCSD-9740	SampType: LCSD	TestCode: 8015DRO_S	Units: mg/Kg	Prep Date: 2/9/2006	RunNo: 18235
Client ID: ZZZZZ	Batch ID: 9740	TestNo: SW8015		Analysis Date: 2/16/2006	SeqNo: 450868

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44.68	10	50	0	89.4	67.4	117	39.99	11.1	17.4	

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Qualifiers:
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
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

CLIENT: Industrial Ecosystems, Inc.
Work Order: 0602074
Project: JFJ Land Farm

ANALYTICAL QC SUMMARY REPORT

TestCode: 8015GRO_S

Sample ID: MB-9735	SampType: MBLK	TestCode: 8015GRO_S	Units: mg/Kg	Prep Date: 2/8/2006	RunNo: 18206
Client ID: ZZZZZ	Batch ID: 9735	TestNo: SW8015	(SW5035)	Analysis Date: 2/9/2006	SeqNo: 448875

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0									

Sample ID: LCS-9735	SampType: LCS	TestCode: 8015GRO_S	Units: mg/Kg	Prep Date: 2/8/2006	RunNo: 18206
Client ID: ZZZZZ	Batch ID: 9735	TestNo: SW8015	(SW5035)	Analysis Date: 2/9/2006	SeqNo: 448876

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27.80	5.0	25	0	111	84	120				

Sample ID: 0602074-14A MS	SampType: MS	TestCode: 8015GRO_S	Units: mg/Kg	Prep Date: 2/8/2006	RunNo: 18225
Client ID: Pile 531 Burlington	Batch ID: 9735	TestNo: SW8015	(SW5035)	Analysis Date: 2/10/2006	SeqNo: 449295

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27.50	5.0	25	0	110	84	120				

Sample ID: 0602074-14A MSD	SampType: MSD	TestCode: 8015GRO_S	Units: mg/Kg	Prep Date: 2/8/2006	RunNo: 18225
Client ID: Pile 531 Burlington	Batch ID: 9735	TestNo: SW8015	(SW5035)	Analysis Date: 2/10/2006	SeqNo: 449296

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27.00	5.0	25	0	108	84	120	27.5	1.83	11.6	

23 / 24

Qualifiers:
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
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory

Sample Receipt Checklist

Client Name IND ECO | Date and Time Received: 2/8/2006

Work Order Number 0602074 | Received by LMM

Checklist completed by Lisa Hallett (Signature) 2/8/06 (Date)

Matrix | Carrier name FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐	
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐	Not Shipped ☐
Custody seals intact on sample bottles?	Yes ☐	No ☑	N/A ☐	
Chain of custody present?	Yes ☑	No ☐		
Chain of custody signed when relinquished and received?	Yes ☑	No ☐		
Chain of custody agrees with sample labels?	Yes ☑	No ☐		
Samples in proper container/bottle?	Yes ☑	No ☐		
Sample containers intact?	Yes ☑	No ☐		
Sufficient sample volume for indicated test?	Yes ☑	No ☐		
All samples received within holding time?	Yes ☑	No ☐		
Water - VOA vials have zero headspace?	No VOA vials submitted ☑	Yes ☐	No ☐	
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑	

Container/Temp Blank temperature? 2° *4° C ± 2 Acceptable* If given sufficient time to cool.

COMMENTS:

Client contacted | Date contacted: | Person contacted

Contacted by: | Regarding

Comments: Per Nel Sample ID on seal jars. Our correct Sample ID / AT 2/8/06

Corrective Action

CHAIN-OF-CUSTODY RECORD

QA / QC Package:
Std ☐ Level 4 ☐
Other: _____

HALL ENVIRONMENTAL
ANALYSIS LABORATORY
4901 Hawkins NE, Suite D
Albuquerque, New Mexico 87109
Tel. 505.345.3975 Fax 505.345.4107
www.hallenvironmental.com

Client: Industrial Ecosystems
Address: #81 CR 3150
Aztec NM 87410
Phone #: 505-632-1782
Fax #: 505-632-1876

Project Name: JFJ Landfarm
Project #:
Project Manager: James Hatcher
Sampler: Joe Birkby
Sample Temperature: 2°

Date	Time	Matrix	Sample I.D. No.	Number/Volume	Preservative $HgCl_2$	Preservative HNO_3	HEAL No. 0602074
2-7-06	11:45	Soil	Pile 5 Basin	1-4oz			-1
2-7-06	11:30		Pile 102 Key Energy	1-4oz			-2
2-7-06	11:45		Pile 230 Basin	1-4oz			-3
2-7-06	11:30		Pile 42 Delta End	1-4oz			-4
2-7-06	11:45		Pile 207 Burlington	1-4oz			-5
2-7-06	11:15		Pile 231 Duke Torrid #1	1-4oz			-6
2-7-06	11:45		Pile 2 Duke/Lito	1-4oz			-7
2-7-06	11:00		Pile 61 Basin	1-4oz			-8
2-7-06	11:30		Pile 30 Burlington	1-4oz			-9
2-7-06	11:00		Pile 522 Burlington	1-4oz			-10
2-7-06	11:30	↓	Pile 104 Red Cedar	1-4oz			-11

ANALYSIS REQUEST

BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gasoline Only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	EDC (Method 8021)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F, Cl, NO_3, NO_2, PO_4, SO_4)	8081 Pesticides / PCB's (8082)	8260B (VOA)	8270 (Semi-VOA)					Air Bubbles or Headspace (Y or N)
		X														
		X														
		X														
		X														
		X														
		X														
		X														
		X														
		X														
		X														
		X														

Date: 2-7-06 Time: 2:00 PM Relinquished By: (Signature) Joe Birkby
Received By: (Signature) Date: 2/8/06 Time: 0825

Date: Time: Relinquished By: (Signature)
Received By: (Signature)

Remarks:

CHAIN-OF-CUSTODY RECORD

QA / QC Package:
Std ☐ Level 4 ☐
Other:

HALL ENVIRONMENTAL ANALYSIS LABORATORY
4901 Hawkins NE, Suite D
Albuquerque, New Mexico 87109
Tel. 505.345.3975 Fax 505.345.4107
www.hallenvironmental.com

Client: Industrial Ecosystems

Address: #81 CR 3150
Aztec NM. 87410

Phone #: 505-632-1782

Fax #: 505-632-1876

Project Name: JFS Landfarm

Project #:

Project Manager: James Hatcher

Sampler: Joe Burton

Sample Temperature: 2°

ANALYSIS REQUEST

Date	Time	Matrix	Sample I.D. No.	Number/Volume	Preservative $HgCl_2$	Preservative HNO_3	HEAL No. 0602074	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gasoline Only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	EDC (Method 8021)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F, Cl, NO_3, NO_2, PO_4, SO_4)	8081 Pesticides / PCB's (8082)	8260B (VOA)	8270 (Semi-VOA)					Air Bubbles or Headspace (Y or N)
2-7-06	11:30	Soil	Pile 103 XTO Energy AT	1-4oz			-12			X														
2-7-06	11:15		Pile 509 Burlington	1-4oz			-13			X														
2-7-06	11:00		Pile 531 Burlington	1-4oz			-14			X														
2-7-06	11:15		Pile 63 Duke/Mexaco	1-4oz			-15			X														
2-7-06	11:45		Pile 528 Coleman Oil/Gas AT	1-4oz			-16			X														
2-7-06	10:45		Pile 527 Coleman Oil/Gas AT	1-4oz			-17			X														
2-7-06	10:45		Pile 526 Coleman Oil/Gas AT	1-4oz			-18			X														
2-7-06	11:00	↓	Pile 512 Burlington	1-4oz			-19			X														

Date:	Time:	Relinquished By: (Signature)	Received By: (Signature)
2-7-06	2:00 pm		0825 2/8/06
Date:	Time:	Relinquished By: (Signature)	Received By: (Signature)

Remarks:

BLAGG ENGINEERING, INC.
P.O. Box 87, Bloomfield, New Mexico 87413
Phone: (505)632-1199 Fax: (505)632-3903

January 3, 2006

Mr. Ed Martin
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

RECEIVED
JAN 5 2006
Oil Conservation Division
1220 S. St. Francis Drive
Santa Fe, NM 87505

Re: JFJ Waste Management Facility: Permit NM-01-0010B
Quarterly Report on Treatment Zone Monitoring

Dear Mr. Martin:

On behalf of JFJ Landfarm L.L.C., Blagg Engineering, Inc. (BEI) is submitting quarterly treatment zone monitoring test results for the JFJ Waste Management Facility pursuant to Permit NM-01-0010B. This report is for sampling conducted on December 20, 2005.

Sampling protocol included collection of native soils at a depth between 2' - 3' below the treatment zone in each cell using a hand auger. Samples were submitted for analytical testing that included total petroleum hydrocarbons (TPH) by U.S. EPA Method 8015B and volatile hydrocarbons (BTEX) by U.S. EPA Method 8021B.

With this quarterly monitoring samples were collect from active cell units 2c, 3e, 4f, 7b, 8d, 9a, 11c, 12d and 13c (Figure 1). There were no test results in excess of standards. Analytical reports are attached. The facility permit requires quarterly testing for TPH and BTEX, and annual testing for metals and cation/anions.

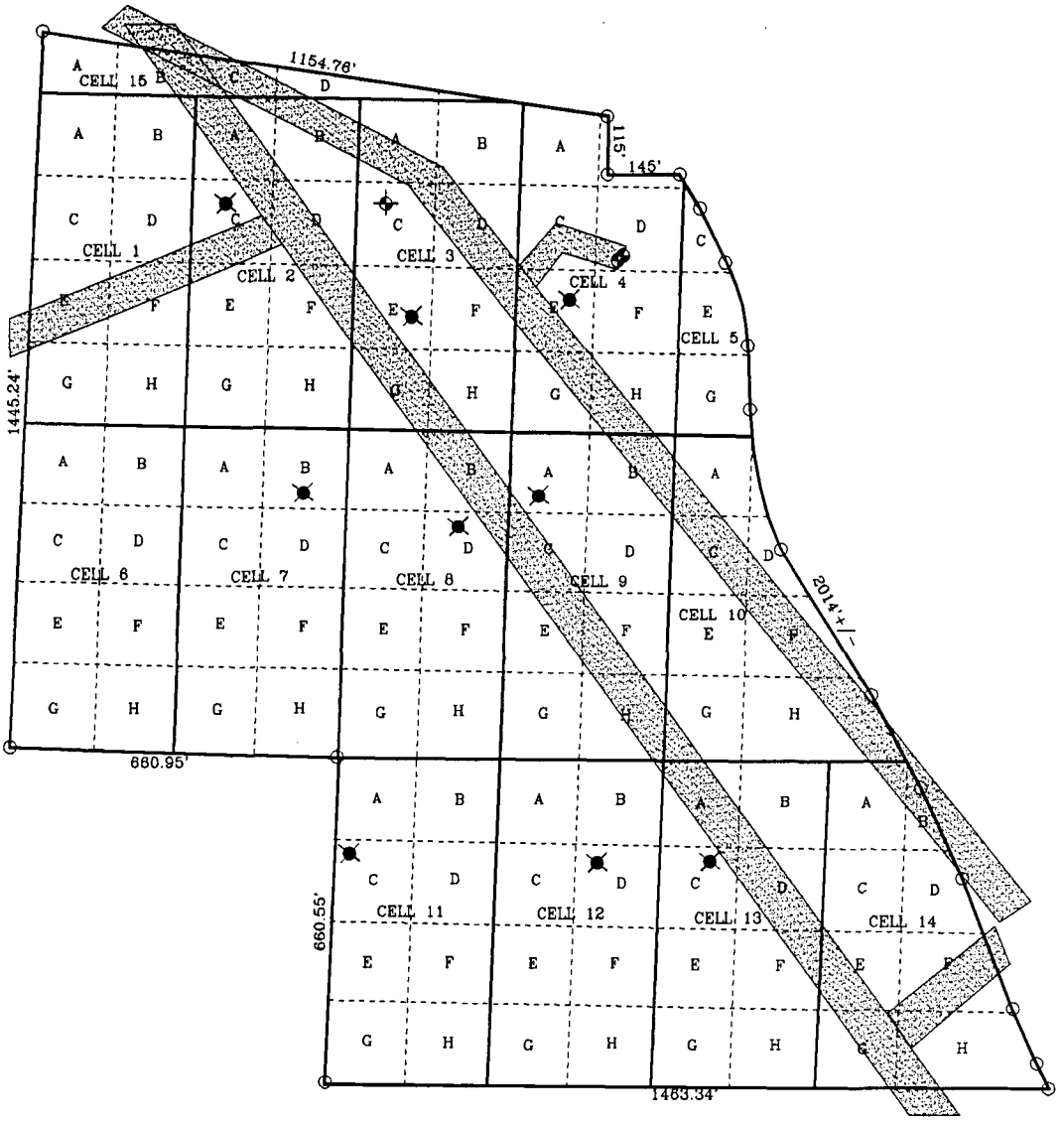
Questions or comments concerning this transmittal may be directed to myself at (505)632-1199 or to Jake Hatcher with JFJ Landfarm L.L.C. at (505)632-1786.

Respectfully submitted:
Blagg Engineering, Inc.

Jeffrey C. Blagg, P.E.
President

Attachments: Site Diagram
Analytical Test Reports

cc: Denny Foust, NMOCD Aztec District Office
Jake Hatcher, JFJ Farmington



JFJ LANDFARM FACILITY TREATMENT ZONE MONITORING			*BLAGG ENGINEERING, INC.*
DATE:12/20/2005	FIGURE 1	BY: JCB	*P.O. BOX 87, BLOOMFIELD, NM* *PHONE: (505)632-1199*

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 2C	Date Reported:	12-24-05
Laboratory Number:	35550	Date Sampled:	12-20-05
Chain of Custody No:	15232	Date Received:	12-20-05
Sample Matrix:	Soil	Date Extracted:	12-22-05
Preservative:	Cool	Date Analyzed:	12-24-05
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2' - 3'.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 3E	Date Reported:	12-24-05
Laboratory Number:	35551	Date Sampled:	12-20-05
Chain of Custody No:	15232	Date Received:	12-20-05
Sample Matrix:	Soil	Date Extracted:	12-22-05
Preservative:	Cool	Date Analyzed:	12-24-05
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2' - 3'.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 4F	Date Reported:	12-24-05
Laboratory Number:	35552	Date Sampled:	12-20-05
Chain of Custody No:	15232	Date Received:	12-20-05
Sample Matrix:	Soil	Date Extracted:	12-22-05
Preservative:	Cool	Date Analyzed:	12-24-05
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2' - 3'.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 7B	Date Reported:	12-24-05
Laboratory Number:	35553	Date Sampled:	12-20-05
Chain of Custody No:	15232	Date Received:	12-20-05
Sample Matrix:	Soil	Date Extracted:	12-22-05
Preservative:	Cool	Date Analyzed:	12-24-05
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2' - 3'.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 8D	Date Reported:	12-24-05
Laboratory Number:	35554	Date Sampled:	12-20-05
Chain of Custody No:	15232	Date Received:	12-20-05
Sample Matrix:	Soil	Date Extracted:	12-22-05
Preservative:	Cool	Date Analyzed:	12-24-05
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2' - 3'.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 9A	Date Reported:	12-24-05
Laboratory Number:	35555	Date Sampled:	12-20-05
Chain of Custody No:	15232	Date Received:	12-20-05
Sample Matrix:	Soil	Date Extracted:	12-22-05
Preservative:	Cool	Date Analyzed:	12-24-05
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2' - 3'.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 11C	Date Reported:	12-24-05
Laboratory Number:	35556	Date Sampled:	12-20-05
Chain of Custody No:	15232	Date Received:	12-20-05
Sample Matrix:	Soil	Date Extracted:	12-22-05
Preservative:	Cool	Date Analyzed:	12-24-05
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2' - 3'.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 12D	Date Reported:	12-24-05
Laboratory Number:	35557	Date Sampled:	12-20-05
Chain of Custody No:	15232	Date Received:	12-20-05
Sample Matrix:	Soil	Date Extracted:	12-22-05
Preservative:	Cool	Date Analyzed:	12-24-05
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2' - 3'.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 13C	Date Reported:	12-24-05
Laboratory Number:	35558	Date Sampled:	12-20-05
Chain of Custody No:	15232	Date Received:	12-20-05
Sample Matrix:	Soil	Date Extracted:	12-22-05
Preservative:	Cool	Date Analyzed:	12-24-05
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2' - 3'.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	12-24-05 QA/QC	Date Reported:	12-24-05
Laboratory Number:	35550	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	12-24-05
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
Gasoline Range C5 - C10	02-04-05	9.9705E+002	9.9805E+002	**0.10%**	**0 - 15%**
Diesel Range C10 - C28	02-04-05	1.0032E+003	1.0052E+003	**0.20%**	**0 - 15%**

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	**ND**	**0.2**
Diesel Range C10 - C28	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	**ND**	**ND**	**0.0%**	**0 - 30%**
Diesel Range C10 - C28	**ND**	**ND**	**0.0%**	**0 - 30%**

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	**ND**	**250**	**250**	**100.0%**	**75 - 125%**
Diesel Range C10 - C28	**ND**	**250**	**250**	**100.0%**	**75 - 125%**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **QA/QC for Samples 35550 - 35558, 35571.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 2C	Date Reported:	12-24-05
Laboratory Number:	35550	Date Sampled:	12-20-05
Chain of Custody:	15232	Date Received:	12-20-05
Sample Matrix:	Soil	Date Analyzed:	12-24-05
Preservative:	Cool	Date Extracted:	12-22-05
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**ND**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**97.0 %**
	1,4-difluorobenzene	**97.0 %**
	Bromochlorobenzene	**97.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2' - 3'.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 3E	Date Reported:	12-24-05
Laboratory Number:	35551	Date Sampled:	12-20-05
Chain of Custody:	15232	Date Received:	12-20-05
Sample Matrix:	Soil	Date Analyzed:	12-24-05
Preservative:	Cool	Date Extracted:	12-22-05
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**ND**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**99.0 %**
	1,4-difluorobenzene	**99.0 %**
	Bromochlorobenzene	**99.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2' - 3'.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 4F	Date Reported:	12-24-05
Laboratory Number:	35552	Date Sampled:	12-20-05
Chain of Custody:	15232	Date Received:	12-20-05
Sample Matrix:	Soil	Date Analyzed:	12-24-05
Preservative:	Cool	Date Extracted:	12-22-05
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**ND**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**98.0 %**
	1,4-difluorobenzene	**98.0 %**
	Bromochlorobenzene	**98.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2' - 3'.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 7B	Date Reported:	12-24-05
Laboratory Number:	35553	Date Sampled:	12-20-05
Chain of Custody:	15232	Date Received:	12-20-05
Sample Matrix:	Soil	Date Analyzed:	12-24-05
Preservative:	Cool	Date Extracted:	12-22-05
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**ND**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**99.0 %**
	1,4-difluorobenzene	**99.0 %**
	Bromochlorobenzene	**99.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2' - 3'.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 8D	Date Reported:	12-24-05
Laboratory Number:	35554	Date Sampled:	12-20-05
Chain of Custody:	15232	Date Received:	12-20-05
Sample Matrix:	Soil	Date Analyzed:	12-24-05
Preservative:	Cool	Date Extracted:	12-22-05
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**ND**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**99.0 %**
	1,4-difluorobenzene	**99.0 %**
	Bromochlorobenzene	**99.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2' - 3'.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 9A	Date Reported:	12-24-05
Laboratory Number:	35555	Date Sampled:	12-20-05
Chain of Custody:	15232	Date Received:	12-20-05
Sample Matrix:	Soil	Date Analyzed:	12-24-05
Preservative:	Cool	Date Extracted:	12-22-05
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**ND**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**99.0 %**
	1,4-difluorobenzene	**99.0 %**
	Bromochlorobenzene	**99.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2' - 3'.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 11C	Date Reported:	12-24-05
Laboratory Number:	35556	Date Sampled:	12-20-05
Chain of Custody:	15232	Date Received:	12-20-05
Sample Matrix:	Soil	Date Analyzed:	12-24-05
Preservative:	Cool	Date Extracted:	12-22-05
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**ND**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**98.0 %**
	1,4-difluorobenzene	**98.0 %**
	Bromochlorobenzene	**98.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2' - 3'.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 12D	Date Reported:	12-24-05
Laboratory Number:	35557	Date Sampled:	12-20-05
Chain of Custody:	15232	Date Received:	12-20-05
Sample Matrix:	Soil	Date Analyzed:	12-24-05
Preservative:	Cool	Date Extracted:	12-22-05
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**ND**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**97.0 %**
	1,4-difluorobenzene	**97.0 %**
	Bromochlorobenzene	**97.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2' - 3'.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 13C	Date Reported:	12-24-05
Laboratory Number:	35558	Date Sampled:	12-20-05
Chain of Custody:	15232	Date Received:	12-20-05
Sample Matrix:	Soil	Date Analyzed:	12-24-05
Preservative:	Cool	Date Extracted:	12-22-05
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**ND**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**99.0 %**
	1,4-difluorobenzene	**99.0 %**
	Bromochlorobenzene	**99.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2' - 3'.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	12-24-BTEX QA/QC	Date Reported:	12-24-05
Laboratory Number:	35550	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	12-24-05
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF:	C-Cal RF:	%Diff. Accept. Range 0 - 15%	Blank Conc	Detect. Limit
Benzene	2.5000E+007	2.5050E+007	0.2%	ND	0.2
Toluene	5.8181E+007	5.8297E+007	0.2%	ND	0.2
Ethylbenzene	4.5280E+007	4.5371E+007	0.2%	ND	0.2
p,m-Xylene	9.5402E+007	9.5593E+007	0.2%	ND	0.2
o-Xylene	4.5701E+007	4.5793E+007	0.2%	ND	0.1

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	ND	ND	0.0%	0 - 30%	1.8
Toluene	ND	ND	0.0%	0 - 30%	1.7
Ethylbenzene	ND	ND	0.0%	0 - 30%	1.5
p,m-Xylene	ND	ND	0.0%	0 - 30%	2.2
o-Xylene	ND	ND	0.0%	0 - 30%	1.0

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	50.0	50.0	100.0%	39 - 150
Toluene	ND	50.0	49.9	99.8%	46 - 148
Ethylbenzene	ND	50.0	49.9	99.8%	32 - 160
p,m-Xylene	ND	100	99.9	99.9%	46 - 148
o-Xylene	ND	50.0	50.0	100.0%	46 - 148

ND - Parameter not detected at the stated detection limit.

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.
Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: **QA/QC for Samples 35550 - 35558.**

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CHAIN OF CUSTODY RECORD

15232

Client / Project Name	Project Location	ANALYSIS / PARAMETERS
BLAGG / JFJ	JFJ LANDFARM	
Sampler: J. C. Blagg	Client No. 94034-010	

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TPH 8015	BTEX 8021					Remarks
CELL 2C	12/20/05	1220	35550	SOIL	1	X	X					2'-3'
CELL 3E	"	1230	35551	"	1	X	X					"
CELL 4F	"	1240	35552	"	1	X	X					"
CELL 7B	"	1340	35553	"	1	X	X					"
CELL 8D	"	1330	35554	"	1	X	X					"
CELL 9A	"	1320	35555	"	1	X	X					"
CELL 11C	"	1250	35556	"	1	X	X					"
CELL 12D	"	1300	35557	"	1	X	X					"
CELL 13C	"	1310	35558	"	1	X	X					"

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
J. C. Blagg	12/20/05	1400		12/21/05	1400
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

ENVIROTECH INC.

5796 U.S. Highway 64
Farmington, New Mexico 87401
(505) 632-0615

Sample Receipt	Y	N	N/A
Received Intact	✓		
Cool - Ice/Blue Ice	✓		

san juan reproduction 578-129

BLAGG ENGINEERING, INC.
P.O. Box 87, Bloomfield, New Mexico 87413
Phone: (505)632-1199 Fax: (505)632-3903

RECEIVED
SEP 29 2005
OIL CONSERVATION DIVISION

September 27, 2005

Mr. Ed Martin
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Re: JFJ Waste Management Facility: Permit NM-01-0010B
Quarterly Report on Treatment Zone Monitoring

Dear Mr. Martin:

On behalf of JFJ Landfarm L.L.C., Blagg Engineering, Inc. (BEI) is submitting quarterly treatment zone monitoring test results for the JFJ Waste Management Facility pursuant to Permit NM-01-0010B. This report is for sampling conducted on September 12, 2005.

Sampling protocol included collection of native soils at a depth between 2' - 3' below the treatment zone in each cell using a pickup mounted power auger. Samples were submitted for analytical testing that included total petroleum hydrocarbons (TPH) by U.S. EPA Method 8015B, volatile hydrocarbons (BTEX) by U.S. EPA Method 8021B, 8 RCRA metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium and silver) and standard cation/anion balance.

With this quarterly monitoring samples were collect from active cell units 2be 3c, 4h, 7e, 8g, 9h, 11e, 12g and 13g (Figure 1). There were no test results in excess of standards. Analytical reports are attached. The facility permit requires quarterly testing for TPH and BTEX, and annual testing for metals and cation/anions.

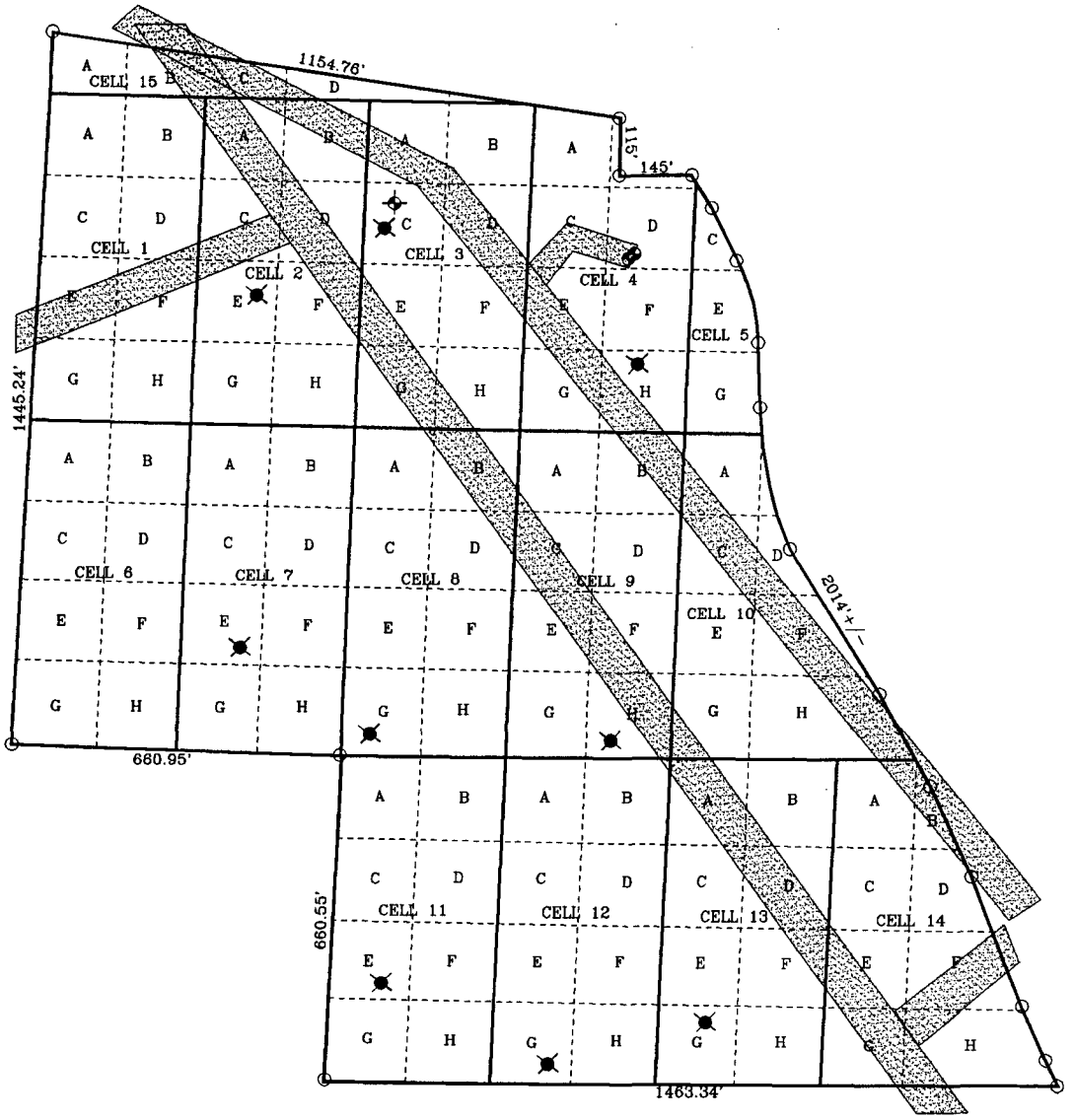
Questions or comments concerning this transmittal may be directed to myself at (505)632-1199 or to Jake Hatcher with JFJ Landfarm L.L.C. at (505)632-1786.

Respectfully submitted:
Blagg Engineering, Inc.

Jeffrey C. Blagg, P.E.
President

Attachments: Site Diagram
Analytical Test Reports

cc: Denny Foust, NMOCD Aztec District Office
Jake Hatcher, JFJ Farmington



LEGEND

- Treatment Zone Sample Location
- Active Gas Well
- PxA Gas Well
- Pipeline Right-of-Way

N

0 500 1000 Feet

JFJ LANDFARM FACILITY TREATMENT ZONE MONITORING			*BLAGG ENGINEERING, INC.*
DATE: 9/12/2005	FIGURE 1	BY: JCB	*P.O. BOX 87, BLOOMFIELD, NM* *PHONE: (505)632-1199*

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 8 G	Date Reported:	09-14-05
Laboratory Number:	34291	Date Sampled:	09-12-05
Chain of Custody No:	14510	Date Received:	09-13-05
Sample Matrix:	Soil	Date Extracted:	09-13-05
Preservative:	Cool	Date Analyzed:	09-14-05
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2'-3' Below Grade.**

Analyst

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CHAIN OF CUSTODY RECORD

14510

Client / Project Name	Project Location	ANALYSIS / PARAMETERS
BLAGG / IEI	JFJ LANDFARM	
Sampler: J. C. Blagg	Client No. 94034-010	

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TPH 8015	BTEX 8021	8 RCRA METALS	CATION / ANION			Remarks
CELL 2E	9/12/05	0915	34287	SOIL	2	X	X	X	X			2'-3' BELOW GRADE
CELL 3C	"	0900	34288	"	2	X	X	X	X			"
CELL 4H	"	0930	34289	"	2	X	X	X	X			"
CELL 7E	"	0945	34290	"	2	X	X	X	X			"
CELL 8G	"	0955	34291	"	2	X	X	X	X			"
CELL 9H	"	1010	34292	"	2	X	X	X	X			"
CELL 11E	"	1020	34293	"	2	X	X	X	X			"
CELL 12G	"	1030	34294	"	2	X	X	X	X			"
CELL 13G	"	1040	34295	"	2	X	X	X	X			"

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
J. C. Blagg	9/13/05	0738	Allen P. Applin	9/13/05	0738
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

ENVIROTECH INC.

5796 U.S. Highway 64
Farmington, New Mexico 87401
(505) 632-0615

Sample Receipt	Y	N	N/A
Received Intact	✓		
Cool - Ice/Blue Ice	✓		

san juan reproduction 578-120

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 7 E	Date Reported:	09-14-05
Laboratory Number:	34290	Date Sampled:	09-12-05
Chain of Custody No:	14510	Date Received:	09-13-05
Sample Matrix:	Soil	Date Extracted:	09-13-05
Preservative:	Cool	Date Analyzed:	09-14-05
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2'-3' Below Grade.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 4 H	Date Reported:	09-14-05
Laboratory Number:	34289	Date Sampled:	09-12-05
Chain of Custody No:	14510	Date Received:	09-13-05
Sample Matrix:	Soil	Date Extracted:	09-13-05
Preservative:	Cool	Date Analyzed:	09-14-05
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2'-3' Below Grade.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 2 E	Date Reported:	09-14-05
Laboratory Number:	34287	Date Sampled:	09-12-05
Chain of Custody No:	14510	Date Received:	09-13-05
Sample Matrix:	Soil	Date Extracted:	09-13-05
Preservative:	Cool	Date Analyzed:	09-14-05
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2'-3' Below Grade.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 3 C	Date Reported:	09-14-05
Laboratory Number:	34288	Date Sampled:	09-12-05
Chain of Custody No:	14510	Date Received:	09-13-05
Sample Matrix:	Soil	Date Extracted:	09-13-05
Preservative:	Cool	Date Analyzed:	09-14-05
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2'-3' Below Grade.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 9 H	Date Reported:	09-14-05
Laboratory Number:	34292	Date Sampled:	09-12-05
Chain of Custody No:	14510	Date Received:	09-13-05
Sample Matrix:	Soil	Date Extracted:	09-13-05
Preservative:	Cool	Date Analyzed:	09-14-05
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2'-3' Below Grade.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 11 E	Date Reported:	09-14-05
Laboratory Number:	34293	Date Sampled:	09-12-05
Chain of Custody No:	14510	Date Received:	09-13-05
Sample Matrix:	Soil	Date Extracted:	09-13-05
Preservative:	Cool	Date Analyzed:	09-14-05
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**1.4**	**0.1**
Total Petroleum Hydrocarbons	**1.4**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2'-3' Below Grade.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 12 G	Date Reported:	09-14-05
Laboratory Number:	34294	Date Sampled:	09-12-05
Chain of Custody No:	14510	Date Received:	09-13-05
Sample Matrix:	Soil	Date Extracted:	09-13-05
Preservative:	Cool	Date Analyzed:	09-14-05
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2'-3' Below Grade.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 13 G	Date Reported:	09-14-05
Laboratory Number:	34295	Date Sampled:	09-12-05
Chain of Custody No:	14510	Date Received:	09-13-05
Sample Matrix:	Soil	Date Extracted:	09-13-05
Preservative:	Cool	Date Analyzed:	09-14-05
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2'-3' Below Grade.**

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ENVIROTECH LABS
PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	09-14-05 QA/QC	Date Reported:	09-14-05
Laboratory Number:	34287	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	09-14-05
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF	C-Cal RF	% Difference	Accept. Range
Gasoline Range C5 - C10	02-04-05	9.9829E+002	9.9929E+002	**0.10%**	**0 - 15%**
Diesel Range C10 - C28	02-04-05	1.0022E+003	1.0042E+003	**0.20%**	**0 - 15%**

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	**ND**	**0.2**
Diesel Range C10 - C28	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	**ND**	**ND**	**0.0%**	**0 - 30%**
Diesel Range C10 - C28	**ND**	**ND**	**0.0%**	**0 - 30%**

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	**ND**	**250**	**250**	**100.0%**	**75 - 125%**
Diesel Range C10 - C28	**ND**	**250**	**250**	**100.0%**	**75 - 125%**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **QA/QC for Samples 34287 - 34295.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 2 E	Date Reported:	09-14-05
Laboratory Number:	34287	Date Sampled:	09-12-05
Chain of Custody:	14510	Date Received:	09-13-05
Sample Matrix:	Soil	Date Analyzed:	09-14-05
Preservative:	Cool	Date Extracted:	09-13-05
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**19.9**	**1.7**
Ethylbenzene	**4.6**	**1.5**
p,m-Xylene	**25.0**	**2.2**
o-Xylene	**9.2**	**1.0**
Total BTEX	**58.7**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**98.0 %**
	1,4-difluorobenzene	**98.0 %**
	Bromochlorobenzene	**98.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2'-3' Below Grade.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 3 C	Date Reported:	09-14-05
Laboratory Number:	34288	Date Sampled:	09-12-05
Chain of Custody:	14510	Date Received:	09-13-05
Sample Matrix:	Soil	Date Analyzed:	09-14-05
Preservative:	Cool	Date Extracted:	09-13-05
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**18.3**	**1.7**
Ethylbenzene	**3.4**	**1.5**
p,m-Xylene	**28.8**	**2.2**
o-Xylene	**9.8**	**1.0**
Total BTEX	**60.3**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**99.0 %**
	1,4-difluorobenzene	**99.0 %**
	Bromochlorobenzene	**99.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2'-3' Below Grade.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 4 H	Date Reported:	09-14-05
Laboratory Number:	34289	Date Sampled:	09-12-05
Chain of Custody:	14510	Date Received:	09-13-05
Sample Matrix:	Soil	Date Analyzed:	09-14-05
Preservative:	Cool	Date Extracted:	09-13-05
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**8.2**	**1.5**
p,m-Xylene	**14.3**	**2.2**
o-Xylene	**4.4**	**1.0**
Total BTEX	**26.9**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**97.0 %**
	1,4-difluorobenzene	**97.0 %**
	Bromochlorobenzene	**97.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2'-3' Below Grade.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 7 E	Date Reported:	09-14-05
Laboratory Number:	34290	Date Sampled:	09-12-05
Chain of Custody:	14510	Date Received:	09-13-05
Sample Matrix:	Soil	Date Analyzed:	09-14-05
Preservative:	Cool	Date Extracted:	09-13-05
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**15.8**	**1.7**
Ethylbenzene	**1.8**	**1.5**
p,m-Xylene	**25.0**	**2.2**
o-Xylene	**6.1**	**1.0**
Total BTEX	**48.7**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**99.0 %**
	1,4-difluorobenzene	**99.0 %**
	Bromochlorobenzene	**99.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2'-3' Below Grade.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 8 G	Date Reported:	09-14-05
Laboratory Number:	34291	Date Sampled:	09-12-05
Chain of Custody:	14510	Date Received:	09-13-05
Sample Matrix:	Soil	Date Analyzed:	09-14-05
Preservative:	Cool	Date Extracted:	09-13-05
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**17.5**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**31.1**	**2.2**
o-Xylene	**8.3**	**1.0**
Total BTEX	**56.9**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**98.0 %**
	1,4-difluorobenzene	**98.0 %**
	Bromochlorobenzene	**98.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2'-3' Below Grade.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 9 H	Date Reported:	09-14-05
Laboratory Number:	34292	Date Sampled:	09-12-05
Chain of Custody:	14510	Date Received:	09-13-05
Sample Matrix:	Soil	Date Analyzed:	09-14-05
Preservative:	Cool	Date Extracted:	09-13-05
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**29.5**	**1.7**
Ethylbenzene	**5.1**	**1.5**
p,m-Xylene	**60.1**	**2.2**
o-Xylene	**18.7**	**1.0**
Total BTEX	**113**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**97.0 %**
	1,4-difluorobenzene	**97.0 %**
	Bromochlorobenzene	**97.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2'-3' Below Grade.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 11 E	Date Reported:	09-14-05
Laboratory Number:	34293	Date Sampled:	09-12-05
Chain of Custody:	14510	Date Received:	09-13-05
Sample Matrix:	Soil	Date Analyzed:	09-14-05
Preservative:	Cool	Date Extracted:	09-13-05
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**14.2**	**1.7**
Ethylbenzene	**1.7**	**1.5**
p,m-Xylene	**65.6**	**2.2**
o-Xylene	**14.9**	**1.0**
Total BTEX	**96.4**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**99.0 %**
	1,4-difluorobenzene	**99.0 %**
	Bromochlorobenzene	**99.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2'-3' Below Grade.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 12 G	Date Reported:	09-14-05
Laboratory Number:	34294	Date Sampled:	09-12-05
Chain of Custody:	14510	Date Received:	09-13-05
Sample Matrix:	Soil	Date Analyzed:	09-14-05
Preservative:	Cool	Date Extracted:	09-13-05
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**14.1**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**7.0**	**2.2**
o-Xylene	**2.9**	**1.0**
Total BTEX	**24.0**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**98.0 %**
	1,4-difluorobenzene	**98.0 %**
	Bromochlorobenzene	**98.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2'-3' Below Grade.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 13 G	Date Reported:	09-14-05
Laboratory Number:	34295	Date Sampled:	09-12-05
Chain of Custody:	14510	Date Received:	09-13-05
Sample Matrix:	Soil	Date Analyzed:	09-14-05
Preservative:	Cool	Date Extracted:	09-13-05
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**4.3**	**1.7**
Ethylbenzene	**3.4**	**1.5**
p,m-Xylene	**7.5**	**2.2**
o-Xylene	**2.5**	**1.0**
Total BTEX	**17.7**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**99.0 %**
	1,4-difluorobenzene	**99.0 %**
	Bromochlorobenzene	**99.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2'-3' Below Grade.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	09-14-BTEX QA/QC	Date Reported:	09-14-05
Laboratory Number:	34287	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	09-14-05
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF:	C-Cal RF:	%Diff. Accept. Range 0 - 15%	Blank Conc	Detect. Limit
Benzene	2.1136E+007	2.1178E+007	**0.2%**	**ND**	**0.2**
Toluene	5.9765E+007	5.9885E+007	**0.2%**	**ND**	**0.2**
Ethylbenzene	4.5034E+007	4.5124E+007	**0.2%**	**ND**	**0.2**
p,m-Xylene	9.1607E+007	9.1791E+007	**0.2%**	**ND**	**0.2**
o-Xylene	4.4938E+007	4.5028E+007	**0.2%**	**ND**	**0.1**

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	**ND**	**ND**	**0.0%**	**0 - 30%**	**1.8**
Toluene	**19.9**	**19.8**	**0.5%**	**0 - 30%**	**1.7**
Ethylbenzene	**4.6**	**4.5**	**2.2%**	**0 - 30%**	**1.5**
p,m-Xylene	**25.0**	**24.9**	**0.4%**	**0 - 30%**	**2.2**
o-Xylene	**9.2**	**9.1**	**1.1%**	**0 - 30%**	**1.0**

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	**ND**	**50.0**	**49.9**	**99.8%**	**39 - 150**
Toluene	**19.9**	**50.0**	**69.8**	**99.9%**	**46 - 148**
Ethylbenzene	**4.6**	**50.0**	**54.5**	**99.8%**	**32 - 160**
p,m-Xylene	**25.0**	**100**	**125**	**100.0%**	**46 - 148**
o-Xylene	**9.2**	**50.0**	**59.1**	**99.8%**	**46 - 148**

ND - Parameter not detected at the stated detection limit.

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.
Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: **QA/QC for Samples 34287 - 34295.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 2 E	Date Reported:	09-14-05
Laboratory Number:	34287	Date Sampled:	09-12-05
Chain of Custody:	14510	Date Received:	09-13-05
Sample Matrix:	Soil	Date Analyzed:	09-14-05
Preservative:	Cool	Date Digested:	09-13-05
Condition:	Cool & Intact	Analysis Needed:	8 RCRA Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Arsenic	**0.076**	**0.001**	**5.0**
Barium	**2.25**	**0.001**	**100**
Cadmium	**0.004**	**0.001**	**1.0**
Chromium	**0.346**	**0.001**	**5.0**
Lead	**0.202**	**0.001**	**5.0**
Mercury	**ND**	**0.001**	**0.2**
Selenium	**0.466**	**0.001**	**1.0**
Silver	**ND**	**0.001**	**5.0**

ND - Parameter not detected at the stated detection limit.

References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils. SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision Spectroscopy, SW-846, USEPA, December 1996.

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, August 24, 1998.

Comments: **JFJ Landfarm 2'-3' Below Grade.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 3 C	Date Reported:	09-14-05
Laboratory Number:	34288	Date Sampled:	09-12-05
Chain of Custody:	14510	Date Received:	09-13-05
Sample Matrix:	Soil	Date Analyzed:	09-14-05
Preservative:	Cool	Date Digested:	09-13-05
Condition:	Cool & Intact	Analysis Needed:	8 RCRA Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Arsenic	**0.234**	**0.001**	**5.0**
Barium	**21.7**	**0.001**	**100**
Cadmium	**0.009**	**0.001**	**1.0**
Chromium	**0.151**	**0.001**	**5.0**
Lead	**0.201**	**0.001**	**5.0**
Mercury	**ND**	**0.001**	**0.2**
Selenium	**0.649**	**0.001**	**1.0**
Silver	**ND**	**0.001**	**5.0**

ND - Parameter not detected at the stated detection limit.

References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils. SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision Spectroscopy, SW-846, USEPA, December 1996.

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, August 24, 1998.

Comments: **JFJ Landfarm 2'-3' Below Grade.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 4 H	Date Reported:	09-14-05
Laboratory Number:	34289	Date Sampled:	09-12-05
Chain of Custody:	14510	Date Received:	09-13-05
Sample Matrix:	Soil	Date Analyzed:	09-14-05
Preservative:	Cool	Date Digested:	09-13-05
Condition:	Cool & Intact	Analysis Needed:	8 RCRA Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Arsenic	**0.079**	**0.001**	**5.0**
Barium	**6.17**	**0.001**	**100**
Cadmium	**0.005**	**0.001**	**1.0**
Chromium	**0.374**	**0.001**	**5.0**
Lead	**0.293**	**0.001**	**5.0**
Mercury	**ND**	**0.001**	**0.2**
Selenium	**0.500**	**0.001**	**1.0**
Silver	**ND**	**0.001**	**5.0**

ND - Parameter not detected at the stated detection limit.

References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils. SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision Spectroscopy, SW-846, USEPA, December 1996.

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, August 24, 1998.

Comments: **JFJ Landfarm 2'-3' Below Grade.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 7 E	Date Reported:	09-14-05
Laboratory Number:	34290	Date Sampled:	09-12-05
Chain of Custody:	14510	Date Received:	09-13-05
Sample Matrix:	Soil	Date Analyzed:	09-14-05
Preservative:	Cool	Date Digested:	09-13-05
Condition:	Cool & Intact	Analysis Needed:	8 RCRA Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Arsenic	**0.059**	**0.001**	**5.0**
Barium	**1.26**	**0.001**	**100**
Cadmium	**0.008**	**0.001**	**1.0**
Chromium	**0.344**	**0.001**	**5.0**
Lead	**0.386**	**0.001**	**5.0**
Mercury	**ND**	**0.001**	**0.2**
Selenium	**0.784**	**0.001**	**1.0**
Silver	**0.006**	**0.001**	**5.0**

ND - Parameter not detected at the stated detection limit.

References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils. SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision Spectroscopy, SW-846, USEPA, December 1996.

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, August 24, 1998.

Comments: **JFJ Landfarm 2'-3' Below Grade.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 8 G	Date Reported:	09-14-05
Laboratory Number:	34291	Date Sampled:	09-12-05
Chain of Custody:	14510	Date Received:	09-13-05
Sample Matrix:	Soil	Date Analyzed:	09-14-05
Preservative:	Cool	Date Digested:	09-13-05
Condition:	Cool & Intact	Analysis Needed:	8 RCRA Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Arsenic	**0.065**	**0.001**	**5.0**
Barium	**2.60**	**0.001**	**100**
Cadmium	**0.016**	**0.001**	**1.0**
Chromium	**0.508**	**0.001**	**5.0**
Lead	**0.582**	**0.001**	**5.0**
Mercury	**ND**	**0.001**	**0.2**
Selenium	**1.58**	**0.001**	**1.0**
Silver	**ND**	**0.001**	**5.0**

ND - Parameter not detected at the stated detection limit.

References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils. SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision Spectroscopy, SW-846, USEPA, December 1996.

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, August 24, 1998.

Comments: **JFJ Landfarm 2'-3' Below Grade.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 9 H	Date Reported:	09-14-05
Laboratory Number:	34292	Date Sampled:	09-12-05
Chain of Custody:	14510	Date Received:	09-13-05
Sample Matrix:	Soil	Date Analyzed:	09-14-05
Preservative:	Cool	Date Digested:	09-13-05
Condition:	Cool & Intact	Analysis Needed:	8 RCRA Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Arsenic	**0.110**	**0.001**	**5.0**
Barium	**1.72**	**0.001**	**100**
Cadmium	**0.010**	**0.001**	**1.0**
Chromium	**0.272**	**0.001**	**5.0**
Lead	**0.263**	**0.001**	**5.0**
Mercury	**ND**	**0.001**	**0.2**
Selenium	**0.717**	**0.001**	**1.0**
Silver	**ND**	**0.001**	**5.0**

ND - Parameter not detected at the stated detection limit.

References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils. SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision Spectroscopy, SW-846, USEPA, December 1996.

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, August 24, 1998.

Comments: **JFJ Landfarm 2'-3' Below Grade.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 11 E	Date Reported:	09-14-05
Laboratory Number:	34293	Date Sampled:	09-12-05
Chain of Custody:	14510	Date Received:	09-13-05
Sample Matrix:	Soil	Date Analyzed:	09-14-05
Preservative:	Cool	Date Digested:	09-13-05
Condition:	Cool & Intact	Analysis Needed:	8 RCRA Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Arsenic	**0.129**	**0.001**	**5.0**
Barium	**4.23**	**0.001**	**100**
Cadmium	**0.009**	**0.001**	**1.0**
Chromium	**0.382**	**0.001**	**5.0**
Lead	**0.540**	**0.001**	**5.0**
Mercury	**ND**	**0.001**	**0.2**
Selenium	**0.637**	**0.001**	**1.0**
Silver	**ND**	**0.001**	**5.0**

ND - Parameter not detected at the stated detection limit.

References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils. SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision Spectroscopy, SW-846, USEPA, December 1996.

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, August 24, 1998.

Comments: **JFJ Landfarm 2'-3' Below Grade.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 12 G	Date Reported:	09-14-05
Laboratory Number:	34294	Date Sampled:	09-12-05
Chain of Custody:	14510	Date Received:	09-13-05
Sample Matrix:	Soil	Date Analyzed:	09-14-05
Preservative:	Cool	Date Digested:	09-13-05
Condition:	Cool & Intact	Analysis Needed:	8 RCRA Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Arsenic	**0.052**	**0.001**	**5.0**
Barium	**2.34**	**0.001**	**100**
Cadmium	**0.004**	**0.001**	**1.0**
Chromium	**0.526**	**0.001**	**5.0**
Lead	**0.209**	**0.001**	**5.0**
Mercury	**ND**	**0.001**	**0.2**
Selenium	**0.530**	**0.001**	**1.0**
Silver	**ND**	**0.001**	**5.0**

ND - Parameter not detected at the stated detection limit.

References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils. SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision Spectroscopy, SW-846, USEPA, December 1996.

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, August 24, 1998.

Comments: **JFJ Landfarm 2'-3' Below Grade.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 13 G	Date Reported:	09-14-05
Laboratory Number:	34295	Date Sampled:	09-12-05
Chain of Custody:	14510	Date Received:	09-13-05
Sample Matrix:	Soil	Date Analyzed:	09-14-05
Preservative:	Cool	Date Digested:	09-13-05
Condition:	Cool & Intact	Analysis Needed:	8 RCRA Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Arsenic	**0.061**	**0.001**	**5.0**
Barium	**3.25**	**0.001**	**100**
Cadmium	**0.006**	**0.001**	**1.0**
Chromium	**0.586**	**0.001**	**5.0**
Lead	**0.209**	**0.001**	**5.0**
Mercury	**ND**	**0.001**	**0.2**
Selenium	**0.577**	**0.001**	**1.0**
Silver	**ND**	**0.001**	**5.0**

ND - Parameter not detected at the stated detection limit.

References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils. SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision Spectroscopy, SW-846, USEPA, December 1996.

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, August 24, 1998.

Comments: **JFJ Landfarm 2'-3' Below Grade.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS
Quality Control / Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	09-14 TM QA/AC	Date Reported:	09-14-05
Laboratory Number:	34287	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	Total RCRA Metals	Date Analyzed:	09-14-05
Condition:	N/A	Date Digested:	09-13-05

Blank & Duplicate Conc. (mg/Kg)	Instrument Blank (mg/L)	Method Blank	Detection Limit	Sample	Duplicate	% Diff.	Acceptance Range
Arsenic	**ND**	**ND**	**0.001**	**0.076**	**0.078**	**2.6%**	**0% - 30%**
Barium	**ND**	**ND**	**0.001**	**2.25**	**2.29**	**1.8%**	**0% - 30%**
Cadmium	**ND**	**ND**	**0.001**	**0.004**	**0.004**	**0.0%**	**0% - 30%**
Chromium	**ND**	**ND**	**0.001**	**0.346**	**0.346**	**0.0%**	**0% - 30%**
Lead	**ND**	**ND**	**0.001**	**0.202**	**0.200**	**1.0%**	**0% - 30%**
Mercury	**ND**	**ND**	**0.001**	**ND**	**ND**	**0.0%**	**0% - 30%**
Selenium	**ND**	**ND**	**0.001**	**0.466**	**0.470**	**0.9%**	**0% - 30%**
Silver	**ND**	**ND**	**0.001**	**ND**	**ND**	**0.0%**	**0% - 30%**

Spike Conc. (mg/Kg)	Spike Added	Sample	Spiked Sample	Percent Recovery	Acceptance Range
Arsenic	**0.500**	**0.076**	**0.575**	**99.8%**	**80% - 120%**
Barium	**0.500**	**2.25**	**2.74**	**99.6%**	**80% - 120%**
Cadmium	**0.500**	**0.004**	**0.503**	**99.8%**	**80% - 120%**
Chromium	**0.500**	**0.346**	**0.846**	**100.0%**	**80% - 120%**
Lead	**0.500**	**0.202**	**0.701**	**99.9%**	**80% - 120%**
Mercury	**0.500**	**ND**	**0.499**	**99.8%**	**80% - 120%**
Selenium	**0.500**	**0.466**	**0.965**	**99.9%**	**80% - 120%**
Silver	**0.500**	**ND**	**0.499**	**99.8%**	**80% - 120%**

ND - Parameter not detected at the stated detection limit.

References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils. SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision Spectorscopy, SW-846, USEPA, December 1996.

Comments: **QA/QC for samples 34287 - 34295.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 2 E	Date Reported:	09-15-05
Laboratory Number:	34287	Date Sampled:	09-12-05
Chain of Custody:	14510	Date Received:	09-13-05
Sample Matrix:	Soil Extract	Date Extracted:	09-13-05
Preservative:	Cool	Date Analyzed:	09-14-05
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		
pH	**8.07**	s.u.		
Conductivity @ 25° C	**255**	umhos/cm		
Total Dissolved Solids @ 180C	**160**	mg/L		
Total Dissolved Solids (Calc)	**162**	mg/L		
SAR	**8.0**	ratio		
Total Alkalinity as CaCO3	**19.6**	mg/L		
Total Hardness as CaCO3	**9.6**	mg/L		
Bicarbonate as HCO3	**19.6**	mg/L	0.32	meq/L
Carbonate as CO3	**<0.1**	mg/L	0.00	meq/L
Hydroxide as OH	**<0.1**	mg/L	0.00	meq/L
Nitrate Nitrogen	**0.1**	mg/L	0.00	meq/L
Nitrite Nitrogen	**0.001**	mg/L	0.00	meq/L
Chloride	**58.0**	mg/L	1.64	meq/L
Fluoride	**0.77**	mg/L	0.04	meq/L
Phosphate	**0.5**	mg/L	0.02	meq/L
Sulfate	**30.7**	mg/L	0.64	meq/L
Iron	**<0.001**	mg/L	0.00	meq/L
Calcium	**3.84**	mg/L	0.19	meq/L
Magnesium	**<0.01**	mg/L	0.00	meq/L
Potassium	**<0.01**	mg/L	0.00	meq/L
Sodium	**56.6**	mg/L	2.46	meq/L
Cations			2.65	meq/L
Anions			2.65	meq/L
Cation/Anion Difference			**0.03%**	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **JFJ Landfarm 2'-3' Below Grade.**

Christine M Walters
Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 3 C	Date Reported:	09-15-05
Laboratory Number:	34288	Date Sampled:	09-12-05
Chain of Custody:	14510	Date Received:	09-13-05
Sample Matrix:	Soil Extract	Date Extracted:	09-13-05
Preservative:	Cool	Date Analyzed:	09-14-05
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		
pH	**7.50**	s.u.		
Conductivity @ 25° C	**1,140**	umhos/cm		
Total Dissolved Solids @ 180C	**732**	mg/L		
Total Dissolved Solids (Calc)	**727**	mg/L		
SAR	**6.3**	ratio		
Total Alkalinity as CaCO3	**20.0**	mg/L		
Total Hardness as CaCO3	**173**	mg/L		
Bicarbonate as HCO3	**20.0**	mg/L	0.33	meq/L
Carbonate as CO3	**<0.1**	mg/L	0.00	meq/L
Hydroxide as OH	**<0.1**	mg/L	0.00	meq/L
Nitrate Nitrogen	**0.7**	mg/L	0.01	meq/L
Nitrite Nitrogen	**0.002**	mg/L	0.00	meq/L
Chloride	**230**	mg/L	6.49	meq/L
Fluoride	**0.95**	mg/L	0.05	meq/L
Phosphate	**<0.1**	mg/L	0.00	meq/L
Sulfate	**236**	mg/L	4.91	meq/L
Iron	**<0.001**	mg/L	0.00	meq/L
Calcium	**35.5**	mg/L	1.77	meq/L
Magnesium	**20.6**	mg/L	1.70	meq/L
Potassium	**<0.01**	mg/L	0.00	meq/L
Sodium	**191**	mg/L	8.31	meq/L
Cations			11.78	meq/L
Anions			11.79	meq/L
Cation/Anion Difference			**0.13%**	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **JFJ Landfarm 2'-3' Below Grade.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 4 H	Date Reported:	09-15-05
Laboratory Number:	34289	Date Sampled:	09-12-05
Chain of Custody:	14510	Date Received:	09-13-05
Sample Matrix:	Soil Extract	Date Extracted:	09-13-05
Preservative:	Cool	Date Analyzed:	09-14-05
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		
pH	**7.52**	s.u.		
Conductivity @ 25° C	**287**	umhos/cm		
Total Dissolved Solids @ 180C	**186**	mg/L		
Total Dissolved Solids (Calc)	**191**	mg/L		
SAR	**5.9**	ratio		
Total Alkalinity as CaCO3	**20.0**	mg/L		
Total Hardness as CaCO3	**20.4**	mg/L		
Bicarbonate as HCO3	**20.0**	mg/L	0.33	meq/L
Carbonate as CO3	**<0.1**	mg/L	0.00	meq/L
Hydroxide as OH	**<0.1**	mg/L	0.00	meq/L
Nitrate Nitrogen	**0.3**	mg/L	0.00	meq/L
Nitrite Nitrogen	**0.009**	mg/L	0.00	meq/L
Chloride	**58.8**	mg/L	1.66	meq/L
Fluoride	**0.61**	mg/L	0.03	meq/L
Phosphate	**0.7**	mg/L	0.02	meq/L
Sulfate	**49.1**	mg/L	1.02	meq/L
Iron	**<0.001**	mg/L	0.00	meq/L
Calcium	**8.16**	mg/L	0.41	meq/L
Magnesium	**<0.01**	mg/L	0.00	meq/L
Potassium	**<0.01**	mg/L	0.00	meq/L
Sodium	**61.2**	mg/L	2.66	meq/L
Cations			3.07	meq/L
Anions			3.07	meq/L
Cation/Anion Difference			**0.04%**	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **JFJ Landfarm 2'-3' Below Grade.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 7 E	Date Reported:	09-15-05
Laboratory Number:	34290	Date Sampled:	09-12-05
Chain of Custody:	14510	Date Received:	09-13-05
Sample Matrix:	Soil Extract	Date Extracted:	09-13-05
Preservative:	Cool	Date Analyzed:	09-14-05
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		
pH	**7.29**	s.u.		
Conductivity @ 25° C	**244**	umhos/cm		
Total Dissolved Solids @ 180C	**160**	mg/L		
Total Dissolved Solids (Calc)	**156**	mg/L		
SAR	**4.6**	ratio		
Total Alkalinity as CaCO3	**15.4**	mg/L		
Total Hardness as CaCO3	**19.2**	mg/L		
Bicarbonate as HCO3	**15.4**	mg/L	0.25	meq/L
Carbonate as CO3	**<0.1**	mg/L	0.00	meq/L
Hydroxide as OH	**<0.1**	mg/L	0.00	meq/L
Nitrate Nitrogen	**0.1**	mg/L	0.00	meq/L
Nitrite Nitrogen	**<0.001**	mg/L	0.00	meq/L
Chloride	**25.6**	mg/L	0.72	meq/L
Fluoride	**0.89**	mg/L	0.05	meq/L
Phosphate	**0.6**	mg/L	0.02	meq/L
Sulfate	**65.0**	mg/L	1.35	meq/L
Iron	**<0.001**	mg/L	0.00	meq/L
Calcium	**7.68**	mg/L	0.38	meq/L
Magnesium	**<0.01**	mg/L	0.00	meq/L
Potassium	**<0.01**	mg/L	0.00	meq/L
Sodium	**46.3**	mg/L	2.01	meq/L
Cations			2.40	meq/L
Anions			2.40	meq/L
Cation/Anion Difference			**0.08%**	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **JFJ Landfarm 2'-3' Below Grade.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 8 G	Date Reported:	09-15-05
Laboratory Number:	34291	Date Sampled:	09-12-05
Chain of Custody:	14510	Date Received:	09-13-05
Sample Matrix:	Soil Extract	Date Extracted:	09-13-05
Preservative:	Cool	Date Analyzed:	09-14-05
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		
pH	**7.37**	s.u.		
Conductivity @ 25° C	**234**	umhos/cm		
Total Dissolved Solids @ 180C	**148**	mg/L		
Total Dissolved Solids (Calc)	**149**	mg/L		
SAR	**4.7**	ratio		
Total Alkalinity as CaCO3	**22.8**	mg/L		
Total Hardness as CaCO3	**17.8**	mg/L		
Bicarbonate as HCO3	**22.8**	mg/L	0.37	meq/L
Carbonate as CO3	**<0.1**	mg/L	0.00	meq/L
Hydroxide as OH	**<0.1**	mg/L	0.00	meq/L
Nitrate Nitrogen	**0.3**	mg/L	0.00	meq/L
Nitrite Nitrogen	**0.004**	mg/L	0.00	meq/L
Chloride	**30.8**	mg/L	0.87	meq/L
Fluoride	**0.89**	mg/L	0.05	meq/L
Phosphate	**1.1**	mg/L	0.03	meq/L
Sulfate	**48.9**	mg/L	1.02	meq/L
Iron	**0.003**	mg/L	0.00	meq/L
Calcium	**7.12**	mg/L	0.36	meq/L
Magnesium	**<0.01**	mg/L	0.00	meq/L
Potassium	**<0.01**	mg/L	0.00	meq/L
Sodium	**45.8**	mg/L	1.99	meq/L
Cations			2.35	meq/L
Anions			2.35	meq/L
Cation/Anion Difference			**0.02%**	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **JFJ Landfarm 2'-3' Below Grade.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 9 H	Date Reported:	09-15-05
Laboratory Number:	34292	Date Sampled:	09-12-05
Chain of Custody:	14510	Date Received:	09-13-05
Sample Matrix:	Soil Extract	Date Extracted:	09-13-05
Preservative:	Cool	Date Analyzed:	09-14-05
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		
pH	**6.92**	s.u.		
Conductivity @ 25° C	**358**	umhos/cm		
Total Dissolved Solids @ 180C	**226**	mg/L		
Total Dissolved Solids (Calc)	**228**	mg/L		
SAR	**8.5**	ratio		
Total Alkalinity as CaCO3	**14.8**	mg/L		
Total Hardness as CaCO3	**14.8**	mg/L		
Bicarbonate as HCO3	**14.8**	mg/L	0.24	meq/L
Carbonate as CO3	**<0.1**	mg/L	0.00	meq/L
Hydroxide as OH	**<0.1**	mg/L	0.00	meq/L
Nitrate Nitrogen	**0.5**	mg/L	0.01	meq/L
Nitrite Nitrogen	**0.027**	mg/L	0.00	meq/L
Chloride	**50.8**	mg/L	1.43	meq/L
Fluoride	**0.63**	mg/L	0.03	meq/L
Phosphate	**6.0**	mg/L	0.19	meq/L
Sulfate	**80.0**	mg/L	1.67	meq/L
Iron	**0.020**	mg/L	0.00	meq/L
Calcium	**5.92**	mg/L	0.30	meq/L
Magnesium	**<0.01**	mg/L	0.00	meq/L
Potassium	**<0.01**	mg/L	0.00	meq/L
Sodium	**75.3**	mg/L	3.28	meq/L
Cations			3.57	meq/L
Anions			3.57	meq/L
Cation/Anion Difference			**0.03%**	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **JFJ Landfarm 2'-3' Below Grade.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 11 E	Date Reported:	09-15-05
Laboratory Number:	34293	Date Sampled:	09-12-05
Chain of Custody:	14510	Date Received:	09-13-05
Sample Matrix:	Soil Extract	Date Extracted:	09-13-05
Preservative:	Cool	Date Analyzed:	09-14-05
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		
pH	**7.04**	s.u.		
Conductivity @ 25° C	**270**	umhos/cm		
Total Dissolved Solids @ 180C	**178**	mg/L		
Total Dissolved Solids (Calc)	**173**	mg/L		
SAR	**5.4**	ratio		
Total Alkalinity as CaCO3	**14.8**	mg/L		
Total Hardness as CaCO3	**18.8**	mg/L		
Bicarbonate as HCO3	**14.8**	mg/L	0.24	meq/L
Carbonate as CO3	**<0.1**	mg/L	0.00	meq/L
Hydroxide as OH	**<0.1**	mg/L	0.00	meq/L
Nitrate Nitrogen	**0.1**	mg/L	0.00	meq/L
Nitrite Nitrogen	**0.002**	mg/L	0.00	meq/L
Chloride	**40.0**	mg/L	1.13	meq/L
Fluoride	**0.73**	mg/L	0.04	meq/L
Phosphate	**0.7**	mg/L	0.02	meq/L
Sulfate	**61.0**	mg/L	1.27	meq/L
Iron	**<0.001**	mg/L	0.00	meq/L
Calcium	**7.52**	mg/L	0.38	meq/L
Magnesium	**<0.01**	mg/L	0.00	meq/L
Potassium	**0.21**	mg/L	0.01	meq/L
Sodium	**53.4**	mg/L	2.32	meq/L
Cations			2.70	meq/L
Anions			2.70	meq/L
Cation/Anion Difference			**0.01%**	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **JFJ Landfarm 2'-3' Below Grade.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 12 G	Date Reported:	09-15-05
Laboratory Number:	34294	Date Sampled:	09-12-05
Chain of Custody:	14510	Date Received:	09-13-05
Sample Matrix:	Soil Extract	Date Extracted:	09-13-05
Preservative:	Cool	Date Analyzed:	09-14-05
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		
pH	**6.92**	s.u.		
Conductivity @ 25° C	**184**	umhos/cm		
Total Dissolved Solids @ 180C	**118**	mg/L		
Total Dissolved Solids (Calc)	**117**	mg/L		
SAR	**2.2**	ratio		
Total Alkalinity as CaCO3	**14.4**	mg/L		
Total Hardness as CaCO3	**33.6**	mg/L		
Bicarbonate as HCO3	**14.4**	mg/L	0.24	meq/L
Carbonate as CO3	**<0.1**	mg/L	0.00	meq/L
Hydroxide as OH	**<0.1**	mg/L	0.00	meq/L
Nitrate Nitrogen	**0.3**	mg/L	0.00	meq/L
Nitrite Nitrogen	**0.001**	mg/L	0.00	meq/L
Chloride	**36.8**	mg/L	1.04	meq/L
Fluoride	**0.53**	mg/L	0.03	meq/L
Phosphate	**0.2**	mg/L	0.01	meq/L
Sulfate	**29.4**	mg/L	0.61	meq/L
Iron	**<0.001**	mg/L	0.00	meq/L
Calcium	**11.0**	mg/L	0.55	meq/L
Magnesium	**1.47**	mg/L	0.12	meq/L
Potassium	**<0.01**	mg/L	0.00	meq/L
Sodium	**28.9**	mg/L	1.26	meq/L
Cations			1.93	meq/L
Anions			1.93	meq/L
Cation/Anion Difference			**0.09%**	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **JFJ Landfarm 2'-3' Below Grade.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 13 G	Date Reported:	09-15-05
Laboratory Number:	34295	Date Sampled:	09-12-05
Chain of Custody:	14510	Date Received:	09-13-05
Sample Matrix:	Soil Extract	Date Extracted:	09-13-05
Preservative:	Cool	Date Analyzed:	09-14-05
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		
pH	**6.98**	s.u.		
Conductivity @ 25° C	**204**	umhos/cm		
Total Dissolved Solids @ 180C	**126**	mg/L		
Total Dissolved Solids (Calc)	**130**	mg/L		
SAR	**2.2**	ratio		
Total Alkalinity as CaCO3	**18.0**	mg/L		
Total Hardness as CaCO3	**37.8**	mg/L		
Bicarbonate as HCO3	**18.0**	mg/L	0.30	meq/L
Carbonate as CO3	**<0.1**	mg/L	0.00	meq/L
Hydroxide as OH	**<0.1**	mg/L	0.00	meq/L
Nitrate Nitrogen	**0.2**	mg/L	0.00	meq/L
Nitrite Nitrogen	**0.001**	mg/L	0.00	meq/L
Chloride	**38.4**	mg/L	1.08	meq/L
Fluoride	**0.43**	mg/L	0.02	meq/L
Phosphate	**<0.1**	mg/L	0.00	meq/L
Sulfate	**34.8**	mg/L	0.72	meq/L
Iron	**<0.001**	mg/L	0.00	meq/L
Calcium	**11.5**	mg/L	0.57	meq/L
Magnesium	**2.20**	mg/L	0.18	meq/L
Potassium	**<0.01**	mg/L	0.00	meq/L
Sodium	**31.6**	mg/L	1.37	meq/L
Cations			2.13	meq/L
Anions			2.13	meq/L
Cation/Anion Difference			**0.04%**	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **JFJ Landfarm 2'-3' Below Grade.**

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BLAGG ENGINEERING, INC.
P.O. Box 87, Bloomfield, New Mexico 87413
Phone: (505)632-1199 Fax: (505)632-3903

RECEIVED
JUN 16 2005
OIL CONSERVATION DIVISION

June 13, 2005

Mr. Ed Martin
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Re: JFJ Waste Management Facility: Permit NM-01-0010B
Quarterly Report on Treatment Zone Monitoring

Dear Mr. Martin:

On behalf of JFJ Landfarm L.L.C., Blagg Engineering, Inc. (BEI) is submitting quarterly treatment zone monitoring test results for the JFJ Waste Management Facility pursuant to Permit NM-01-0010B. This report is for sampling conducted on June 2, 2005.

Sampling protocol included collection of native soils at a depth between 2' - 3' below the treatment zone in each cell using a pickup mounted power auger. Samples were submitted for analytical testing that included total petroleum hydrocarbons (TPH) by U.S. EPA Method 8015B and volatile hydrocarbons (BTEX) by U.S. EPA Method 8021B.

With this quarterly monitoring samples were collect from active cell units 2b, 3b, 4a, 7c, 8f, 9b, 11d, 12f and 13h (Figure 1). There were no test results in excess of standards for either TPH or BTEX. Analytical reports are attached. The facility permit requires quarterly testing for TPH and BTEX, and annual testing for metals and cation/anions.

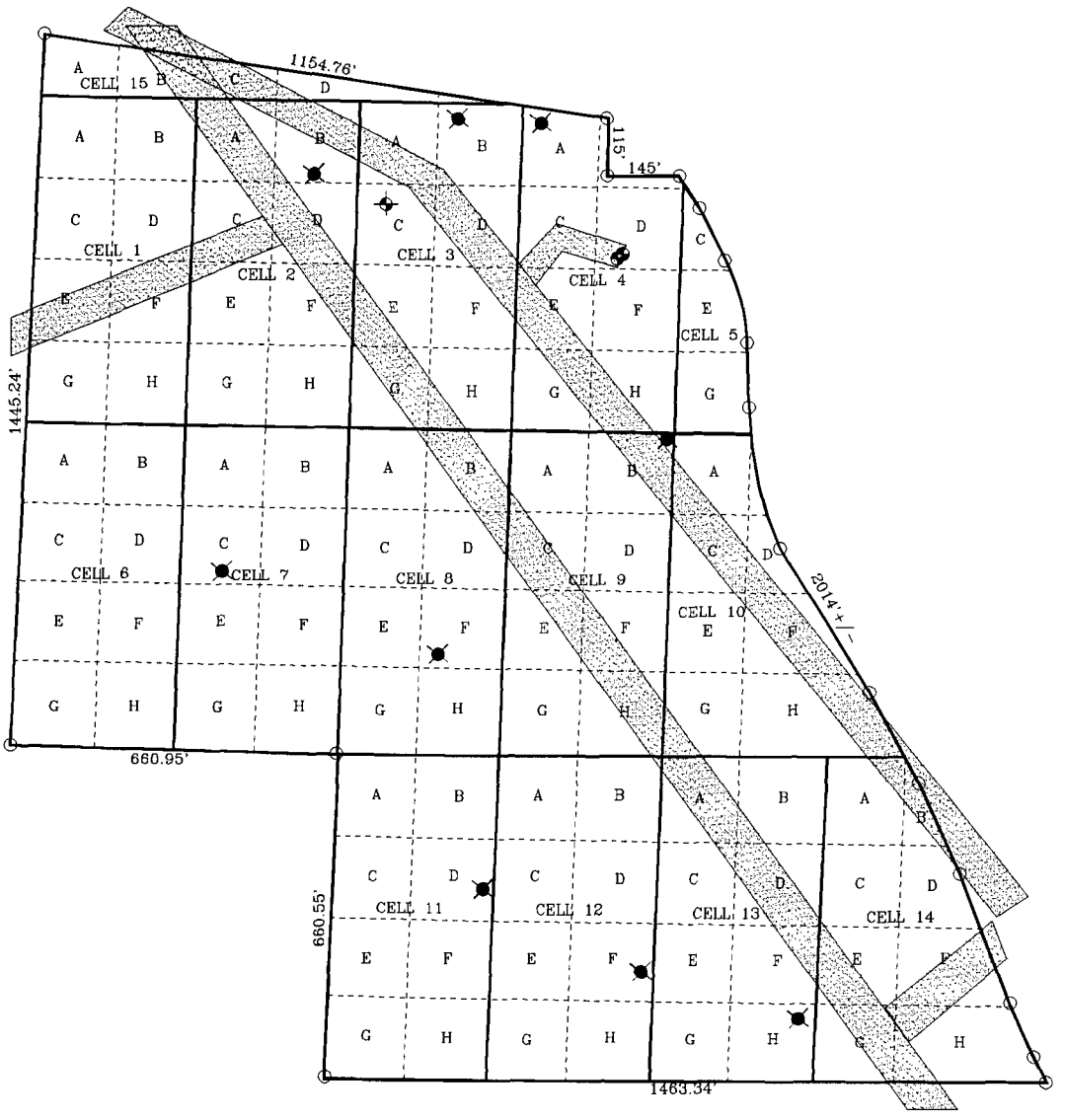
Questions or comments concerning this transmittal may be directed to myself at (505)632-1199 or to Jake Hatcher with JFJ Landfarm L.L.C. at (505)632-1786.

Respectfully submitted:
Blagg Engineering, Inc.

Jeffrey C. Blagg, P.E.
President

Attachments: Site Diagram
Analytical Test Reports

cc: Denny Foust, NMOCD Aztec District Office
Jake Hatcher, JFJ Farmington



JFJ LANDFARM FACILITY TREATMENT ZONE MONITORING			*BLAGG ENGINEERING, INC.*
DATE: 6/2005	FIGURE 1	BY: JCB	*P.O. BOX 87, BLOOMFIELD, NM* *PHONE: (505)632-1199*

CHAIN OF CUSTODY RECORD

14164

Client / Project Name	Project Location	ANALYSIS / PARAMETERS
BLAGG/IEI	JFJ LANDFARM	
Sampler: J. C. Blagg	Client No. 94034-010	

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TPH 8015	BTEX 8021					Remarks
CELL 2B	6/2/05	1030	33168	SOIL	1	X	X					2'
CELL 3B	"	1045	33169	"	1	X	X					2'-3'
CELL 4A	"	1105	33170	"	1	X	X					"
CELL 7C	"	1200	33171	"	1	X	X					"
CELL 8F	"	1155	33172	"	1	X	X					"
CELL 9B	"	1115	33173	"	1	X	X					"
CELL 11D	"	1145	33174	"	1	X	X					"
CELL 12F	"	1135	33175	"	1	X	X					"
CELL 13H	"	1125	33176	"	1	X	X					"

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
J. C. Blagg	6/2/05	1307	Glenn E. Spencer	6/2/05	1307
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

ENVIROTECH INC.

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Sample Receipt	Y	N	N/A
Received Intact	✓		
Cool - Ice/Blue Ice	✓		

san juan reproduction 578-129

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 2B	Date Reported:	06-07-05
Laboratory Number:	33168	Date Sampled:	06-02-05
Chain of Custody No:	14164	Date Received:	06-02-05
Sample Matrix:	Soil	Date Extracted:	06-02-05
Preservative:	Cool	Date Analyzed:	06-07-05
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2'.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 3B	Date Reported:	06-07-05
Laboratory Number:	33169	Date Sampled:	06-02-05
Chain of Custody No:	14164	Date Received:	06-02-05
Sample Matrix:	Soil	Date Extracted:	06-02-05
Preservative:	Cool	Date Analyzed:	06-07-05
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2' - 3'.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 4A	Date Reported:	06-07-05
Laboratory Number:	33170	Date Sampled:	06-02-05
Chain of Custody No:	14164	Date Received:	06-02-05
Sample Matrix:	Soil	Date Extracted:	06-02-05
Preservative:	Cool	Date Analyzed:	06-07-05
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2' - 3'.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 7C	Date Reported:	06-07-05
Laboratory Number:	33171	Date Sampled:	06-02-05
Chain of Custody No:	14164	Date Received:	06-02-05
Sample Matrix:	Soil	Date Extracted:	06-02-05
Preservative:	Cool	Date Analyzed:	06-07-05
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**4.9**	**0.1**
Total Petroleum Hydrocarbons	**4.9**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2' - 3'.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 8F	Date Reported:	06-07-05
Laboratory Number:	33172	Date Sampled:	06-02-05
Chain of Custody No:	14164	Date Received:	06-02-05
Sample Matrix:	Soil	Date Extracted:	06-02-05
Preservative:	Cool	Date Analyzed:	06-07-05
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**0.8**	**0.1**
Total Petroleum Hydrocarbons	**0.8**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2' - 3'.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 9B	Date Reported:	06-07-05
Laboratory Number:	33173	Date Sampled:	06-02-05
Chain of Custody No:	14164	Date Received:	06-02-05
Sample Matrix:	Soil	Date Extracted:	06-02-05
Preservative:	Cool	Date Analyzed:	06-07-05
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2' - 3'.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 11D	Date Reported:	06-07-05
Laboratory Number:	33174	Date Sampled:	06-02-05
Chain of Custody No:	14164	Date Received:	06-02-05
Sample Matrix:	Soil	Date Extracted:	06-02-05
Preservative:	Cool	Date Analyzed:	06-07-05
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**0.4**	**0.1**
Total Petroleum Hydrocarbons	**0.4**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2' - 3'.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 12F	Date Reported:	06-07-05
Laboratory Number:	33175	Date Sampled:	06-02-05
Chain of Custody No:	14164	Date Received:	06-02-05
Sample Matrix:	Soil	Date Extracted:	06-02-05
Preservative:	Cool	Date Analyzed:	06-07-05
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2' - 3'.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 13H	Date Reported:	06-07-05
Laboratory Number:	33176	Date Sampled:	06-02-05
Chain of Custody No:	14164	Date Received:	06-02-05
Sample Matrix:	Soil	Date Extracted:	06-02-05
Preservative:	Cool	Date Analyzed:	06-07-05
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**0.4**	**0.1**
Total Petroleum Hydrocarbons	**0.4**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2' - 3'.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8015 Modified

Nonhalogenated Volatile Organics

Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	06-07-05 QA/QC	Date Reported:	06-07-05
Laboratory Number:	33167	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	06-07-05
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
Gasoline Range C5 - C10	02-04-05	9.9929E+002	1.0003E+003	**0.10%**	**0 - 15%**
Diesel Range C10 - C28	02-04-05	9.9872E+002	1.0007E+003	**0.20%**	**0 - 15%**

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	**ND**	**0.2**
Diesel Range C10 - C28	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	**ND**	**ND**	**0.0%**	**0 - 30%**
Diesel Range C10 - C28	**31.7**	**32.3**	**1.9%**	**0 - 30%**

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	**ND**	**250**	**250**	**100.0%**	**75 - 125%**
Diesel Range C10 - C28	**31.7**	**250**	**281**	**99.8%**	**75 - 125%**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **QA/QC for Samples 33167 - 33176.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 2B	Date Reported:	06-07-05
Laboratory Number:	33168	Date Sampled:	06-02-05
Chain of Custody:	14164	Date Received:	06-02-05
Sample Matrix:	Soil	Date Analyzed:	06-07-05
Preservative:	Cool	Date Extracted:	06-02-05
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**2.1**
Toluene	**8.6**	**1.8**
Ethylbenzene	**ND**	**1.7**
p,m-Xylene	**29.5**	**1.5**
o-Xylene	**2.9**	**2.2**
Total BTEX	**41.0**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**97.0 %**
	1,4-difluorobenzene	**97.0 %**
	Bromochlorobenzene	**97.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2'.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 3B	Date Reported:	06-07-05
Laboratory Number:	33169	Date Sampled:	06-02-05
Chain of Custody:	14164	Date Received:	06-02-05
Sample Matrix:	Soil	Date Analyzed:	06-07-05
Preservative:	Cool	Date Extracted:	06-02-05
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**2.1**
Toluene	**6.2**	**1.8**
Ethylbenzene	**ND**	**1.7**
p,m-Xylene	**14.3**	**1.5**
o-Xylene	**3.1**	**2.2**
Total BTEX	**23.6**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**97.0 %**
	1,4-difluorobenzene	**97.0 %**
	Bromochlorobenzene	**97.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2' - 3'**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 4A	Date Reported:	06-07-05
Laboratory Number:	33170	Date Sampled:	06-02-05
Chain of Custody:	14164	Date Received:	06-02-05
Sample Matrix:	Soil	Date Analyzed:	06-07-05
Preservative:	Cool	Date Extracted:	06-02-05
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**2.1**
Toluene	**4.4**	**1.8**
Ethylbenzene	**ND**	**1.7**
p,m-Xylene	**14.1**	**1.5**
o-Xylene	**2.6**	**2.2**
Total BTEX	**21.1**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**98.0 %**
	1,4-difluorobenzene	**98.0 %**
	Bromochlorobenzene	**98.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2' - 3'**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 7C	Date Reported:	06-07-05
Laboratory Number:	33171	Date Sampled:	06-02-05
Chain of Custody:	14164	Date Received:	06-02-05
Sample Matrix:	Soil	Date Analyzed:	06-07-05
Preservative:	Cool	Date Extracted:	06-02-05
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**2.1**
Toluene	**5.0**	**1.8**
Ethylbenzene	**ND**	**1.7**
p,m-Xylene	**25.9**	**1.5**
o-Xylene	**2.9**	**2.2**
Total BTEX	**33.8**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**97.0 %**
	1,4-difluorobenzene	**97.0 %**
	Bromochlorobenzene	**97.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2' - 3'**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 8F	Date Reported:	06-07-05
Laboratory Number:	33172	Date Sampled:	06-02-05
Chain of Custody:	14164	Date Received:	06-02-05
Sample Matrix:	Soil	Date Analyzed:	06-07-05
Preservative:	Cool	Date Extracted:	06-02-05
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**2.1**
Toluene	**3.5**	**1.8**
Ethylbenzene	**ND**	**1.7**
p,m-Xylene	**6.7**	**1.5**
o-Xylene	**ND**	**2.2**
Total BTEX	**10.2**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**99.0 %**
	1,4-difluorobenzene	**99.0 %**
	Bromochlorobenzene	**99.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2' - 3'**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 9B	Date Reported:	06-07-05
Laboratory Number:	33173	Date Sampled:	06-02-05
Chain of Custody:	14164	Date Received:	06-02-05
Sample Matrix:	Soil	Date Analyzed:	06-07-05
Preservative:	Cool	Date Extracted:	06-02-05
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**2.1**
Toluene	**6.0**	**1.8**
Ethylbenzene	**ND**	**1.7**
p,m-Xylene	**61.7**	**1.5**
o-Xylene	**6.9**	**2.2**
Total BTEX	**74.6**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**98.0 %**
	1,4-difluorobenzene	**98.0 %**
	Bromochlorobenzene	**98.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2' - 3'**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 11D	Date Reported:	06-07-05
Laboratory Number:	33174	Date Sampled:	06-02-05
Chain of Custody:	14164	Date Received:	06-02-05
Sample Matrix:	Soil	Date Analyzed:	06-07-05
Preservative:	Cool	Date Extracted:	06-02-05
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**2.1**
Toluene	**4.7**	**1.8**
Ethylbenzene	**ND**	**1.7**
p,m-Xylene	**28.0**	**1.5**
o-Xylene	**5.9**	**2.2**
Total BTEX	**38.6**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**98.0 %**
	1,4-difluorobenzene	**98.0 %**
	Bromochlorobenzene	**98.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2' - 3'**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 12F	Date Reported:	06-07-05
Laboratory Number:	33175	Date Sampled:	06-02-05
Chain of Custody:	14164	Date Received:	06-02-05
Sample Matrix:	Soil	Date Analyzed:	06-07-05
Preservative:	Cool	Date Extracted:	06-02-05
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**2.1**
Toluene	**9.7**	**1.8**
Ethylbenzene	**ND**	**1.7**
p,m-Xylene	**9.0**	**1.5**
o-Xylene	**ND**	**2.2**
Total BTEX	**18.7**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**99.0 %**
	1,4-difluorobenzene	**99.0 %**
	Bromochlorobenzene	**99.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2' - 3'**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 13H	Date Reported:	06-07-05
Laboratory Number:	33176	Date Sampled:	06-02-05
Chain of Custody:	14164	Date Received:	06-02-05
Sample Matrix:	Soil	Date Analyzed:	06-07-05
Preservative:	Cool	Date Extracted:	06-02-05
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**2.1**
Toluene	**7.0**	**1.8**
Ethylbenzene	**ND**	**1.7**
p,m-Xylene	**7.4**	**1.5**
o-Xylene	**ND**	**2.2**
Total BTEX	**14.4**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**97.0 %**
	1,4-difluorobenzene	**97.0 %**
	Bromochlorobenzene	**97.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2' - 3'**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	06-07-BTEX QA/QC	Date Reported:	06-07-05
Laboratory Number:	33168	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	06-07-05
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF:	C-Cal RF:	%Diff. Accept. Range 0 - 15%	Blank Conc	Detect. Limit
Benzene	2.6296E+007	2.6349E+007	0.2%	ND	0.2
Toluene	5.3412E+007	5.3519E+007	0.2%	ND	0.2
Ethylbenzene	4.1058E+007	4.1140E+007	0.2%	ND	0.2
p,m-Xylene	8.3435E+007	8.3603E+007	0.2%	ND	0.2
o-Xylene	4.2028E+007	4.2112E+007	0.2%	ND	0.2

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	ND	ND	0.0%	0 - 30%	2.0
Toluene	8.6	8.5	1.2%	0 - 30%	2.0
Ethylbenzene	ND	ND	0.0%	0 - 30%	2.0
p,m-Xylene	29.5	29.4	0.3%	0 - 30%	2.0
o-Xylene	2.9	2.8	3.4%	0 - 30%	2.0

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	50.0	49.9	99.8%	39 - 150
Toluene	8.6	50.0	58.5	99.8%	46 - 148
Ethylbenzene	ND	50.0	49.9	99.8%	32 - 160
p,m-Xylene	29.5	100	129	99.7%	46 - 148
o-Xylene	2.9	50.0	52.8	99.8%	46 - 148

ND - Parameter not detected at the stated detection limit.

References:

Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.
Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: **QA/QC for Samples 33168 - 33176, 33186.**

Analyst

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BLAGG ENGINEERING, INC.
P.O. Box 87, Bloomfield, New Mexico 87413
Phone: (505)632-1199 Fax: (505)632-3903

RECEIVED
MAR 07 2005
OIL CONSERVATION DIVISION
Per
RECEIVED
MAR 0 ~ 2005
Per

March 4, 2005

Mr. Ed Martin
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Re: JFJ Waste Management Facility: Permit NM-01-0010B
Quarterly Report on Treatment Zone Monitoring

Dear Mr. Martin:

On behalf of JFJ Landfarm L.L.C., Blagg Engineering, Inc. (BEI) is submitting quarterly treatment zone monitoring test results for the JFJ Waste Management Facility pursuant to Permit NM-01-0010B. This report is for sampling conducted on February 22, 2005.

Sampling protocol included collection of native soils at a depth between 2' - 3' below the treatment zone in each cell using a pickup mounted power auger. Samples were submitted for analytical testing that included total petroleum hydrocarbons (TPH) by U.S. EPA Method 8015B and volatile hydrocarbons (BTEX) by U.S. EPA Method 8021B.

With this quarterly monitoring samples were collect from active cell units 2f, 3e, 4f, 7f, 8g, 9d, 11a, 12a and 13b (Figure 1). There were no test results in excess of standards for either TPH or BTEX. Analytical reports are attached. The facility permit requires quarterly testing for TPH and BTEX, and annual testing for metals and cation/anions.

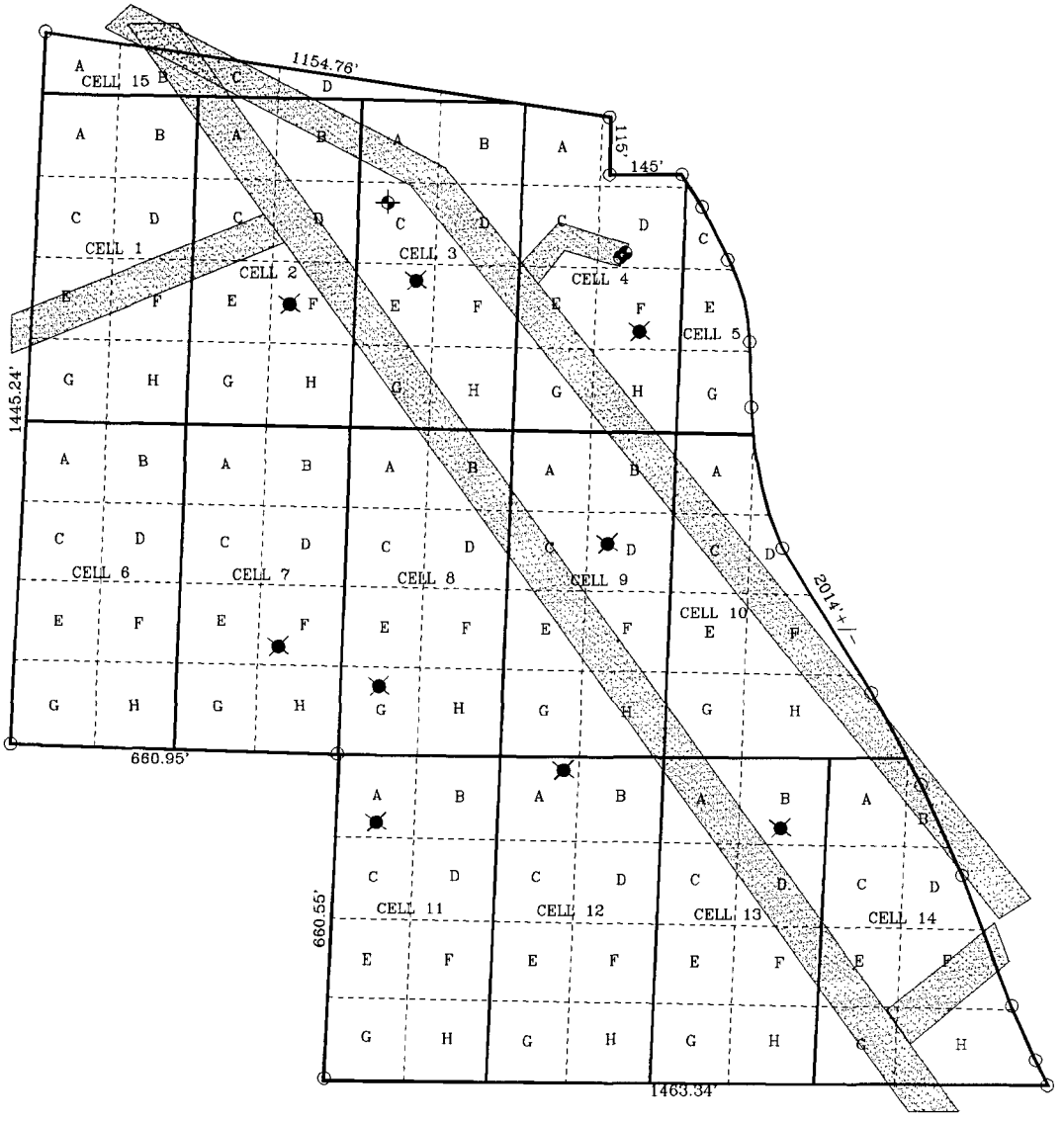
Questions or comments concerning this transmittal may be directed to myself at (505)632-1199 or to Jake Hatcher with JFJ Landfarm L.L.C. at (505)632-1786.

Respectfully submitted:
Blagg Engineering, Inc.

Jeffrey C. Blagg, P.E.
President

Attachments: Site Diagram
Analytical Test Reports

cc: Denny Foust, NMOCD Aztec District Office
Jake Hatcher, JFJ Farmington



JFJ LANDFARM FACILITY TREATMENT ZONE MONITORING			*BLAGG ENGINEERING, INC.*
DATE: 2/2005	FIGURE 1	BY: JCB	*P.O. BOX 87, BLOOMFIELD, NM* *PHONE: (505)632-1199*

CHAIN OF CUSTODY RECORD

13612

Client / Project Name	Project Location	ANALYSIS / PARAMETERS
BLAGG/JFJ	JFJ LANDFARM	
Sampler: J. C. Blagg	Client No. 94024-010	

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TPH 8015	BTEX 8021					Remarks
CELL 2F	2/22/05	0915	32201	SOIL	1	X	X					2'-3'
CELL 3E	"	0900	32202	"	1	X	X					"
CELL 4F	"	0850	32203	"	1	X	X					"
CELL 7F	"	0925	32204	"	1	X	X					"
CELL 8G	"	0945	32205	"	1	X	X					"
CELL 9D	"	1035	32206	"	1	X	X					"
CELL 11A	"	1000	32207	"	1	X	X					"
CELL 12A	"	1010	32208	"	1	X	X					"
CELL 13B	"	1025	32209	"	1	X	X					"

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
J. C. Blagg	2/22/05	1330	M Boshardt	2/22/05	1330
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

ENVIROTECH INC.

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Farmington, New Mexico 87401
(505) 632-0615

Sample Receipt	Y	N	N/A
Received Intact	✓		
Cool - Ice/Blue Ice	✓		

san juan reproduction 578-129

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 2F	Date Reported:	02-23-05
Laboratory Number:	32201	Date Sampled:	02-22-05
Chain of Custody No:	13612	Date Received:	02-22-05
Sample Matrix:	Soil	Date Extracted:	02-22-05
Preservative:	Cool	Date Analyzed:	02-23-05
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2' - 3'.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 3E	Date Reported:	02-23-05
Laboratory Number:	32202	Date Sampled:	02-22-05
Chain of Custody No:	13612	Date Received:	02-22-05
Sample Matrix:	Soil	Date Extracted:	02-22-05
Preservative:	Cool	Date Analyzed:	02-23-05
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2' - 3'.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 4F	Date Reported:	02-23-05
Laboratory Number:	32203	Date Sampled:	02-22-05
Chain of Custody No:	13612	Date Received:	02-22-05
Sample Matrix:	Soil	Date Extracted:	02-22-05
Preservative:	Cool	Date Analyzed:	02-23-05
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2' - 3'.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 7F	Date Reported:	02-23-05
Laboratory Number:	32204	Date Sampled:	02-22-05
Chain of Custody No:	13612	Date Received:	02-22-05
Sample Matrix:	Soil	Date Extracted:	02-22-05
Preservative:	Cool	Date Analyzed:	02-23-05
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	0.2
Diesel Range (C10 - C28)	**ND**	0.1
Total Petroleum Hydrocarbons	**ND**	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2' - 3'.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 8G	Date Reported:	02-23-05
Laboratory Number:	32205	Date Sampled:	02-22-05
Chain of Custody No:	13612	Date Received:	02-22-05
Sample Matrix:	Soil	Date Extracted:	02-22-05
Preservative:	Cool	Date Analyzed:	02-23-05
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2' - 3'.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 9D	Date Reported:	02-23-05
Laboratory Number:	32206	Date Sampled:	02-22-05
Chain of Custody No:	13612	Date Received:	02-22-05
Sample Matrix:	Soil	Date Extracted:	02-22-05
Preservative:	Cool	Date Analyzed:	02-23-05
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**0.3**	**0.1**
Total Petroleum Hydrocarbons	**0.3**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2' - 3'.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 11A	Date Reported:	02-23-05
Laboratory Number:	32207	Date Sampled:	02-22-05
Chain of Custody No:	13612	Date Received:	02-22-05
Sample Matrix:	Soil	Date Extracted:	02-22-05
Preservative:	Cool	Date Analyzed:	02-23-05
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**0.3**	**0.1**
Total Petroleum Hydrocarbons	**0.3**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2' - 3'.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 12A	Date Reported:	02-23-05
Laboratory Number:	32208	Date Sampled:	02-22-05
Chain of Custody No:	13612	Date Received:	02-22-05
Sample Matrix:	Soil	Date Extracted:	02-22-05
Preservative:	Cool	Date Analyzed:	02-23-05
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**0.1**	**0.1**
Total Petroleum Hydrocarbons	**0.1**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2' - 3'.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 13B	Date Reported:	02-23-05
Laboratory Number:	32209	Date Sampled:	02-22-05
Chain of Custody No:	13612	Date Received:	02-22-05
Sample Matrix:	Soil	Date Extracted:	02-22-05
Preservative:	Cool	Date Analyzed:	02-23-05
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**0.1**	**0.1**
Total Petroleum Hydrocarbons	**0.1**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2' - 3'.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	02-23-05 QA/QC	Date Reported:	02-23-05
Laboratory Number:	32201	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	02-23-05
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
Gasoline Range C5 - C10	02-04-05	9.2651E+002	9.2743E+002	0.10%	0 - 15%
Diesel Range C10 - C28	02-04-05	8.7324E+002	8.7499E+002	0.20%	0 - 15%

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	ND	0.2
Diesel Range C10 - C28	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	ND	ND	0.0%	0 - 30%
Diesel Range C10 - C28	ND	ND	0.0%	0 - 30%

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	ND	250	250	100.0%	75 - 125%
Diesel Range C10 - C28	ND	250	250	100.0%	75 - 125%

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **QA/QC for Samples 32201 - 32209.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 2F	Date Reported:	02-23-05
Laboratory Number:	32201	Date Sampled:	02-22-05
Chain of Custody:	13612	Date Received:	02-22-05
Sample Matrix:	Soil	Date Analyzed:	02-23-05
Preservative:	Cool	Date Extracted:	02-22-05
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**2.1**
Toluene	**9.2**	**1.8**
Ethylbenzene	**ND**	**1.7**
p,m-Xylene	**6.4**	**1.5**
o-Xylene	**ND**	**2.2**
Total BTEX	**15.6**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**97.0 %**
	1,4-difluorobenzene	**97.0 %**
	Bromochlorobenzene	**97.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2' - 3'.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 3E	Date Reported:	02-23-05
Laboratory Number:	32202	Date Sampled:	02-22-05
Chain of Custody:	13612	Date Received:	02-22-05
Sample Matrix:	Soil	Date Analyzed:	02-23-05
Preservative:	Cool	Date Extracted:	02-22-05
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**2.1**
Toluene	**20.5**	**1.8**
Ethylbenzene	**ND**	**1.7**
p,m-Xylene	**8.5**	**1.5**
o-Xylene	**ND**	**2.2**
Total BTEX	**29.0**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**97.0 %**
	1,4-difluorobenzene	**97.0 %**
	Bromochlorobenzene	**97.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2' - 3'.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 4F	Date Reported:	02-23-05
Laboratory Number:	32203	Date Sampled:	02-22-05
Chain of Custody:	13612	Date Received:	02-22-05
Sample Matrix:	Soil	Date Analyzed:	02-23-05
Preservative:	Cool	Date Extracted:	02-22-05
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**2.1**
Toluene	**ND**	**1.8**
Ethylbenzene	**ND**	**1.7**
p,m-Xylene	**ND**	**1.5**
o-Xylene	**ND**	**2.2**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**97.0 %**
	1,4-difluorobenzene	**97.0 %**
	Bromochlorobenzene	**97.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2' - 3'.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 7F	Date Reported:	02-23-05
Laboratory Number:	32204	Date Sampled:	02-22-05
Chain of Custody:	13612	Date Received:	02-22-05
Sample Matrix:	Soil	Date Analyzed:	02-23-05
Preservative:	Cool	Date Extracted:	02-22-05
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**2.1**
Toluene	**4.7**	**1.8**
Ethylbenzene	**ND**	**1.7**
p,m-Xylene	**5.1**	**1.5**
o-Xylene	**ND**	**2.2**
Total BTEX	**9.8**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**99.0 %**
	1,4-difluorobenzene	**99.0 %**
	Bromochlorobenzene	**99.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2' - 3'.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 8G	Date Reported:	02-23-05
Laboratory Number:	32205	Date Sampled:	02-22-05
Chain of Custody:	13612	Date Received:	02-22-05
Sample Matrix:	Soil	Date Analyzed:	02-23-05
Preservative:	Cool	Date Extracted:	02-22-05
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**2.1**
Toluene	**4.7**	**1.8**
Ethylbenzene	**ND**	**1.7**
p,m-Xylene	**ND**	**1.5**
o-Xylene	**ND**	**2.2**
Total BTEX	**4.7**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**99.0 %**
	1,4-difluorobenzene	**99.0 %**
	Bromochlorobenzene	**99.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2' - 3'.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 9D	Date Reported:	02-23-05
Laboratory Number:	32206	Date Sampled:	02-22-05
Chain of Custody:	13612	Date Received:	02-22-05
Sample Matrix:	Soil	Date Analyzed:	02-23-05
Preservative:	Cool	Date Extracted:	02-22-05
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**2.1**
Toluene	**ND**	**1.8**
Ethylbenzene	**ND**	**1.7**
p,m-Xylene	**ND**	**1.5**
o-Xylene	**ND**	**2.2**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**97.0 %**
	1,4-difluorobenzene	**97.0 %**
	Bromochlorobenzene	**97.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2' - 3'.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 11A	Date Reported:	02-23-05
Laboratory Number:	32207	Date Sampled:	02-22-05
Chain of Custody:	13612	Date Received:	02-22-05
Sample Matrix:	Soil	Date Analyzed:	02-23-05
Preservative:	Cool	Date Extracted:	02-22-05
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**6.0**	**2.1**
Toluene	**ND**	**1.8**
Ethylbenzene	**ND**	**1.7**
p,m-Xylene	**19.1**	**1.5**
o-Xylene	**ND**	**2.2**
Total BTEX	**25.1**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**97.0 %**
	1,4-difluorobenzene	**97.0 %**
	Bromochlorobenzene	**97.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2' - 3'.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 12A	Date Reported:	02-23-05
Laboratory Number:	32208	Date Sampled:	02-22-05
Chain of Custody:	13612	Date Received:	02-22-05
Sample Matrix:	Soil	Date Analyzed:	02-23-05
Preservative:	Cool	Date Extracted:	02-22-05
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**2.1**
Toluene	**ND**	**1.8**
Ethylbenzene	**ND**	**1.7**
p,m-Xylene	**ND**	**1.5**
o-Xylene	**ND**	**2.2**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**97.0 %**
	1,4-difluorobenzene	**97.0 %**
	Bromochlorobenzene	**97.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2' - 3'.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 13B	Date Reported:	02-23-05
Laboratory Number:	32209	Date Sampled:	02-22-05
Chain of Custody:	13612	Date Received:	02-22-05
Sample Matrix:	Soil	Date Analyzed:	02-23-05
Preservative:	Cool	Date Extracted:	02-22-05
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**2.1**
Toluene	**ND**	**1.8**
Ethylbenzene	**ND**	**1.7**
p,m-Xylene	**ND**	**1.5**
o-Xylene	**ND**	**2.2**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**98.0 %**
	1,4-difluorobenzene	**98.0 %**
	Bromochlorobenzene	**98.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2' - 3'.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	02-23-BTEX QA/QC	Date Reported:	02-23-05
Laboratory Number:	32201	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	02-23-05
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF:	C-Cal RF:	%Diff. Accept. Range 0 - 15%	Blank Conc	Detect. Limit
Benzene	6.4749E+006	6.4879E+006	0.2%	ND	0.2
Toluene	4.5864E+006	4.5956E+006	0.2%	ND	0.2
Ethylbenzene	3.0715E+006	3.0777E+006	0.2%	ND	0.2
p,m-Xylene	8.3050E+006	8.3217E+006	0.2%	ND	0.2
o-Xylene	3.3721E+006	3.3789E+006	0.2%	ND	0.1

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	ND	ND	0.0%	0 - 30%	1.8
Toluene	9.2	9.1	1.1%	0 - 30%	1.7
Ethylbenzene	ND	ND	0.0%	0 - 30%	1.5
p,m-Xylene	6.4	6.3	1.6%	0 - 30%	2.2
o-Xylene	ND	ND	0.0%	0 - 30%	1.0

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	50.0	49.9	99.8%	39 - 150
Toluene	9.2	50.0	59.1	99.8%	46 - 148
Ethylbenzene	ND	50.0	49.9	99.8%	32 - 160
p,m-Xylene	6.4	100	106	99.9%	46 - 148
o-Xylene	ND	50.0	49.9	99.8%	46 - 148

ND - Parameter not detected at the stated detection limit.

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.
Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: **QA/QC for Samples 32201 - 32209.**

Analyst

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BLAGG ENGINEERING, INC.
P.O. Box 87, Bloomfield, New Mexico 87413
Phone: (505)632-1199 Fax: (505)632-3903

RECEIVED
NOV 1 2004
OIL CONSERVATION DIVISION

November 11, 2004

Mr. Ed Martin
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

RECEIVED
NOV 15 2004
Per

Re: JFJ Waste Management Facility: Permit NM-01-0010B
Quarterly Report on Treatment Zone Monitoring

Dear Mr. Martin:

On behalf of JFJ Landfarm L.L.C., Blagg Engineering, Inc. (BEI) is submitting quarterly treatment zone monitoring test results for the JFJ Waste Management Facility pursuant to Permit NM-01-0010B. This report is for sampling conducted on November 5, 2004.

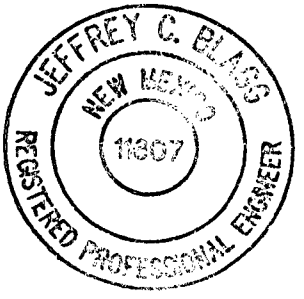
Sampling protocol included collection of native soils at various depths below the treatment zone in each cell using a pickup mounted power auger. Samples were submitted for analytical testing that included total petroleum hydrocarbons (TPH) by U.S. EPA Method 8015B and volatile hydrocarbons (BTEX) by U.S. EPA Method 8021B.

With this quarterly monitoring samples were collect from active cell units 2h, 3h, 4g, 7e, 8f, 9e, 11g, 12c and 13g (Figure 1). There were no test results in excess of standards for either TPH or BTEX. Analytical reports are attached. The facility permit requires quarterly testing for TPH and BTEX, and annual testing for metals and cation/anions.

Questions or comments concerning this transmittal may be directed to myself at (505)632-1199 or to Jake Hatcher with JFJ Landfarm L.L.C. at (505)632-1786.

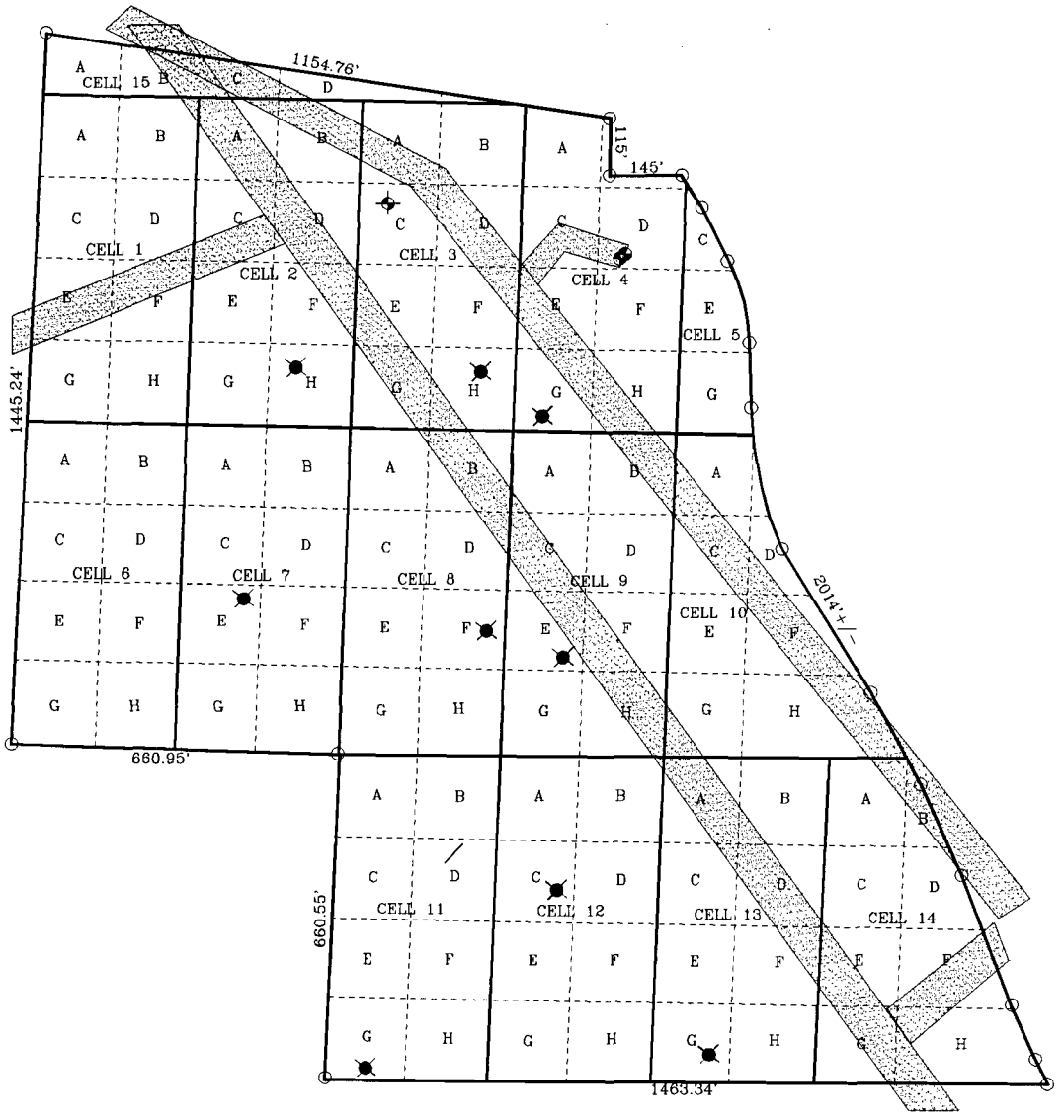
Respectfully submitted:
Blagg Engineering, Inc.

Jeffrey C. Blagg, P.E.
President



Attachments: Site Diagram
Analytical Test Reports

cc: Denny Foust, NMOCD Aztec District Office
Jake Hatcher, JFJ Farmington



LEGEND

- Treatment Zone Sample Location
- Active Gas Well
- PxA Gas Well
- Pipeline Right-of-Way

N

0 500 1000 Feet

JFJ LANDFARM FACILITY TREATMENT ZONE MONITORING			*BLAGG ENGINEERING, INC.*
DATE: 11/5/2004	FIGURE 1	BY: JCB	*P.O. BOX 87, BLOOMFIELD, NM* *PHONE: (505)632-1199*

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 2H	Date Reported:	11-10-04
Laboratory Number:	31161	Date Sampled:	11-05-04
Chain of Custody No:	13249	Date Received:	11-08-04
Sample Matrix:	Soil	Date Extracted:	11-08-04
Preservative:	Cool	Date Analyzed:	11-10-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2'-3' BG.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 3H	Date Reported:	11-10-04
Laboratory Number:	31162	Date Sampled:	11-05-04
Chain of Custody No:	13249	Date Received:	11-08-04
Sample Matrix:	Soil	Date Extracted:	11-08-04
Preservative:	Cool	Date Analyzed:	11-10-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2'-3' BG.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 4G	Date Reported:	11-10-04
Laboratory Number:	31163	Date Sampled:	11-05-04
Chain of Custody No:	13249	Date Received:	11-08-04
Sample Matrix:	Soil	Date Extracted:	11-08-04
Preservative:	Cool	Date Analyzed:	11-10-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2'-3' BG.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 7E	Date Reported:	11-10-04
Laboratory Number:	31164	Date Sampled:	11-05-04
Chain of Custody No:	13249	Date Received:	11-08-04
Sample Matrix:	Soil	Date Extracted:	11-08-04
Preservative:	Cool	Date Analyzed:	11-10-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2'-3' BG.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 8F	Date Reported:	11-10-04
Laboratory Number:	31165	Date Sampled:	11-05-04
Chain of Custody No:	13249	Date Received:	11-08-04
Sample Matrix:	Soil	Date Extracted:	11-08-04
Preservative:	Cool	Date Analyzed:	11-10-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2'-3' BG.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 9E	Date Reported:	11-10-04
Laboratory Number:	31166	Date Sampled:	11-05-04
Chain of Custody No:	13249	Date Received:	11-08-04
Sample Matrix:	Soil	Date Extracted:	11-08-04
Preservative:	Cool	Date Analyzed:	11-10-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2'-3' BG.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 11G	Date Reported:	11-10-04
Laboratory Number:	31167	Date Sampled:	11-05-04
Chain of Custody No:	13249	Date Received:	11-08-04
Sample Matrix:	Soil	Date Extracted:	11-08-04
Preservative:	Cool	Date Analyzed:	11-10-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2'-3' BG.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 12C	Date Reported:	11-10-04
Laboratory Number:	31168	Date Sampled:	11-05-04
Chain of Custody No:	13249	Date Received:	11-08-04
Sample Matrix:	Soil	Date Extracted:	11-08-04
Preservative:	Cool	Date Analyzed:	11-10-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2'-3' BG.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 13G	Date Reported:	11-10-04
Laboratory Number:	31169	Date Sampled:	11-05-04
Chain of Custody No:	13249	Date Received:	11-08-04
Sample Matrix:	Soil	Date Extracted:	11-08-04
Preservative:	Cool	Date Analyzed:	11-10-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2'-3' BG.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	11-10-TPH QA/QC	Date Reported:	11-10-04
Laboratory Number:	31161	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	11-10-04
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
Gasoline Range C5 - C10	02-19-04	1.8591E-002	1.8572E-002	0.10%	0 - 15%
Diesel Range C10 - C28	02-19-04	1.5507E-002	1.5492E-002	0.10%	0 - 15%

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	ND	0.2
Diesel Range C10 - C28	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	ND	ND	0.0%	0 - 30%
Diesel Range C10 - C28	ND	ND	0.0%	0 - 30%

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	ND	250	250	100.0%	75 - 125%
Diesel Range C10 - C28	ND	250	250	100.0%	75 - 125%

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **QA/QC for Samples 31161 - 31169.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 2H	Date Reported:	11-10-04
Laboratory Number:	31161	Date Sampled:	11-05-04
Chain of Custody:	13249	Date Received:	11-08-04
Sample Matrix:	Soil	Date Analyzed:	11-10-04
Preservative:	Cool	Date Extracted:	11-08-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**ND**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**99 %**
	1,4-difluorobenzene	**99 %**
	Bromochlorobenzene	**99 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ landfarm 2'-3' BG.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 3H	Date Reported:	11-10-04
Laboratory Number:	31162	Date Sampled:	11-05-04
Chain of Custody:	13249	Date Received:	11-08-04
Sample Matrix:	Soil	Date Analyzed:	11-10-04
Preservative:	Cool	Date Extracted:	11-08-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**ND**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**100 %**
	1,4-difluorobenzene	**100 %**
	Bromochlorobenzene	**100 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ landfarm 2'-3' BG.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 4G	Date Reported:	11-10-04
Laboratory Number:	31163	Date Sampled:	11-05-04
Chain of Custody:	13249	Date Received:	11-08-04
Sample Matrix:	Soil	Date Analyzed:	11-10-04
Preservative:	Cool	Date Extracted:	11-08-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**ND**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**100 %**
	1,4-difluorobenzene	**100 %**
	Bromochlorobenzene	**100 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ landfarm 2'-3' BG.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 7E	Date Reported:	11-10-04
Laboratory Number:	31164	Date Sampled:	11-05-04
Chain of Custody:	13249	Date Received:	11-08-04
Sample Matrix:	Soil	Date Analyzed:	11-10-04
Preservative:	Cool	Date Extracted:	11-08-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**ND**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**100 %**
	1,4-difluorobenzene	**100 %**
	Bromochlorobenzene	**100 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ landfarm 2'-3' BG.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 8F	Date Reported:	11-10-04
Laboratory Number:	31165	Date Sampled:	11-05-04
Chain of Custody:	13249	Date Received:	11-08-04
Sample Matrix:	Soil	Date Analyzed:	11-10-04
Preservative:	Cool	Date Extracted:	11-08-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**ND**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**100 %**
	1,4-difluorobenzene	**100 %**
	Bromochlorobenzene	**100 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ landfarm 2'-3' BG.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 9E	Date Reported:	11-10-04
Laboratory Number:	31166	Date Sampled:	11-05-04
Chain of Custody:	13249	Date Received:	11-08-04
Sample Matrix:	Soil	Date Analyzed:	11-10-04
Preservative:	Cool	Date Extracted:	11-08-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**ND**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**100 %**
	1,4-difluorobenzene	**100 %**
	Bromochlorobenzene	**100 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ landfarm 2'-3' BG.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 11G	Date Reported:	11-10-04
Laboratory Number:	31167	Date Sampled:	11-05-04
Chain of Custody:	13249	Date Received:	11-08-04
Sample Matrix:	Soil	Date Analyzed:	11-10-04
Preservative:	Cool	Date Extracted:	11-08-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**ND**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**100 %**
	1,4-difluorobenzene	**100 %**
	Bromochlorobenzene	**100 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ landfarm 2'-3' BG.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 12C	Date Reported:	11-10-04
Laboratory Number:	31168	Date Sampled:	11-05-04
Chain of Custody:	13249	Date Received:	11-08-04
Sample Matrix:	Soil	Date Analyzed:	11-10-04
Preservative:	Cool	Date Extracted:	11-08-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**ND**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**94 %**
	1,4-difluorobenzene	**94 %**
	Bromochlorobenzene	**94 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ landfarm 2'-3' BG.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 13G	Date Reported:	11-10-04
Laboratory Number:	31169	Date Sampled:	11-05-04
Chain of Custody:	13249	Date Received:	11-08-04
Sample Matrix:	Soil	Date Analyzed:	11-10-04
Preservative:	Cool	Date Extracted:	11-08-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**ND**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**94 %**
	1,4-difluorobenzene	**94 %**
	Bromochlorobenzene	**94 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ landfarm 2'-3' BG.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	11-10-BTEX QA/QC	Date Reported:	11-10-04
Laboratory Number:	31161	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	11-10-04
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF:	C-Cal RF:	%Diff. Accept. Range 0 - 15%	Blank Conc	Detect. Limit
Benzene	8.1713E-002	8.1959E-002	0.3%	ND	0.2
Toluene	5.5302E-002	5.5413E-002	0.2%	ND	0.2
Ethylbenzene	8.4042E-002	8.4295E-002	0.3%	ND	0.2
p,m-Xylene	7.6479E-002	7.6710E-002	0.3%	ND	0.2
o-Xylene	8.6529E-002	8.6703E-002	0.2%	ND	0.1

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	ND	ND	0.0%	0 - 30%	1.8
Toluene	ND	ND	0.0%	0 - 30%	1.7
Ethylbenzene	ND	ND	0.0%	0 - 30%	1.5
p,m-Xylene	ND	ND	0.0%	0 - 30%	2.2
o-Xylene	ND	ND	0.0%	0 - 30%	1.0

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	50.0	49.9	99.8%	39 - 150
Toluene	ND	50.0	50.0	100.0%	46 - 148
Ethylbenzene	ND	50.0	49.9	99.8%	32 - 160
p,m-Xylene	ND	100	99.8	99.8%	46 - 148
o-Xylene	ND	50.0	49.9	99.8%	46 - 148

ND - Parameter not detected at the stated detection limit.

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.
Method 8021B. Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: **QA/QC for Samples 31161 - 31169.**

Analyst

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CHAIN OF CUSTODY RECORD

13249

Client / Project Name	Project Location
BLAGG/IEI	JFJ LANDFARM
Sampler: J. C. Blagg	Client No. 94034-010

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TPH 8015	BTEX 8021	Remarks
CELL 2H	11-5-4	1630	31161	SOIL	1	X	X	2'-3' BG
CELL 3H	"	1615	31162	"	1	X	X	"
CELL 4G	"	1600	31163	"	1	X	X	"
CELL 7E	"	1030	31164	"	1	X	X	"
CELL 8F	"	1115	31165	"	1	X	X	"
CELL 9E	"	1545	31166	"	1	X	X	"
CELL 11G	"	1050	31167	"	1	X	X	"
CELL 12C	"	1040	31168	"	1	X	X	"
CELL 13G	"	1030	31169	"	1	X	X	"

ANALYSIS / PARAMETERS

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
J. C. Blagg	11/9/01	0642	Dawn E. Quinn	11-9-04	0642
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

ENVIROTECH INC.

5796 U.S. Highway 64
Farmington, New Mexico 87401
(505) 632-0615

Sample Receipt	Y	N	N/A
Received Intact	✓		
Cool - Ice/Blue Ice	—		

san juan reproduction 578-129

CHAIN OF CUSTODY RECORD

13249

Client / Project Name	Project Location	ANALYSIS / PARAMETERS
Blagg/IEI	JFJ Landfarm	
Sampler: J. C. Blagg	Client No. 94034-010	

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TPH 8015	BTEX 8021					Remarks
Cell 2H	11-5-04	1630	31161	Soil	1	X	X					2'-3' BG
Cell 3H	"	1615	31162	"	1	X	X					"
Cell 4G	"	1600	31163	"	1	X	X					"
Cell 7E	"	1030	31164	"	1	X	X					"
Cell 8F	"	1115	31165	"	1	X	X					"
Cell 9E	"	1545	31166	"	1	X	X					"
Cell 11G	"	1050	31167	"	1	X	X					"
Cell 12C	"	1040	31168	"	1	X	X					"
Cell 13G	"	1030	31169	"	1	X	X					"

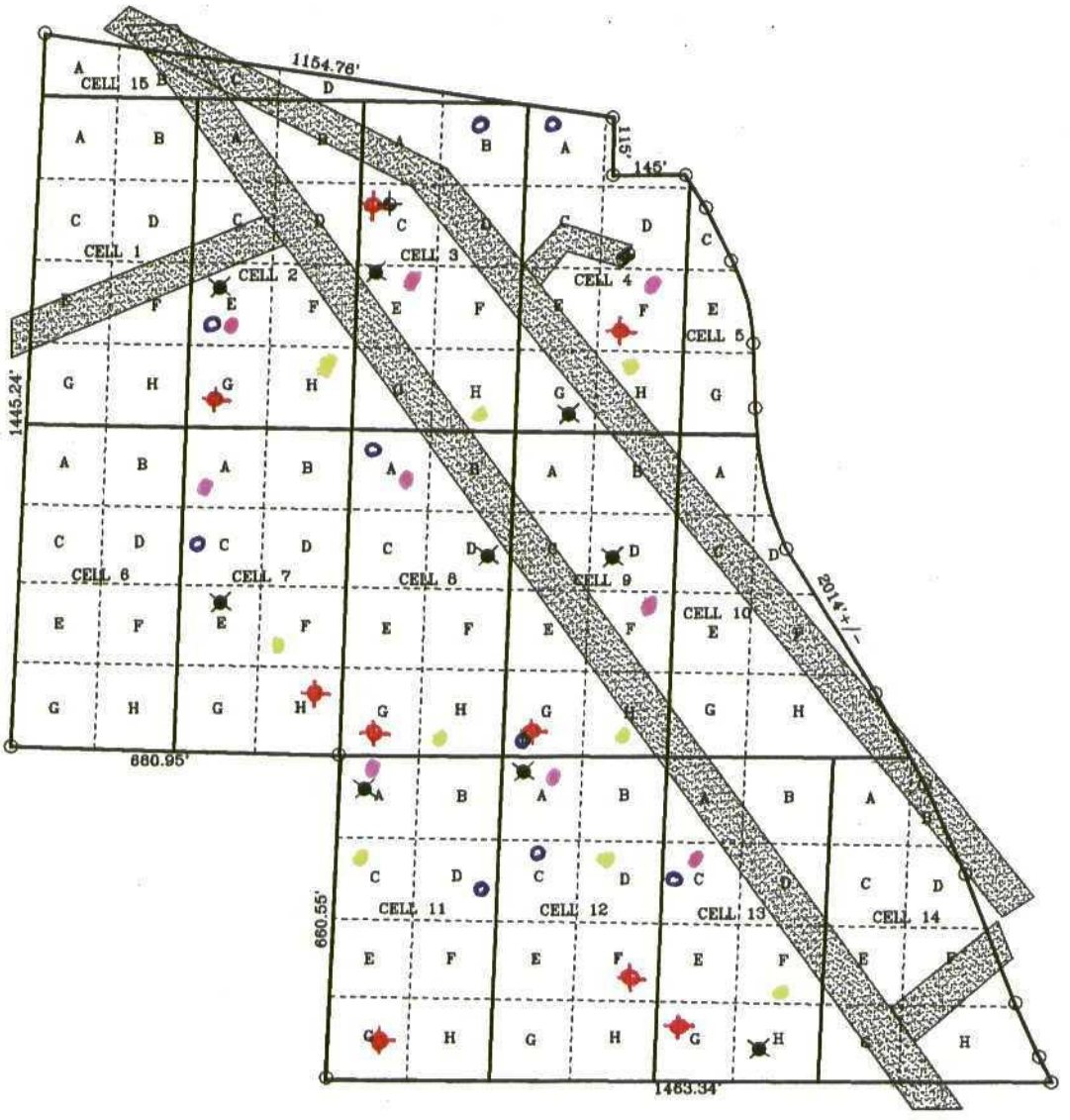
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
J. C. Blagg	11/9/04	0642	Jennifer E. Cyrier	11-9-04	0642
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

ENVIROTECH INC.

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Farmington, New Mexico 87401
(505) 632-0615

Sample Receipt	Y	N	N/A
Received Intact	✓		
Cool - Ice/Blue Ice	✓		

san juan reproduction 578-129



Date 12/2003
Date 4/2003
Date 1/2004
Date 4/2004

LEGEND

- Treatment Zone Sample Location
- Active Gas Well
- PxA Gas Well
- Pipeline Right-of-Way

N

0 500 1000 Feet

JFJ LANDFARM FACILITY TREATMENT ZONE MONITORING			BLAGG ENGINEERING, INC.
DATE: 10/2003	FIGURE 1	BY: JCB	P.O. BOX 87, BLOOMFIELD, NM PHONE: (505)632-1199

BLAGG ENGINEERING, INC.
P.O. Box 87, Bloomfield, New Mexico 87413
Phone: (505)632-1199 Fax: (505)632-3903

RECEIVED
SEP 10 2004
Oil Conservation Division
1220 S. St. Francis Drive
Santa Fe, NM 87505

September 10, 2004

Ms. Martyne J. Kieling
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Re: JFJ Waste Management Facility: Permit NM-01-0010B
Quarterly Report on Treatment Zone Monitoring

Dear Ms. Kieling:

On behalf of JFJ Landfarm L.L.C., Blagg Engineering, Inc. (BEI) is submitting quarterly treatment zone monitoring test results for the JFJ Waste Management Facility pursuant to Permit NM-01-0010B. This report is for sampling conducted on August 2, 2004.

Sampling protocol included collection of native soils at various depths below the treatment zone in each cell using a pickup mounted power auger. Following sample collection, test borings were backfilled with powdered bentonite mixed with drill cuttings. Samples were submitted for analytical testing that included total petroleum hydrocarbons (TPH) by U.S. EPA Method 8015B, BTEX by U.S. EPA Method 8021B, 8 RCRA metals and cations/anions.

With this quarterly monitoring samples were collect from the active cell units 2h, 3h, 4g, 7d, 8c, 9e, 11d, 12g and 13g (Figure 1). There were no test results in excess of standards for TPH, BTEX, metals or cations/anions. Analytical reports are attached. The facility permit requires quarterly testing for TPH and BTEX, and annual testing for metals and cation/anions.

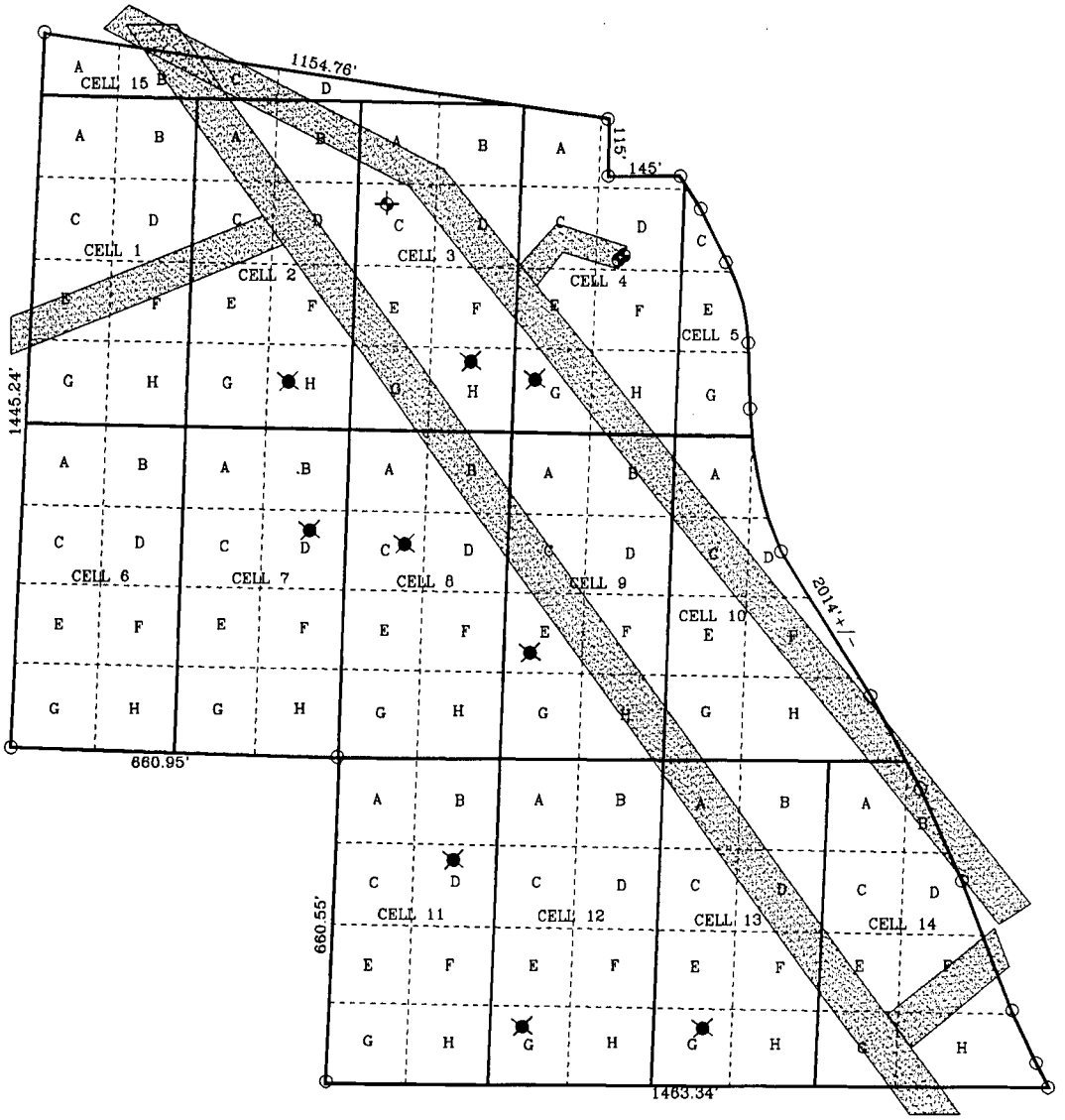
Questions or comments concerning this transmittal may be directed to Jeff Blagg of Blagg Engineering at (505)632-1199 or to Jake Hatcher with JFJ Landfarm L.L.C. at (505)632-1786.

Respectfully submitted:
Blagg Engineering, Inc.

Jeffrey C. Blagg, P.E.
President

Attachments: Site Diagram
Analytical Test Reports

cc: Denny Foust, NMOCD Aztec District Office
Jake Hatcher, JFJ Farmington



LEGEND

- Treatment Zone Sample Location
- Active Gas Well
- PxA Gas Well
- Pipeline Right-of-Way

N

0 500 1000 Feet

JFJ LANDFARM FACILITY TREATMENT ZONE MONITORING			*BLAGG ENGINEERING, INC.*
DATE: 8/2/2004	FIGURE 1	BY: JCB	*P.O. BOX 87, BLOOMFIELD, NM* *PHONE: (505)632-1199*

CHAIN OF CUSTODY RECORD

12650

Client / Project Name	Project Location
BLAGG/JFJ	JFJ LANDFARM
Sampler: J-C Blagg	Client No. 94034-010

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TPH 8015	BTEX 8021	8 RCRA METALS	CATIONS/ ANIONS			Remarks
CELL 2H	8-2-04	1215	29809	SOIL	2	X	X	X	X			2'-3' BG
CELL 3H	"	1200	29810	"	2	X	X	X	X			"
CELL 4G	"	1140	29811	"	2	X	X	X	X			1'-2' BG
CELL 7D	"	1100	29812	"	2	X	X	X	X			2'-3' BG
CELL 8C	"	1110	29813	"	2	X	X	X	X			2'-3' BG
CELL 9E	"	1125	29814	"	2	X	X	X	X			"
CELL 11D	"	1050	29815	"	2	X	X	X	X			"
CELL 12G	"	1040	29816	"	2	X	X	X	X			"
CELL 13G	"	1030	29817	"	2	X	X	X	X			"

ANALYSIS / PARAMETERS

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
J-C Blagg	8/2/04	1252	Christine M Walters	8/2/04	1252
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

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(505) 632-0615

Sample Receipt	Y	N	N/A
Received Intact	✓		
Cool - Ice/Blue Ice	✓		

san juan reproduction 578-129

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 2H	Date Reported:	08-03-04
Laboratory Number:	29809	Date Sampled:	08-02-04
Chain of Custody No:	12650	Date Received:	08-02-04
Sample Matrix:	Soil	Date Extracted:	08-02-04
Preservative:	Cool	Date Analyzed:	08-03-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2' - 3' BG.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 3H	Date Reported:	08-03-04
Laboratory Number:	29810	Date Sampled:	08-02-04
Chain of Custody No:	12650	Date Received:	08-02-04
Sample Matrix:	Soil	Date Extracted:	08-02-04
Preservative:	Cool	Date Analyzed:	08-03-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2' - 3' BG.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 4G	Date Reported:	08-03-04
Laboratory Number:	29811	Date Sampled:	08-02-04
Chain of Custody No:	12650	Date Received:	08-02-04
Sample Matrix:	Soil	Date Extracted:	08-02-04
Preservative:	Cool	Date Analyzed:	08-03-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 1' - 2' BG.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 7D	Date Reported:	08-03-04
Laboratory Number:	29812	Date Sampled:	08-02-04
Chain of Custody No:	12650	Date Received:	08-02-04
Sample Matrix:	Soil	Date Extracted:	08-02-04
Preservative:	Cool	Date Analyzed:	08-03-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2' - 3' BG.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 8C	Date Reported:	08-03-04
Laboratory Number:	29813	Date Sampled:	08-02-04
Chain of Custody No:	12650	Date Received:	08-02-04
Sample Matrix:	Soil	Date Extracted:	08-02-04
Preservative:	Cool	Date Analyzed:	08-03-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2' - 3' BG.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 9E	Date Reported:	08-03-04
Laboratory Number:	29814	Date Sampled:	08-02-04
Chain of Custody No:	12650	Date Received:	08-02-04
Sample Matrix:	Soil	Date Extracted:	08-02-04
Preservative:	Cool	Date Analyzed:	08-03-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2' - 3' BG.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 11D	Date Reported:	08-03-04
Laboratory Number:	29815	Date Sampled:	08-02-04
Chain of Custody No:	12650	Date Received:	08-02-04
Sample Matrix:	Soil	Date Extracted:	08-02-04
Preservative:	Cool	Date Analyzed:	08-03-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2' - 3' BG.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 12G	Date Reported:	08-03-04
Laboratory Number:	29816	Date Sampled:	08-02-04
Chain of Custody No:	12650	Date Received:	08-02-04
Sample Matrix:	Soil	Date Extracted:	08-02-04
Preservative:	Cool	Date Analyzed:	08-03-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2' - 3' BG.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 13G	Date Reported:	08-03-04
Laboratory Number:	29817	Date Sampled:	08-02-04
Chain of Custody No:	12650	Date Received:	08-02-04
Sample Matrix:	Soil	Date Extracted:	08-02-04
Preservative:	Cool	Date Analyzed:	08-03-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2' - 3' BG.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	08-03-TPH QA/QC	Date Reported:	08-03-04
Laboratory Number:	29809	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	08-03-04
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
Gasoline Range C5 - C10	02-19-04	1.8591E-002	1.8572E-002	**0.10%**	**0 - 15%**
Diesel Range C10 - C28	02-19-04	1.5507E-002	1.5492E-002	**0.10%**	**0 - 15%**

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	**ND**	**0.2**
Diesel Range C10 - C28	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	**ND**	**ND**	**0.0%**	**0 - 30%**
Diesel Range C10 - C28	**ND**	**ND**	**0.0%**	**0 - 30%**

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	**ND**	**250**	**250**	**100.0%**	**75 - 125%**
Diesel Range C10 - C28	**ND**	**250**	**250**	**100.0%**	**75 - 125%**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **QA/QC for samples 29809 - 29817.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 2H	Date Reported:	08-03-04
Laboratory Number:	29809	Date Sampled:	08-02-04
Chain of Custody:	12650	Date Received:	08-02-04
Sample Matrix:	Soil	Date Analyzed:	08-03-04
Preservative:	Cool	Date Extracted:	08-02-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**ND**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**95 %**
	1,4-difluorobenzene	**95 %**
	Bromochlorobenzene	**95 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2' - 3' BG.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 3H	Date Reported:	08-03-04
Laboratory Number:	29810	Date Sampled:	08-02-04
Chain of Custody:	12650	Date Received:	08-02-04
Sample Matrix:	Soil	Date Analyzed:	08-03-04
Preservative:	Cool	Date Extracted:	08-02-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**ND**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**95 %**
	1,4-difluorobenzene	**95 %**
	Bromochlorobenzene	**95 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2' - 3' BG.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 4G	Date Reported:	08-03-04
Laboratory Number:	29811	Date Sampled:	08-02-04
Chain of Custody:	12650	Date Received:	08-02-04
Sample Matrix:	Soil	Date Analyzed:	08-03-04
Preservative:	Cool	Date Extracted:	08-02-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**31.8**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**19.4**	**2.2**
o-Xylene	**7.0**	**1.0**
Total BTEX	**58.2**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**95 %**
	1,4-difluorobenzene	**95 %**
	Bromochlorobenzene	**95 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 1' - 2' BG.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 7D	Date Reported:	08-03-04
Laboratory Number:	29812	Date Sampled:	08-02-04
Chain of Custody:	12650	Date Received:	08-02-04
Sample Matrix:	Soil	Date Analyzed:	08-03-04
Preservative:	Cool	Date Extracted:	08-02-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**ND**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**95 %**
	1,4-difluorobenzene	**95 %**
	Bromochlorobenzene	**95 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2' - 3' BG.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 8C	Date Reported:	08-03-04
Laboratory Number:	29813	Date Sampled:	08-02-04
Chain of Custody:	12650	Date Received:	08-02-04
Sample Matrix:	Soil	Date Analyzed:	08-03-04
Preservative:	Cool	Date Extracted:	08-02-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**ND**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**95 %**
	1,4-difluorobenzene	**95 %**
	Bromochlorobenzene	**95 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2' - 3' BG.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 9E	Date Reported:	08-03-04
Laboratory Number:	29814	Date Sampled:	08-02-04
Chain of Custody:	12650	Date Received:	08-02-04
Sample Matrix:	Soil	Date Analyzed:	08-03-04
Preservative:	Cool	Date Extracted:	08-02-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**ND**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**96 %**
	1,4-difluorobenzene	**96 %**
	Bromochlorobenzene	**96 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2' - 3' BG.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 11D	Date Reported:	08-03-04
Laboratory Number:	29815	Date Sampled:	08-02-04
Chain of Custody:	12650	Date Received:	08-02-04
Sample Matrix:	Soil	Date Analyzed:	08-03-04
Preservative:	Cool	Date Extracted:	08-02-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**ND**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**96 %**
	1,4-difluorobenzene	**96 %**
	Bromochlorobenzene	**96 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2' - 3' BG.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 12G	Date Reported:	08-03-04
Laboratory Number:	29816	Date Sampled:	08-02-04
Chain of Custody:	12650	Date Received:	08-02-04
Sample Matrix:	Soil	Date Analyzed:	08-03-04
Preservative:	Cool	Date Extracted:	08-02-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**ND**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**96 %**
	1,4-difluorobenzene	**96 %**
	Bromochlorobenzene	**96 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2' - 3' BG.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 13G	Date Reported:	08-03-04
Laboratory Number:	29817	Date Sampled:	08-02-04
Chain of Custody:	12650	Date Received:	08-02-04
Sample Matrix:	Soil	Date Analyzed:	08-03-04
Preservative:	Cool	Date Extracted:	08-02-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**ND**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**96 %**
	1,4-difluorobenzene	**96 %**
	Bromochlorobenzene	**96 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2' - 3' BG.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	08-03-BTEX QA/QC	Date Reported:	08-03-04
Laboratory Number:	29809	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	08-03-04
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF:	C-Cal RF:	%Diff. Accept. Range 0 - 15%	Blank Conc	Detect. Limit
Benzene	5.4845E-002	5.5010E-002	0.3%	ND	0.2
Toluene	5.1551E-002	5.1654E-002	0.2%	ND	0.2
Ethylbenzene	8.2359E-002	8.2607E-002	0.3%	ND	0.2
p,m-Xylene	8.1810E-002	8.2056E-002	0.3%	ND	0.2
o-Xylene	6.8534E-002	6.8672E-002	0.2%	ND	0.1

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	ND	ND	0.0%	0 - 30%	1.8
Toluene	ND	ND	0.0%	0 - 30%	1.7
Ethylbenzene	ND	ND	0.0%	0 - 30%	1.5
p,m-Xylene	ND	ND	0.0%	0 - 30%	2.2
o-Xylene	ND	ND	0.0%	0 - 30%	1.0

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	50.0	49.9	99.8%	39 - 150
Toluene	ND	50.0	50.0	100.0%	46 - 148
Ethylbenzene	ND	50.0	49.9	99.8%	32 - 160
p,m-Xylene	ND	100	99.9	99.9%	46 - 148
o-Xylene	ND	50.0	50.0	100.0%	46 - 148

ND - Parameter not detected at the stated detection limit.

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.
Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: **QA/QC for samples 29809 - 29817.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 2H	Date Reported:	08-03-04
Laboratory Number:	29809	Date Sampled:	08-02-04
Chain of Custody:	12650	Date Received:	08-02-04
Sample Matrix:	Soil	Date Analyzed:	08-03-04
Preservative:	Cool	Date Digested:	08-02-04
Condition:	Cool & Intact	Analysis Needed:	RCRA Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Arsenic	0.004	0.001	5.0
Barium	0.147	0.001	100
Cadmium	ND	0.001	1.0
Chromium	0.001	0.001	5.0
Lead	0.001	0.001	5.0
Mercury	ND	0.001	0.2
Selenium	0.002	0.001	1.0
Silver	ND	0.001	5.0

ND - Parameter not detected at the stated detection limit.

References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils. SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision Spectroscopy, SW-846, USEPA, December 1996.

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, August 24, 1998.

Comments: **JFJ Landfarm 2' - 3' BG.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 3H	Date Reported:	08-03-04
Laboratory Number:	29810	Date Sampled:	08-02-04
Chain of Custody:	12650	Date Received:	08-02-04
Sample Matrix:	Soil	Date Analyzed:	08-03-04
Preservative:	Cool	Date Digested:	08-02-04
Condition:	Cool & Intact	Analysis Needed:	RCRA Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Arsenic	0.006	0.001	5.0
Barium	0.162	0.001	100
Cadmium	ND	0.001	1.0
Chromium	0.001	0.001	5.0
Lead	0.001	0.001	5.0
Mercury	ND	0.001	0.2
Selenium	0.003	0.001	1.0
Silver	ND	0.001	5.0

ND - Parameter not detected at the stated detection limit.

References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils. SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision Spectroscopy, SW-846, USEPA, December 1996.

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, August 24, 1998.

Comments: **JFJ Landfarm 2' - 3' BG.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 4G	Date Reported:	08-03-04
Laboratory Number:	29811	Date Sampled:	08-02-04
Chain of Custody:	12650	Date Received:	08-02-04
Sample Matrix:	Soil	Date Analyzed:	08-03-04
Preservative:	Cool	Date Digested:	08-02-04
Condition:	Cool & Intact	Analysis Needed:	RCRA Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Arsenic	0.005	0.001	5.0
Barium	0.154	0.001	100
Cadmium	ND	0.001	1.0
Chromium	0.002	0.001	5.0
Lead	0.001	0.001	5.0
Mercury	ND	0.001	0.2
Selenium	0.002	0.001	1.0
Silver	ND	0.001	5.0

ND - Parameter not detected at the stated detection limit.

References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils. SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision Spectroscopy, SW-846, USEPA, December 1996.

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, August 24, 1998.

Comments: **JFJ Landfarm 1' - 2' BG.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 7D	Date Reported:	08-03-04
Laboratory Number:	29812	Date Sampled:	08-02-04
Chain of Custody:	12650	Date Received:	08-02-04
Sample Matrix:	Soil	Date Analyzed:	08-03-04
Preservative:	Cool	Date Digested:	08-02-04
Condition:	Cool & Intact	Analysis Needed:	RCRA Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Arsenic	0.003	0.001	5.0
Barium	0.120	0.001	100
Cadmium	ND	0.001	1.0
Chromium	0.001	0.001	5.0
Lead	0.001	0.001	5.0
Mercury	ND	0.001	0.2
Selenium	0.001	0.001	1.0
Silver	ND	0.001	5.0

ND - Parameter not detected at the stated detection limit.

References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils. SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision Spectroscopy, SW-846, USEPA, December 1996.

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, August 24, 1998.

Comments: **JFJ Landfarm 2' - 3' BG.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 8C	Date Reported:	08-03-04
Laboratory Number:	29813	Date Sampled:	08-02-04
Chain of Custody:	12650	Date Received:	08-02-04
Sample Matrix:	Soil	Date Analyzed:	08-03-04
Preservative:	Cool	Date Digested:	08-02-04
Condition:	Cool & Intact	Analysis Needed:	RCRA Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Arsenic	0.005	0.001	5.0
Barium	0.132	0.001	100
Cadmium	ND	0.001	1.0
Chromium	0.001	0.001	5.0
Lead	0.001	0.001	5.0
Mercury	ND	0.001	0.2
Selenium	0.002	0.001	1.0
Silver	ND	0.001	5.0

ND - Parameter not detected at the stated detection limit.

References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils. SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision Spectroscopy, SW-846, USEPA, December 1996.

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, August 24, 1998.

Comments: **JFJ Landfarm 2' - 3' BG.**

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TRACE METAL ANALYSIS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 9E	Date Reported:	08-03-04
Laboratory Number:	29814	Date Sampled:	08-02-04
Chain of Custody:	12650	Date Received:	08-02-04
Sample Matrix:	Soil	Date Analyzed:	08-03-04
Preservative:	Cool	Date Digested:	08-02-04
Condition:	Cool & Intact	Analysis Needed:	RCRA Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Arsenic	0.004	0.001	5.0
Barium	0.139	0.001	100
Cadmium	ND	0.001	1.0
Chromium	0.001	0.001	5.0
Lead	0.001	0.001	5.0
Mercury	ND	0.001	0.2
Selenium	0.001	0.001	1.0
Silver	ND	0.001	5.0

ND - Parameter not detected at the stated detection limit.

References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils. SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision Spectroscopy, SW-846, USEPA, December 1996.

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, August 24, 1998.

Comments: **JFJ Landfarm 2' - 3' BG.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 11D	Date Reported:	08-03-04
Laboratory Number:	29815	Date Sampled:	08-02-04
Chain of Custody:	12650	Date Received:	08-02-04
Sample Matrix:	Soil	Date Analyzed:	08-03-04
Preservative:	Cool	Date Digested:	08-02-04
Condition:	Cool & Intact	Analysis Needed:	RCRA Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Arsenic	0.004	0.001	5.0
Barium	0.128	0.001	100
Cadmium	ND	0.001	1.0
Chromium	0.001	0.001	5.0
Lead	0.001	0.001	5.0
Mercury	ND	0.001	0.2
Selenium	0.001	0.001	1.0
Silver	ND	0.001	5.0

ND - Parameter not detected at the stated detection limit.

References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils. SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision Spectroscopy, SW-846, USEPA, December 1996.

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, August 24, 1998.

Comments: **JFJ Landfarm 2' - 3' BG.**

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TRACE METAL ANALYSIS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 12G	Date Reported:	08-03-04
Laboratory Number:	29816	Date Sampled:	08-02-04
Chain of Custody:	12650	Date Received:	08-02-04
Sample Matrix:	Soil	Date Analyzed:	08-03-04
Preservative:	Cool	Date Digested:	08-02-04
Condition:	Cool & Intact	Analysis Needed:	RCRA Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Arsenic	0.006	0.001	5.0
Barium	0.157	0.001	100
Cadmium	ND	0.001	1.0
Chromium	0.002	0.001	5.0
Lead	0.002	0.001	5.0
Mercury	ND	0.001	0.2
Selenium	0.002	0.001	1.0
Silver	ND	0.001	5.0

ND - Parameter not detected at the stated detection limit.

References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils. SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision Spectroscopy, SW-846, USEPA, December 1996.

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, August 24, 1998.

Comments: **JFJ Landfarm 2' - 3' BG.**

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TRACE METAL ANALYSIS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 13G	Date Reported:	08-03-04
Laboratory Number:	29817	Date Sampled:	08-02-04
Chain of Custody:	12650	Date Received:	08-02-04
Sample Matrix:	Soil	Date Analyzed:	08-03-04
Preservative:	Cool	Date Digested:	08-02-04
Condition:	Cool & Intact	Analysis Needed:	RCRA Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Arsenic	0.003	0.001	5.0
Barium	0.119	0.001	100
Cadmium	ND	0.001	1.0
Chromium	0.001	0.001	5.0
Lead	0.001	0.001	5.0
Mercury	ND	0.001	0.2
Selenium	0.001	0.001	1.0
Silver	ND	0.001	5.0

ND - Parameter not detected at the stated detection limit.

References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils. SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision Spectroscopy, SW-846, USEPA, December 1996.

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, August 24, 1998.

Comments: **JFJ Landfarm 2' - 3' BG.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS
Quality Control / Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	08-03-04 QA/AC	Date Reported:	08-03-04
Laboratory Number:	29809	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	Total RCRA Metals	Date Analyzed:	08-03-04
Condition:	N/A	Date Digested:	08-02-04

Blank & Duplicate Conc. (mg/Kg)	Instrument Blank (mg/L)	Method Blank	Detection Limit	Sample	Duplicate	% Diff.	Acceptance Range
Arsenic	ND	ND	0.001	0.004	0.004	0.0%	0% - 30%
Barium	ND	ND	0.001	0.147	0.148	0.7%	0% - 30%
Cadmium	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Chromium	ND	ND	0.001	0.001	0.001	0.0%	0% - 30%
Lead	ND	ND	0.001	0.001	0.001	0.0%	0% - 30%
Mercury	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Selenium	ND	ND	0.001	0.002	0.002	0.0%	0% - 30%
Silver	ND	ND	0.001	ND	ND	0.0%	0% - 30%

Spike Conc. (mg/Kg)	Spike Added	Sample	Spiked Sample	Percent Recovery	Acceptance Range
Arsenic	0.500	0.004	0.503	99.8%	80% - 120%
Barium	0.500	0.147	0.646	99.8%	80% - 120%
Cadmium	0.500	ND	0.500	100.0%	80% - 120%
Chromium	0.500	0.001	0.501	100.0%	80% - 120%
Lead	0.500	0.001	0.500	99.8%	80% - 120%
Mercury	0.050	ND	0.050	100.0%	80% - 120%
Selenium	0.500	0.002	0.501	99.8%	80% - 120%
Silver	0.500	ND	0.500	100.0%	80% - 120%

ND - Parameter not detected at the stated detection limit.

References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils. SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision Spectorscopy, SW-846, USEPA, December 1996.

Comments: **QA/QC for samples 29809 - 29817.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client:	Blagg /JFJ	Project #:	94034-010
Sample ID:	Cell 2 H	Date Reported:	08-05-04
Laboratory Number:	29809	Date Sampled:	08-02-04
Chain of Custody:	12650	Date Received:	08-02-04
Sample Matrix:	Soil	Date Extracted:	08-03-04
Preservative:	Cool	Date Analyzed:	08-04-04
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		Units
pH	**7.26**	s.u.		
Conductivity @ 25° C	**341**	umhos/cm		
Total Dissolved Solids @ 180C	**268**	mg/L		
Total Dissolved Solids (Calc)	**323**	mg/L		
SAR	**6.2**	ratio		
Total Alkalinity as CaCO3	**16.2**	mg/L		
Total Hardness as CaCO3	**43.4**	mg/L		
Bicarbonate as HCO3	**16.2**	mg/L	0.27	meq/L
Carbonate as CO3	**<0.1**	mg/L	0.00	meq/L
Hydroxide as OH	**<0.1**	mg/L	0.00	meq/L
Nitrate Nitrogen	**<0.1**	mg/L	0.00	meq/L
Nitrite Nitrogen	**<0.001**	mg/L	0.00	meq/L
Chloride	**51.6**	mg/L	1.46	meq/L
Fluoride	**0.67**	mg/L	0.04	meq/L
Phosphate	**0.4**	mg/L	0.01	meq/L
Sulfate	**152**	mg/L	3.16	meq/L
Iron	**0.005**	mg/L	0.00	meq/L
Calcium	**11.2**	mg/L	0.56	meq/L
Magnesium	**3.76**	mg/L	0.31	meq/L
Potassium	**0.35**	mg/L	0.01	meq/L
Sodium	**93.3**	mg/L	4.06	meq/L
Cations			4.94	meq/L
Anions			4.93	meq/L
Cation/Anion Difference			**0.05%**	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983. Water And Waste Water", 18th ed., 1992.

Comments: **JFJ Landfarm 2' - 3' BG.**

Christine M Walter
Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client:	Blagg /JFJ	Project #:	94034-010
Sample ID:	Cell 3 H	Date Reported:	08-05-04
Laboratory Number:	29810	Date Sampled:	08-02-04
Chain of Custody:	12650	Date Received:	08-02-04
Sample Matrix:	Soil	Date Extracted:	08-03-04
Preservative:	Cool	Date Analyzed:	08-04-04
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		Units
pH	7.34	s.u.		
Conductivity @ 25° C	536	umhos/cm		
Total Dissolved Solids @ 180C	412	mg/L		
Total Dissolved Solids (Calc)	485	mg/L		
SAR	3.8	ratio		
Total Alkalinity as CaCO3	16.4	mg/L		
Total Hardness as CaCO3	144	mg/L		
Bicarbonate as HCO3	16.4	mg/L	0.27	meq/L
Carbonate as CO3	<0.1	mg/L	0.00	meq/L
Hydroxide as OH	<0.1	mg/L	0.00	meq/L
Nitrate Nitrogen	0.2	mg/L	0.00	meq/L
Nitrite Nitrogen	0.001	mg/L	0.00	meq/L
Chloride	90.4	mg/L	2.55	meq/L
Fluoride	0.62	mg/L	0.03	meq/L
Phosphate	0.4	mg/L	0.01	meq/L
Sulfate	222	mg/L	4.62	meq/L
Iron	0.001	mg/L	0.00	meq/L
Calcium	49.6	mg/L	2.48	meq/L
Magnesium	4.98	mg/L	0.41	meq/L
Potassium	1.70	mg/L	0.04	meq/L
Sodium	105	mg/L	4.57	meq/L
Cations			7.50	meq/L
Anions			7.49	meq/L
Cation/Anion Difference			0.08%	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983. Water And Waste Water", 18th ed., 1992.

Comments: **JFJ Landfarm 2' - 3' BG.**

Christine M Walters
Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client:	Blagg /JFJ	Project #:	94034-010
Sample ID:	Cell 4 G	Date Reported:	08-05-04
Laboratory Number:	29811	Date Sampled:	08-02-04
Chain of Custody:	12650	Date Received:	08-02-04
Sample Matrix:	Soil	Date Extracted:	08-03-04
Preservative:	Cool	Date Analyzed:	08-04-04
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		Units
pH	**7.44**	s.u.		
Conductivity @ 25° C	**353**	umhos/cm		
Total Dissolved Solids @ 180C	**296**	mg/L		
Total Dissolved Solids (Calc)	**324**	mg/L		
SAR	**4.1**	ratio		
Total Alkalinity as CaCO3	**14.4**	mg/L		
Total Hardness as CaCO3	**73.4**	mg/L		
Bicarbonate as HCO3	**14.4**	mg/L	0.24	meq/L
Carbonate as CO3	**<0.1**	mg/L	0.00	meq/L
Hydroxide as OH	**<0.1**	mg/L	0.00	meq/L
Nitrate Nitrogen	**<0.1**	mg/L	0.00	meq/L
Nitrite Nitrogen	**<0.001**	mg/L	0.00	meq/L
Chloride	**57.2**	mg/L	1.61	meq/L
Fluoride	**0.83**	mg/L	0.04	meq/L
Phosphate	**0.3**	mg/L	0.01	meq/L
Sulfate	**148**	mg/L	3.08	meq/L
Iron	**<0.001**	mg/L	0.00	meq/L
Calcium	**24.9**	mg/L	1.24	meq/L
Magnesium	**2.73**	mg/L	0.22	meq/L
Potassium	**1.32**	mg/L	0.03	meq/L
Sodium	**80.0**	mg/L	3.48	meq/L
Cations			4.98	meq/L
Anions			4.98	meq/L
Cation/Anion Difference			**0.06%**	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983. Water And Waste Water", 18th ed., 1992.

Comments: **JFJ Landfarm 1' - 2' BG.**

Christine M Walters
Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client:	Blagg /JFJ	Project #:	94034-010
Sample ID:	Cell 7 D	Date Reported:	08-05-04
Laboratory Number:	29812	Date Sampled:	08-02-04
Chain of Custody:	12650	Date Received:	08-02-04
Sample Matrix:	Soil	Date Extracted:	08-03-04
Preservative:	Cool	Date Analyzed:	08-04-04
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		Units
pH	7.84	s.u.		
Conductivity @ 25° C	79.8	umhos/cm		
Total Dissolved Solids @ 180C	86.8	mg/L		
Total Dissolved Solids (Calc)	91.2	mg/L		
SAR	4.0	ratio		
Total Alkalinity as CaCO3	15.0	mg/L		
Total Hardness as CaCO3	10.8	mg/L		
Bicarbonate as HCO3	15.0	mg/L	0.25	meq/L
Carbonate as CO3	<0.1	mg/L	0.00	meq/L
Hydroxide as OH	<0.1	mg/L	0.00	meq/L
Nitrate Nitrogen	0.1	mg/L	0.00	meq/L
Nitrite Nitrogen	0.002	mg/L	0.00	meq/L
Chloride	34.8	mg/L	0.98	meq/L
Fluoride	0.88	mg/L	0.05	meq/L
Phosphate	1.1	mg/L	0.03	meq/L
Sulfate	10.5	mg/L	0.22	meq/L
Iron	0.013	mg/L	0.00	meq/L
Calcium	4.32	mg/L	0.22	meq/L
Magnesium	<0.01	mg/L	0.00	meq/L
Potassium	0.36	mg/L	0.01	meq/L
Sodium	30.0	mg/L	1.31	meq/L
Cations			1.53	meq/L
Anions			1.53	meq/L
Cation/Anion Difference			0.09%	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983. Water And Waste Water", 18th ed., 1992.

Comments: **JFJ Landfarm 2' - 3' BG.**

Christine M Walters
Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client:	Blagg /JFJ	Project #:	94034-010
Sample ID:	Cell 8 C	Date Reported:	08-05-04
Laboratory Number:	29813	Date Sampled:	08-02-04
Chain of Custody:	12650	Date Received:	08-02-04
Sample Matrix:	Soil	Date Extracted:	08-03-04
Preservative:	Cool	Date Analyzed:	08-04-04
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		Units
pH	8.00	s.u.		
Conductivity @ 25° C	182	umhos/cm		
Total Dissolved Solids @ 180C	176	mg/L		
Total Dissolved Solids (Calc)	173	mg/L		
SAR	3.1	ratio		
Total Alkalinity as CaCO3	15.0	mg/L		
Total Hardness as CaCO3	39.2	mg/L		
Bicarbonate as HCO3	15.0	mg/L	0.25	meq/L
Carbonate as CO3	<0.1	mg/L	0.00	meq/L
Hydroxide as OH	<0.1	mg/L	0.00	meq/L
Nitrate Nitrogen	0.1	mg/L	0.00	meq/L
Nitrite Nitrogen	0.004	mg/L	0.00	meq/L
Chloride	38.8	mg/L	1.09	meq/L
Fluoride	0.72	mg/L	0.04	meq/L
Phosphate	0.3	mg/L	0.01	meq/L
Sulfate	64.0	mg/L	1.33	meq/L
Iron	0.002	mg/L	0.00	meq/L
Calcium	13.3	mg/L	0.66	meq/L
Magnesium	1.47	mg/L	0.12	meq/L
Potassium	0.39	mg/L	0.01	meq/L
Sodium	44.3	mg/L	1.93	meq/L
Cations			2.72	meq/L
Anions			2.72	meq/L
Cation/Anion Difference			0.01%	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983. Water And Waste Water", 18th ed., 1992.

Comments: **JFJ Landfarm 2' - 3' BG.**

Christine M Walters
Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client:	Blagg /JFJ	Project #:	94034-010
Sample ID:	Cell 9 E	Date Reported:	08-05-04
Laboratory Number:	29814	Date Sampled:	08-02-04
Chain of Custody:	12650	Date Received:	08-02-04
Sample Matrix:	Soil	Date Extracted:	08-03-04
Preservative:	Cool	Date Analyzed:	08-04-04
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		Units
pH	7.66	s.u.		
Conductivity @ 25° C	502	umhos/cm		
Total Dissolved Solids @ 180C	440	mg/L		
Total Dissolved Solids (Calc)	437	mg/L		
SAR	4.0	ratio		
Total Alkalinity as CaCO3	18.8	mg/L		
Total Hardness as CaCO3	122	mg/L		
Bicarbonate as HCO3	18.8	mg/L	0.31	meq/L
Carbonate as CO3	<0.1	mg/L	0.00	meq/L
Hydroxide as OH	<0.1	mg/L	0.00	meq/L
Nitrate Nitrogen	0.1	mg/L	0.00	meq/L
Nitrite Nitrogen	<0.001	mg/L	0.00	meq/L
Chloride	112	mg/L	3.16	meq/L
Fluoride	0.89	mg/L	0.05	meq/L
Phosphate	0.4	mg/L	0.01	meq/L
Sulfate	163	mg/L	3.39	meq/L
Iron	0.007	mg/L	0.00	meq/L
Calcium	42.6	mg/L	2.13	meq/L
Magnesium	3.91	mg/L	0.32	meq/L
Potassium	0.69	mg/L	0.02	meq/L
Sodium	102	mg/L	4.44	meq/L
Cations			6.90	meq/L
Anions			6.92	meq/L
Cation/Anion Difference			0.29%	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983. Water And Waste Water", 18th ed., 1992.

Comments: **JFJ Landfarm 2' - 3' BG.**

Christine M Walters
Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client:	Blagg /JFJ	Project #:	94034-010
Sample ID:	Cell 11 D	Date Reported:	08-05-04
Laboratory Number:	29815	Date Sampled:	08-02-04
Chain of Custody:	12650	Date Received:	08-02-04
Sample Matrix:	Soil	Date Extracted:	08-03-04
Preservative:	Cool	Date Analyzed:	08-04-04
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		Units
pH	8.32	s.u.		
Conductivity @ 25° C	106	umhos/cm		
Total Dissolved Solids @ 180C	110	mg/L		
Total Dissolved Solids (Calc)	120	mg/L		
SAR	6.2	ratio		
Total Alkalinity as CaCO3	13.6	mg/L		
Total Hardness as CaCO3	8.0	mg/L		
Bicarbonate as HCO3	13.6	mg/L	0.22	meq/L
Carbonate as CO3	<0.1	mg/L	0.00	meq/L
Hydroxide as OH	<0.1	mg/L	0.00	meq/L
Nitrate Nitrogen	0.2	mg/L	0.00	meq/L
Nitrite Nitrogen	0.003	mg/L	0.00	meq/L
Chloride	36.4	mg/L	1.03	meq/L
Fluoride	0.60	mg/L	0.03	meq/L
Phosphate	0.3	mg/L	0.01	meq/L
Sulfate	30.2	mg/L	0.63	meq/L
Iron	0.030	mg/L	0.00	meq/L
Calcium	3.2	mg/L	0.16	meq/L
Magnesium	<0.01	mg/L	0.00	meq/L
Potassium	<0.01	mg/L	0.00	meq/L
Sodium	40.5	mg/L	1.76	meq/L
Cations			1.92	meq/L
Anions			1.92	meq/L
Cation/Anion Difference			**0.02%**	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983. Water And Waste Water", 18th ed., 1992.

Comments: **JFJ Landfarm 2' - 3' BG.**

Christine M Walters
Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client:	Blagg /JFJ	Project #:	94034-010
Sample ID:	Cell 12 G	Date Reported:	08-05-04
Laboratory Number:	29816	Date Sampled:	08-02-04
Chain of Custody:	12650	Date Received:	08-02-04
Sample Matrix:	Soil	Date Extracted:	08-03-04
Preservative:	Cool	Date Analyzed:	08-04-04
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		Units
pH	8.26	s.u.		
Conductivity @ 25° C	163	umhos/cm		
Total Dissolved Solids @ 180C	184	mg/L		
Total Dissolved Solids (Calc)	190	mg/L		
SAR	6.7	ratio		
Total Alkalinity as CaCO3	20.0	mg/L		
Total Hardness as CaCO3	15.6	mg/L		
Bicarbonate as HCO3	20.0	mg/L	0.33	meq/L
Carbonate as CO3	<0.1	mg/L	0.00	meq/L
Hydroxide as OH	<0.1	mg/L	0.00	meq/L
Nitrate Nitrogen	1.5	mg/L	0.02	meq/L
Nitrite Nitrogen	0.054	mg/L	0.00	meq/L
Chloride	36.8	mg/L	1.04	meq/L
Fluoride	0.20	mg/L	0.01	meq/L
Phosphate	4.4	mg/L	0.14	meq/L
Sulfate	68.0	mg/L	1.42	meq/L
Iron	0.110	mg/L	0.00	meq/L
Calcium	6.2	mg/L	0.31	meq/L
Magnesium	<0.01	mg/L	0.00	meq/L
Potassium	0.30	mg/L	0.01	meq/L
Sodium	60.5	mg/L	2.63	meq/L
Cations			2.95	meq/L
Anions			2.96	meq/L
Cation/Anion Difference			**0.06%**	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983. Water And Waste Water", 18th ed., 1992.

Comments: **JFJ Landfarm 2' - 3' BG.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client:	Blagg /JFJ	Project #:	94034-010
Sample ID:	Cell 13 G	Date Reported:	08-05-04
Laboratory Number:	29817	Date Sampled:	08-02-04
Chain of Custody:	12650	Date Received:	08-02-04
Sample Matrix:	Soil	Date Extracted:	08-03-04
Preservative:	Cool	Date Analyzed:	08-04-04
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		Units
pH	8.63	s.u.		
Conductivity @ 25° C	310	umhos/cm		
Total Dissolved Solids @ 180C	300	mg/L		
Total Dissolved Solids (Calc)	288	mg/L		
SAR	6.0	ratio		
Total Alkalinity as CaCO3	16.6	mg/L		
Total Hardness as CaCO3	35.6	mg/L		
Bicarbonate as HCO3	16.6	mg/L	0.27	meq/L
Carbonate as CO3	<0.1	mg/L	0.00	meq/L
Hydroxide as OH	<0.1	mg/L	0.00	meq/L
Nitrate Nitrogen	0.1	mg/L	0.00	meq/L
Nitrite Nitrogen	0.001	mg/L	0.00	meq/L
Chloride	24.8	mg/L	0.70	meq/L
Fluoride	0.61	mg/L	0.03	meq/L
Phosphate	<0.1	mg/L	0.00	meq/L
Sulfate	157	mg/L	3.27	meq/L
Iron	<0.001	mg/L	0.00	meq/L
Calcium	11.0	mg/L	0.55	meq/L
Magnesium	1.95	mg/L	0.16	meq/L
Potassium	0.37	mg/L	0.01	meq/L
Sodium	81.7	mg/L	3.55	meq/L
Cations			4.27	meq/L
Anions			4.27	meq/L
Cation/Anion Difference			**0.03%**	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983. Water And Waste Water", 18th ed., 1992.

Comments: **JFJ Landfarm 2' - 3' BG.**

Christine M Walden
Analyst

Review

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BLAGG ENGINEERING, INC.
P.O. Box 87, Bloomfield, New Mexico 87413
Phone: (505)632-1199 Fax: (505)632-3903

RECEIVED
MAY 18 2004
Environmental Bureau
Oil Conservation Division

SENT VIA CERTIFIED MAIL

May 17, 2004

Ms. Martyne J. Kieling
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Re: JFJ Waste Management Facility: Permit NM-01-0010B
Quarterly Report on Treatment Zone Monitoring

Dear Ms. Kieling:

On behalf of JFJ Landfarm L.L.C., Blagg Engineering, Inc. (BEI) is submitting quarterly treatment zone monitoring test results for the JFJ Waste Management Facility pursuant to Permit NM-01-0010B. This report is for sampling conducted on April 13, 2004.

Sampling protocol included collection of native soils at various depths below the treatment zone in each cell using a pickup mounted power auger. Sample depths were at 24-36 inches below the top surface of the treatment zone. Following sample collection, test borings were backfilled with powdered bentonite mixed with drill cuttings. Samples were submitted for analytical testing that included total petroleum hydrocarbons (TPH) by U.S. EPA Method 8015B and BTEX by U.S. EPA Method 8021B.

With this quarterly monitoring samples were collect from the active cell units 2e, 3e, 4f, 7a, 8a, 9f, 11a, 12a and 13c (Figure 1). The laboratory reported a non-detection of TPH and BTEX in all samples. Analytical reports are attached. The facility permit requires testing for metals, BTEX and cation/anions at least one time annually with a quarterly sample event. Metals and cations/anions will be included in future testing.

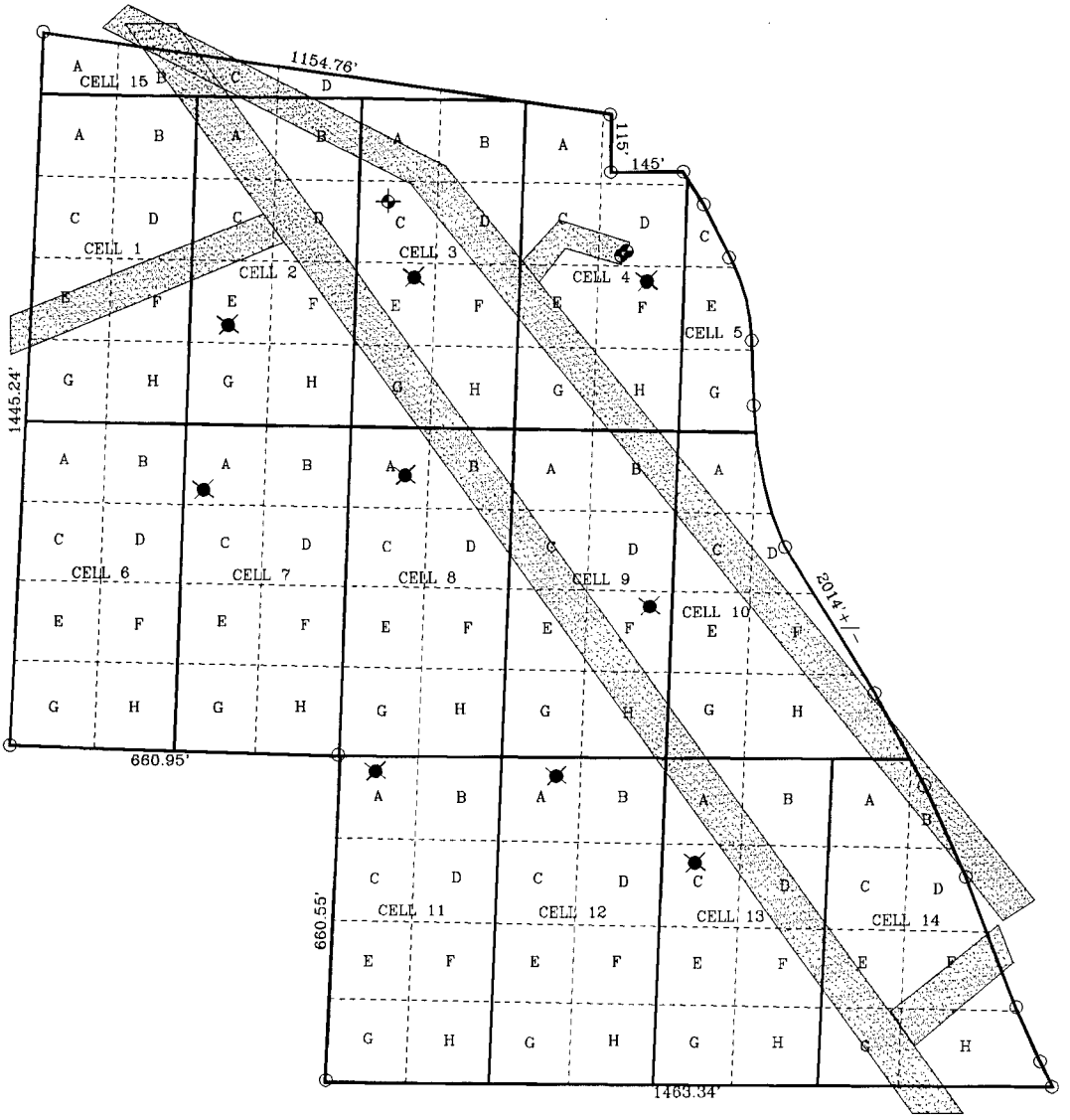
Questions or comments concerning this transmittal may be directed to Jeff Blagg of Blagg Engineering at (505)632-1199 or to Jake Hatcher with JFJ Landfarm L.L.C. at (505)632-1786.

Respectfully submitted:
Blagg Engineering, Inc.

Jeffrey C. Blagg, P.E.
President

Attachments: Site Diagram
Analytical Test Reports

cc: Denny Foust, NMOCD Aztec District Office
Jake Hatcher, JFJ Farmington



JFJ LANDFARM FACILITY
TREATMENT ZONE MONITORING

BLAGG ENGINEERING, INC.

DATE: 4/13/2004 | FIGURE 1 | BY: JCB

P.O. BOX 87, BLOOMFIELD, NM
PHONE: (505)632-1199

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / JFJ	Project #:	94034010
Sample ID:	Cell 2E	Date Reported:	04-15-04
Laboratory Number:	28364	Date Sampled:	04-13-04
Chain of Custody No:	12002	Date Received:	04-14-04
Sample Matrix:	Soil	Date Extracted:	04-14-04
Preservative:	Cool	Date Analyzed:	04-15-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm.**

Analyst

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / JFJ	Project #:	94034010
Sample ID:	Cell 3E	Date Reported:	04-15-04
Laboratory Number:	28365	Date Sampled:	04-13-04
Chain of Custody No:	12002	Date Received:	04-14-04
Sample Matrix:	Soil	Date Extracted:	04-14-04
Preservative:	Cool	Date Analyzed:	04-15-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / JFJ	Project #:	94034010
Sample ID:	Cell 4F	Date Reported:	04-15-04
Laboratory Number:	28366	Date Sampled:	04-13-04
Chain of Custody No:	12002	Date Received:	04-14-04
Sample Matrix:	Soil	Date Extracted:	04-14-04
Preservative:	Cool	Date Analyzed:	04-15-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / JFJ	Project #:	94034010
Sample ID:	Cell 7A	Date Reported:	04-15-04
Laboratory Number:	28367	Date Sampled:	04-13-04
Chain of Custody No:	12002	Date Received:	04-14-04
Sample Matrix:	Soil	Date Extracted:	04-14-04
Preservative:	Cool	Date Analyzed:	04-15-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / JFJ	Project #:	94034010
Sample ID:	Cell 8A	Date Reported:	04-15-04
Laboratory Number:	28368	Date Sampled:	04-13-04
Chain of Custody No:	12002	Date Received:	04-14-04
Sample Matrix:	Soil	Date Extracted:	04-14-04
Preservative:	Cool	Date Analyzed:	04-15-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / JFJ	Project #:	94034010
Sample ID:	Cell 9F	Date Reported:	04-15-04
Laboratory Number:	28369	Date Sampled:	04-13-04
Chain of Custody No:	12002	Date Received:	04-14-04
Sample Matrix:	Soil	Date Extracted:	04-14-04
Preservative:	Cool	Date Analyzed:	04-15-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / JFJ	Project #:	94034010
Sample ID:	Cell 11A	Date Reported:	04-15-04
Laboratory Number:	28370	Date Sampled:	04-13-04
Chain of Custody No:	12002	Date Received:	04-14-04
Sample Matrix:	Soil	Date Extracted:	04-14-04
Preservative:	Cool	Date Analyzed:	04-15-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / JFJ	Project #:	94034010
Sample ID:	Cell 12A	Date Reported:	04-15-04
Laboratory Number:	28371	Date Sampled:	04-13-04
Chain of Custody No:	12002	Date Received:	04-14-04
Sample Matrix:	Soil	Date Extracted:	04-14-04
Preservative:	Cool	Date Analyzed:	04-15-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / JFJ	Project #:	94034010
Sample ID:	Cell 13C	Date Reported:	04-15-04
Laboratory Number:	28372	Date Sampled:	04-13-04
Chain of Custody No:	12002	Date Received:	04-14-04
Sample Matrix:	Soil	Date Extracted:	04-14-04
Preservative:	Cool	Date Analyzed:	04-15-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	04-15-TPH QA/QC	Date Reported:	0415-04
Laboratory Number:	28364	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	04-15-04
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF	C-Cal RF	% Difference	Accept. Range
Gasoline Range C5 - C10	02-19-04	1.8591E-002	1.8572E-002	0.10%	0 - 15%
Diesel Range C10 - C28	02-19-04	1.5507E-002	1.5492E-002	0.10%	0 - 15%

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	ND	0.2
Diesel Range C10 - C28	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	ND	ND	0.0%	0 - 30%
Diesel Range C10 - C28	ND	ND	0.0%	0 - 30%

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	ND	250	250	100.0%	75 - 125%
Diesel Range C10 - C28	ND	250	250	100.0%	75 - 125%

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **QA/QC for samples 28364 - 28372, 28374.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 2E	Date Reported:	04-15-04
Laboratory Number:	28364	Date Sampled:	04-13-04
Chain of Custody:	12002	Date Received:	04-14-04
Sample Matrix:	Soil	Date Analyzed:	04-15-04
Preservative:	Cool	Date Extracted:	04-14-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**ND**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**97 %**
	1,4-difluorobenzene	**97 %**
	Bromochlorobenzene	**97 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 3E	Date Reported:	04-15-04
Laboratory Number:	28365	Date Sampled:	04-13-04
Chain of Custody:	12002	Date Received:	04-14-04
Sample Matrix:	Soil	Date Analyzed:	04-15-04
Preservative:	Cool	Date Extracted:	04-14-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**ND**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**97 %**
	1,4-difluorobenzene	**97 %**
	Bromochlorobenzene	**97 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 4F	Date Reported:	04-15-04
Laboratory Number:	28366	Date Sampled:	04-13-04
Chain of Custody:	12002	Date Received:	04-14-04
Sample Matrix:	Soil	Date Analyzed:	04-15-04
Preservative:	Cool	Date Extracted:	04-14-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**ND**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**97 %**
	1,4-difluorobenzene	**97 %**
	Bromochlorobenzene	**97 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 7A	Date Reported:	04-15-04
Laboratory Number:	28367	Date Sampled:	04-13-04
Chain of Custody:	12002	Date Received:	04-14-04
Sample Matrix:	Soil	Date Analyzed:	04-15-04
Preservative:	Cool	Date Extracted:	04-14-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**ND**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**97 %**
	1,4-difluorobenzene	**97 %**
	Bromochlorobenzene	**97 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 8A	Date Reported:	04-15-04
Laboratory Number:	28368	Date Sampled:	04-13-04
Chain of Custody:	12002	Date Received:	04-14-04
Sample Matrix:	Soil	Date Analyzed:	04-15-04
Preservative:	Cool	Date Extracted:	04-14-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**ND**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**97 %**
	1,4-difluorobenzene	**97 %**
	Bromochlorobenzene	**97 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 9F	Date Reported:	04-15-04
Laboratory Number:	28369	Date Sampled:	04-13-04
Chain of Custody:	12002	Date Received:	04-14-04
Sample Matrix:	Soil	Date Analyzed:	04-15-04
Preservative:	Cool	Date Extracted:	04-14-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**ND**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**97 %**
	1,4-difluorobenzene	**97 %**
	Bromochlorobenzene	**97 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 11A	Date Reported:	04-15-04
Laboratory Number:	28370	Date Sampled:	04-13-04
Chain of Custody:	12002	Date Received:	04-14-04
Sample Matrix:	Soil	Date Analyzed:	04-15-04
Preservative:	Cool	Date Extracted:	04-14-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**ND**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**97 %**
	1,4-difluorobenzene	**97 %**
	Bromochlorobenzene	**97 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm.**

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EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 12A	Date Reported:	04-15-04
Laboratory Number:	28371	Date Sampled:	04-13-04
Chain of Custody:	12002	Date Received:	04-14-04
Sample Matrix:	Soil	Date Analyzed:	04-15-04
Preservative:	Cool	Date Extracted:	04-14-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	1.8
Toluene	ND	1.7
Ethylbenzene	ND	1.5
p,m-Xylene	ND	2.2
o-Xylene	ND	1.0
Total BTEX	ND	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**98 %**
	1,4-difluorobenzene	**98 %**
	Bromochlorobenzene	**98 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 13C	Date Reported:	04-15-04
Laboratory Number:	28372	Date Sampled:	04-13-04
Chain of Custody:	12002	Date Received:	04-14-04
Sample Matrix:	Soil	Date Analyzed:	04-15-04
Preservative:	Cool	Date Extracted:	04-14-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	**1.8**
Toluene	ND	**1.7**
Ethylbenzene	ND	**1.5**
p,m-Xylene	ND	**2.2**
o-Xylene	ND	**1.0**
Total BTEX	ND	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**98 %**
	1,4-difluorobenzene	**98 %**
	Bromochlorobenzene	**98 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	04-15-BTEX QA/QC	Date Reported:	04-15-04
Laboratory Number:	28364	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	04-15-04
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF:	C-Cal RF: Accept. Range 0 - 15%	%Diff.	Blank Conc	Detect. Limit
Benzene	4.2776E-002	4.2905E-002	0.3%	ND	0.2
Toluene	4.8966E-002	4.9064E-002	0.2%	ND	0.2
Ethylbenzene	7.4036E-002	7.4259E-002	0.3%	ND	0.2
p,m-Xylene	6.8275E-002	6.8480E-002	0.3%	ND	0.2
o-Xylene	5.5866E-002	5.5978E-002	0.2%	ND	0.1

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	ND	ND	0.0%	0 - 30%	1.8
Toluene	ND	ND	0.0%	0 - 30%	1.7
Ethylbenzene	ND	ND	0.0%	0 - 30%	1.5
p,m-Xylene	ND	ND	0.0%	0 - 30%	2.2
o-Xylene	ND	ND	0.0%	0 - 30%	1.0

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	50.0	49.9	99.8%	39 - 150
Toluene	ND	50.0	49.9	99.8%	46 - 148
Ethylbenzene	ND	50.0	49.9	99.8%	32 - 160
p,m-Xylene	ND	100	99.9	99.9%	46 - 148
o-Xylene	ND	50.0	49.9	99.8%	46 - 148

ND - Parameter not detected at the stated detection limit.

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.
Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: **QA/QC for samples 28364 - 28372, 28374.**

Analyst

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CHAIN OF CUSTODY RECORD

12002

Client / Project Name	Project Location	ANALYSIS / PARAMETERS
BLAGG/JFJ	JFJ LANDFARM	

Sampler: J. C. Blagg

Client No.: 94034-010

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TPH 8015	BTEX 8021	Remarks
CELL 2E	4/13/04	1210	28364	SOIL	1	X	X	
CELL 3E	"	1230	28365	"	1	X	X	
CELL 4F	"	1250	28366	"	1	X	X	
CELL 7A	"	1155	28367	"	1	X	X	
CELL 8A	"	1145	28368	"	1	X	X	
CELL 9F	"	1135	28369	"	1	X	X	
CELL 11A	"	1100	28370	"	1	X	X	
CELL 12A	"	1115	28371	"	1	X	X	
CELL 13C	"	1125	28372	"	1	X	X	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
J. C. Blagg	4/14/04	0702	Glenn P. Spencer	4/14/04	0702
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

ENVIROTECH INC.

5796 U.S. Highway 64
Farmington, New Mexico 87401
(505) 632-0615

Sample Receipt	Y	N	N/A
Received Intact	✓		
Cool - Ice/Blue Ice	✓		

san juan reproduction 578-129

Industrial Ecosystems Inc.
Soil Reclamation Center

P.O. Box 2043
Farmington, NM 87499

Phone: (505) 632-1782
Fax: (505) 632-1876

#81 CR 3150
Aztec, NM 87410

April 26, 2004

RECEIVED

MAY 0 6 2004

OIL CONSERVATION
DIVISION

New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

RE: Reclaimed soil

Attn: Martyne Kieling

Dear Martyne:

Recent analytical results show that several piles containing hydrocarbon impacted soil have reached acceptable levels as required by the NMOCD.

The following biopiles have reached the acceptable levels: T1, T2, T4, T6, T7, T8, T9, T10, T11, T12. All of these biopiles contain material pushed up off Tierra's portion of the landfarm.

We are seeking your approval to recycle this soil by using it as mix material to solidify incoming tank bottom sludge and material to recondition existing berms within the JFJ Facility.

Please find the enclosed analytical reports for these biopiles.

Thanks in advance

James (Jake) Hatcher
Manager JFJ Landfarms (permit # NM 01 0010B J.F.J Landfarms LLC)

Cc: Denny Foust

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Pile 2	Date Reported:	04-09-04
Laboratory Number:	28327	Date Sampled:	04-07-04
Chain of Custody No:	11991	Date Received:	04-07-04
Sample Matrix:	Soil	Date Extracted:	04-08-04
Preservative:	Cool	Date Analyzed:	04-09-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**3.5**	**0.2**
Diesel Range (C10 - C28)	**70.0**	**0.1**
Total Petroleum Hydrocarbons	**73.5**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Tierra Cell 5-Pt. Composite.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Pile 4	Date Reported:	04-09-04
Laboratory Number:	28328	Date Sampled:	04-07-04
Chain of Custody No:	11991	Date Received:	04-07-04
Sample Matrix:	Soil	Date Extracted:	04-08-04
Preservative:	Cool	Date Analyzed:	04-09-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**1.0**	**0.2**
Diesel Range (C10 - C28)	**68.7**	**0.1**
Total Petroleum Hydrocarbons	**69.7**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Tierra Cell 5-Pt. Composite.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Pile 6	Date Reported:	04-09-04
Laboratory Number:	28329	Date Sampled:	04-07-04
Chain of Custody No:	11991	Date Received:	04-07-04
Sample Matrix:	Soil	Date Extracted:	04-08-04
Preservative:	Cool	Date Analyzed:	04-09-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**23.5**	**0.1**
Total Petroleum Hydrocarbons	**23.5**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Tierra Cell 5-Pt. Composite.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Pile 8	Date Reported:	04-09-04
Laboratory Number:	28330	Date Sampled:	04-07-04
Chain of Custody No:	11991	Date Received:	04-07-04
Sample Matrix:	Soil	Date Extracted:	04-08-04
Preservative:	Cool	Date Analyzed:	04-09-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**29.6**	**0.1**
Total Petroleum Hydrocarbons	**29.6**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Tierra Cell 5-Pt. Composite.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Pile 10	Date Reported:	04-09-04
Laboratory Number:	28331	Date Sampled:	04-07-04
Chain of Custody No:	11991	Date Received:	04-07-04
Sample Matrix:	Soil	Date Extracted:	04-08-04
Preservative:	Cool	Date Analyzed:	04-09-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**14.2**	**0.1**
Total Petroleum Hydrocarbons	**14.2**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Tierra Cell 5-Pt. Composite.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Pile 12	Date Reported:	04-09-04
Laboratory Number:	28332	Date Sampled:	04-07-04
Chain of Custody No:	11991	Date Received:	04-07-04
Sample Matrix:	Soil	Date Extracted:	04-08-04
Preservative:	Cool	Date Analyzed:	04-09-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**37.5**	**0.1**
Total Petroleum Hydrocarbons	**37.5**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Tierra Cell 5-Pt. Composite.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	04-09-TPH QA/QC	Date Reported:	04-09-04
Laboratory Number:	28327	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	04-09-04
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
Gasoline Range C5 - C10	02-19-04	1.8591E-002	1.8572E-002	**0.10%**	**0 - 15%**
Diesel Range C10 - C28	02-19-04	1.5507E-002	1.5492E-002	**0.10%**	**0 - 15%**

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	**ND**	**0.2**
Diesel Range C10 - C28	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	**3.5**	**3.4**	**2.9%**	**0 - 30%**
Diesel Range C10 - C28	**70.0**	**69.8**	**0.3%**	**0 - 30%**

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	**3.5**	**250**	**253**	**99.8%**	**75 - 125%**
Diesel Range C10 - C28	**70.0**	**250**	**319**	**99.8%**	**75 - 125%**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **QA/QC for samples 28327 - 28334.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Pile 2	Date Reported:	04-09-04
Laboratory Number:	28327	Date Sampled:	04-07-04
Chain of Custody:	11991	Date Received:	04-07-04
Sample Matrix:	Soil	Date Analyzed:	04-09-04
Preservative:	Cool	Date Extracted:	04-08-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**37.6**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**48.9**	**2.2**
o-Xylene	**66.5**	**1.0**
Total BTEX	**153**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**100 %**
	1,4-difluorobenzene	**100 %**
	Bromochlorobenzene	**100 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Tierra Cell 5-Pt. Composite.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Pile 4	Date Reported:	04-09-04
Laboratory Number:	28328	Date Sampled:	04-07-04
Chain of Custody:	11991	Date Received:	04-07-04
Sample Matrix:	Soil	Date Analyzed:	04-09-04
Preservative:	Cool	Date Extracted:	04-08-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**71.1**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**22.5**	**2.2**
o-Xylene	**36.0**	**1.0**
Total BTEX	**130**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**100 %**
	1,4-difluorobenzene	**100 %**
	Bromochlorobenzene	**100 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Tierra Cell 5-Pt. Composite.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Pile 6	Date Reported:	04-09-04
Laboratory Number:	28329	Date Sampled:	04-07-04
Chain of Custody:	11991	Date Received:	04-07-04
Sample Matrix:	Soil	Date Analyzed:	04-09-04
Preservative:	Cool	Date Extracted:	04-08-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**104**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**2.5**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**107**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**100 %**
	1,4-difluorobenzene	**100 %**
	Bromochlorobenzene	**100 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Tierra Cell 5-Pt. Composite.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Pile 8	Date Reported:	04-09-04
Laboratory Number:	28330	Date Sampled:	04-07-04
Chain of Custody:	11991	Date Received:	04-07-04
Sample Matrix:	Soil	Date Analyzed:	04-09-04
Preservative:	Cool	Date Extracted:	04-08-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**38.5**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**ND**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**38.5**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**100 %**
	1,4-difluorobenzene	**100 %**
	Bromochlorobenzene	**100 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Tierra Cell 5-Pt. Composite.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Pile 10	Date Reported:	04-09-04
Laboratory Number:	28331	Date Sampled:	04-07-04
Chain of Custody:	11991	Date Received:	04-07-04
Sample Matrix:	Soil	Date Analyzed:	04-09-04
Preservative:	Cool	Date Extracted:	04-08-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**ND**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**94 %**
	1,4-difluorobenzene	**94 %**
	Bromochlorobenzene	**94 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Tierra Cell 5-Pt. Composite.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Pile 12	Date Reported:	04-09-04
Laboratory Number:	28332	Date Sampled:	04-07-04
Chain of Custody:	11991	Date Received:	04-07-04
Sample Matrix:	Soil	Date Analyzed:	04-09-04
Preservative:	Cool	Date Extracted:	04-08-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**ND**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**94 %**
	1,4-difluorobenzene	**94 %**
	Bromochlorobenzene	**94 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Tierra Cell 5-Pt. Composite.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	04-09-BTEX QA/QC	Date Reported:	04-09-04
Laboratory Number:	28327	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	04-09-04
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF:	C-Cal RF:	%Diff. Accept. Range 0 - 15%	Blank Conc	Detect. Limit
Benzene	4.2776E-002	4.2905E-002	0.3%	ND	0.2
Toluene	4.8966E-002	4.9064E-002	0.2%	ND	0.2
Ethylbenzene	7.4036E-002	7.4259E-002	0.3%	ND	0.2
p,m-Xylene	6.8275E-002	6.8480E-002	0.3%	ND	0.2
o-Xylene	5.5866E-002	5.5978E-002	0.2%	ND	0.1

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	ND	ND	0.0%	0 - 30%	1.8
Toluene	37.6	36.8	2.1%	0 - 30%	1.7
Ethylbenzene	ND	ND	0.0%	0 - 30%	1.5
p,m-Xylene	48.9	50.8	3.9%	0 - 30%	2.2
o-Xylene	66.5	69.1	3.9%	0 - 30%	1.0

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	50.0	50.0	100.0%	39 - 150
Toluene	37.6	50.0	87.5	99.9%	46 - 148
Ethylbenzene	ND	50.0	50.0	100.0%	32 - 160
p,m-Xylene	48.9	100	148	99.3%	46 - 148
o-Xylene	66.5	50.0	116	99.9%	46 - 148

ND - Parameter not detected at the stated detection limit.

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.
Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: **QA/QC for samples 28327 - 28332.**

Analyst

Review

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CHAIN OF CUSTODY RECORD

11991

Client / Project Name	Project Location	ANALYSIS / PARAMETERS
BLAGG/IEI	TIERRA CELL	
Sampler: J.C. Blagg	Client No. 94034-010	

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TPH 8015	BTEX 8021					Remarks
PILE 2	4-7-04	0940	28327	SOIL	1	X	X					5-Pt. Composite
PILE 4	"	0950	28328	"	1	X	X					"
PILE 6	"	1000	28329	"	1	X	X					"
PILE 8	"	1010	28330	"	1	X	X					"
PILE 10	"	1025	28331	"	1	X	X					"
PILE 12	"	1035	28332	"	1	X	X					"
		PLEASE RUN BTEX ONLY IF TPH <100										

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
J.C. Blagg	4/7/04	1400	[signature]	4/7/04	1400
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

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Sample Receipt	Y	N	N/A
Received Intact	✓		
Cool - Ice/Blue Ice	✓		

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Pile #1	Date Reported:	04-03-04
Laboratory Number:	28276	Date Sampled:	03-31-04
Chain of Custody No:	11970	Date Received:	03-31-04
Sample Matrix:	Soil	Date Extracted:	04-01-04
Preservative:	Cool	Date Analyzed:	04-03-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**1.1**	**0.2**
Diesel Range (C10 - C28)	**71.2**	**0.1**
Total Petroleum Hydrocarbons	**72.3**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ - Tierra Cell 5-Pt. Composite.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Pile #7	Date Reported:	04-03-04
Laboratory Number:	28279	Date Sampled:	03-31-04
Chain of Custody No:	11970	Date Received:	03-31-04
Sample Matrix:	Soil	Date Extracted:	04-01-04
Preservative:	Cool	Date Analyzed:	04-03-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**26.0**	**0.1**
Total Petroleum Hydrocarbons	**26.0**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ - Tierra Cell 5-Pt. Composite.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Pile #9	Date Reported:	04-03-04
Laboratory Number:	28280	Date Sampled:	03-31-04
Chain of Custody No:	11970	Date Received:	03-31-04
Sample Matrix:	Soil	Date Extracted:	04-01-04
Preservative:	Cool	Date Analyzed:	04-03-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**70.8**	**0.1**
Total Petroleum Hydrocarbons	**70.8**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ - Tierra Cell 5-Pt. Composite.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Pile #11	Date Reported:	04-03-04
Laboratory Number:	28281	Date Sampled:	03-31-04
Chain of Custody No:	11970	Date Received:	03-31-04
Sample Matrix:	Soil	Date Extracted:	04-01-04
Preservative:	Cool	Date Analyzed:	04-03-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**55.7**	**0.1**
Total Petroleum Hydrocarbons	**55.7**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ - Tierra Cell 5-Pt. Composite.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	04-03-TPH QA/QC	Date Reported:	04-03-04
Laboratory Number:	28276	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	04-03-04
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept Range
Gasoline Range C5 - C10	02-19-04	1.8591E-002	1.8572E-002	**0.10%**	**0 - 15%**
Diesel Range C10 - C28	02-19-04	1.5507E-002	1.5492E-002	**0.10%**	**0 - 15%**

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	**ND**	**0.2**
Diesel Range C10 - C28	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept Range
Gasoline Range C5 - C10	**1.1**	**1.1**	**0.0%**	**0 - 30%**
Diesel Range C10 - C28	**71.2**	**70.9**	**0.4%**	**0 - 30%**

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept Range
Gasoline Range C5 - C10	**1.1**	**250**	**251**	**99.8%**	**75 - 125%**
Diesel Range C10 - C28	**71.2**	**250**	**321**	**99.8%**	**75 - 125%**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **QA/QC for samples 28276 - 28283.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Pile #1	Date Reported:	04-03-04
Laboratory Number:	28276	Date Sampled:	03-31-04
Chain of Custody:	11970	Date Received:	03-31-04
Sample Matrix:	Soil	Date Analyzed:	04-03-04
Preservative:	Cool	Date Extracted:	04-01-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**6.2**	**1.8**
Toluene	**21.4**	**1.7**
Ethylbenzene	**43.9**	**1.5**
p,m-Xylene	**54.9**	**2.2**
o-Xylene	**34.3**	**1.0**
Total BTEX	**161**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**95 %**
	1,4-difluorobenzene	**95 %**
	Bromochlorobenzene	**95 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ - Tierra Cell 5-Pt. Composite.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Pile #3	Date Reported:	04-03-04
Laboratory Number:	28277	Date Sampled:	03-31-04
Chain of Custody:	11970	Date Received:	03-31-04
Sample Matrix:	Soil	Date Analyzed:	04-03-04
Preservative:	Cool	Date Extracted:	04-01-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**56.2**	**1.7**
Ethylbenzene	**40.3**	**1.5**
p,m-Xylene	**68.2**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**165**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**95 %**
	1,4-difluorobenzene	**95 %**
	Bromochlorobenzene	**95 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ - Tierra Cell 5-Pt. Composite.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Pile #5	Date Reported:	04-03-04
Laboratory Number:	28278	Date Sampled:	03-31-04
Chain of Custody:	11970	Date Received:	03-31-04
Sample Matrix:	Soil	Date Analyzed:	04-03-04
Preservative:	Cool	Date Extracted:	04-01-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**42.2**	**1.7**
Ethylbenzene	**38.3**	**1.5**
p,m-Xylene	**26.8**	**2.2**
o-Xylene	**18.1**	**1.0**
Total BTEX	**125**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**95 %**
	1,4-difluorobenzene	**95 %**
	Bromochlorobenzene	**95 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ - Tierra Cell 5-Pt. Composite.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Pile #7	Date Reported:	04-03-04
Laboratory Number:	28279	Date Sampled:	03-31-04
Chain of Custody:	11970	Date Received:	03-31-04
Sample Matrix:	Soil	Date Analyzed:	04-03-04
Preservative:	Cool	Date Extracted:	04-01-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**14.3**	**1.5**
p,m-Xylene	**18.3**	**2.2**
o-Xylene	**1.2**	**1.0**
Total BTEX	**33.8**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**95 %**
	1,4-difluorobenzene	**95 %**
	Bromochlorobenzene	**95 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ - Tierra Cell 5-Pt. Composite.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Pile #9	Date Reported:	04-03-04
Laboratory Number:	28280	Date Sampled:	03-31-04
Chain of Custody:	11970	Date Received:	03-31-04
Sample Matrix:	Soil	Date Analyzed:	04-03-04
Preservative:	Cool	Date Extracted:	04-01-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**69.1**	**1.7**
Ethylbenzene	**21.2**	**1.5**
p,m-Xylene	**32.4**	**2.2**
o-Xylene	**24.0**	**1.0**
Total BTEX	**147**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**95 %**
	1,4-difluorobenzene	**95 %**
	Bromochlorobenzene	**95 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ - Tierra Cell 5-Pt. Composite.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Pile #11	Date Reported:	04-03-04
Laboratory Number:	28281	Date Sampled:	03-31-04
Chain of Custody:	11970	Date Received:	03-31-04
Sample Matrix:	Soil	Date Analyzed:	04-03-04
Preservative:	Cool	Date Extracted:	04-01-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**39.1**	**1.5**
p,m-Xylene	**45.1**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**84.2**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**96 %**
	1,4-difluorobenzene	**96 %**
	Bromochlorobenzene	**96 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ - Tierra Cell 5-Pt. Composite.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	04-03-BTEX QA/QC	Date Reported:	04-03-04
Laboratory Number:	28276	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	04-03-04
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF:	C-Cal RF:	%Diff. Accept. Range 0 - 15%	Blank Conc.	Detect. Limit
Benzene	4.2776E-002	4.2905E-002	0.3%	ND	0.2
Toluene	4.8966E-002	4.9064E-002	0.2%	ND	0.2
Ethylbenzene	7.4036E-002	7.4259E-002	0.3%	ND	0.2
p,m-Xylene	6.8275E-002	6.8480E-002	0.3%	ND	0.2
o-Xylene	5.5866E-002	5.5978E-002	0.2%	ND	0.1

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	6.2	6.2	0.0%	0 - 30%	1.8
Toluene	21.4	21.0	1.9%	0 - 30%	1.7
Ethylbenzene	43.9	43.0	2.1%	0 - 30%	1.5
p,m-Xylene	54.9	54.3	1.1%	0 - 30%	2.2
o-Xylene	34.3	34.0	0.9%	0 - 30%	1.0

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	6.2	50.0	56.1	99.8%	39 - 150
Toluene	21.4	50.0	71.3	99.9%	46 - 148
Ethylbenzene	43.9	50.0	93.7	99.8%	32 - 160
p,m-Xylene	54.9	100	154	99.3%	46 - 148
o-Xylene	34.3	50.0	84.2	99.9%	46 - 148

ND - Parameter not detected at the stated detection limit.

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.
Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: **QA/QC for samples 28276 - 28283.**

Analyst

Review

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CHAIN OF CUSTODY RECORD

11970

Client / Project Name	Project Location	ANALYSIS / PARAMETERS
BLAGG/IEI	JFJ - TIERRA CELL	

Sampler:	Client No.
J. C. Blagg	94034-010

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TPH 8015	BTEX 8021					Remarks
PILE #1	3/31/04	1125	28276	SOIL	1	X	X					5-Pt. Composite
PILE #3	"	1135	28277	"	1	X	X					"
PILE #5	"	1146	28278	"	1	X	X					"
PILE #7	"	1156	28279	"	1	X	X					"
PILE #9	"	1208	28280	"	1	X	X					"
PILE #11	"	1217	28281	"	1	X	X					"
			PLEASE RUN BTEX ONLY IF TPH < 100									

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
J. C. Blagg	3/31/04	1239	Christine M Walters	3/31/04	12:39
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

ENVIROTECH INC.

5796 U.S. Highway 64
Farmington, New Mexico 87401
(505) 632-0615

Sample Receipt	Y	N	N/A
Received Intact	✓		
Cool - Ice/Blue Ice	✓		

Industrial Ecosystems Inc.
Soil Reclamation Center

P.O. Box 2043
Farmington, NM 87499

Phone: (505) 632-1782
Fax: (505) 632-1876

#81 CR 3150
Aztec, NM 87410

April 26, 2004

New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

RECEIVED
APR 2 8 2004
OIL CONSERVATION
DIVISION

RE: Reclaimed soil

Attn: Martyne Kieling

Dear Martyne:

Recent analytical results show that several piles containing hydrocarbon impacted soil have reached acceptable levels as required by the NMOCD.

The following biopiles have reached the acceptable levels:

Pile # 50 from BP Marsh Pass/ BP Delta Environmental
Pile # 39 from BP NYE GUB #1E
Pile # 70 from GCU 235 E
Pile # 56 from BP Sullivan GCU #1
Pile # 29 from BP Key Pipe Yard
Pile # 75 from BP GCU 1105 DK
Pile # 67 from BP Florance A #16
Pile # 34 from BP GCU 134 DK
Pile # 2 from BP Gartner A #16

We are seeking your approval to recycle this soil by using it as mix material to solidify incoming tank bottom sludge and material to recondition existing berms within the JFJ Facility.

Please find the enclosed analytical reports for these biopiles.

Thanks in advance

James (Jake) Hatcher
Manager JFJ Landfarms (permit # NM 01 0010B J.F.J Landfarms LLC)

Cc: Denny Foust

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Pile 50	Date Reported:	04-03-04
Laboratory Number:	28266	Date Sampled:	03-30-04
Chain of Custody No:	11966	Date Received:	03-30-04
Sample Matrix:	Soil	Date Extracted:	03-31-04
Preservative:	Cool	Date Analyzed:	04-02-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **BP Crouch Mesa L.F. 5-Pt. Composite.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Pile 39	Date Reported:	04-03-04
Laboratory Number:	28267	Date Sampled:	03-30-04
Chain of Custody No:	11966	Date Received:	03-30-04
Sample Matrix:	Soil	Date Extracted:	03-31-04
Preservative:	Cool	Date Analyzed:	04-02-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **BP Crouch Mesa L.F. 5-Pt. Composite.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Pile 70	Date Reported:	04-03-04
Laboratory Number:	28268	Date Sampled:	03-30-04
Chain of Custody No:	11966	Date Received:	03-30-04
Sample Matrix:	Soil	Date Extracted:	03-31-04
Preservative:	Cool	Date Analyzed:	04-02-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**5.0**	**0.1**
Total Petroleum Hydrocarbons	**5.0**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **BP Crouch Mesa L.F. 5-Pt. Composite.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Pile 56	Date Reported:	04-03-04
Laboratory Number:	28269	Date Sampled:	03-30-04
Chain of Custody No:	11966	Date Received:	03-30-04
Sample Matrix:	Soil	Date Extracted:	03-31-04
Preservative:	Cool	Date Analyzed:	04-02-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **BP Crouch Mesa L.F. 5-Pt. Composite.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Pile 29	Date Reported:	04-03-04
Laboratory Number:	28270	Date Sampled:	03-30-04
Chain of Custody No:	11966	Date Received:	03-30-04
Sample Matrix:	Soil	Date Extracted:	03-31-04
Preservative:	Cool	Date Analyzed:	04-02-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **BP Crouch Mesa L.F. 5-Pt. Composite.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Pile 75	Date Reported:	04-03-04
Laboratory Number:	28271	Date Sampled:	03-30-04
Chain of Custody No:	11966	Date Received:	03-30-04
Sample Matrix:	Soil	Date Extracted:	03-31-04
Preservative:	Cool	Date Analyzed:	04-02-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**4.5**	**0.1**
Total Petroleum Hydrocarbons	**4.5**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **BP Crouch Mesa L.F. 5-Pt. Composite.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Pile 67	Date Reported:	04-03-04
Laboratory Number:	28272	Date Sampled:	03-30-04
Chain of Custody No:	11966	Date Received:	03-30-04
Sample Matrix:	Soil	Date Extracted:	03-31-04
Preservative:	Cool	Date Analyzed:	04-02-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**13.1**	**0.1**
Total Petroleum Hydrocarbons	**13.1**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **BP Crouch Mesa L.F. 5-Pt. Composite.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Pile 34	Date Reported:	04-03-04
Laboratory Number:	28273	Date Sampled:	03-30-04
Chain of Custody No:	11966	Date Received:	03-30-04
Sample Matrix:	Soil	Date Extracted:	03-31-04
Preservative:	Cool	Date Analyzed:	04-02-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**8.9**	**0.1**
Total Petroleum Hydrocarbons	**8.9**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **BP Crouch Mesa L.F. 5-Pt. Composite.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Pile 2	Date Reported:	04-03-04
Laboratory Number:	28274	Date Sampled:	03-30-04
Chain of Custody No:	11966	Date Received:	03-30-04
Sample Matrix:	Soil	Date Extracted:	03-31-04
Preservative:	Cool	Date Analyzed:	04-02-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**11.5**	**0.1**
Total Petroleum Hydrocarbons	**11.5**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **BP Crouch Mesa L.F. 5-Pt. Composite.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	04-02-TPH QA/QC	Date Reported:	04-03-04
Laboratory Number:	28266	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	04-02-04
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
Gasoline Range C5 - C10	02-19-04	1.8591E-002	1.8572E-002	**0.10%**	**0 - 15%**
Diesel Range C10 - C28	02-19-04	1.5507E-002	1.5492E-002	**0.10%**	**0 - 15%**

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	**ND**	**0.2**
Diesel Range C10 - C28	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	**ND**	**ND**	**0.0%**	**0 - 30%**
Diesel Range C10 - C28	**ND**	**ND**	**0.0%**	**0 - 30%**

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	**ND**	**250**	**250**	**100.0%**	**75 - 125%**
Diesel Range C10 - C28	**ND**	**250**	**250**	**100.0%**	**75 - 125%**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **QA/QC for samples 28266 - 28274.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Pile 50	Date Reported:	04-03-04
Laboratory Number:	28266	Date Sampled:	03-30-04
Chain of Custody:	11966	Date Received:	03-30-04
Sample Matrix:	Soil	Date Analyzed:	04-02-04
Preservative:	Cool	Date Extracted:	03-31-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**ND**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**95 %**
	1,4-difluorobenzene	**95 %**
	Bromochlorobenzene	**95 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **BP Crouch Mesa L.F. 5-Pt. Composite.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Pile 39	Date Reported:	04-03-04
Laboratory Number:	28267	Date Sampled:	03-30-04
Chain of Custody:	11966	Date Received:	03-30-04
Sample Matrix:	Soil	Date Analyzed:	04-02-04
Preservative:	Cool	Date Extracted:	03-31-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**ND**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**96 %**
	1,4-difluorobenzene	**96 %**
	Bromochlorobenzene	**96 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **BP Crouch Mesa L.F. 5-Pt. Composite.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Pile 70	Date Reported:	04-03-04
Laboratory Number:	28268	Date Sampled:	03-30-04
Chain of Custody:	11966	Date Received:	03-30-04
Sample Matrix:	Soil	Date Analyzed:	04-02-04
Preservative:	Cool	Date Extracted:	03-31-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**ND**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**96 %**
	1,4-difluorobenzene	**96 %**
	Bromochlorobenzene	**96 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **BP Crouch Mesa L.F. 5-Pt. Composite.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Pile 56	Date Reported:	04-03-04
Laboratory Number:	28269	Date Sampled:	03-30-04
Chain of Custody:	11966	Date Received:	03-30-04
Sample Matrix:	Soil	Date Analyzed:	04-02-04
Preservative:	Cool	Date Extracted:	03-31-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**ND**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**96 %**
	1,4-difluorobenzene	**96 %**
	Bromochlorobenzene	**96 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **BP Crouch Mesa L.F. 5-Pt. Composite.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Pile 29	Date Reported:	04-03-04
Laboratory Number:	28270	Date Sampled:	03-30-04
Chain of Custody:	11966	Date Received:	03-30-04
Sample Matrix:	Soil	Date Analyzed:	04-02-04
Preservative:	Cool	Date Extracted:	03-31-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**ND**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**96 %**
	1,4-difluorobenzene	**96 %**
	Bromochlorobenzene	**96 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **BP Crouch Mesa L.F. 5-Pt. Composite.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Pile 75	Date Reported:	04-03-04
Laboratory Number:	28271	Date Sampled:	03-30-04
Chain of Custody:	11966	Date Received:	03-30-04
Sample Matrix:	Soil	Date Analyzed:	04-02-04
Preservative:	Cool	Date Extracted:	03-31-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**ND**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**96 %**
	1,4-difluorobenzene	**96 %**
	Bromochlorobenzene	**96 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **BP Crouch Mesa L.F. 5-Pt. Composite.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Pile 67	Date Reported:	04-03-04
Laboratory Number:	28272	Date Sampled:	03-30-04
Chain of Custody:	11966	Date Received:	03-30-04
Sample Matrix:	Soil	Date Analyzed:	04-02-04
Preservative:	Cool	Date Extracted:	03-31-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**ND**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**96 %**
	1,4-difluorobenzene	**96 %**
	Bromochlorobenzene	**96 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

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EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Pile 34	Date Reported:	04-03-04
Laboratory Number:	28273	Date Sampled:	03-30-04
Chain of Custody:	11966	Date Received:	03-30-04
Sample Matrix:	Soil	Date Analyzed:	04-02-04
Preservative:	Cool	Date Extracted:	03-31-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**ND**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**97 %**
	1,4-difluorobenzene	**97 %**
	Bromochlorobenzene	**97 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **BP Crouch Mesa L.F. 5-Pt. Composite.**

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EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Pile 2	Date Reported:	04-03-04
Laboratory Number:	28274	Date Sampled:	03-30-04
Chain of Custody:	11966	Date Received:	03-30-04
Sample Matrix:	Soil	Date Analyzed:	04-02-04
Preservative:	Cool	Date Extracted:	03-31-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**ND**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**97 %**
	1,4-difluorobenzene	**97 %**
	Bromochlorobenzene	**97 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **BP Crouch Mesa L.F. 5-Pt. Composite.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	04-02-BTEX QA/QC	Date Reported:	04-03-04
Laboratory Number:	28266	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	04-02-04
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF:	C-Cal RF:	%Diff. Accept. Range 0 - 15%	Blank Conc	Detect. Limit
Benzene	4.2776E-002	4.2905E-002	0.3%	ND	0.2
Toluene	4.8966E-002	4.9064E-002	0.2%	ND	0.2
Ethylbenzene	7.4036E-002	7.4259E-002	0.3%	ND	0.2
p,m-Xylene	6.8275E-002	6.8480E-002	0.3%	ND	0.2
o-Xylene	5.5866E-002	5.5978E-002	0.2%	ND	0.1

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	ND	ND	0.0%	0 - 30%	1.8
Toluene	ND	ND	0.0%	0 - 30%	1.7
Ethylbenzene	ND	ND	0.0%	0 - 30%	1.5
p,m-Xylene	ND	ND	0.0%	0 - 30%	2.2
o-Xylene	ND	ND	0.0%	0 - 30%	1.0

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	50.0	49.9	99.8%	39 - 150
Toluene	ND	50.0	49.9	99.8%	46 - 148
Ethylbenzene	ND	50.0	49.9	99.8%	32 - 160
p,m-Xylene	ND	100	99.9	99.9%	46 - 148
o-Xylene	ND	50.0	49.9	99.8%	46 - 148

ND - Parameter not detected at the stated detection limit.

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.
Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: **QA/QC for samples 28266 - 28274.**

Analyst

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CHAIN OF CUSTODY RECORD

11966

Client / Project Name	Project Location
BLAGG/IEI	BP CROUCH MESA L.F.

Sampler:	Client No.
J C Blagg	94034-010

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TPH 8015	BTEX 8021	PLEASE RUN BTEX ONLY	Remarks: IF TPH <100
PILE 50	3/3/04	1155	28266	SOIL	1	X	X		5-Pt. Composite
PILE 39	"	1200	28267	"	1	X	X		"
PILE 70	"	1030	28268	"	1	X	X		"
PILE 56	"	1047	28269	"	1	X	X		"
PILE 29	"	1040	28270	"	1	X	X		"
PILE 75	"	1035	28271	"	1	X	X		"
PILE 67	"	1205	28272	"	1	X	X		"
PILE 34	"	1215	28273	"	1	X	X		"
PILE 2	"	1210	28274	"	1	X	X		"

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
J C Blagg	3/30/04	1445	Glenn E. Spruce	5/30/04	1445
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

ENVIROTECH INC.

5796 U.S. Highway 64
Farmington, New Mexico 87401
(505) 632-0615

Sample Receipt	Y	N	N/A
Received Intact	✓		
Cool - Ice/Blue Ice	✓		

Industrial Ecosystems Inc.
Soil Reclamation Center

P.O. Box 2043
Farmington, NM 87499

Phone: (505) 632-1782
Fax: (505) 632-1876

#81 CR 3150
Aztec, NM 87410

April 19, 2004

New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

RE: Reclaimed soil

Attn: Martyne Kieling

Dear Martyne:

Recent analytical results show that several piles containing hydrocarbon impacted soil have reached acceptable levels as required by the NMOCD.

The following biopiles have reached the acceptable levels:

Pile # 16 Community Pile from Burlington, Breck Operating, and S&G Interest
Pile # 0 from Basin Disposal Facility
Pile # 226 from XTO Schwfertsberger #15
Pile # 204 from Basin Disposal Facility

We are seeking your approval to recycle this soil by using it as mix material to solidify incoming tank bottom sludge and material to recondition existing berms within the JFJ Facility.

Please find the enclosed analytical reports for these biopiles.

Thanks in advance

James (Jake) Hatcher
Manager JFJ Landfarms (permit # NM 01 0010B J.F.J Landfarms LLC)

Cc: Denny Foust

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Pile 16	Date Reported:	04-08-04
Laboratory Number:	28323	Date Sampled:	04-07-04
Chain of Custody No:	11990	Date Received:	04-07-04
Sample Matrix:	Soil	Date Extracted:	04-08-04
Preservative:	Cool	Date Analyzed:	04-08-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**0.6**	**0.2**
Diesel Range (C10 - C28)	**3.1**	**0.1**
Total Petroleum Hydrocarbons	**3.7**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 5-Pt. Composite.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Pile 0	Date Reported:	04-08-04
Laboratory Number:	28324	Date Sampled:	04-07-04
Chain of Custody No:	11990	Date Received:	04-07-04
Sample Matrix:	Soil	Date Extracted:	04-08-04
Preservative:	Cool	Date Analyzed:	04-08-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**0.8**	**0.1**
Total Petroleum Hydrocarbons	**0.8**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 5-Pt. Composite.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Pile 226	Date Reported:	04-08-04
Laboratory Number:	28325	Date Sampled:	04-07-04
Chain of Custody No:	11990	Date Received:	04-07-04
Sample Matrix:	Soil	Date Extracted:	04-08-04
Preservative:	Cool	Date Analyzed:	04-08-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**26.3**	**0.2**
Diesel Range (C10 - C28)	**68.0**	**0.1**
Total Petroleum Hydrocarbons	**94.3**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 5-Pt. Composite.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Pile 204	Date Reported:	04-08-04
Laboratory Number:	28326	Date Sampled:	04-07-04
Chain of Custody No:	11990	Date Received:	04-07-04
Sample Matrix:	Soil	Date Extracted:	04-08-04
Preservative:	Cool	Date Analyzed:	04-08-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**0.5**	**0.2**
Diesel Range (C10 - C28)	**1.5**	**0.1**
Total Petroleum Hydrocarbons	**2.0**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 5-Pt. Composite.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	04-08-TPH QA/QC	Date Reported:	04-08-04
Laboratory Number:	28322	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	04-08-04
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
Gasoline Range C5 - C10	02-19-04	1.8591E-002	1.8572E-002	**0.10%**	**0 - 15%**
Diesel Range C10 - C28	02-19-04	1.5507E-002	1.5492E-002	**0.10%**	**0 - 15%**

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	**ND**	**0.2**
Diesel Range C10 - C28	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	**3.3**	**3.3**	**0.0%**	**0 - 30%**
Diesel Range C10 - C28	**6.0**	**6.0**	**0.0%**	**0 - 30%**

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	**3.3**	**250**	**253**	**99.8%**	**75 - 125%**
Diesel Range C10 - C28	**6.0**	**250**	**256**	**100.0%**	**75 - 125%**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **QA/QC for samples 28322 - 28326.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Pile 16	Date Reported:	04-08-04
Laboratory Number:	28323	Date Sampled:	04-07-04
Chain of Custody:	11990	Date Received:	04-07-04
Sample Matrix:	Soil	Date Analyzed:	04-08-04
Preservative:	Cool	Date Extracted:	04-08-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**56.4**	**1.5**
p,m-Xylene	**173**	**2.2**
o-Xylene	**94.9**	**1.0**
Total BTEX	**324**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**97 %**
	1,4-difluorobenzene	**97 %**
	Bromochlorobenzene	**97 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 5-Pt. Composite.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Pile 0	Date Reported:	04-08-04
Laboratory Number:	28324	Date Sampled:	04-07-04
Chain of Custody:	11990	Date Received:	04-07-04
Sample Matrix:	Soil	Date Analyzed:	04-08-04
Preservative:	Cool	Date Extracted:	04-08-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**10.6**	**1.5**
p,m-Xylene	**12.2**	**2.2**
o-Xylene	**7.6**	**1.0**
Total BTEX	**30.4**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**96 %**
	1,4-difluorobenzene	**96 %**
	Bromochlorobenzene	**96 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 5-Pt. Composite.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Pile 226	Date Reported:	04-08-04
Laboratory Number:	28325	Date Sampled:	04-07-04
Chain of Custody:	11990	Date Received:	04-07-04
Sample Matrix:	Soil	Date Analyzed:	04-08-04
Preservative:	Cool	Date Extracted:	04-08-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**126**	**1.7**
Ethylbenzene	**67.4**	**1.5**
p,m-Xylene	**361**	**2.2**
o-Xylene	**200**	**1.0**
Total BTEX	**754**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**96 %**
	1,4-difluorobenzene	**96 %**
	Bromochlorobenzene	**96 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 5-Pt. Composite.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Pile 204	Date Reported:	04-08-04
Laboratory Number:	28326	Date Sampled:	04-07-04
Chain of Custody:	11990	Date Received:	04-07-04
Sample Matrix:	Soil	Date Analyzed:	04-08-04
Preservative:	Cool	Date Extracted:	04-08-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**9.5**	**1.7**
Ethylbenzene	**30.6**	**1.5**
p,m-Xylene	**249**	**2.2**
o-Xylene	**72.0**	**1.0**
Total BTEX	**361**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**96 %**
	1,4-difluorobenzene	**96 %**
	Bromochlorobenzene	**96 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 5-Pt. Composite.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	04-08-BTEX QA/QC	Date Reported:	04-08-04
Laboratory Number:	28322	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	04-08-04
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF:	C-Cal RF:	%Diff. Accept. Range 0 - 15%	Blank Conc	Detect. Limit
Benzene	4.2776E-002	4.2905E-002	0.3%	ND	0.2
Toluene	4.8966E-002	4.9064E-002	0.2%	ND	0.2
Ethylbenzene	7.4036E-002	7.4259E-002	0.3%	ND	0.2
p,m-Xylene	6.8275E-002	6.8480E-002	0.3%	ND	0.2
o-Xylene	5.5866E-002	5.5978E-002	0.2%	ND	0.1

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	36.9	36.8	0.3%	0 - 30%	1.8
Toluene	479	469	2.0%	0 - 30%	1.7
Ethylbenzene	447	438	2.0%	0 - 30%	1.5
p,m-Xylene	1,080	1,080	0.0%	0 - 30%	2.2
o-Xylene	470	469	0.2%	0 - 30%	1.0

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	36.9	50.0	86.8	99.9%	39 - 150
Toluene	479	50.0	528	99.8%	46 - 148
Ethylbenzene	447	50.0	496	99.8%	32 - 160
p,m-Xylene	1,080	100	1,170	99.2%	46 - 148
o-Xylene	470	50.0	519	99.8%	46 - 148

ND - Parameter not detected at the stated detection limit.

References:
Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.
Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: **QA/QC for samples 28322 - 28326.**

Analyst

Review

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CHAIN OF CUSTODY RECORD

11990

Client / Project Name	Project Location
BLAGG/IEI	JFJ LANDFARM

Sampler:	Client No.
J-C-Blagg	94034-010

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TPH 8015	BTEX 8021					Remarks
PILE 16	4/7/04	0950	28323	SOIL	1	X	X					5-PT. COMPOSITE
PILE 0	"	0912	28324	"	1	X	X					"
PILE 226	"	0919	28325	"	1	X	X					"
PILE 204	"	0930	28326	"	1	X	X					"

ANALYSIS / PARAMETERS

PLEASE ONLY RUN BTEX IF TPH < 100

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
J-C-Blagg	4-7-04	1400	Jennifer C. Ogburn	4/7/04	1400
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

ENVIROTECH INC.

5796 U.S. Highway 64
Farmington, New Mexico 87401
(505) 632-0615

Sample Receipt	Y	N	N/A
Received Intact	✓		
Cool - Ice/Blue Ice	✓		

Industrial Ecosystems Inc.
Soil Reclamation Center

P.O. Box 2043
Farmington, NM 87499

Phone: (505) 632-1782
Fax: (505) 632-1876

#81 CR 3150
Aztec, NM 87410

April 6, 2004

New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

RE: Reclaimed soil

Attn: Martyne Kieling

Dear Martyne:

Recent analytical results show that several piles containing hydrocarbon impacted soil have reached acceptable levels as required by the NMOCD.

The following biopiles have reached the acceptable levels:

Pile # 54 from BP GCU 306
Pile # 3 from BP Shiprock
Pile # 100 from BP Pesco Yard
Pile # 5 from BP GCU 134 DK
Pile # 99 from BP Pesco Yard
Pile # 14 from BP Sammons Gas Com f#1
Pile # 6 from BP Atlantic 007
Pile # 1 from BP Blowback tank

We are seeking your approval to recycle this soil by using it as mix material to solidify incoming tank bottom sludge and material to recondition existing berms within the JFJ Facility.

Please find the enclosed analytical reports for these biopiles.

Thanks in advance

James (Jake) Hatcher
Manager JFJ Landfarms (permit # NM 01 0010B J.F.J Landfarms LLC)

Cc: Denny Foust

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Pile 54	Date Reported:	04-02-04
Laboratory Number:	28258	Date Sampled:	03-30-04
Chain of Custody No:	11965	Date Received:	03-30-04
Sample Matrix:	Soil	Date Extracted:	03-31-04
Preservative:	Cool	Date Analyzed:	04-02-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **BP Crouch Mesa L.F. 5-Pt. Composite.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Pile 3	Date Reported:	04-02-04
Laboratory Number:	28259	Date Sampled:	03-30-04
Chain of Custody No:	11965	Date Received:	03-30-04
Sample Matrix:	Soil	Date Extracted:	03-31-04
Preservative:	Cool	Date Analyzed:	04-02-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **BP Crouch Mesa L.F. 5-Pt. Composite.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Pile 100	Date Reported:	04-02-04
Laboratory Number:	28260	Date Sampled:	03-30-04
Chain of Custody No:	11965	Date Received:	03-30-04
Sample Matrix:	Soil	Date Extracted:	03-31-04
Preservative:	Cool	Date Analyzed:	04-02-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **BP Crouch Mesa L.F. 5-Pt. Composite.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Pile 5	Date Reported:	04-02-04
Laboratory Number:	28261	Date Sampled:	03-30-04
Chain of Custody No:	11965	Date Received:	03-30-04
Sample Matrix:	Soil	Date Extracted:	03-31-04
Preservative:	Cool	Date Analyzed:	04-02-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **BP Crouch Mesa L.F. 5-Pt. Composite.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Pile 99	Date Reported:	04-02-04
Laboratory Number:	28262	Date Sampled:	03-30-04
Chain of Custody No:	11965	Date Received:	03-30-04
Sample Matrix:	Soil	Date Extracted:	03-31-04
Preservative:	Cool	Date Analyzed:	04-02-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **BP Crouch Mesa L.F. 5-Pt. Composite.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Pile 14	Date Reported:	04-02-04
Laboratory Number:	28263	Date Sampled:	03-30-04
Chain of Custody No:	11965	Date Received:	03-30-04
Sample Matrix:	Soil	Date Extracted:	03-31-04
Preservative:	Cool	Date Analyzed:	04-02-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **BP Crouch Mesa L.F. 5-Pt. Composite.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Pile 6	Date Reported:	04-02-04
Laboratory Number:	28264	Date Sampled:	03-30-04
Chain of Custody No:	11965	Date Received:	03-30-04
Sample Matrix:	Soil	Date Extracted:	03-31-04
Preservative:	Cool	Date Analyzed:	04-02-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **BP Crouch Mesa L.F. 5-Pt. Composite.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Pile 1	Date Reported:	04-02-04
Laboratory Number:	28265	Date Sampled:	03-30-04
Chain of Custody No:	11965	Date Received:	03-30-04
Sample Matrix:	Soil	Date Extracted:	03-31-04
Preservative:	Cool	Date Analyzed:	04-02-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **BP Crouch Mesa L.F. 5-Pt. Composite.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	04-02-TPH QA/QC	Date Reported:	04-02-04
Laboratory Number:	28258	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	04-02-04
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
Gasoline Range C5 - C10	02-19-04	1.8591E-002	1.8572E-002	**0.10%**	**0 - 15%**
Diesel Range C10 - C28	02-19-04	1.5507E-002	1.5492E-002	**0.10%**	**0 - 15%**

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	**ND**	**0.2**
Diesel Range C10 - C28	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	**ND**	**ND**	**0.0%**	**0 - 30%**
Diesel Range C10 - C28	**ND**	**ND**	**0.0%**	**0 - 30%**

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	**ND**	**250**	**250**	**100.0%**	**75 - 125%**
Diesel Range C10 - C28	**ND**	**250**	**250**	**100.0%**	**75 - 125%**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **QA/QC for samples 28258 - 28265, 28284 - 28285.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Pile 54	Date Reported:	04-02-04
Laboratory Number:	28258	Date Sampled:	03-30-04
Chain of Custody:	11965	Date Received:	03-30-04
Sample Matrix:	Soil	Date Analyzed:	04-02-04
Preservative:	Cool	Date Extracted:	03-31-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**75.9**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**2.9**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**78.8**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**95 %**
	1,4-difluorobenzene	**95 %**
	Bromochlorobenzene	**95 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **BP Crouch Mesa L.F. 5-Pt. Composite.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Pile 3	Date Reported:	04-02-04
Laboratory Number:	28259	Date Sampled:	03-30-04
Chain of Custody:	11965	Date Received:	03-30-04
Sample Matrix:	Soil	Date Analyzed:	04-02-04
Preservative:	Cool	Date Extracted:	03-31-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**72.7**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**12.1**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**84.8**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**96 %**
	1,4-difluorobenzene	**96 %**
	Bromochlorobenzene	**96 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **BP Crouch Mesa L.F. 5-Pt. Composite.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Pile 100	Date Reported:	04-02-04
Laboratory Number:	28260	Date Sampled:	03-30-04
Chain of Custody:	11965	Date Received:	03-30-04
Sample Matrix:	Soil	Date Analyzed:	04-02-04
Preservative:	Cool	Date Extracted:	03-31-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**92.3**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**3.8**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**96.1**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**96 %**
	1,4-difluorobenzene	**96 %**
	Bromochlorobenzene	**96 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **BP Crouch Mesa L.F. 5-Pt. Composite.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Pile 5	Date Reported:	04-02-04
Laboratory Number:	28261	Date Sampled:	03-30-04
Chain of Custody:	11965	Date Received:	03-30-04
Sample Matrix:	Soil	Date Analyzed:	04-02-04
Preservative:	Cool	Date Extracted:	03-31-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**ND**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**96 %**
	1,4-difluorobenzene	**96 %**
	Bromochlorobenzene	**96 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **BP Crouch Mesa L.F. 5-Pt. Composite.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Pile 99	Date Reported:	04-02-04
Laboratory Number:	28262	Date Sampled:	03-30-04
Chain of Custody:	11965	Date Received:	03-30-04
Sample Matrix:	Soil	Date Analyzed:	04-02-04
Preservative:	Cool	Date Extracted:	03-31-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**ND**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**96 %**
	1,4-difluorobenzene	**96 %**
	Bromochlorobenzene	**96 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **BP Crouch Mesa L.F. 5-Pt. Composite.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Pile 14	Date Reported:	04-02-04
Laboratory Number:	28263	Date Sampled:	03-30-04
Chain of Custody:	11965	Date Received:	03-30-04
Sample Matrix:	Soil	Date Analyzed:	04-02-04
Preservative:	Cool	Date Extracted:	03-31-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**ND**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**96 %**
	1,4-difluorobenzene	**96 %**
	Bromochlorobenzene	**96 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **BP Crouch Mesa L.F. 5-Pt. Composite.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Pile 6	Date Reported:	04-02-04
Laboratory Number:	28264	Date Sampled:	03-30-04
Chain of Custody:	11965	Date Received:	03-30-04
Sample Matrix:	Soil	Date Analyzed:	04-02-04
Preservative:	Cool	Date Extracted:	03-31-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**ND**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**96 %**
	1,4-difluorobenzene	**96 %**
	Bromochlorobenzene	**96 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **BP Crouch Mesa L.F. 5-Pt. Composite.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Pile 1	Date Reported:	04-02-04
Laboratory Number:	28265	Date Sampled:	03-30-04
Chain of Custody:	11965	Date Received:	03-30-04
Sample Matrix:	Soil	Date Analyzed:	04-02-04
Preservative:	Cool	Date Extracted:	03-31-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**ND**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**96 %**
	1,4-difluorobenzene	**96 %**
	Bromochlorobenzene	**96 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **BP Crouch Mesa L.F. 5-Pt. Composite.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	04-02-BTEX QA/QC	Date Reported:	04-02-04
Laboratory Number:	28258	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	04-02-04
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF:	C-Cal RF:	%Diff. Accept. Range 0 - 15%	Blank Conc	Detect. Limit
Benzene	4.2776E-002	4.2905E-002	0.3%	ND	0.2
Toluene	4.8966E-002	4.9064E-002	0.2%	ND	0.2
Ethylbenzene	7.4036E-002	7.4259E-002	0.3%	ND	0.2
p,m-Xylene	6.8275E-002	6.8480E-002	0.3%	ND	0.2
o-Xylene	5.5866E-002	5.5978E-002	0.2%	ND	0.1

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	ND	ND	0.0%	0 - 30%	1.8
Toluene	75.9	74.3	2.1%	0 - 30%	1.7
Ethylbenzene	ND	ND	0.0%	0 - 30%	1.5
p,m-Xylene	2.9	2.9	0.0%	0 - 30%	2.2
o-Xylene	ND	ND	0.0%	0 - 30%	1.0

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	50.0	49.9	99.8%	39 - 150
Toluene	75.9	50.0	125	99.0%	46 - 148
Ethylbenzene	ND	50.0	49.9	99.8%	32 - 160
p,m-Xylene	2.9	100	102	99.0%	46 - 148
o-Xylene	ND	50.0	50.0	100.0%	46 - 148

ND - Parameter not detected at the stated detection limit.

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.
Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: **QA/QC for samples 28258 - 28265, 28285.**

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CHAIN OF CUSTODY RECORD

11965

Client / Project Name	Project Location
BLAGG / IEI	BP CROUCH MESA L.F.
Sampler: J.C. Blagg	Client No. 94034-010

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TPH 8015	BTEX 8021	PLEASE RUN BTEX ONLY				Remarks
												IF TPH < 100
PILE 54	3/30/04	1135	28258	SOIL	1	X	X		"			5-Pt. Composite
PILE 3	"	1116	28259	"	1	X	X		"			"
PILE 100	"	1102	28260	"	1	X	X		"			"
PILE 5	"	1053	28261	"	1	X	X		"			"
PILE 99	"	1123	28262	"	1	X	X		"			"
PILE 14	"	1147	28263	"	1	X	X		"			"
PILE 6	"	1100	28264	"	1	X	X		"			"
PILE 1	"	1140	28265	"	1	X	X		"			"

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
J.C. Blagg	3/30/04	1445	Dawn C. Aguirre	3/30/04	1445
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

ENVIROTECH INC.

5796 U.S. Highway 64
Farmington, New Mexico 87401
(505) 632-0615

Sample Receipt	Y	N	N/A
Received Intact	✓		
Cool - Ice/Blue Ice	✓		

RECEIVED
MAR 0 1 2004
Environmental Bureau
Oil Conservation Division

INDUSTRIAL ECOSYSTEMS INC.
P.O. Box 2043
Farmington, NM
87499
PH: 505 632 1782
Fax: 505 632 1876

February 23, 2004

New Mexico Oil Conservation Division
1220 South ST. Francis Drive
Santa Fe, New Mexico 87505

RE: Reclaimed soil

Attn. Martyne Kieling

Dear Martyne:

Recent analytical results show that biopile # 202, Hydrocarbon impacted soil from the Basin Disposal Facility has reached acceptable levels as required by the N.M.O.C.D.

We are seeking your approval to recycle this soil by using it as mix material to solidify incoming tank bottom sludge, and material to recondition existing berms within the JFJ Facility.

Please find enclosed the analytical reports for this biopile.

Thanks in advance

James Hatcher

James (Jake) Hatcher
Manager JFJ Landfarms (permit # NM 01 0010B J.F.J. Landfarms L.L.C

cc: Denny Foust

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg	Project #:	94034-010
Sample ID:	Pile #202	Date Reported:	01-16-04
Laboratory Number:	27544	Date Sampled:	01-14-04
Chain of Custody No:	11738	Date Received:	01-14-04
Sample Matrix:	Soil	Date Extracted:	01-15-04
Preservative:	Cool	Date Analyzed:	01-16-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**30.0**	**0.1**
Total Petroleum Hydrocarbons	**30.0**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ L.F. 5 Pt. Comp.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	01-16-TPH QA/QC	Date Reported:	01-16-04
Laboratory Number:	27544	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	01-16-04
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF	C-Cal RF	% Difference	Accept. Range
Gasoline Range C5 - C10	04-29-03	1.8591E-002	1.8572E-002	**0.10%**	**0 - 15%**
Diesel Range C10 - C28	04-29-03	1.5507E-002	1.5492E-002	**0.10%**	**0 - 15%**

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	**ND**	**0.2**
Diesel Range C10 - C28	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	**ND**	**ND**	**0.0%**	**0 - 30%**
Diesel Range C10 - C28	**30.0**	**29.9**	**0.3%**	**0 - 30%**

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	**ND**	**250**	**250**	**100.0%**	**75 - 125%**
Diesel Range C10 - C28	**30.0**	**250**	**279**	**99.8%**	**75 - 125%**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **QA/QC for samples 27544 - 27553.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg	Project #:	94034-010
Sample ID:	Pile #202	Date Reported:	01-16-04
Laboratory Number:	27544	Date Sampled:	01-14-04
Chain of Custody:	11738	Date Received:	01-14-04
Sample Matrix:	Soil	Date Analyzed:	01-16-04
Preservative:	Cool	Date Extracted:	01-15-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**ND**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**95 %**
	1,4-difluorobenzene	**95 %**
	Bromochlorobenzene	**95 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ L.F. 5 Pt. Comp.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	01-16-BTEX QA/QC	Date Reported:	01-16-04
Laboratory Number:	27544	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	01-16-04
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF:	C-Cal RF:	%Diff. Accept. Range 0 - 15%	Blank Conc.	Detect. Limit
Benzene	4.2776E-002	4.2905E-002	0.3%	ND	0.2
Toluene	4.8966E-002	4.9064E-002	0.2%	ND	0.2
Ethylbenzene	7.4036E-002	7.4259E-002	0.3%	ND	0.2
p,m-Xylene	6.8275E-002	6.8480E-002	0.3%	ND	0.2
o-Xylene	5.5866E-002	5.5978E-002	0.2%	ND	0.1

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept. Range	Detect. Limit
Benzene	ND	ND	0.0%	0 - 30%	1.8
Toluene	ND	ND	0.0%	0 - 30%	1.7
Ethylbenzene	ND	ND	0.0%	0 - 30%	1.5
p,m-Xylene	ND	ND	0.0%	0 - 30%	2.2
o-Xylene	ND	ND	0.0%	0 - 30%	1.0

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept. Range
Benzene	ND	50.0	49.9	99.8%	39 - 150
Toluene	ND	50.0	49.9	99.8%	46 - 148
Ethylbenzene	ND	50.0	49.9	99.8%	32 - 160
p,m-Xylene	ND	100	99.9	99.9%	46 - 148
o-Xylene	ND	50.0	49.9	99.8%	46 - 148

ND - Parameter not detected at the stated detection limit.

References:

Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.
Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photolonization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: **QA/QC for sample 27544.**

Analyst

Review

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CHAIN OF CUSTODY RECORD

11738

Client / Project Name	Project Location
BLAGG	JFJ L.F.
Sampler: J-C-Blagg	Client No. 94034-010

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TPH 8015	BTEX 8021					Remarks
PILE #202	1/14/04	1220	27544	SOIL	1	X	X					5-Pt-Comp.
							↑	PLEASE ONLY RUN				
								IF TPH < 100 mg/kg				

ANALYSIS / PARAMETERS

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
J-C-Blagg	1/14/04	1418	[signature]	1/14/04	1418
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

ENVIROTECH INC.

5796 U.S. Highway 64
Farmington, New Mexico 87401
(505) 632-0615

Sample Receipt	Y	N	N/A
Received Intact	✓		
Cool - Ice/Blue Ice	✓		

Industrial Ecosystems Inc.
Soil Reclamation Center

P.O. Box 2043
Farmington, NM 874992

Phone: (505) 632-1782
Fax: (505) 632-1876

#81 CR 3150
Aztec, NM 87410

www.industrialecosystems.com

"This is bioremediation at its best; fast, effective, and cost efficient"

FACSIMILE TRANSMITTAL SHEET

THE INFORMATION CONTAINED IN THIS FACSIMILE MESSAGE IS PRIVILEGED AND CONFIDENTIAL INFORMATION INTENDED FOR THE USE OF THE ADDRESSEE LISTED BELOW AND NO ONE ELSE. IF YOU ARE NOT THE INTENDED RECIPIENT OR THE EMPLOYEE OR AGENT RESPONSIBLE TO DELIVER THIS MESSAGE TO THE INTENDED RECIPIENT, PLEASE DO NOT USE THIS TRANSMISSION IN ANY WAY, BUT PLEASE CONTACT THE SENDER BY TELEPHONE.

TO: Martyne Kieling

Fax: (505) 476-3462

From: AJ BLAIR

Date: 1/21/2004

NUMBER OF PAGES (INCLUDING COVER SHEET): 4

Martyne,

Here is a copy of the BTEX lab results for piles 205 and 206. We are very limited on dirt right now. If possible, will you please give me either a verbal or email authorization to use this dirt. If not, we will need to start mining fresh dirt from around the farm. I would like to avoid this if at all possible.

Thanks,
AJ Blair

CHAIN OF CUSTODY RECORD

11735

Client / Project Name	Project Location	ANALYSIS / PARAMETERS
BLAGG	JFJ LANDFARM	

Sampler:	Client No.
J.C. Blagg	94034-010

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	BTEX 8021						Remarks
PILE 206	1/13/04	1145	27524	SOIL	1	X						5-Pt. Comp.
PILE 205	1/13/04	1155	27525	"	1	X						"

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
J.C. Blagg	1/13/04	1323	Diane C. Ojeman	1/13/04	1323
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

ENVIROTECH INC.

5796 U.S. Highway 64
Farmington, New Mexico 87401
(505) 632-0615

Sample Receipt	Y	N	N/A
Received Intact	✓		
Cool - Ice/Blue Ice	✓		

01/21/2004 15:55 FAX 5056321876 BLAGG+ENGINEERING INDUSTRIAL_ECOSYSTEMS 5056323903 P.05 002/004
JAN-20-04 02:35 PM

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg	Project #:	94034-010
Sample ID:	Pile 205	Date Reported:	01-14-04
Laboratory Number:	27525	Date Sampled:	01-13-04
Chain of Custody:	11735	Date Received:	01-13-04
Sample Matrix:	Soil	Date Analyzed:	01-14-04
Preservative:	Cool	Date Extracted:	01-14-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**ND**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**98 %**
	1,4-difluorobenzene	**98 %**
	Bromochlorobenzene	**98 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 5-Pt. Comp.**

Analyst

Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg	Project #:	94034-010
Sample ID:	Pile 206	Date Reported:	01-14-04
Laboratory Number:	27624	Date Sampled:	01-13-04
Chain of Custody:	11735	Date Received:	01-13-04
Sample Matrix:	Soil	Date Analyzed:	01-14-04
Preservative:	Cool	Date Extracted:	01-14-04
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**ND**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**ND**	

ND = Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**98 %**
	1,4-difluorobenzene	**98 %**
	Bromochlorobenzene	**98 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 5-Pt. Comp.**

Analyst

Review

BLAGG ENGINEERING, INC.
P.O. Box 87, Bloomfield, New Mexico 87413
Phone: (505)632-1199 Fax: (505)632-3903

SENT VIA CERTIFIED MAIL

RECEIVED
JAN 23 2004
Oil Conservation Division
1220 S. St. Francis Drive
Santa Fe, NM 87505

January 21, 2004

Ms. Martyne J. Kieling
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Re: JFJ Waste Management Facility: Permit NM-01-0010B
Quarterly Report on Treatment Zone Monitoring

Dear Ms. Kieling:

On behalf of JFJ Landfarm L.L.C., Blagg Engineering, Inc. (BEI) is submitting quarterly treatment zone monitoring test results for the JFJ Waste Management Facility pursuant to Permit NM-01-0010B. This report is for sampling conducted on January 14, 2004.

Sampling protocol included collection of native soils at various depths below the treatment zone in each cell using a pickup mounted power auger. Sample depths were at 24-36 inches below the top surface of the treatment zone. Following sample collection, test borings were backfilled with powdered bentonite mixed with drill cuttings. Samples were submitted for analytical testing that included total petroleum hydrocarbons (TPH) by U.S. EPA Method 8015B.

With this quarterly monitoring samples were collect from the active cell units 2h, 3h, 4h, 7f, 8h, 9h, 11c, 12d and 13f (Figure 1). The laboratory reported a non-detection of TPH in all samples. Analytical reports are attached. The facility permit requires testing for metals, BTEX and cation/anions at least one time annually with a quarterly sample event. These constituents will be included in future testing.

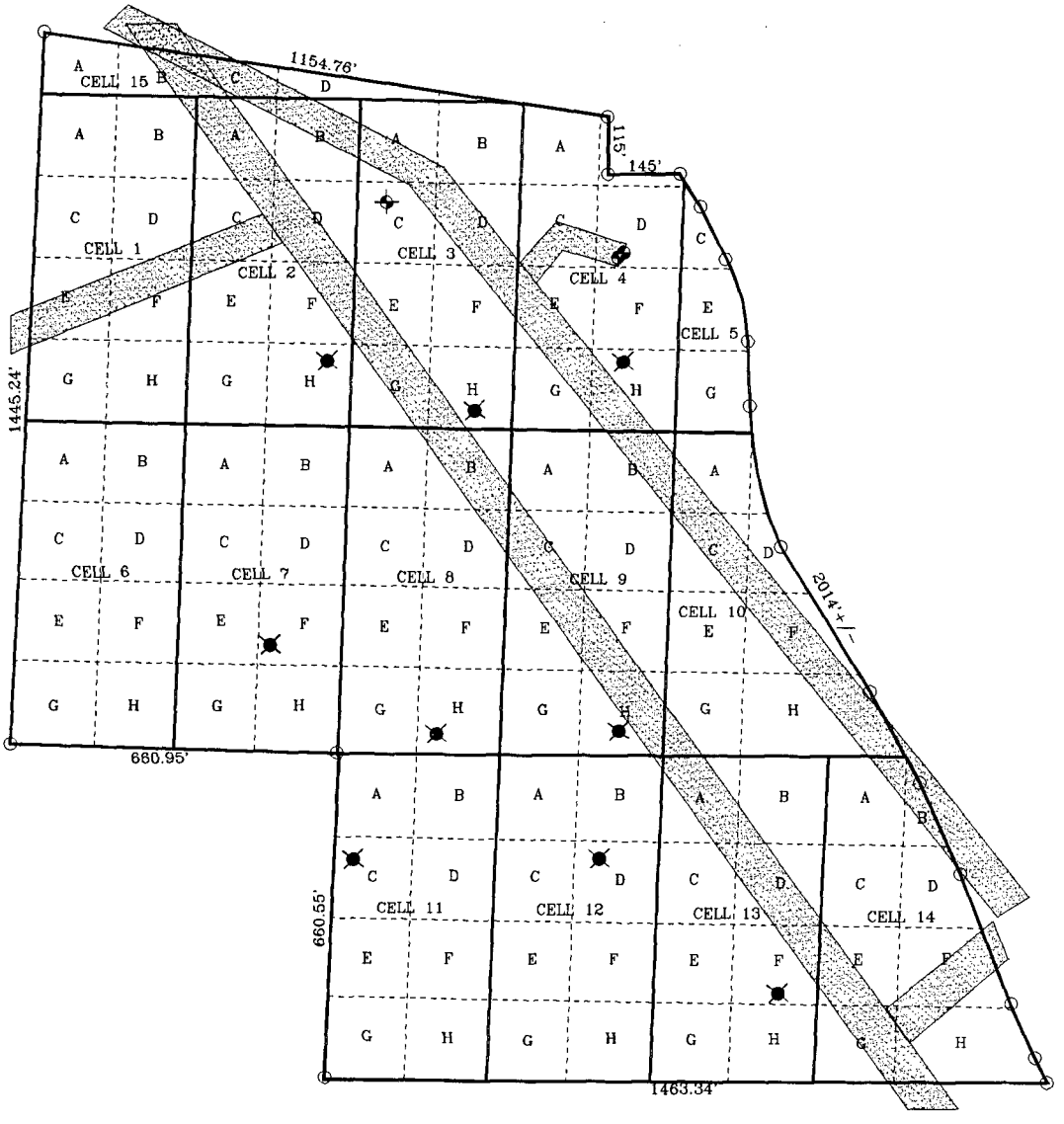
Questions or comments concerning this transmittal may be directed to Jeff Blagg of Blagg Engineering at (505)632-1199 or to Jake Hatcher with JFJ Landfarm L.L.C. at (505)632-1786.

Respectfully submitted:
Blagg Engineering, Inc.

Jeffrey C. Blagg, P.E.
President

Attachments: Site Diagram
Analytical Test Reports

cc: Denny Foust, NMOCD Aztec District Office
Jake Hatcher, JFJ Farmington



LEGEND

- Treatment Zone Sample Location
- Active Gas Well
- PxA Gas Well
- Pipeline Right-of-Way

N

0 500 1000 Feet

JFJ LANDFARM FACILITY TREATMENT ZONE MONITORING			*BLAGG ENGINEERING, INC.*
DATE: 1/2004	FIGURE 1	BY: JCB	*P.O. BOX 87, BLOOMFIELD, NM* *PHONE: (505)632-1199*

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg	Project #:	94034-010
Sample ID:	Cell 2H	Date Reported:	01-16-04
Laboratory Number:	27545	Date Sampled:	01-14-04
Chain of Custody No:	11739	Date Received:	01-14-04
Sample Matrix:	Soil	Date Extracted:	01-15-04
Preservative:	Cool	Date Analyzed:	01-16-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ L.F. 2' - 3'.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg	Project #:	94034-010
Sample ID:	Cell 3H	Date Reported:	01-16-04
Laboratory Number:	27546	Date Sampled:	01-14-04
Chain of Custody No:	11739	Date Received:	01-14-04
Sample Matrix:	Soil	Date Extracted:	01-15-04
Preservative:	Cool	Date Analyzed:	01-16-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ L.F. 2' - 3'.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg	Project #:	94034-010
Sample ID:	Cell 4H	Date Reported:	01-16-04
Laboratory Number:	27547	Date Sampled:	01-14-04
Chain of Custody No:	11739	Date Received:	01-14-04
Sample Matrix:	Soil	Date Extracted:	01-15-04
Preservative:	Cool	Date Analyzed:	01-16-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ L.F. 2' - 3'.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg	Project #:	94034-010
Sample ID:	Cell 7F	Date Reported:	01-16-04
Laboratory Number:	27548	Date Sampled:	01-14-04
Chain of Custody No:	11739	Date Received:	01-14-04
Sample Matrix:	Soil	Date Extracted:	01-15-04
Preservative:	Cool	Date Analyzed:	01-16-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ L.F. 2' - 3'.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg	Project #:	94034-010
Sample ID:	Cell 8H	Date Reported:	01-16-04
Laboratory Number:	27549	Date Sampled:	01-14-04
Chain of Custody No:	11739	Date Received:	01-14-04
Sample Matrix:	Soil	Date Extracted:	01-15-04
Preservative:	Cool	Date Analyzed:	01-16-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ L.F. 2' - 3'.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg	Project #:	94034-010
Sample ID:	Cell 9H	Date Reported:	01-16-04
Laboratory Number:	27550	Date Sampled:	01-14-04
Chain of Custody No:	11739	Date Received:	01-14-04
Sample Matrix:	Soil	Date Extracted:	01-15-04
Preservative:	Cool	Date Analyzed:	01-16-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ L.F. 2' - 3'.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg	Project #:	94034-010
Sample ID:	Cell 11C	Date Reported:	01-16-04
Laboratory Number:	27551	Date Sampled:	01-14-04
Chain of Custody No:	11739	Date Received:	01-14-04
Sample Matrix:	Soil	Date Extracted:	01-15-04
Preservative:	Cool	Date Analyzed:	01-16-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ L.F. 2' - 3'.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg	Project #:	94034-010
Sample ID:	Cell 12D	Date Reported:	01-16-04
Laboratory Number:	27552	Date Sampled:	01-14-04
Chain of Custody No:	11739	Date Received:	01-14-04
Sample Matrix:	Soil	Date Extracted:	01-15-04
Preservative:	Cool	Date Analyzed:	01-16-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ L.F. 2' - 3'.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg	Project #:	94034-010
Sample ID:	Cell 13F	Date Reported:	01-16-04
Laboratory Number:	27553	Date Sampled:	01-14-04
Chain of Custody No:	11739	Date Received:	01-14-04
Sample Matrix:	Soil	Date Extracted:	01-15-04
Preservative:	Cool	Date Analyzed:	01-16-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ L.F. 2' - 3'.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	01-16-TPH QA/QC	Date Reported:	01-16-04
Laboratory Number:	27544	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	01-16-04
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
Gasoline Range C5 - C10	04-29-03	1.8591E-002	1.8572E-002	0.10%	0 - 15%
Diesel Range C10 - C28	04-29-03	1.5507E-002	1.5492E-002	0.10%	0 - 15%

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	ND	0.2
Diesel Range C10 - C28	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	ND	ND	0.0%	0 - 30%
Diesel Range C10 - C28	30.0	29.9	0.3%	0 - 30%

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	ND	250	250	100.0%	75 - 125%
Diesel Range C10 - C28	30.0	250	279	99.8%	75 - 125%

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **QA/QC for samples 27544 - 27553.**

Analyst

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CHAIN OF CUSTODY RECORD

11739

Client / Project Name	Project Location
BLAGG	JFJ L.F.
Sampler: J.C. Blagg	Client No. 94034-010

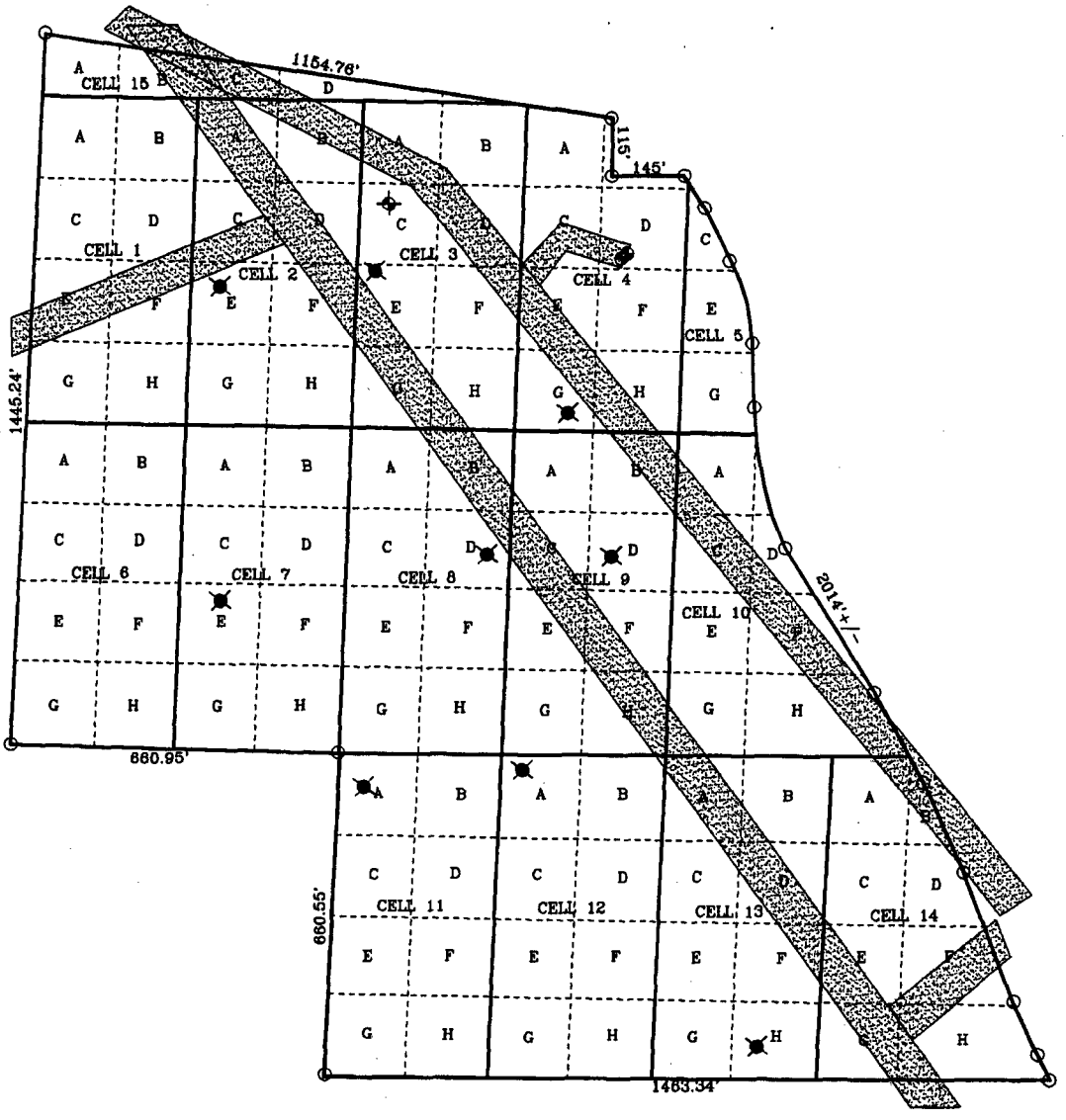
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TPH 8015						Remarks
						ANALYSIS / PARAMETERS						
CELL 2H	1/14/04	1355	27545	SOIL	1	X						2'-3'
CELL 3H	"	1340	27546	"	1	X						"
CELL 4H	"	1330	27547	"	1	X						"
CELL 7F	"	1320	27548	"	1	X						"
CELL 8H	"	1310	27549	"	1	X						"
CELL 9H	"	1300	27550	"	1	X						"
CELL 11C	"	1230	27551	"	1	X						"
CELL 12D	"	1240	27552	"	1	X						"
CELL 13F	"	1250	27553	"	1	X						"

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
J.C. Blagg	1/14/04	1418	Denise L. Cyrus	1/14/04	1418
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

ENVIROTECH INC.

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Farmington, New Mexico 87401
(505) 632-0615

Sample Receipt	Y	N	N/A
Received Intact	✓		
Cool - Ice/Blue Ice	✓		



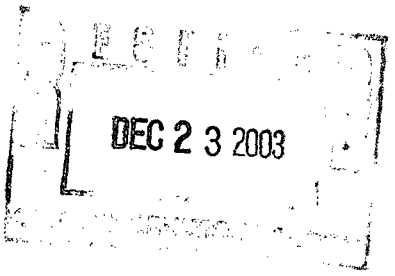
LEGEND

- Treatment Zone Sample Location
- Active Gas Well
- PxA Gas Well
- Pipeline Right-of-Way

N

0 500 1000 Feet

JFJ LANDFARM FACILITY TREATMENT ZONE MONITORING			*BLAGG ENGINEERING, INC.*
DATE: 10/2003	FIGURE 1	BY: JCB	*P.O. BOX 87, BLOOMFIELD, NM* *PHONE: (505)632-1199*



INDUSTRIAL ECOSYSTEMS INC.
P.O. Box 2043
Farmington, NM
87499
PH: 505 632 1782
Fax: 505 632 1876

December 19, 2003

New Mexico Oil Conservation Division
1220 South ST. Francis Drive
Santa Fe, New Mexico 87505

RE: Reclaimed soil

Attn. Martyne Kieling

Dear Martyne:

Recent analytical results show that biopile # 206 Hydrocarbon impacted soil from the Phoenix Hydrocarbons Cha Cha # 1 and biopile # 205 Hydrocarbon impacted soil from Red Cedar Gathering Co Coyote Gulch Treatment Plant, Capote Compressor Station, Arkansas Loop Treating Plant) have reached acceptable levels as required by the N.M.O.C.D. The combined total volume of these biopiles is approximately 3000 cubic yards .

We are seeking your approval to recycle this soil by using it as mix material to solidify incoming tank bottom sludge,and material to recondition existing berms within the JFJ Facility.

Please find enclosed the analytical reports for each of these biopiles.
Thanks in advance

James Hatcher

James (Jake) Hatcher
Manager JFJ Landfarms (permit # NM 01 0010B J.F.J. Landfarms L.L.C

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Pile #206	Date Reported:	12-03-03
Laboratory Number:	27317	Date Sampled:	12-01-03
Chain of Custody No:	11604	Date Received:	12-01-03
Sample Matrix:	Soil	Date Extracted:	12-02-03
Preservative:	Cool	Date Analyzed:	12-03-03
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**3.1**	**0.2**
Diesel Range (C10 - C28)	**78.7**	**0.1**
Total Petroleum Hydrocarbons	**81.8**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ L.F 5 - Pt. Comp.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Pile #205	Date Reported:	12-03-03
Laboratory Number:	27318	Date Sampled:	12-01-03
Chain of Custody No:	11604	Date Received:	12-01-03
Sample Matrix:	Soil	Date Extracted:	12-02-03
Preservative:	Cool	Date Analyzed:	12-03-03
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**1.6**	**0.2**
Diesel Range (C10 - C28)	**41.8**	**0.1**
Total Petroleum Hydrocarbons	**43.4**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ L.F 5 - Pt. Comp.**

Analyst

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BLAGG ENGINEERING, INC.
P.O. Box 87, Bloomfield, New Mexico 87413
Phone: (505)632-1199 Fax: (505)632-3903

SENT VIA CERTIFIED MAIL

RECEIVED
NOV 19 2003
OIL CONSERVATION DIVISION

November 13, 2003

Ms. Martyne J. Kieling
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Re: JFJ Waste Management Facility: Permit NM-01-0010B
Quarterly Report on Treatment Zone Monitoring

Dear Ms. Kieling:

On behalf of JFJ Landfarm L.L.C., Blagg Engineering, Inc. (BEI) is submitting quarterly treatment zone monitoring test results for the JFJ Waste Management Facility pursuant to Permit NM-01-0010B. This report is for sampling conducted on October 10-13, 2003.

Sampling protocol included collection of native soils at various depths below the treatment zone in each cell using a manual hand auger. Sample depths were at 24-36 inches below the top surface of the treatment zone. Following sample collection, test borings were backfilled with powdered bentonite mixed with drill cuttings. Samples were submitted for analytical testing that included total petroleum hydrocarbons (TPH), 8 RCRA Heavy Metals and Cation/Anion analysis.

The landfarm has been gridded into separate cells with each cell no greater than 5-acres in size (Figure 1). Each cell has been subdivided into 8 subcells (a-h) for project tracking. With this quarterly monitoring samples were collect from the active cell units 2e, 3e, 4g, 7e, 8d, 9d, 11a, 12a and 13h. The laboratory reported a non-detection of TPH in all samples. Metals tested below regulatory standards. Cation/anion analysis did not indicate infiltration of brine to the subsurface. Analytical reports are attached.

Questions or comments concerning this transmittal may be directed to Jeff Blagg of Blagg Engineering at (505)632-1199 or to Jake Hatcher with JFJ Landfarm L.L.C. at (505)632-1786.

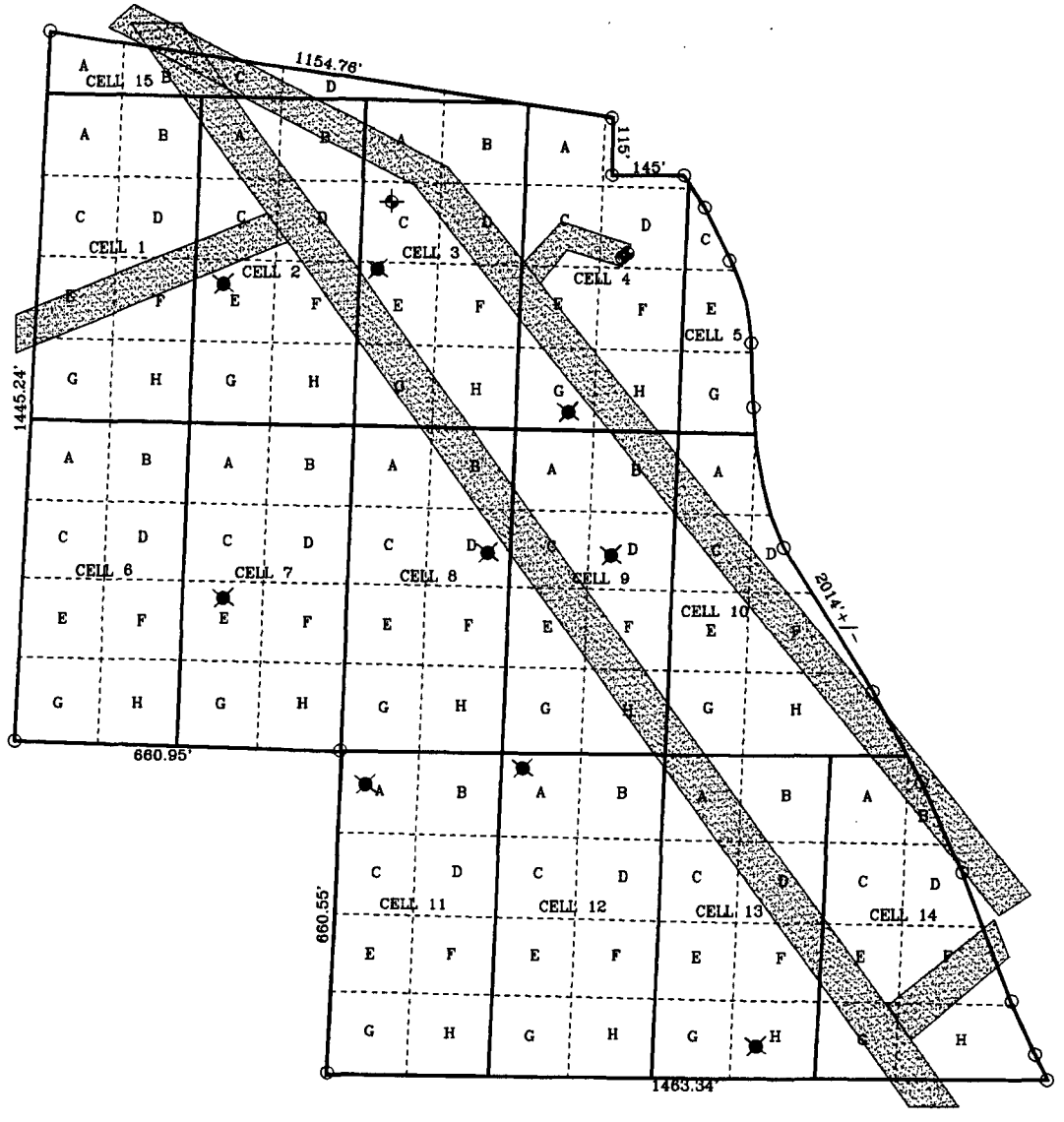
Respectfully submitted:
Blagg Engineering, Inc.

Jeffrey C. Blagg, P.E.
President

Attachments: Site Diagram
Analytical Test Reports

cc: Denny Foust, NMOCD Aztec District Office
Jake Hatcher, JFJ Farmington

MW
12-4-03



JFJ LANDFARM FACILITY TREATMENT ZONE MONITORING			*BLAGG ENGINEERING, INC.*
DATE: 10/2003	FIGURE 1	BY: JCB	*P.O. BOX 87, BLOOMFIELD, NM* *PHONE: (505)632-1199*

CHAIN OF CUSTODY RECORD

11453

Client / Project Name	Project Location
BLAGG/IEI	JFJ L.F.
Sampler: J-C-Blagg	Client No. 94034-010

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TPH 8015	8 RCRA METALS	CATION/ ANION				Remarks
CELL 2E	10/3/3	1055	26826	SOIL	2	X	X	X				2'-3' BG
CELL 3E	"	1107	26827	"	2	X	X	X				"
CELL 4G	"	1130	26828	"	2	X	X	X				"
CELL 7E	"	1040	26829	"	2	X	X	X				"
CELL 8D	10/10/03	1345	26830	"	2	X	X	X				"
CELL 9D	"	1330	26831	"	2	X	X	X				"
CELL 11A	"	1245	26832	"	2	X	X	X				"
CELL 12A	"	1255	26833	"	2	X	X	X				"
CELL 13H	"	1305	26834	"	2	X	X	X				"

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
J-C-Blagg	10/3/03	1306	Mistine M Walters	10/3/03	1306
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

ENVIROTECH INC.

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(505) 632-0615

Sample Receipt	Y	N	N/A
Received Intact	✓		
Cool - Ice/Blue Ice	✓		

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 2E	Date Reported:	10-17-03
Laboratory Number:	26826	Date Sampled:	10-13-03
Chain of Custody No:	11453	Date Received:	10-13-03
Sample Matrix:	Soil	Date Extracted:	10-15-03
Preservative:	Cool	Date Analyzed:	10-16-03
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ L.F. 2'-3' BG.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 3E	Date Reported:	10-17-03
Laboratory Number:	26827	Date Sampled:	10-13-03
Chain of Custody No:	11453	Date Received:	10-13-03
Sample Matrix:	Soil	Date Extracted:	10-15-03
Preservative:	Cool	Date Analyzed:	10-16-03
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ L.F. 2'-3' BG.**

Christine M Walters
Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 4G	Date Reported:	10-17-03
Laboratory Number:	26828	Date Sampled:	10-13-03
Chain of Custody No:	11453	Date Received:	10-13-03
Sample Matrix:	Soil	Date Extracted:	10-15-03
Preservative:	Cool	Date Analyzed:	10-16-03
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ L.F. 2'-3' BG.**

Christine M Walters
Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 7E	Date Reported:	10-17-03
Laboratory Number:	26829	Date Sampled:	10-10-03
Chain of Custody No:	11453	Date Received:	10-13-03
Sample Matrix:	Soil	Date Extracted:	10-15-03
Preservative:	Cool	Date Analyzed:	10-16-03
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ L.F. 2'-3' BG.**

Christine M Walters
Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 8D	Date Reported:	10-17-03
Laboratory Number:	26830	Date Sampled:	10-10-03
Chain of Custody No:	11453	Date Received:	10-13-03
Sample Matrix:	Soil	Date Extracted:	10-15-03
Preservative:	Cool	Date Analyzed:	10-16-03
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ L.F. 2'-3' BG.**

Christine M Walters
Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 9D	Date Reported:	10-17-03
Laboratory Number:	26831	Date Sampled:	10-10-03
Chain of Custody No:	11453	Date Received:	10-13-03
Sample Matrix:	Soil	Date Extracted:	10-15-03
Preservative:	Cool	Date Analyzed:	10-16-03
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ L.F. 2'-3' BG.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	11A	Date Reported:	10-17-03
Laboratory Number:	26832	Date Sampled:	10-10-03
Chain of Custody No:	11453	Date Received:	10-13-03
Sample Matrix:	Soil	Date Extracted:	10-15-03
Preservative:	Cool	Date Analyzed:	10-16-03
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ L.F. 2'-3' BG.**

Christine M Walters
Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 12A	Date Reported:	10-17-03
Laboratory Number:	26833	Date Sampled:	10-10-03
Chain of Custody No:	11453	Date Received:	10-13-03
Sample Matrix:	Soil	Date Extracted:	10-15-03
Preservative:	Cool	Date Analyzed:	10-16-03
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ L.F. 2'-3' BG.**

Christine M Walters
Analyst

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 13H	Date Reported:	10-17-03
Laboratory Number:	26834	Date Sampled:	10-10-03
Chain of Custody No:	11453	Date Received:	10-13-03
Sample Matrix:	Soil	Date Extracted:	10-15-03
Preservative:	Cool	Date Analyzed:	10-16-03
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ L.F. 2'-3' BG.**

Christine M Walters
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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	10-16-TPH QA/QC	Date Reported:	10-17-03
Laboratory Number:	26826	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	10-16-03
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF	C-Cal RF	% Difference	Accept. Range
Gasoline Range C5 - C10	04-29-03	1.8591E-002	1.8572E-002	**0.10%**	**0 - 15%**
Diesel Range C10 - C28	04-29-03	1.5507E-002	1.5492E-002	**0.10%**	**0 - 15%**

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	**ND**	**0.2**
Diesel Range C10 - C28	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	**ND**	**ND**	**0.0%**	**0 - 30%**
Diesel Range C10 - C28	**ND**	**ND**	**0.0%**	**0 - 30%**

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	**ND**	**250**	**250**	**100%**	**75 - 125%**
Diesel Range C10 - C28	**ND**	**250**	**250**	**100%**	**75 - 125%**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **QA/QC for samples 26826 - 26834.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 2E	Date Reported:	10-22-03
Laboratory Number:	26826	Date Sampled:	10-13-03
Chain of Custody:	11453	Date Received:	10-13-03
Sample Matrix:	Soil	Date Analyzed:	10-22-03
Preservative:	Cool	Date Digested:	10-17-03
Condition:	Cool & Intact	Analysis Needed:	RCRA Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Arsenic	**0.009**	**0.001**	**5.0**
Barium	**0.162**	**0.001**	**100**
Cadmium	**ND**	**0.001**	**1.0**
Chromium	**ND**	**0.001**	**5.0**
Lead	**ND**	**0.001**	**5.0**
Mercury	**ND**	**0.001**	**0.2**
Selenium	**0.004**	**0.001**	**1.0**
Silver	**ND**	**0.001**	**5.0**

ND - Parameter not detected at the stated detection limit.

References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils. SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision Spectroscopy, SW-846, USEPA, December 1996.

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, August 24, 1998.

Comments: **JFJ L.F. 2'-3' BG.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 3E	Date Reported:	10-22-03
Laboratory Number:	26827	Date Sampled:	10-13-03
Chain of Custody:	11453	Date Received:	10-13-03
Sample Matrix:	Soil	Date Analyzed:	10-22-03
Preservative:	Cool	Date Digested:	10-17-03
Condition:	Cool & Intact	Analysis Needed:	RCRA Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Arsenic	**0.005**	**0.001**	**5.0**
Barium	**0.188**	**0.001**	**100**
Cadmium	**ND**	**0.001**	**1.0**
Chromium	**ND**	**0.001**	**5.0**
Lead	**ND**	**0.001**	**5.0**
Mercury	**ND**	**0.001**	**0.2**
Selenium	**0.003**	**0.001**	**1.0**
Silver	**ND**	**0.001**	**5.0**

ND - Parameter not detected at the stated detection limit.

References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils. SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision Spectroscopy, SW-846, USEPA, December 1996.

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, August 24, 1998.

Comments: **JFJ L.F. 2'-3' BG.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 4G	Date Reported:	10-22-03
Laboratory Number:	26828	Date Sampled:	10-13-03
Chain of Custody:	11453	Date Received:	10-13-03
Sample Matrix:	Soil	Date Analyzed:	10-22-03
Preservative:	Cool	Date Digested:	10-17-03
Condition:	Cool & Intact	Analysis Needed:	RCRA Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Arsenic	**0.011**	**0.001**	**5.0**
Barium	**0.218**	**0.001**	**100**
Cadmium	**ND**	**0.001**	**1.0**
Chromium	**ND**	**0.001**	**5.0**
Lead	**ND**	**0.001**	**5.0**
Mercury	**ND**	**0.001**	**0.2**
Selenium	**0.006**	**0.001**	**1.0**
Silver	**ND**	**0.001**	**5.0**

ND - Parameter not detected at the stated detection limit.

References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils. SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision Spectroscopy, SW-846, USEPA, December 1996.

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, August 24, 1998.

Comments: **JFJ L.F. 2'-3' BG.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 7E	Date Reported:	10-22-03
Laboratory Number:	26829	Date Sampled:	10-13-03
Chain of Custody:	11453	Date Received:	10-13-03
Sample Matrix:	Soil	Date Analyzed:	10-22-03
Preservative:	Cool	Date Digested:	10-17-03
Condition:	Cool & Intact	Analysis Needed:	RCRA Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Arsenic	**0.006**	**0.001**	**5.0**
Barium	**0.245**	**0.001**	**100**
Cadmium	**ND**	**0.001**	**1.0**
Chromium	**ND**	**0.001**	**5.0**
Lead	**ND**	**0.001**	**5.0**
Mercury	**ND**	**0.001**	**0.2**
Selenium	**0.002**	**0.001**	**1.0**
Silver	**ND**	**0.001**	**5.0**

ND - Parameter not detected at the stated detection limit.

References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils. SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision Spectroscopy, SW-846, USEPA, December 1996.

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, August 24, 1998.

Comments: **JFJ L.F. 2'-3' BG.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 8D	Date Reported:	10-22-03
Laboratory Number:	26830	Date Sampled:	10-10-03
Chain of Custody:	11453	Date Received:	10-13-03
Sample Matrix:	Soil	Date Analyzed:	10-22-03
Preservative:	Cool	Date Digested:	10-20-03
Condition:	Cool & Intact	Analysis Needed:	RCRA Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Arsenic	**0.008**	**0.001**	**5.0**
Barium	**0.143**	**0.001**	**100**
Cadmium	**ND**	**0.001**	**1.0**
Chromium	**ND**	**0.001**	**5.0**
Lead	**ND**	**0.001**	**5.0**
Mercury	**ND**	**0.001**	**0.2**
Selenium	**0.003**	**0.001**	**1.0**
Silver	**ND**	**0.001**	**5.0**

ND - Parameter not detected at the stated detection limit.

References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils. SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision Spectroscopy, SW-846, USEPA, December 1996.

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, August 24, 1998.

Comments: **JFJ L.F. 2'-3' BG.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 9D	Date Reported:	10-22-03
Laboratory Number:	26831	Date Sampled:	10-10-03
Chain of Custody:	11453	Date Received:	10-13-03
Sample Matrix:	Soil	Date Analyzed:	10-22-03
Preservative:	Cool	Date Digested:	10-20-03
Condition:	Cool & Intact	Analysis Needed:	RCRA Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Arsenic	**0.012**	**0.001**	**5.0**
Barium	**0.227**	**0.001**	**100**
Cadmium	**ND**	**0.001**	**1.0**
Chromium	**ND**	**0.001**	**5.0**
Lead	**0.001**	**0.001**	**5.0**
Mercury	**ND**	**0.001**	**0.2**
Selenium	**0.008**	**0.001**	**1.0**
Silver	**ND**	**0.001**	**5.0**

ND - Parameter not detected at the stated detection limit.

References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils. SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision Spectroscopy, SW-846, USEPA, December 1996.

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, August 24, 1998.

Comments: **JFJ L.F. 2'-3' BG.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 11A	Date Reported:	10-22-03
Laboratory Number:	26832	Date Sampled:	10-10-03
Chain of Custody:	11453	Date Received:	10-13-03
Sample Matrix:	Soil	Date Analyzed:	10-22-03
Preservative:	Cool	Date Digested:	10-20-03
Condition:	Cool & Intact	Analysis Needed:	RCRA Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Arsenic	**0.003**	**0.001**	**5.0**
Barium	**0.108**	**0.001**	**100**
Cadmium	**ND**	**0.001**	**1.0**
Chromium	**ND**	**0.001**	**5.0**
Lead	**ND**	**0.001**	**5.0**
Mercury	**ND**	**0.001**	**0.2**
Selenium	**0.001**	**0.001**	**1.0**
Silver	**ND**	**0.001**	**5.0**

ND - Parameter not detected at the stated detection limit.

References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils. SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision Spectroscopy, SW-846, USEPA, December 1996.

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, August 24, 1998.

Comments: **JFJ L.F. 2'-3' BG.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 12A	Date Reported:	10-22-03
Laboratory Number:	26833	Date Sampled:	10-10-03
Chain of Custody:	11453	Date Received:	10-13-03
Sample Matrix:	Soil	Date Analyzed:	10-22-03
Preservative:	Cool	Date Digested:	10-20-03
Condition:	Cool & Intact	Analysis Needed:	RCRA Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Arsenic	**0.011**	**0.001**	**5.0**
Barium	**0.192**	**0.001**	**100**
Cadmium	**ND**	**0.001**	**1.0**
Chromium	**ND**	**0.001**	**5.0**
Lead	**ND**	**0.001**	**5.0**
Mercury	**ND**	**0.001**	**0.2**
Selenium	**0.008**	**0.001**	**1.0**
Silver	**ND**	**0.001**	**5.0**

ND - Parameter not detected at the stated detection limit.

References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils. SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision Spectroscopy, SW-846, USEPA, December 1996.

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, August 24, 1998.

Comments: **JFJ L.F. 2'-3' BG.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 13H	Date Reported:	10-22-03
Laboratory Number:	26834	Date Sampled:	10-10-03
Chain of Custody:	11453	Date Received:	10-13-03
Sample Matrix:	Soil	Date Analyzed:	10-22-03
Preservative:	Cool	Date Digested:	10-20-03
Condition:	Cool & Intact	Analysis Needed:	RCRA Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Arsenic	**0.009**	**0.001**	**5.0**
Barium	**0.154**	**0.001**	**100**
Cadmium	**ND**	**0.001**	**1.0**
Chromium	**ND**	**0.001**	**5.0**
Lead	**ND**	**0.001**	**5.0**
Mercury	**ND**	**0.001**	**0.2**
Selenium	**0.004**	**0.001**	**1.0**
Silver	**ND**	**0.001**	**5.0**

ND - Parameter not detected at the stated detection limit.

References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils. SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision Spectroscopy, SW-846, USEPA, December 1996.

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, August 24, 1998.

Comments: **JFJ L.F. 2'-3' BG.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS
Quality Control /
Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	10-22-03	Date Reported:	10-22-03
Laboratory Number:	26816	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	Total RCRA Metals	Date Analyzed:	10-22-03
Condition:	N/A	Date Digested:	10-17-03

Blank & Duplicate Conc. (mg/Kg)	Instrument Blank (mg/L)	Method Blank	Detection Limit	Sample	Duplicate	% Diff.	Acceptance Range
Arsenic	**ND**	**ND**	**0.001**	**0.006**	**0.006**	**0.0%**	**0% - 30%**
Barium	**ND**	**ND**	**0.001**	**0.217**	**0.215**	**0.9%**	**0% - 30%**
Cadmium	**ND**	**ND**	**0.001**	**0.001**	**0.001**	**0.0%**	**0% - 30%**
Chromium	**ND**	**ND**	**0.001**	**ND**	**ND**	**0.0%**	**0% - 30%**
Lead	**ND**	**ND**	**0.001**	**ND**	**ND**	**0.0%**	**0% - 30%**
Mercury	**ND**	**ND**	**0.001**	**ND**	**ND**	**0.0%**	**0% - 30%**
Selenium	**ND**	**ND**	**0.001**	**0.002**	**0.002**	**0.0%**	**0% - 30%**
Silver	**ND**	**ND**	**0.001**	**ND**	**ND**	**0.0%**	**0% - 30%**

Spike Conc. (mg/Kg)	Spike Added	Sample	Spiked Sample	Percent Recovery	Acceptance Range
Arsenic	**0.500**	**0.006**	**0.505**	**99.8%**	**80% - 120%**
Barium	**0.500**	**0.217**	**0.714**	**99.6%**	**80% - 120%**
Cadmium	**0.500**	**0.001**	**0.500**	**99.8%**	**80% - 120%**
Chromium	**0.500**	**ND**	**0.499**	**99.8%**	**80% - 120%**
Lead	**0.500**	**ND**	**0.498**	**99.6%**	**80% - 120%**
Mercury	**0.050**	**ND**	**0.050**	**100.0%**	**80% - 120%**
Selenium	**0.500**	**0.002**	**0.501**	**99.8%**	**80% - 120%**
Silver	**0.500**	**ND**	**0.499**	**99.8%**	**80% - 120%**

ND - Parameter not detected at the stated detection limit.

References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils. SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision Spectorscopy, SW-846, USEPA, December 1996.

Comments: **QA/QC for samples 26816, 26826 - 26834, 26928.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 2E	Date Reported:	10-14-03
Laboratory Number:	26826	Date Sampled:	10-13-03
Chain of Custody:	11453	Date Received:	10-13-03
Sample Matrix:	Soil	Date Extracted:	10-13-03
Preservative:	Cool	Date Analyzed:	10-14-03
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		Units
pH	**6.88**	s.u.		
Conductivity @ 25° C	**604**	umhos/cm		
Total Dissolved Solids @ 180C	**204**	mg/L		
Total Dissolved Solids (Calc)	**435**	mg/L		
SAR	**5.5**	ratio		
Total Alkalinity as CaCO3	**17.6**	mg/L		
Total Hardness as CaCO3	**80.0**	mg/L		
Bicarbonate as HCO3	**17.6**	mg/L	0.29	meq/L
Carbonate as CO3	**<0.1**	mg/L	0.00	meq/L
Hydroxide as OH	**<0.1**	mg/L	0.00	meq/L
Nitrate Nitrogen	**<0.1**	mg/L	0.00	meq/L
Nitrite Nitrogen	**0.022**	mg/L	0.00	meq/L
Chloride	**40.0**	mg/L	1.13	meq/L
Fluoride	**0.77**	mg/L	0.04	meq/L
Phosphate	**2.5**	mg/L	0.08	meq/L
Sulfate	**240**	mg/L	5.00	meq/L
Iron	**0.004**	mg/L	0.00	meq/L
Calcium	**20.0**	mg/L	1.00	meq/L
Magnesium	**7.33**	mg/L	0.60	meq/L
Potassium	**0.65**	mg/L	0.02	meq/L
Sodium	**113**	mg/L	4.92	meq/L
Cations			6.53	meq/L
Anions			6.53	meq/L
Cation/Anion Difference			**0.00%**	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983. Water And Waste Water", 18th ed., 1992.

Comments: **JFJ L.F. 2'-3' BG.**

Christine M Walters
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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 3E	Date Reported:	10-14-03
Laboratory Number:	26827	Date Sampled:	10-13-03
Chain of Custody:	11453	Date Received:	10-13-03
Sample Matrix:	Soil	Date Extracted:	10-13-03
Preservative:	Cool	Date Analyzed:	10-14-03
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		Units
pH	**6.76**	s.u.		
Conductivity @ 25° C	**652**	umhos/cm		
Total Dissolved Solids @ 180C	**216**	mg/L		
Total Dissolved Solids (Calc)	**425**	mg/L		
SAR	**2.9**	ratio		
Total Alkalinity as CaCO3	**14.4**	mg/L		
Total Hardness as CaCO3	**143**	mg/L		
Bicarbonate as HCO3	**14.4**	mg/L	0.24	meq/L
Carbonate as CO3	**<0.1**	mg/L	0.00	meq/L
Hydroxide as OH	**<0.1**	mg/L	0.00	meq/L
Nitrate Nitrogen	**0.1**	mg/L	0.00	meq/L
Nitrite Nitrogen	**0.188**	mg/L	0.00	meq/L
Chloride	**15.6**	mg/L	0.44	meq/L
Fluoride	**1.22**	mg/L	0.06	meq/L
Phosphate	**1.9**	mg/L	0.06	meq/L
Sulfate	**265**	mg/L	5.52	meq/L
Iron	**0.001**	mg/L	0.00	meq/L
Calcium	**44.0**	mg/L	2.20	meq/L
Magnesium	**8.01**	mg/L	0.66	meq/L
Potassium	**0.58**	mg/L	0.01	meq/L
Sodium	**79.4**	mg/L	3.45	meq/L
Cations			6.32	meq/L
Anions			6.32	meq/L
Cation/Anion Difference			**0.00%**	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983. Water And Waste Water", 18th ed., 1992.

Comments: **JFJ L.F. 2'-3' BG.**

Christine M Walters
Analyst

Review

5796 U.S. Highway 64 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 4G	Date Reported:	10-14-03
Laboratory Number:	26828	Date Sampled:	10-13-03
Chain of Custody:	11453	Date Received:	10-13-03
Sample Matrix:	Soil	Date Extracted:	10-13-03
Preservative:	Cool	Date Analyzed:	10-14-03
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		Units
pH	**7.08**	s.u.		
Conductivity @ 25° C	**243**	umhos/cm		
Total Dissolved Solids @ 180C	**172**	mg/L		
Total Dissolved Solids (Calc)	**191**	mg/L		
SAR	**4.5**	ratio		
Total Alkalinity as CaCO3	**16.4**	mg/L		
Total Hardness as CaCO3	**26.4**	mg/L		
Bicarbonate as HCO3	**16.4**	mg/L	0.27	meq/L
Carbonate as CO3	**<0.1**	mg/L	0.00	meq/L
Hydroxide as OH	**<0.1**	mg/L	0.00	meq/L
Nitrate Nitrogen	**0.2**	mg/L	0.00	meq/L
Nitrite Nitrogen	**0.014**	mg/L	0.00	meq/L
Chloride	**18.4**	mg/L	0.52	meq/L
Fluoride	**0.63**	mg/L	0.03	meq/L
Phosphate	**4.3**	mg/L	0.14	meq/L
Sulfate	**92.5**	mg/L	1.93	meq/L
Iron	**0.070**	mg/L	0.00	meq/L
Calcium	**8.64**	mg/L	0.43	meq/L
Magnesium	**1.17**	mg/L	0.10	meq/L
Potassium	**1.38**	mg/L	0.04	meq/L
Sodium	**53.4**	mg/L	2.32	meq/L
Cations			2.89	meq/L
Anions			2.89	meq/L
Cation/Anion Difference			**0.07%**	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983. Water And Waste Water", 18th ed., 1992.

Comments: **JFJ L.F. 2'-3' BG.**

Christine M Walters
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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 7E	Date Reported:	10-14-03
Laboratory Number:	26829	Date Sampled:	10-13-03
Chain of Custody:	11453	Date Received:	10-13-03
Sample Matrix:	Soil	Date Extracted:	10-13-03
Preservative:	Cool	Date Analyzed:	10-14-03
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		Units
pH	**7.24**	s.u.		
Conductivity @ 25° C	**190**	umhos/cm		
Total Dissolved Solids @ 180C	**4.0**	mg/L		
Total Dissolved Solids (Calc)	**130**	mg/L		
SAR	**5.5**	ratio		
Total Alkalinity as CaCO3	**14.0**	mg/L		
Total Hardness as CaCO3	**10.8**	mg/L		
Bicarbonate as HCO3	**14.0**	mg/L	0.23	meq/L
Carbonate as CO3	**<0.1**	mg/L	0.00	meq/L
Hydroxide as OH	**<0.1**	mg/L	0.00	meq/L
Nitrate Nitrogen	**0.3**	mg/L	0.00	meq/L
Nitrite Nitrogen	**0.030**	mg/L	0.00	meq/L
Chloride	**7.2**	mg/L	0.20	meq/L
Fluoride	**0.35**	mg/L	0.02	meq/L
Phosphate	**12.4**	mg/L	0.39	meq/L
Sulfate	**56.0**	mg/L	1.17	meq/L
Iron	**0.235**	mg/L	0.01	meq/L
Calcium	**4.32**	mg/L	0.22	meq/L
Magnesium	**<0.1**	mg/L	0.00	meq/L
Potassium	**<0.1**	mg/L	0.00	meq/L
Sodium	**41.2**	mg/L	1.79	meq/L
Cations			2.02	meq/L
Anions			2.01	meq/L
Cation/Anion Difference			**0.10%**	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983. Water And Waste Water", 18th ed., 1992.

Comments: **JFJ L.F. 2'-3' BG.**

Christine M Walters
Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 8D	Date Reported:	10-14-03
Laboratory Number:	26830	Date Sampled:	10-10-03
Chain of Custody:	11453	Date Received:	10-13-03
Sample Matrix:	Soil	Date Extracted:	10-13-03
Preservative:	Cool	Date Analyzed:	10-14-03
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		Units
pH	**7.05**	s.u.		
Conductivity @ 25° C	**162**	umhos/cm		
Total Dissolved Solids @ 180C	**64.0**	mg/L		
Total Dissolved Solids (Calc)	**354**	mg/L		
SAR	**9.4**	ratio		
Total Alkalinity as CaCO3	**12.8**	mg/L		
Total Hardness as CaCO3	**24.4**	mg/L		
Bicarbonate as HCO3	**12.8**	mg/L	0.21	meq/L
Carbonate as CO3	**<0.1**	mg/L	0.00	meq/L
Hydroxide as OH	**<0.1**	mg/L	0.00	meq/L
Nitrate Nitrogen	**0.1**	mg/L	0.00	meq/L
Nitrite Nitrogen	**0.001**	mg/L	0.00	meq/L
Chloride	**19.2**	mg/L	0.54	meq/L
Fluoride	**0.31**	mg/L	0.02	meq/L
Phosphate	**3.0**	mg/L	0.09	meq/L
Sulfate	**206**	mg/L	4.29	meq/L
Iron	**0.049**	mg/L	0.00	meq/L
Calcium	**9.76**	mg/L	0.49	meq/L
Magnesium	**<0.1**	mg/L	0.00	meq/L
Potassium	**0.61**	mg/L	0.02	meq/L
Sodium	**107**	mg/L	4.65	meq/L
Cations			5.16	meq/L
Anions			5.15	meq/L
Cation/Anion Difference			**0.11%**	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983. Water And Waste Water", 18th ed., 1992.

Comments: **JFJ L.F. 2'-3' BG.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 9D	Date Reported:	10-14-03
Laboratory Number:	26831	Date Sampled:	10-10-03
Chain of Custody:	11453	Date Received:	10-13-03
Sample Matrix:	Soil	Date Extracted:	10-13-03
Preservative:	Cool	Date Analyzed:	10-14-03
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		Units
pH	**7.48**	s.u.		
Conductivity @ 25° C	**218**	umhos/cm		
Total Dissolved Solids @ 180C	**92.0**	mg/L		
Total Dissolved Solids (Calc)	**420**	mg/L		
SAR	**9.4**	ratio		
Total Alkalinity as CaCO3	**14.8**	mg/L		
Total Hardness as CaCO3	**32.8**	mg/L		
Bicarbonate as HCO3	**14.0**	mg/L	0.23	meq/L
Carbonate as CO3	**<0.1**	mg/L	0.00	meq/L
Hydroxide as OH	**<0.1**	mg/L	0.00	meq/L
Nitrate Nitrogen	**<0.1**	mg/L	0.00	meq/L
Nitrite Nitrogen	**<0.001**	mg/L	0.00	meq/L
Chloride	**22.4**	mg/L	0.63	meq/L
Fluoride	**0.34**	mg/L	0.02	meq/L
Phosphate	**2.7**	mg/L	0.09	meq/L
Sulfate	**247**	mg/L	5.14	meq/L
Iron	**0.004**	mg/L	0.00	meq/L
Calcium	**13.10**	mg/L	0.65	meq/L
Magnesium	**<0.1**	mg/L	0.00	meq/L
Potassium	**1.82**	mg/L	0.05	meq/L
Sodium	**124**	mg/L	5.39	meq/L
Cations			6.09	meq/L
Anions			6.11	meq/L
Cation/Anion Difference			**0.21%**	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983. Water And Waste Water", 18th ed., 1992.

Comments: **JFJ L.F. 2'-3' BG.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 11A	Date Reported:	10-14-03
Laboratory Number:	26832	Date Sampled:	10-10-03
Chain of Custody:	11453	Date Received:	10-13-03
Sample Matrix:	Soil	Date Extracted:	10-13-03
Preservative:	Cool	Date Analyzed:	10-14-03
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		Units
pH	**7.04**	s.u.		
Conductivity @ 25° C	**156**	umhos/cm		
Total Dissolved Solids @ 180C	**792**	mg/L		
Total Dissolved Solids (Calc)	**1,249**	mg/L		
SAR	**5.3**	ratio		
Total Alkalinity as CaCO3	**16.0**	mg/L		
Total Hardness as CaCO3	**388**	mg/L		
Bicarbonate as HCO3	**16.0**	mg/L	0.26	meq/L
Carbonate as CO3	**<0.1**	mg/L	0.00	meq/L
Hydroxide as OH	**<0.1**	mg/L	0.00	meq/L
Nitrate Nitrogen	**0.6**	mg/L	0.01	meq/L
Nitrite Nitrogen	**<0.001**	mg/L	0.00	meq/L
Chloride	**24.0**	mg/L	0.68	meq/L
Fluoride	**0.92**	mg/L	0.05	meq/L
Phosphate	**1.4**	mg/L	0.04	meq/L
Sulfate	**832**	mg/L	17.32	meq/L
Iron	**0.007**	mg/L	0.00	meq/L
Calcium	**107**	mg/L	5.34	meq/L
Magnesium	**29.7**	mg/L	2.44	meq/L
Potassium	**1.27**	mg/L	0.03	meq/L
Sodium	**242**	mg/L	10.53	meq/L
Cations			18.34	meq/L
Anions			18.36	meq/L
Cation/Anion Difference			**0.11%**	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983. Water And Waste Water", 18th ed., 1992.

Comments: **JFJ L.F. 2'-3' BG.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 12A	Date Reported:	10-14-03
Laboratory Number:	26833	Date Sampled:	10-10-03
Chain of Custody:	11453	Date Received:	10-13-03
Sample Matrix:	Soil	Date Extracted:	10-13-03
Preservative:	Cool	Date Analyzed:	10-14-03
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		Units
pH	**7.15**	s.u.		
Conductivity @ 25° C	**334**	umhos/cm		
Total Dissolved Solids @ 180C	**224**	mg/L		
Total Dissolved Solids (Calc)	**291**	mg/L		
SAR	**4.5**	ratio		
Total Alkalinity as CaCO3	**15.2**	mg/L		
Total Hardness as CaCO3	**512**	mg/L		
Bicarbonate as HCO3	**15.2**	mg/L	0.25	meq/L
Carbonate as CO3	**<0.1**	mg/L	0.00	meq/L
Hydroxide as OH	**<0.1**	mg/L	0.00	meq/L
Nitrate Nitrogen	**0.5**	mg/L	0.01	meq/L
Nitrite Nitrogen	**0.012**	mg/L	0.00	meq/L
Chloride	**8.8**	mg/L	0.25	meq/L
Fluoride	**0.24**	mg/L	0.01	meq/L
Phosphate	**2.5**	mg/L	0.08	meq/L
Sulfate	**176**	mg/L	3.66	meq/L
Iron	**0.023**	mg/L	0.00	meq/L
Calcium	**17.3**	mg/L	0.86	meq/L
Magnesium	**1.95**	mg/L	0.16	meq/L
Potassium	**0.43**	mg/L	0.01	meq/L
Sodium	**74.2**	mg/L	3.23	meq/L
Cations			4.26	meq/L
Anions			4.26	meq/L
Cation/Anion Difference			**0.04%**	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983. Water And Waste Water", 18th ed., 1992.

Comments: **JFJ L.F. 2'-3' BG.**

Christine M Walters
Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 13H	Date Reported:	10-14-03
Laboratory Number:	26834	Date Sampled:	10-10-03
Chain of Custody:	11453	Date Received:	10-13-03
Sample Matrix:	Soil	Date Extracted:	10-13-03
Preservative:	Cool	Date Analyzed:	10-14-03
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		Units
pH	**7.36**	s.u.		
Conductivity @ 25° C	**107**	umhos/cm		
Total Dissolved Solids @ 180C	**40.0**	mg/L		
Total Dissolved Solids (Calc)	**331**	mg/L		
SAR	**10.2**	ratio		
Total Alkalinity as CaCO3	**14.0**	mg/L		
Total Hardness as CaCO3	**18.8**	mg/L		
Bicarbonate as HCO3	**18.8**	mg/L	0.31	meq/L
Carbonate as CO3	**<0.1**	mg/L	0.00	meq/L
Hydroxide as OH	**<0.1**	mg/L	0.00	meq/L
Nitrate Nitrogen	**0.5**	mg/L	0.01	meq/L
Nitrite Nitrogen	**0.017**	mg/L	0.00	meq/L
Chloride	**6.0**	mg/L	0.17	meq/L
Fluoride	**<0.1**	mg/L	0.00	meq/L
Phosphate	**6.6**	mg/L	0.21	meq/L
Sulfate	**199**	mg/L	4.14	meq/L
Iron	**0.127**	mg/L	0.00	meq/L
Calcium	**7.52**	mg/L	0.38	meq/L
Magnesium	**<0.1**	mg/L	0.00	meq/L
Potassium	**0.82**	mg/L	0.02	meq/L
Sodium	**102**	mg/L	4.44	meq/L
Cations			4.84	meq/L
Anions			4.84	meq/L
Cation/Anion Difference			**0.01%**	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983. Water And Waste Water", 18th ed., 1992.

Comments: **JFJ L.F. 2'-3' BG.**

Christine M Walters
Analyst

Review

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INDUSTRIAL ECOSYSTEMS INC.
P.O. Box 2043
Farmington, NM
87499
PH: 505 632 1782
Fax: 505 632 1876

October 16, 2003

RECEIVED
OCT 2 1 2003
OIL CONSERVATION
DIVISION

New Mexico Oil Conservation Division
1220 South ST. Francis Drive
Santa Fe, New Mexico 87505

RE: Reclaimed soil

Attn. Martyne Kieling

Dear Martyne:

Recent analytical results show that biopile # 200 (Solidified tank bottom sludge from Basin Disposal) # 201 (Solidified tank bottom sludge for Burlington McGrath SWD # 4) and # 202, 203,204 and 205 (Excavated soil from Phoenix Hydrocarbons, Cha Cha #1) have reached acceptable levels as required by the N.M.O.C.D. The combined total volume of these biopiles is approximately 12,000 cubic yards .

We are seeking your approval to recycle this soil by using it as mix material to solidify incoming tank bottom sludge and as material to recondition existing berms within the JFJ Facility

Please find enclosed the analytical reports for each of these biopiles.

Thanks in advance

James (Jake) Hatcher
Manager JFJ Landfarms (permit # NM 01 0010B J.F.J. Landfarms L.L.C

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Pile #200	Date Reported:	08-27-03
Laboratory Number:	26447	Date Sampled:	08-26-03
Chain of Custody No:	11273	Date Received:	08-26-03
Sample Matrix:	Soil	Date Extracted:	08-27-03
Preservative:	Cool	Date Analyzed:	08-27-03
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**25.7**	**0.2**
Diesel Range (C10 - C28)	**52.6**	**0.1**
Total Petroleum Hydrocarbons	**78.3**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ L.F. 5-Point Comp.**

Analyst

Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Pile #200	Date Reported:	08-27-03
Laboratory Number:	26447	Date Sampled:	08-26-03
Chain of Custody:	11273	Date Received:	08-26-03
Sample Matrix:	Soil	Date Analyzed:	08-27-03
Preservative:	Cool	Date Extracted:	08-27-03
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	51.9	1.8
Toluene	673	1.7
Ethylbenzene	375	1.5
p,m-Xylene	1,280	2.2
o-Xylene	986	1.0
Total BTEX	3,370	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**99 %**
	1,4-difluorobenzene	**99 %**
	Bromochlorobenzene	**99 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ L.F. 5-point Comp.**

Analyst

Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Pile #201	Date Reported:	08-27-03
Laboratory Number:	26448	Date Sampled:	08-26-03
Chain of Custody No:	11273	Date Received:	08-26-03
Sample Matrix:	Soil	Date Extracted:	08-27-03
Preservative:	Cool	Date Analyzed:	08-27-03
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**19.8**	**0.2**
Diesel Range (C10 - C28)	**53.9**	**0.1**
Total Petroleum Hydrocarbons	**73.7**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ L.F. 5-Point Comp.**

Analyst

Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Pile #201	Date Reported:	08-27-03
Laboratory Number:	26448	Date Sampled:	08-26-03
Chain of Custody:	11273	Date Received:	08-26-03
Sample Matrix:	Soil	Date Analyzed:	08-27-03
Preservative:	Cool	Date Extracted:	08-27-03
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**445**	**1.7**
Ethylbenzene	**474**	**1.5**
p,m-Xylene	**1,110**	**2.2**
o-Xylene	**836**	**1.0**
Total BTEX	**2,870**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**100 %**
	1,4-difluorobenzene	**100 %**
	Bromochlorobenzene	**100 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ L.F. 5-point Comp.**

Analyst

Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Pile #202	Date Reported:	08-27-03
Laboratory Number:	26449	Date Sampled:	08-26-03
Chain of Custody No:	11273	Date Received:	08-26-03
Sample Matrix:	Soil	Date Extracted:	08-27-03
Preservative:	Cool	Date Analyzed:	08-27-03
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ L.F. 5-Point Comp.**

Analyst

Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Pile #202	Date Reported:	08-27-03
Laboratory Number:	26449	Date Sampled:	08-26-03
Chain of Custody:	11273	Date Received:	08-26-03
Sample Matrix:	Soil	Date Analyzed:	08-27-03
Preservative:	Cool	Date Extracted:	08-27-03
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**16.5**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**ND**	**2.2**
o-Xylene	**31.3**	**1.0**
Total BTEX	**47.8**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**100 %**
	1,4-difluorobenzene	**100 %**
	Bromochlorobenzene	**100 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ L.F. 5-point Comp.**

Analyst

Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Pile #203	Date Reported:	08-27-03
Laboratory Number:	26450	Date Sampled:	08-26-03
Chain of Custody No:	11273	Date Received:	08-26-03
Sample Matrix:	Soil	Date Extracted:	08-27-03
Preservative:	Cool	Date Analyzed:	08-27-03
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ L.F. 5-Point Comp.**

Analyst

Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Pile #203	Date Reported:	08-27-03
Laboratory Number:	26450	Date Sampled:	08-26-03
Chain of Custody:	11273	Date Received:	08-26-03
Sample Matrix:	Soil	Date Analyzed:	08-27-03
Preservative:	Cool	Date Extracted:	08-27-03
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**ND**	**2.2**
o-Xylene	**57.2**	**1.0**
Total BTEX	**57.2**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**94 %**
	1,4-difluorobenzene	**94 %**
	Bromochlorobenzene	**94 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ L.F. 5-point Comp.**

Analyst

Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Pile #204/205	Date Reported:	08-27-03
Laboratory Number:	26451	Date Sampled:	08-26-03
Chain of Custody No:	11273	Date Received:	08-26-03
Sample Matrix:	Soil	Date Extracted:	08-27-03
Preservative:	Cool	Date Analyzed:	08-27-03
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ L.F. 5-Point Comp.**

Analyst

Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Pile #204/205	Date Reported:	08-27-03
Laboratory Number:	26451	Date Sampled:	08-26-03
Chain of Custody:	11273	Date Received:	08-26-03
Sample Matrix:	Soil	Date Analyzed:	08-27-03
Preservative:	Cool	Date Extracted:	08-27-03
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**2.5**	**1.8**
Toluene	**17.1**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**ND**	**2.2**
o-Xylene	**5.2**	**1.0**
Total BTEX	**24.8**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**100 %**
	1,4-difluorobenzene	**100 %**
	Bromochlorobenzene	**100 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ L.F. 5-point Comp.**

Analyst

Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8015 Modified

Nonhalogenated Volatile Organics

Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	08-27-TPH QA/QC	Date Reported:	08-27-03
Laboratory Number:	26443	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	08-27-03
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
Gasoline Range C5 - C10	04-29-03	2.2249E-002	2.2227E-002	**0.10%**	**0 - 15%**
Diesel Range C10 - C28	04-29-03	2.1005E-002	2.0984E-002	**0.10%**	**0 - 15%**

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	**ND**	**0.2**
Diesel Range C10 - C28	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	**ND**	**ND**	**0.0%**	**0 - 30%**
Diesel Range C10 - C28	**ND**	**ND**	**0.0%**	**0 - 30%**

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	**ND**	**250**	**250**	**100.0%**	**75 - 125%**
Diesel Range C10 - C28	**ND**	**250**	**250**	**100.0%**	**75 - 125%**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **QA/QC for samples 26443 - 26451.**

Analyst

Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	08-27-BTEX QA/QC	Date Reported:	08-27-03
Laboratory Number:	26447	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	08-27-03
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF:	C-Cal RF:	%Diff. Accept. Range 0 - 15%	Blank Conc	Detect. Limit
Benzene	4.2776E-002	4.2905E-002	0.3%	ND	0.2
Toluene	4.8966E-002	4.9064E-002	0.2%	ND	0.2
Ethylbenzene	7.4036E-002	7.4259E-002	0.3%	ND	0.2
p,m-Xylene	6.8275E-002	6.8480E-002	0.3%	ND	0.2
o-Xylene	5.5866E-002	5.5978E-002	0.2%	ND	0.1

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	51.9	53.7	3.5%	0 - 30%	1.8
Toluene	673	660	2.0%	0 - 30%	1.7
Ethylbenzene	375	368	2.0%	0 - 30%	1.5
p,m-Xylene	1,280	1,330	3.9%	0 - 30%	2.2
o-Xylene	986	1,020	3.4%	0 - 30%	1.0

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	51.9	50.0	102	100.0%	39 - 150
Toluene	673	50.0	722	99.8%	46 - 148
Ethylbenzene	375	50.0	425	99.8%	32 - 160
p,m-Xylene	1,280	100	1,370	99.3%	46 - 148
o-Xylene	986	50.0	1,030	99.4%	46 - 148

ND - Parameter not detected at the stated detection limit.

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.
Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: **QA/QC for samples 26447 - 26451.**

Analyst

Review

CHAIN OF CUSTODY RECORD

11273

ent / Project Name	Project Location	ANALYSIS / PARAMETERS *
BLAGG/JFJ	JFJ L.F.	
mpler: J-C-Blagg	Client No. 94034-010	

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TPH 9015	BTEX 8021					Remarks
PIT #200	8/26/03	1100	26447	SOIL	1	X	X					5-POINT COMP.
PIT #201	"	1110	26448	"	1	X	X					"
PIT #202	"	1119	26449	"	1	X	X					"
PIT #203	"	1127	26450	"	1	X	X					"
PIT #204/205	"	1138	26451	"	1	X	X					"

* PLEASE ONLY RUN BTEX IF TPH < 100 mg/kg

linquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
J-C-Blagg	8/26/03	1153		8/26/03	1153
linquished by: (Signature)			Received by: (Signature)		
linquished by: (Signature)			Received by: (Signature)		

ENVIROTECH INC.

5796 U.S. Highway 64
Farmington, New Mexico 87401
(505) 632-0615

Sample Receipt	Y	N	N/A
Received Intact	✓		
Cool - Ice/Blue Ice	✓		

Kieling, Martyne

From: Aaron J. Maurer [landfarm1@earthlink.net]
Sent: Thursday, September 04, 2003 12:10 PM
To: 'Kieling, Martyne'
Subject: Waste pile cleanups

Martyne,

We have just received lab results from the following bio piles and they tested clean, we would like to reuse this material to rebuild berms and as re mix material.

These are the following piles;

Pile 200, 201, 202, 203, 204, 205.

I will send the results to you certified mail.

Let me know what we need to do to be able and use the material.

Thanks,

Aaron J. Maurer
Industrial Ecosystems Inc.
"Bioremediation at its Very Best"
J.F.J. Bioremediation Facility
P.O. Box 2043
Farmington, NM 87499
(505) 632-1782 office
(505) 632-1876 fax
(505) 860-7728 mobile
landfarm1@earthlink.net

BLAGG ENGINEERING, INC.
P.O. Box 87, Bloomfield, New Mexico 87413
Phone: (505)632-1199 Fax: (505)632-3903

SENT VIA CERTIFIED MAIL

RECEIVED
AUG 0 7 2003
OIL CONSERVATION DIVISION

August 6, 2003

Ms. Martyne J. Kieling
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Re: JFJ Waste Management Facility: Permit NM-01-0010B
Quarterly Report on Treatment Zone Monitoring

Dear Ms. Kieling:

On behalf of JFJ Landfarm L.L.C., Blagg Engineering, Inc. (BEI) is submitting quarterly treatment zone monitoring test results for the JFJ Waste Management Facility pursuant to Permit NM-01-0010B. This report is for sampling conducted on July 29-30, 2003.

Sampling protocol included collection of native soils at various depths below the treatment zone in each cell using a manual hand auger. Sample depths were at 24-inches below the top surface of the treatment zone, or at hand auger refusal due to encountering a bedrock surface. Following sample collection, test borings were backfilled with powdered bentonite mixed with drill cuttings. Samples were submitted for analytical testing that included total petroleum hydrocarbons (TPH) and volatile aromatic organics (BTEX).

The landfarm has been gridded into separate cells with each cell no greater than 5-acres in size (Figure 1). Each cell has been subdivided into 8 subcells (a-h) for project tracking. With this quarterly monitoring samples were collect from the active cell units 2d, 3e, 4e, 7d, 8f, 9e, 11e, 12g and 13b. The laboratory reported a non-detection of TPH and BTEX in all samples. Test results are attached.

Questions or comments concerning this transmittal may be directed to Jeff Blagg of Blagg Engineering at (505)632-1199 or to Jake Hatcher with JFJ Landfarm L.L.C. at (505)632-1786.

Respectfully submitted:
Blagg Engineering, Inc.

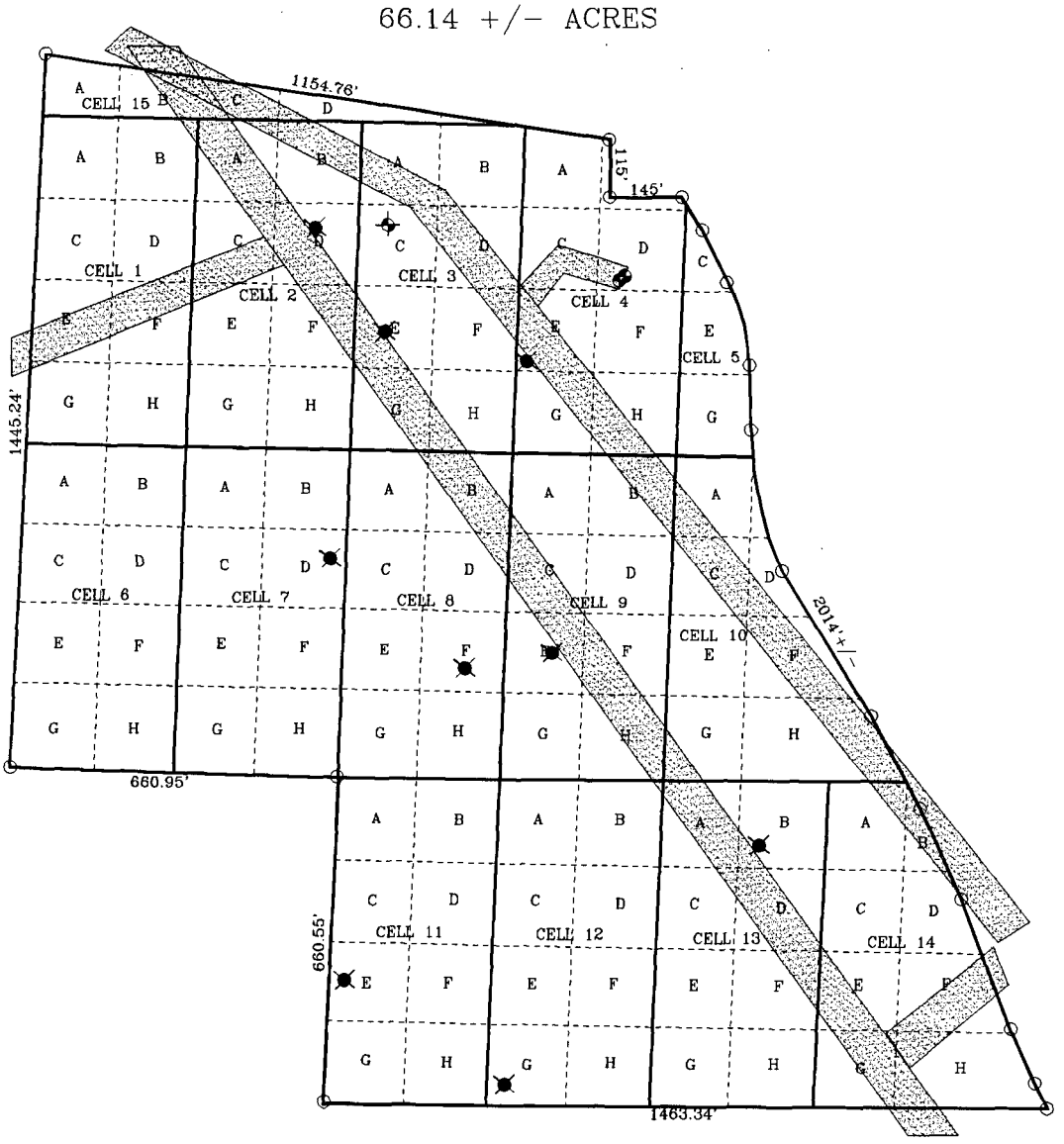
Jeffrey C. Blagg, P.E.
President

Attachments: Site Diagram
Analytical Test Reports

cc: Denny Foust, NMOCD Aztec District Office
Jake Hatcher, JFJ Farmington

MH 8-8-03

66.14 +/- ACRES



LEGEND

- Treatment Zone Sample Location
- Active Gas Well
- PxA Gas Well
- Pipeline Right-of-Way

N

0 500 1000 Feet

JFJ LANDFARM FACILITY TREATMENT ZONE MONITORING			*BLAGG ENGINEERING, INC.*
DATE: 7/2003	FIGURE 1	BY: JCB	*P.O. BOX 87, BLOOMFIELD, NM* *PHONE: (505)632-1199*

CHAIN OF CUSTODY RECORD

11190

Client / Project Name	Project Location
BLAGG/JFJ	JFJ LANDFARM
Sampler: J.C. [illegible]-99	Client No. 94034-010

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TPH 8015	BTEX 8021					Remarks
CELL 11E	7/29/03	1430		SOIL	1	X	X					18" DEPTH
CELL 12G	"	1440		"	1	X	X					24" DEPTH
CELL 13B	"	1455		"	1	X	X					24" DEPTH
CELL 9E	"	1505		"	1	X	X					12" DEPTH
CELL 8F	"	1515		"	1	X	X					24" DEPTH
CELL 7D	"	1530		"	1	X	X					24" DEPTH
CELL 4E	7/30/03	1305		"	1	X	X					24" DEPTH
CELL 3E	"	1330		"	1	X	X					18" DEPTH
CELL 2D	"	1345		"	1	X	X					24" DEPTH

ANALYSIS / PARAMETERS

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
J.C. [illegible]-99	7/30/03	1435	Dawn L. Cyrus	7/30/03	1435
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

ENVIROTECH INC.

5796 U.S. Highway 64
Farmington, New Mexico 87401
(505) 632-0615

Sample Receipt	Y	N	N/A
Received Intact	✓		
Cool - Ice/Blue Ice	✓		

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 11E	Date Reported:	07-31-03
Laboratory Number:	26210	Date Sampled:	07-29-03
Chain of Custody No:	11190	Date Received:	07-30-03
Sample Matrix:	Soil	Date Extracted:	07-31-03
Preservative:	Cool	Date Analyzed:	07-31-03
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 18" Depth.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 12G	Date Reported:	07-31-03
Laboratory Number:	26211	Date Sampled:	07-29-03
Chain of Custody No:	11190	Date Received:	07-30-03
Sample Matrix:	Soil	Date Extracted:	07-31-03
Preservative:	Cool	Date Analyzed:	07-31-03
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 24" Depth.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 13B	Date Reported:	07-31-03
Laboratory Number:	26212	Date Sampled:	07-29-03
Chain of Custody No:	11190	Date Received:	07-30-03
Sample Matrix:	Soil	Date Extracted:	07-31-03
Preservative:	Cool	Date Analyzed:	07-31-03
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 24" Depth.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 9E	Date Reported:	07-31-03
Laboratory Number:	26213	Date Sampled:	07-29-03
Chain of Custody No:	11190	Date Received:	07-30-03
Sample Matrix:	Soil	Date Extracted:	07-31-03
Preservative:	Cool	Date Analyzed:	07-31-03
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 12" Depth.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 8F	Date Reported:	07-31-03
Laboratory Number:	26214	Date Sampled:	07-29-03
Chain of Custody No:	11190	Date Received:	07-30-03
Sample Matrix:	Soil	Date Extracted:	07-31-03
Preservative:	Cool	Date Analyzed:	07-31-03
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 24" Depth.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 7D	Date Reported:	07-31-03
Laboratory Number:	26215	Date Sampled:	07-29-03
Chain of Custody No:	11190	Date Received:	07-30-03
Sample Matrix:	Soil	Date Extracted:	07-31-03
Preservative:	Cool	Date Analyzed:	07-31-03
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 24" Depth.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 4E	Date Reported:	07-31-03
Laboratory Number:	26216	Date Sampled:	07-30-03
Chain of Custody No:	11190	Date Received:	07-30-03
Sample Matrix:	Soil	Date Extracted:	07-31-03
Preservative:	Cool	Date Analyzed:	07-31-03
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 24" Depth.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 3E	Date Reported:	07-31-03
Laboratory Number:	26217	Date Sampled:	07-30-03
Chain of Custody No:	11190	Date Received:	07-30-03
Sample Matrix:	Soil	Date Extracted:	07-31-03
Preservative:	Cool	Date Analyzed:	07-31-03
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 18" Depth.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 2D	Date Reported:	07-31-03
Laboratory Number:	26218	Date Sampled:	07-30-03
Chain of Custody No:	11190	Date Received:	07-30-03
Sample Matrix:	Soil	Date Extracted:	07-31-03
Preservative:	Cool	Date Analyzed:	07-31-03
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 24" Depth.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	07-31-TPH QA/QC	Date Reported:	07-31-03
Laboratory Number:	26210	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	07-31-03
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept Range
Gasoline Range C5 - C10	04-29-03	2.6312E-002	2.6286E-002	0.10%	0 - 15%
Diesel Range C10 - C28	04-29-03	2.5849E-002	2.5823E-002	0.10%	0 - 15%

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	ND	0.2
Diesel Range C10 - C28	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	ND	ND	0.0%	0 - 30%
Diesel Range C10 - C28	ND	ND	0.0%	0 - 30%

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	ND	250	250	100.0%	75 - 125%
Diesel Range C10 - C28	ND	250	250	100.0%	75 - 125%

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **QA/QC for samples 26210 - 26218.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 11E	Date Reported:	07-31-03
Laboratory Number:	26210	Date Sampled:	07-29-03
Chain of Custody:	11190	Date Received:	07-30-03
Sample Matrix:	Soil	Date Analyzed:	07-31-03
Preservative:	Cool	Date Extracted:	07-31-03
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**ND**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**95 %**
	1,4-difluorobenzene	**95 %**
	Bromochlorobenzene	**95 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 18" Depth.**

Analyst

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 12G	Date Reported:	07-31-03
Laboratory Number:	26211	Date Sampled:	07-29-03
Chain of Custody:	11190	Date Received:	07-30-03
Sample Matrix:	Soil	Date Analyzed:	07-31-03
Preservative:	Cool	Date Extracted:	07-31-03
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**ND**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**96 %**
	1,4-difluorobenzene	**96 %**
	Bromochlorobenzene	**96 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 24" Depth.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 13B	Date Reported:	07-31-03
Laboratory Number:	26212	Date Sampled:	07-29-03
Chain of Custody:	11190	Date Received:	07-30-03
Sample Matrix:	Soil	Date Analyzed:	07-31-03
Preservative:	Cool	Date Extracted:	07-31-03
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**ND**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**96 %**
	1,4-difluorobenzene	**96 %**
	Bromochlorobenzene	**96 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 24" Depth.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 9E	Date Reported:	07-31-03
Laboratory Number:	26213	Date Sampled:	07-29-03
Chain of Custody:	11190	Date Received:	07-30-03
Sample Matrix:	Soil	Date Analyzed:	07-31-03
Preservative:	Cool	Date Extracted:	07-31-03
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**ND**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**96 %**
	1,4-difluorobenzene	**96 %**
	Bromochlorobenzene	**96 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 12" Depth.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 8F	Date Reported:	07-31-03
Laboratory Number:	26214	Date Sampled:	07-29-03
Chain of Custody:	11190	Date Received:	07-30-03
Sample Matrix:	Soil	Date Analyzed:	07-31-03
Preservative:	Cool	Date Extracted:	07-31-03
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**ND**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**96 %**
	1,4-difluorobenzene	**96 %**
	Bromochlorobenzene	**96 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 24" Depth.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 7D	Date Reported:	07-31-03
Laboratory Number:	26215	Date Sampled:	07-29-03
Chain of Custody:	11190	Date Received:	07-30-03
Sample Matrix:	Soil	Date Analyzed:	07-31-03
Preservative:	Cool	Date Extracted:	07-31-03
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**ND**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**96 %**
	1,4-difluorobenzene	**96 %**
	Bromochlorobenzene	**96 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 24" Depth.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 4E	Date Reported:	07-31-03
Laboratory Number:	26216	Date Sampled:	07-30-03
Chain of Custody:	11190	Date Received:	07-30-03
Sample Matrix:	Soil	Date Analyzed:	07-31-03
Preservative:	Cool	Date Extracted:	07-31-03
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**ND**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**96 %**
	1,4-difluorobenzene	**96 %**
	Bromochlorobenzene	**96 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 24" Depth.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 3E	Date Reported:	07-31-03
Laboratory Number:	26217	Date Sampled:	07-30-03
Chain of Custody:	11190	Date Received:	07-30-03
Sample Matrix:	Soil	Date Analyzed:	07-31-03
Preservative:	Cool	Date Extracted:	07-31-03
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**ND**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**96 %**
	1,4-difluorobenzene	**96 %**
	Bromochlorobenzene	**96 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 18" Depth.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 2D	Date Reported:	07-31-03
Laboratory Number:	26218	Date Sampled:	07-30-03
Chain of Custody:	11190	Date Received:	07-30-03
Sample Matrix:	Soil	Date Analyzed:	07-31-03
Preservative:	Cool	Date Extracted:	07-31-03
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**ND**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**96 %**
	1,4-difluorobenzene	**96 %**
	Bromochlorobenzene	**96 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 24" Depth.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	07-31-BTEX QA/QC	Date Reported:	07-31-03
Laboratory Number:	26210	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	07-31-03
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF:	C-Cal RF:	%Diff. Accept. Range 0 - 15%	Blank Conc.	Detect. Limit
Benzene	3.7241E-002	3.7353E-002	0.3%	ND	0.2
Toluene	4.4375E-002	4.4464E-002	0.2%	ND	0.2
Ethylbenzene	7.5434E-002	7.5661E-002	0.3%	ND	0.2
p,m-Xylene	6.7602E-002	6.7806E-002	0.3%	ND	0.2
o-Xylene	5.7973E-002	5.8089E-002	0.2%	ND	0.1

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	ND	ND	0.0%	0 - 30%	1.8
Toluene	ND	ND	0.0%	0 - 30%	1.7
Ethylbenzene	ND	ND	0.0%	0 - 30%	1.5
p,m-Xylene	ND	ND	0.0%	0 - 30%	2.2
o-Xylene	ND	ND	0.0%	0 - 30%	1.0

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	50.0	49.9	99.8%	39 - 150
Toluene	ND	50.0	49.9	99.8%	46 - 148
Ethylbenzene	ND	50.0	49.9	99.8%	32 - 160
p,m-Xylene	ND	100	99.9	99.9%	46 - 148
o-Xylene	ND	50.0	49.9	99.8%	46 - 148

ND - Parameter not detected at the stated detection limit.

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.
Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: **QA/QC for samples 26210 - 26218.**

Analyst

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BLAGG ENGINEERING, INC.
P.O. Box 87, Bloomfield, New Mexico 87413
Phone: (505)632-1199 Fax: (505)632-3903

RECEIVED
APR 23 2003
Environmental Bureau
Oil Conservation Division

SENT VIA CERTIFIED MAIL

April 22, 2003

Ms. Martyne J. Kieling
New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Re: JFJ Waste Management Facility: Permit NM-01-0010B
Quarterly Report on Treatment Zone Monitoring

Dear Ms. Kieling:

On behalf of JFJ Landfarm L.L.C., Blagg Engineering, Inc. (BEI) is submitting quarterly treatment zone monitoring test results for the JFJ Waste Management Facility pursuant to Permit NM-01-0010B. This report is for sampling conducted on April 16 - 17, 2003.

Sampling protocol included collection of native soils at a depth of 2'–3' below the treatment zone in each cell using a mobile auger drill unit. Following sample collection, test borings were backfilled with powdered bentonite mixed with drill cuttings. Samples were submitted for analytical testing that included total petroleum hydrocarbons (TPH) and volatile aromatic organics (BTEX).

The landfarm has been gridded into 15 separate cells with each cell no greater than 5-acres in size (Figure 1). For this quarterly monitoring, Cell No's 2, 3, 4, 7, 8, 9, 11, 12 and 13 were included in the test program. The remaining untested cells are presently unused or have minimal usage. In the event that one of these cells is placed into active service, background sampling will be conducted pursuant to permit requirements. The laboratory reported a non-detection of TPH and BTEX in all samples.

Questions or comments concerning this transmittal may be directed to Jeff Blagg of Blagg Engineering at (505)632-1199 or to Jake Hatcher with JFJ Landfarm L.L.C. at (505)632-1786.

Respectfully submitted:
Blagg Engineering, Inc.

Jeffrey C. Blagg

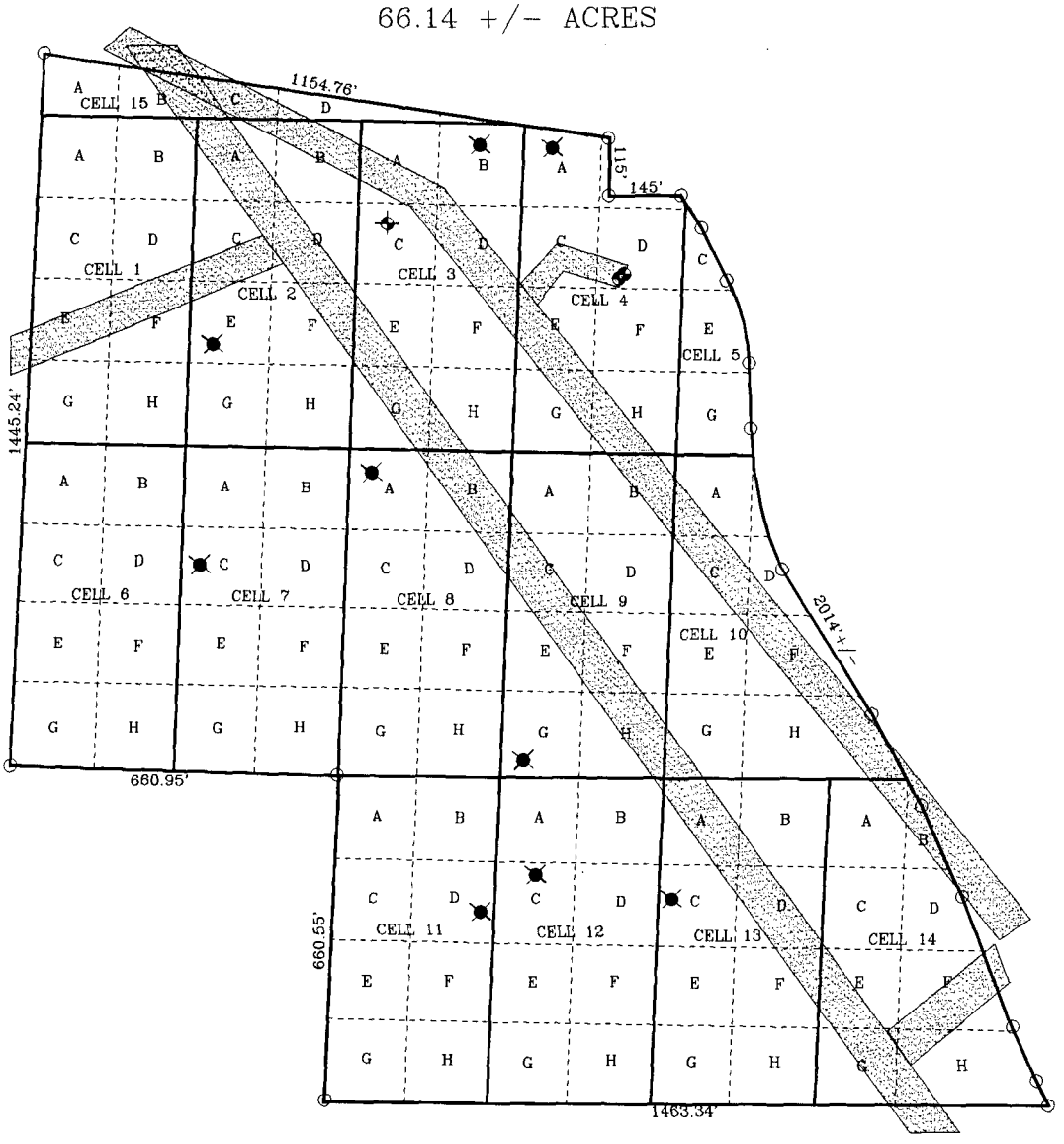
Jeffrey C. Blagg, P.E.
President

Attachments: Site Diagram
Analytical Test Reports

cc: Denny Foust, NMOCD Aztec District Office
Jake Hatcher, JFJ Farmington

mjk 4-23-03

66.14 +/- ACRES



LEGEND

- Treatment Zone Sample Location
- Active Gas Well
- PxA Gas Well
- Pipeline Right-of-Way

N

0 500 1000 Feet

JFJ LANDFARM FACILITY TREATMENT ZONE MONITORING			*BLAGG ENGINEERING, INC.*
DATE: 4/2003	FIGURE 1	BY: JCB	*P.O. BOX 87, BLOOMFIELD, NM* *PHONE: (505)632-1199*

CHAIN OF CUSTODY RECORD

10833

Client / Project Name	Project Location	ANALYSIS / PARAMETERS
BLAGG/IEI	JFJ LANDFARM	
Sampler: J-C-Bloom	Client No. 94034-010	

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TPH 8015	BTEX 8021					Remarks
CELL 11 D	4/16/3	1118	25381	SOIL	1	X	X					2'-3' BELOW TREATMENT ZONE
CELL 12 C	"	1131	25382	"	1	X	X					"
CELL 13 C	4/17/3	0940	25383	"	1	X	X					"
CELL 7 C	"	0953	25384	"	1	X	X					"
CELL 8A	"	1014	25385	"	1	X	X					"
CELL 9G	"	1040	25386	"	1	X	X					"
CELL 2 C	"	1057	25387	"	1	X	X					"
CELL 3 B	"	1120	25388	"	1	X	X					"
CELL 4A	"	1142	25389	"	1	X	X					"

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
J-C-Bloom	4/17/03	1203	Kristen M White	4/17/03	1230
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

ENVIROTECH INC.

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Farmington, New Mexico 87401
(505) 632-0615

Sample Receipt	Y	N	N/A
Received Intact	✓		
Cool - Ice/Blue Ice	✓		

ENVIROTECH INC.

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 11 D	Date Reported:	04-21-03
Laboratory Number:	25381	Date Sampled:	04-16-03
Chain of Custody No:	10833	Date Received:	04-17-03
Sample Matrix:	Soil	Date Extracted:	04-18-03
Preservative:	Cool	Date Analyzed:	04-21-03
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2'-3' below treatment zone.**

Analyst

Review

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ENVIROTECH INC.

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 12 C	Date Reported:	04-21-03
Laboratory Number:	25382	Date Sampled:	04-16-03
Chain of Custody No:	10833	Date Received:	04-17-03
Sample Matrix:	Soil	Date Extracted:	04-18-03
Preservative:	Cool	Date Analyzed:	04-21-03
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2'-3' below treatment zone.**

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ENVIROTECH INC.

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 13 C	Date Reported:	04-21-03
Laboratory Number:	25383	Date Sampled:	04-17-03
Chain of Custody No:	10833	Date Received:	04-17-03
Sample Matrix:	Soil	Date Extracted:	04-18-03
Preservative:	Cool	Date Analyzed:	04-21-03
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2'-3' below treatment zone.**

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ENVIROTECH INC.

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 7 C	Date Reported:	04-21-03
Laboratory Number:	25384	Date Sampled:	04-17-03
Chain of Custody No:	10833	Date Received:	04-17-03
Sample Matrix:	Soil	Date Extracted:	04-18-03
Preservative:	Cool	Date Analyzed:	04-21-03
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2'-3' below treatment zone.**

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ENVIROTECH INC.

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 8 A	Date Reported:	04-21-03
Laboratory Number:	25385	Date Sampled:	04-17-03
Chain of Custody No:	10833	Date Received:	04-17-03
Sample Matrix:	Soil	Date Extracted:	04-18-03
Preservative:	Cool	Date Analyzed:	04-21-03
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2'-3' below treatment zone.**

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ENVIROTECH INC.

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 9 G	Date Reported:	04-21-03
Laboratory Number:	25386	Date Sampled:	04-17-03
Chain of Custody No:	10833	Date Received:	04-17-03
Sample Matrix:	Soil	Date Extracted:	04-18-03
Preservative:	Cool	Date Analyzed:	04-21-03
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2'-3' below treatment zone.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 2 C	Date Reported:	04-21-03
Laboratory Number:	25387	Date Sampled:	04-17-03
Chain of Custody No:	10833	Date Received:	04-17-03
Sample Matrix:	Soil	Date Extracted:	04-18-03
Preservative:	Cool	Date Analyzed:	04-21-03
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2'-3' below treatment zone.**

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ENVIROTECH INC.

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 3 B	Date Reported:	04-21-03
Laboratory Number:	25388	Date Sampled:	04-17-03
Chain of Custody No:	10833	Date Received:	04-17-03
Sample Matrix:	Soil	Date Extracted:	04-18-03
Preservative:	Cool	Date Analyzed:	04-21-03
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2'-3' below treatment zone.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 4 A	Date Reported:	04-21-03
Laboratory Number:	25389	Date Sampled:	04-17-03
Chain of Custody No:	10833	Date Received:	04-17-03
Sample Matrix:	Soil	Date Extracted:	04-18-03
Preservative:	Cool	Date Analyzed:	04-21-03
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2'-3' below treatment zone.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	04-21-TPH QA/QC	Date Reported:	04-21-03
Laboratory Number:	25381	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	04-21-03
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
Gasoline Range C5 - C10	04-25-02	2.7355E-002	2.7328E-002	0.10%	0 - 15%
Diesel Range C10 - C28	04-25-02	2.4557E-002	2.4508E-002	0.20%	0 - 15%

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	ND	0.2
Diesel Range C10 - C28	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	ND	ND	0.0%	0 - 30%
Diesel Range C10 - C28	ND	ND	0.0%	0 - 30%

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	ND	250	250	100.0%	75 - 125%
Diesel Range C10 - C28	ND	250	250	100.0%	75 - 125%

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **QA/QC for samples 25381 - 25389.**

Analyst

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ENVIROTECH INC.

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 11 D	Date Reported:	04-21-03
Laboratory Number:	25381	Date Sampled:	04-16-03
Chain of Custody:	10833	Date Received:	04-17-03
Sample Matrix:	Soil	Date Analyzed:	04-21-03
Preservative:	Cool	Date Extracted:	04-18-03
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	1.8
Toluene	ND	1.7
Ethylbenzene	ND	1.5
p,m-Xylene	ND	2.2
o-Xylene	ND	1.0
Total BTEX	ND	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	98 %
	1,4-difluorobenzene	98 %
	Bromochlorobenzene	98 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ landfarm 2'-3' below treatment zone.**

Analyst

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ENVIROTECH INC.

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 12 C	Date Reported:	04-21-03
Laboratory Number:	25382	Date Sampled:	04-16-03
Chain of Custody:	10833	Date Received:	04-17-03
Sample Matrix:	Soil	Date Analyzed:	04-21-03
Preservative:	Cool	Date Extracted:	04-18-03
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	1.8
Toluene	ND	1.7
Ethylbenzene	ND	1.5
p,m-Xylene	ND	2.2
o-Xylene	ND	1.0
Total BTEX	ND	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	99 %
	1,4-difluorobenzene	99 %
	Bromochlorobenzene	99 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ landfarm 2'-3' below treatment zone.**

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ENVIROTECH INC.

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 13 C	Date Reported:	04-21-03
Laboratory Number:	25383	Date Sampled:	04-17-03
Chain of Custody:	10833	Date Received:	04-17-03
Sample Matrix:	Soil	Date Analyzed:	04-21-03
Preservative:	Cool	Date Extracted:	04-18-03
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	1.8
Toluene	ND	1.7
Ethylbenzene	ND	1.5
p,m-Xylene	ND	2.2
o-Xylene	ND	1.0
Total BTEX	ND	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:

Parameter	Percent Recovery
Fluorobenzene	99 %
1,4-difluorobenzene	99 %
Bromochlorobenzene	99 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ landfarm 2'-3' below treatment zone.**

Analyst

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ENVIROTECH INC.

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 7 C	Date Reported:	04-21-03
Laboratory Number:	25384	Date Sampled:	04-17-03
Chain of Custody:	10833	Date Received:	04-17-03
Sample Matrix:	Soil	Date Analyzed:	04-21-03
Preservative:	Cool	Date Extracted:	04-18-03
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**ND**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**99 %**
	1,4-difluorobenzene	**99 %**
	Bromochlorobenzene	**99 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ landfarm 2'-3' below treatment zone.**

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ENVIROTECH INC.

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 8 A	Date Reported:	04-21-03
Laboratory Number:	25385	Date Sampled:	04-17-03
Chain of Custody:	10833	Date Received:	04-17-03
Sample Matrix:	Soil	Date Analyzed:	04-21-03
Preservative:	Cool	Date Extracted:	04-18-03
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	1.8
Toluene	ND	1.7
Ethylbenzene	ND	1.5
p,m-Xylene	ND	2.2
o-Xylene	ND	1.0
Total BTEX	ND	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	99 %
	1,4-difluorobenzene	99 %
	Bromochlorobenzene	99 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ landfarm 2'-3' below treatment zone.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 9 G	Date Reported:	04-21-03
Laboratory Number:	25386	Date Sampled:	04-17-03
Chain of Custody:	10833	Date Received:	04-17-03
Sample Matrix:	Soil	Date Analyzed:	04-21-03
Preservative:	Cool	Date Extracted:	04-18-03
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	1.8
Toluene	ND	1.7
Ethylbenzene	ND	1.5
p,m-Xylene	ND	2.2
o-Xylene	ND	1.0
Total BTEX	ND	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	99 %
	1,4-difluorobenzene	99 %
	Bromochlorobenzene	99 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ landfarm 2'-3' below treatment zone.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 2 C	Date Reported:	04-21-03
Laboratory Number:	25387	Date Sampled:	04-17-03
Chain of Custody:	10833	Date Received:	04-17-03
Sample Matrix:	Soil	Date Analyzed:	04-21-03
Preservative:	Cool	Date Extracted:	04-18-03
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	1.8
Toluene	ND	1.7
Ethylbenzene	ND	1.5
p,m-Xylene	ND	2.2
o-Xylene	ND	1.0
Total BTEX	ND	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	99 %
	1,4-difluorobenzene	99 %
	Bromochlorobenzene	99 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ landfarm 2'-3' below treatment zone.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 3 B	Date Reported:	04-21-03
Laboratory Number:	25388	Date Sampled:	04-17-03
Chain of Custody:	10833	Date Received:	04-17-03
Sample Matrix:	Soil	Date Analyzed:	04-21-03
Preservative:	Cool	Date Extracted:	04-18-03
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	1.8
Toluene	ND	1.7
Ethylbenzene	ND	1.5
p,m-Xylene	ND	2.2
o-Xylene	ND	1.0
Total BTEX	ND	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	99 %
	1,4-difluorobenzene	99 %
	Bromochlorobenzene	99 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ landfarm 2'-3' below treatment zone.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 4 A	Date Reported:	04-21-03
Laboratory Number:	25389	Date Sampled:	04-17-03
Chain of Custody:	10833	Date Received:	04-17-03
Sample Matrix:	Soil	Date Analyzed:	04-21-03
Preservative:	Cool	Date Extracted:	04-18-03
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	1.8
Toluene	ND	1.7
Ethylbenzene	ND	1.5
p,m-Xylene	ND	2.2
o-Xylene	ND	1.0
Total BTEX	ND	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	99 %
	1,4-difluorobenzene	99 %
	Bromochlorobenzene	99 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ landfarm 2'-3' below treatment zone.**

Analyst

Review

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ENVIROTECH INC.

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	04-21-BTEX QA/QC	Date Reported:	04-21-03
Laboratory Number:	25381	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	04-21-03
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF:	C-Cal RF:	%Diff. Accept. Range 0 - 15%	Blank Conc	Detect. Limit
Benzene	3.7241E-002	3.7353E-002	0.3%	ND	0.2
Toluene	4.4375E-002	4.4464E-002	0.2%	ND	0.2
Ethylbenzene	7.5434E-002	7.5661E-002	0.3%	ND	0.2
p,m-Xylene	6.7602E-002	6.7806E-002	0.3%	ND	0.2
o-Xylene	5.7973E-002	5.8089E-002	0.2%	ND	0.1

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	ND	ND	0.0%	0 - 30%	1.8
Toluene	ND	ND	0.0%	0 - 30%	1.7
Ethylbenzene	ND	ND	0.0%	0 - 30%	1.5
p,m-Xylene	ND	ND	0.0%	0 - 30%	2.2
o-Xylene	ND	ND	0.0%	0 - 30%	1.0

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	50.0	49.9	99.8%	39 - 150
Toluene	ND	50.0	49.9	99.8%	46 - 148
Ethylbenzene	ND	50.0	49.9	99.8%	32 - 160
p,m-Xylene	ND	100	99.8	99.8%	46 - 148
o-Xylene	ND	50.0	49.9	99.8%	46 - 148

ND - Parameter not detected at the stated detection limit.

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.
Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: QA/QC for samples 25381 - 25389.

Analyst

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BLAGG ENGINEERING, INC.
P.O. Box 87, Bloomfield, New Mexico 87413
Phone: (505)632-1199 Fax: (505)632-3903

RECEIVED
JAN 0 6 2003
Environmental Bureau
Oil Conservation Division

SENT VIA CERTIFIED MAIL

January 3, 2003

Ms. Martyne J. Kieling
New Mexico Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505

Re: JFJ Waste Management Facility: Permit NM-01-0010B
Quarterly Report on Treatment Zone Monitoring

Dear Ms. Kieling:

On behalf of JFJ Landfarm L.L.C., Blagg Engineering, Inc. (BEI) is submitting treatment zone monitoring test results for the JFJ Waste Management Facility pursuant to Permit NM-01-0010B. The permit requires quarterly treatment zone monitoring and reporting. This report is for sampling conducted on December 19, 2002.

Sampling protocol specifies that a subsurface sample is to be collected in the native ground surface at a depth of 2'–3' below the treatment zone in each cell during quarterly monitoring. Analytical test procedures included with this transmittal include total petroleum hydrocarbons (TPH) and volatile aromatic organics (BTEX). Heavy metals and major cations/anions will be included with the annual report.

The landfarm has been gridded into 15 separate cells with each cell no greater than 5-acres in size (Figure 1). For this quarterly monitoring, Cell No's 2, 3, 4, 7, 8, 9, 11, 12 and 13 were included in the test program. The remaining untested cells are presently unused or have minimal usage. In the event that one of these cells is placed into active service, background sampling will be conducted pursuant to permit requirements. Included with this transmittal are the complete test reports for the treatment zone monitoring. The laboratory reported a non-detection of TPH and BTEX in all samples.

MJK 1-14-03

Questions or comments concerning this transmittal may be directed to Jeff Blagg of Blagg Engineering at (505)632-1199 or to Jake Hatcher with JFJ Landfarm L.L.C. at (505)632-1786.

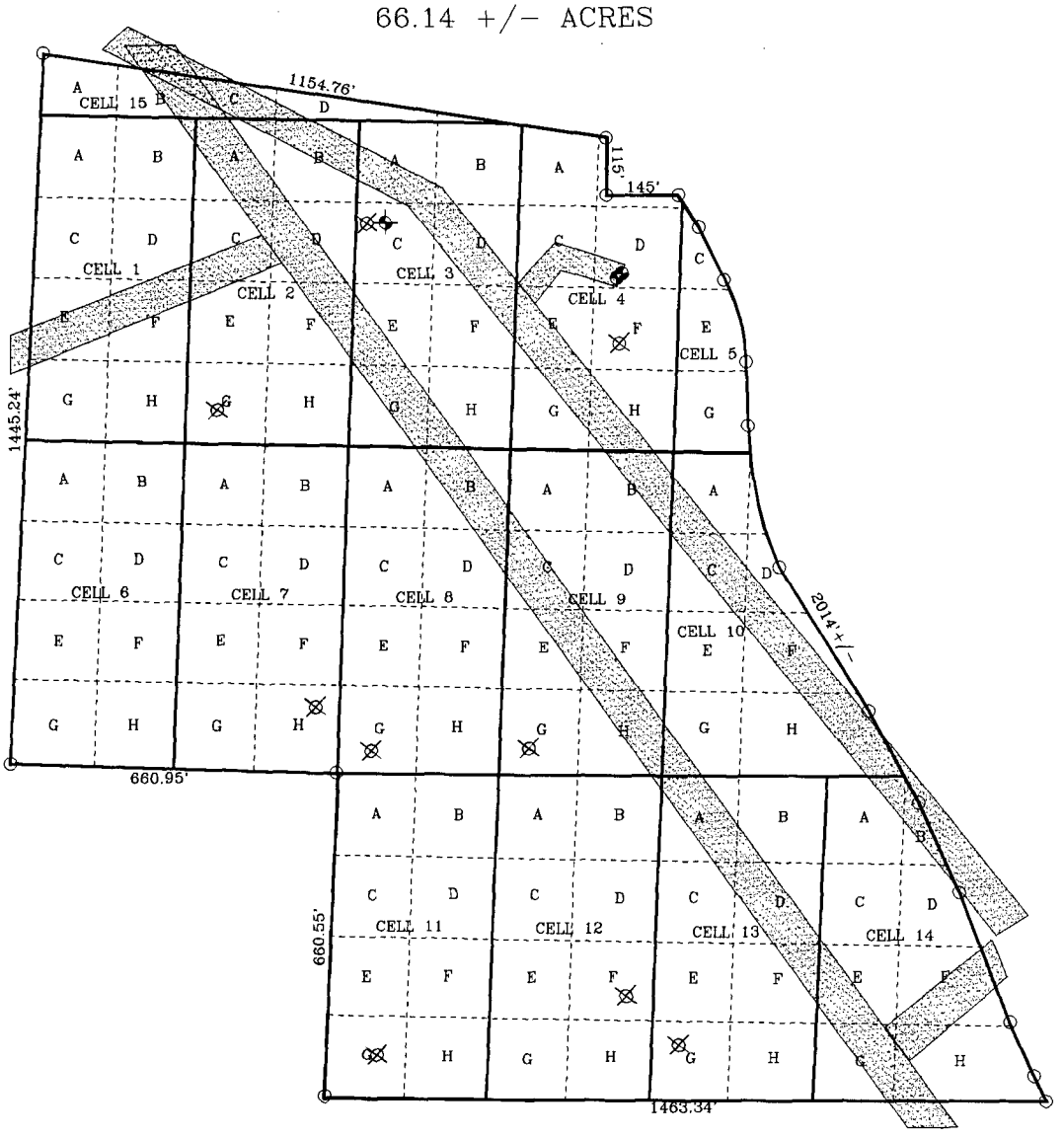
Respectfully submitted:
Blagg Engineering, Inc.

Jeffrey C. Blagg, P.E.
President

Attachments: Site Diagram
Soil Treatment Zone Monitoring Reports

cc: Denny Foust, NMOCD Aztec District Office
Jake Hatcher, JFJ Farmington

66.14 +/- ACRES



LEGEND

- Treatment Zone Sample Location
- Active Gas Well
- PxA Gas Well
- Pipeline Right-of-Way

N

0 500 1000 Feet

JFJ LANDFARM FACILITY TREATMENT ZONE MONITORING			BLAGG ENGINEERING, INC.
DATE: 12/2002	FIGURE 1	BY: JCB	P.O. BOX 87, BLOOMFIELD, NM PHONE: (505)632-1199

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 11 G	Date Reported:	12-20-02
Laboratory Number:	24444	Date Sampled:	12-19-02
Chain of Custody No:	10476	Date Received:	12-19-02
Sample Matrix:	Soil	Date Extracted:	12-20-02
Preservative:	Cool	Date Analyzed:	12-20-02
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2' - 3' Below Grade.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 12 F	Date Reported:	12-20-02
Laboratory Number:	24445	Date Sampled:	12-19-02
Chain of Custody No:	10476	Date Received:	12-19-02
Sample Matrix:	Soil	Date Extracted:	12-20-02
Preservative:	Cool	Date Analyzed:	12-20-02
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2' - 3' Below Grade.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 13 G	Date Reported:	12-20-02
Laboratory Number:	24446	Date Sampled:	12-19-02
Chain of Custody No:	10476	Date Received:	12-19-02
Sample Matrix:	Soil	Date Extracted:	12-20-02
Preservative:	Cool	Date Analyzed:	12-20-02
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2' - 3' Below Grade.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 9 G	Date Reported:	12-20-02
Laboratory Number:	24447	Date Sampled:	12-19-02
Chain of Custody No:	10476	Date Received:	12-19-02
Sample Matrix:	Soil	Date Extracted:	12-20-02
Preservative:	Cool	Date Analyzed:	12-20-02
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2' - 3' Below Grade.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 8 G	Date Reported:	12-20-02
Laboratory Number:	24448	Date Sampled:	12-19-02
Chain of Custody No:	10476	Date Received:	12-19-02
Sample Matrix:	Soil	Date Extracted:	12-20-02
Preservative:	Cool	Date Analyzed:	12-20-02
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2' - 3' Below Grade.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 7 H	Date Reported:	12-20-02
Laboratory Number:	24449	Date Sampled:	12-19-02
Chain of Custody No:	10476	Date Received:	12-19-02
Sample Matrix:	Soil	Date Extracted:	12-20-02
Preservative:	Cool	Date Analyzed:	12-20-02
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2' - 3' Below Grade.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 2 G	Date Reported:	12-20-02
Laboratory Number:	24450	Date Sampled:	12-19-02
Chain of Custody No:	10476	Date Received:	12-19-02
Sample Matrix:	Soil	Date Extracted:	12-20-02
Preservative:	Cool	Date Analyzed:	12-20-02
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2' - 3' Below Grade.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 3 C	Date Reported:	12-20-02
Laboratory Number:	24451	Date Sampled:	12-19-02
Chain of Custody No:	10476	Date Received:	12-19-02
Sample Matrix:	Soil	Date Extracted:	12-20-02
Preservative:	Cool	Date Analyzed:	12-20-02
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2' - 3' Below Grade.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 4 F	Date Reported:	12-20-02
Laboratory Number:	24452	Date Sampled:	12-19-02
Chain of Custody No:	10476	Date Received:	12-19-02
Sample Matrix:	Soil	Date Extracted:	12-20-02
Preservative:	Cool	Date Analyzed:	12-20-02
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2' - 3' Below Grade.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	12-20-TPH QA/QC	Date Reported:	12-20-02
Laboratory Number:	24444	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	12-20-02
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
Gasoline Range C5 - C10	04-25-02	2.0874E-002	2.0853E-002	0.10%	0 - 15%
Diesel Range C10 - C28	04-25-02	1.2318E-002	1.2293E-002	0.20%	0 - 15%

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	ND	0.2
Diesel Range C10 - C28	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	ND	ND	0.0%	0 - 30%
Diesel Range C10 - C28	ND	ND	0.0%	0 - 30%

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	ND	250	249	99.4%	75 - 125%
Diesel Range C10 - C28	ND	250	250	100.0%	75 - 125%

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **QA/QC for samples 24444 - 24452, 24464.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 11 G	Date Reported:	12-20-02
Laboratory Number:	24444	Date Sampled:	12-19-02
Chain of Custody:	10476	Date Received:	12-19-02
Sample Matrix:	Soil	Date Analyzed:	12-20-02
Preservative:	Cool	Date Extracted:	12-20-02
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**ND**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**96 %**
	1,4-difluorobenzene	**96 %**
	Bromochlorobenzene	**96 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2' - 3' Below Grade.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 12 F	Date Reported:	12-20-02
Laboratory Number:	24445	Date Sampled:	12-19-02
Chain of Custody:	10476	Date Received:	12-19-02
Sample Matrix:	Soil	Date Analyzed:	12-20-02
Preservative:	Cool	Date Extracted:	12-20-02
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**ND**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**97 %**
	1,4-difluorobenzene	**97 %**
	Bromochlorobenzene	**97 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2' - 3' Below Grade.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 13 G	Date Reported:	12-20-02
Laboratory Number:	24446	Date Sampled:	12-19-02
Chain of Custody:	10476	Date Received:	12-19-02
Sample Matrix:	Soil	Date Analyzed:	12-20-02
Preservative:	Cool	Date Extracted:	12-20-02
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	1.8
Toluene	ND	1.7
Ethylbenzene	ND	1.5
p,m-Xylene	ND	2.2
o-Xylene	ND	1.0
Total BTEX	ND	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:

Parameter	Percent Recovery
Fluorobenzene	97 %
1,4-difluorobenzene	97 %
Bromochlorobenzene	97 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2' - 3' Below Grade.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 9 G	Date Reported:	12-20-02
Laboratory Number:	24447	Date Sampled:	12-19-02
Chain of Custody:	10476	Date Received:	12-19-02
Sample Matrix:	Soil	Date Analyzed:	12-20-02
Preservative:	Cool	Date Extracted:	12-20-02
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**ND**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**97 %**
	1,4-difluorobenzene	**97 %**
	Bromochlorobenzene	**97 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2' - 3' Below Grade.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 8 G	Date Reported:	12-20-02
Laboratory Number:	24448	Date Sampled:	12-19-02
Chain of Custody:	10476	Date Received:	12-19-02
Sample Matrix:	Soil	Date Analyzed:	12-20-02
Preservative:	Cool	Date Extracted:	12-20-02
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	1.8
Toluene	ND	1.7
Ethylbenzene	ND	1.5
p,m-Xylene	ND	2.2
o-Xylene	ND	1.0
Total BTEX	ND	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	97 %
	1,4-difluorobenzene	97 %
	Bromochlorobenzene	97 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2' - 3' Below Grade.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 7 H	Date Reported:	12-20-02
Laboratory Number:	24449	Date Sampled:	12-19-02
Chain of Custody:	10476	Date Received:	12-19-02
Sample Matrix:	Soil	Date Analyzed:	12-20-02
Preservative:	Cool	Date Extracted:	12-20-02
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	1.8
Toluene	ND	1.7
Ethylbenzene	ND	1.5
p,m-Xylene	ND	2.2
o-Xylene	ND	1.0
Total BTEX	ND	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	97 %
	1,4-difluorobenzene	97 %
	Bromochlorobenzene	97 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: JFJ Landfarm 2' - 3' Below Grade.

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 2 G	Date Reported:	12-20-02
Laboratory Number:	24450	Date Sampled:	12-19-02
Chain of Custody:	10476	Date Received:	12-19-02
Sample Matrix:	Soil	Date Analyzed:	12-20-02
Preservative:	Cool	Date Extracted:	12-20-02
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**ND**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**97 %**
	1,4-difluorobenzene	**97 %**
	Bromochlorobenzene	**97 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2' - 3' Below Grade.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 3 C	Date Reported:	12-20-02
Laboratory Number:	24451	Date Sampled:	12-19-02
Chain of Custody:	10476	Date Received:	12-19-02
Sample Matrix:	Soil	Date Analyzed:	12-20-02
Preservative:	Cool	Date Extracted:	12-20-02
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	1.8
Toluene	ND	1.7
Ethylbenzene	ND	1.5
p,m-Xylene	ND	2.2
o-Xylene	ND	1.0
Total BTEX	ND	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:

Parameter	Percent Recovery
Fluorobenzene	97 %
1,4-difluorobenzene	97 %
Bromochlorobenzene	97 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2' - 3' Below Grade.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / JFJ	Project #:	94034-010
Sample ID:	Cell 4 F	Date Reported:	12-20-02
Laboratory Number:	24452	Date Sampled:	12-19-02
Chain of Custody:	10476	Date Received:	12-19-02
Sample Matrix:	Soil	Date Analyzed:	12-20-02
Preservative:	Cool	Date Extracted:	12-20-02
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**ND**	**1.7**
Ethylbenzene	**ND**	**1.5**
p,m-Xylene	**ND**	**2.2**
o-Xylene	**ND**	**1.0**
Total BTEX	**ND**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**97 %**
	1,4-difluorobenzene	**97 %**
	Bromochlorobenzene	**97 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm 2' - 3' Below Grade.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	12-20-BTEX QA/QC	Date Reported:	12-20-02
Laboratory Number:	24444	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	12-20-02
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF:	C-Cal RF:	%Diff. Accept. Range 0 - 15%	Blank Conc	Detect. Limit
Benzene	2.6914E-002	2.6995E-002	0.3%	ND	0.2
Toluene	3.3709E-002	3.3777E-002	0.2%	ND	0.2
Ethylbenzene	5.8262E-002	5.8438E-002	0.3%	ND	0.2
p,m-Xylene	7.1891E-002	7.2107E-002	0.3%	ND	0.2
o-Xylene	5.4522E-002	5.4631E-002	0.2%	ND	0.1

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	ND	ND	0.0%	0 - 30%	1.8
Toluene	ND	ND	0.0%	0 - 30%	1.7
Ethylbenzene	ND	ND	0.0%	0 - 30%	1.5
p,m-Xylene	ND	ND	0.0%	0 - 30%	2.2
o-Xylene	ND	ND	0.0%	0 - 30%	1.0

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	50.0	49.9	99.8%	39 - 150
Toluene	ND	50.0	49.9	99.8%	46 - 148
Ethylbenzene	ND	50.0	49.9	99.8%	32 - 160
p,m-Xylene	ND	100	99.8	99.8%	46 - 148
o-Xylene	ND	50.0	49.9	99.8%	46 - 148

ND - Parameter not detected at the stated detection limit.

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.
Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: QA/QC for samples 24444 - 24452.

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10476

CHAIN OF CUSTODY RECORD

Client / Project Name	Project Location
BLAGG/JFJ	JFJ LANDFARM
Sampler: J.C. Blagg	Client No. 94034-010

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TPH 8015	BTEX 8021					Remarks
CELL 11G	12/19/2	0915	24444	SOIL	1	X	X					2'-3' Below Grade
CELL 12F	"	0955	24445	"	1	X	X					"
CELL 13G	"	1005	24446	"	1	X	X					"
CELL 9G	"	1030	24447	"	1	X	X					"
CELL 8G	"	1050	24448	"	1	X	X					"
CELL 7H	"	1104	24449	"	1	X	X					"
CELL 2G	"	1120	24450	"	1	X	X					"
CELL 3C	"	1140	24451	"	1	X	X					"
CELL 4F	"	1202	24452	"	1	X	X					"

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
J.C. Blagg	12/19/02	1238	[signature]	12-19-02	1238
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

ENVIROTECH INC.

5796 U.S. Highway 64
Farmington, New Mexico 87401
(505) 632-0615

Sample Receipt	Y	N	N/A
Received Intact	✓		
Cool - Ice/Blue Ice	✓		