

NM1 – 10B

**MONITORING
REPORTS**

YEAR(S):

2008-2010

BLAGG ENGINEERING, INC.

P.O. Box 87, Bloomfield, New Mexico 87413

Phone: (505)632-1199 Fax: (505)632-3903

CERTIFIED

7007 0220 0004 3556 7691

RECEIVED OOD

2010 NOV -5 P 12: 54

November 3, 2010

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:

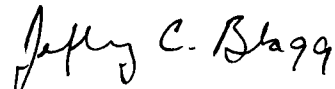
On behalf of JFJ Landfarm L.L.C., Blagg Engineering, Inc. (BEI) is submitting quarterly treatment zone monitoring test results for the JFJ Waste Management Facility pursuant to Permit NM-01-0010B. This report is for sampling conducted on October 5, 2010.

Sampling protocol included collection of native soils below the treatment zone. A trackhoe was used to remove loose compost surface soils, and a sample spade was used to collect soil samples in the vadose zone at each testing point. 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, total chloride by U.S. EPA 300, cations/anion balance and RCRA metals. Samples were collected from active cell units 2e, 3b, 4e, 7f, 8f, 9h, 11d, 12c and 13c (Figure 1). All testing found total petroleum hydrocarbons were within permit limits (100 mg/Kg) and non-detect for BTEX analysis.

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:

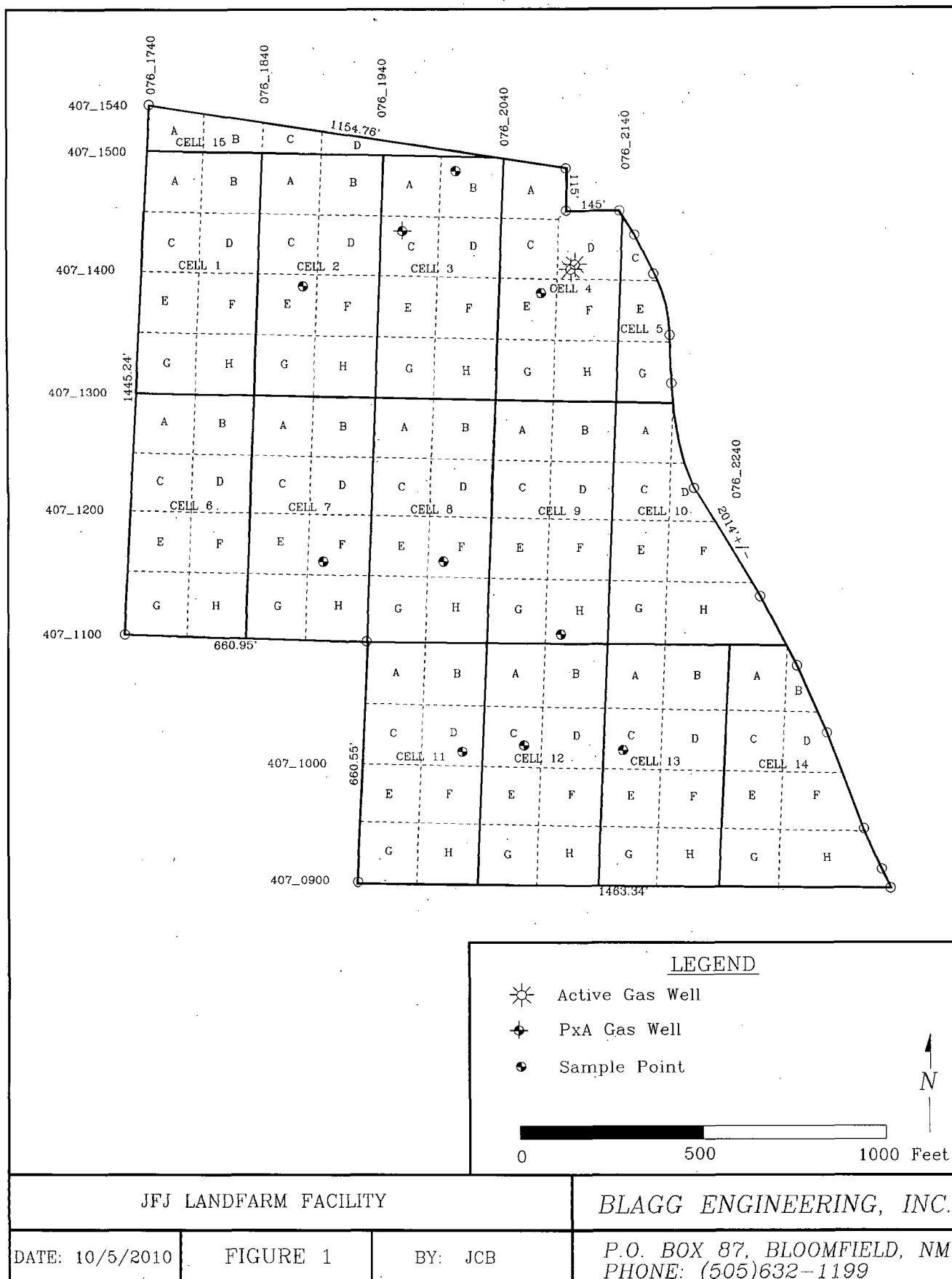
Blagg Engineering, Inc.



Jeffrey C. Blagg, P.E.
President

Attachments: Site Diagram
Analytical Test Reports

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





COVER LETTER

Thursday, October 28, 2010

Jeff Blagg
Blagg Engineering
P. O. Box 87
Bloomfield, NM 87413
TEL: (505) 632-1199
FAX (505) 632-3903

RE: JFJ LF

Order No.: 1010241

Dear Jeff Blagg:

Hall Environmental Analysis Laboratory, Inc. received 9 sample(s) on 10/6/2010 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites.

Reporting limits are determined by EPA methodology.

Please do not hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman, Laboratory Manager

NM Lab # NM9425 NM0901
AZ license # AZ0682
ORELAP Lab # NM100001
Texas Lab# T104704424-08-TX



Client: <u>BLAG ENGINEERING INC.</u>	☒ Standard ☐ Rush
Mailing Address: <u>P.O. Box 87</u> <u>Bloomfield, NM 87413</u>	Project Name: <u>JFJ L.F.</u>
Phone #: <u>505-632-1199</u>	Project #: _____
email or Fax#: _____	Project Manager: <u>JEFF BLAGG</u>
QA/QC Package: ☒ Standard ☐ Level 4 (Full Validation)	
Accreditation ☐ NELAP ☐ Other _____	Sampler: <u>JEFF BLAGG</u>
☐ EDD (Type) _____	On Ice: ☒ Yes ☐ No
	Sample Temperature: <u>70</u>

☒ Standard ☐ Rush

JFJ L.F.

Project #:

Project Manager:

JEFF BLABO

Sampler: JEFF BUAL

On Ice: ☒ Yes ☐ No

Sample Temperature: 2.0

[illegible]

Date:	Time:	Relinquished by:	Received by:	Date	Time
5/10	1340	JH Bugg	X	10/5/10	10:00
Date:	Time:	Relinquished by:	Received by:	Date	Time

Remarks:

GRO & DRO ON 8015B



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

[illegible]

Hall Environmental Analysis Laboratory, Inc.

Date: 28-Oct-10

CLIENT: Blagg Engineering
Project: JFJ LF
Lab Order: 1010241

CASE NARRATIVE

Analytical Comments for METHOD 8015GRO_S, SAMPLE 1010241-01A: Elevated surrogate due to matrix interference.

Hall Environmental Analysis Laboratory, Inc.

Date: 28-Oct-10

CLIENT: Blagg Engineering
Lab Order: 1010241
Project: JFJ LF
Lab ID: 1010241-01

Client Sample ID: Cell 11D
Collection Date: 10/5/2010 9:40:00 AM
Date Received: 10/6/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/10/2010 3:11:04 AM
Surr: DNOP	114	61.7-135		%REC	1	10/10/2010 3:11:04 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/8/2010 11:29:46 PM
Surr: BFB	104	60.2-161		%REC	1	10/8/2010 11:29:46 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	10/7/2010 6:14:06 PM
Toluene	ND	0.050		mg/Kg	1	10/7/2010 6:14:06 PM
Ethylbenzene	ND	0.050		mg/Kg	1	10/7/2010 6:14:06 PM
Xylenes, Total	ND	0.10		mg/Kg	1	10/7/2010 6:14:06 PM
Surr: 4-Bromofluorobenzene	104	88.9-151		%REC	1	10/7/2010 6:14:06 PM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Fluoride	1.2	0.30		mg/Kg	1	10/14/2010 7:21:31 AM
Chloride	99	15		mg/Kg	10	10/13/2010 9:15:54 AM
Nitrogen, Nitrite (As N)	ND	0.30		mg/Kg	1	10/14/2010 7:21:31 AM
Bromide	ND	1.5		mg/Kg	1	10/14/2010 7:21:31 AM
Nitrogen, Nitrate (As N)	0.37	0.30		mg/Kg	1	10/14/2010 7:21:31 AM
Phosphorus, Orthophosphate (As P)	ND	1.5		mg/Kg	1	10/14/2010 7:21:31 AM
Sulfate	110	1.5		mg/Kg	1	10/14/2010 7:21:31 AM
EPA METHOD 7471: MERCURY						Analyst: ELS
Mercury	ND	0.033		mg/Kg	1	10/18/2010 12:47:36 PM
EPA METHOD 6010B: SOIL METALS						Analyst: RAGS
Arsenic	ND	2.5		mg/Kg	1	10/18/2010 5:13:26 PM
Barium	21	0.10		mg/Kg	1	10/18/2010 5:13:26 PM
Cadmium	ND	0.10		mg/Kg	1	10/18/2010 5:13:26 PM
Calcium	1800	25		mg/Kg	1	10/18/2010 5:13:26 PM
Chromium	2.2	0.30		mg/Kg	1	10/18/2010 5:13:26 PM
Lead	2.5	0.25		mg/Kg	1	10/19/2010 11:33:59 AM
Magnesium	980	25		mg/Kg	1	10/18/2010 5:13:26 PM
Potassium	310	50		mg/Kg	1	10/19/2010 11:33:59 AM
Selenium	ND	2.5		mg/Kg	1	10/18/2010 5:13:26 PM
Silver	ND	0.25		mg/Kg	1	10/18/2010 5:13:26 PM
Sodium	28	25		mg/Kg	1	10/18/2010 5:13:26 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 28-Oct-10

CLIENT: Blagg Engineering
Lab Order: 1010241
Project: JFJ LF
Lab ID: 1010241-02

Client Sample ID: Cell 12C
Collection Date: 10/5/2010 9:50:00 AM
Date Received: 10/6/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/10/2010 3:44:42 AM
Surr: DNOP	112	61.7-135		%REC	1	10/10/2010 3:44:42 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/8/2010 11:58:41 PM
Surr: BFB	104	60.2-161		%REC	1	10/8/2010 11:58:41 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	10/7/2010 6:44:36 PM
Toluene	ND	0.050		mg/Kg	1	10/7/2010 6:44:36 PM
Ethylbenzene	ND	0.050		mg/Kg	1	10/7/2010 6:44:36 PM
Xylenes, Total	ND	0.10		mg/Kg	1	10/7/2010 6:44:36 PM
Surr: 4-Bromofluorobenzene	106	88.9-151		%REC	1	10/7/2010 6:44:36 PM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Fluoride	4.7	3.0		mg/Kg	10	10/14/2010 7:38:55 AM
Chloride	ND	15		mg/Kg	10	10/14/2010 7:38:55 AM
Nitrogen, Nitrite (As N)	ND	3.0		mg/Kg	10	10/14/2010 7:38:55 AM
Bromide	ND	15		mg/Kg	10	10/14/2010 7:38:55 AM
Nitrogen, Nitrate (As N)	ND	3.0		mg/Kg	10	10/14/2010 7:38:55 AM
Phosphorus, Orthophosphate (As P)	ND	15		mg/Kg	10	10/14/2010 7:38:55 AM
Sulfate	56	15		mg/Kg	10	10/14/2010 7:38:55 AM
EPA METHOD 7471: MERCURY						Analyst: ELS
Mercury	ND	0.033		mg/Kg	1	10/18/2010 12:52:52 PM
EPA METHOD 6010B: SOIL METALS						Analyst: RAGS
Arsenic	2.6	2.5		mg/Kg	1	10/18/2010 5:18:38 PM
Barium	180	0.50		mg/Kg	5	10/18/2010 5:22:21 PM
Cadmium	ND	0.10		mg/Kg	1	10/18/2010 5:18:38 PM
Calcium	3100	25		mg/Kg	1	10/18/2010 5:18:38 PM
Chromium	2.8	0.30		mg/Kg	1	10/18/2010 5:18:38 PM
Lead	2.6	0.25		mg/Kg	1	10/19/2010 11:36:40 AM
Magnesium	1300	25		mg/Kg	1	10/18/2010 5:18:38 PM
Potassium	510	50		mg/Kg	1	10/19/2010 11:36:40 AM
Selenium	ND	2.5		mg/Kg	1	10/18/2010 5:18:38 PM
Silver	ND	0.25		mg/Kg	1	10/18/2010 5:18:38 PM
Sodium	330	25		mg/Kg	1	10/18/2010 5:18:38 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 28-Oct-10

CLIENT: Blagg Engineering
Lab Order: 1010241
Project: JFJ LF
Lab ID: 1010241-03

Client Sample ID: Cell 13C
Collection Date: 10/5/2010 10:00:00 AM
Date Received: 10/6/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/10/2010 4:18:19 AM
Surr: DNOP	115	61.7-135		%REC	1	10/10/2010 4:18:19 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/9/2010 12:27:38 AM
Surr: BFB	105	60.2-161		%REC	1	10/9/2010 12:27:38 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	10/7/2010 7:15:18 PM
Toluene	ND	0.050		mg/Kg	1	10/7/2010 7:15:18 PM
Ethylbenzene	ND	0.050		mg/Kg	1	10/7/2010 7:15:18 PM
Xylenes, Total	ND	0.10		mg/Kg	1	10/7/2010 7:15:18 PM
Surr: 4-Bromofluorobenzene	102	88.9-151		%REC	1	10/7/2010 7:15:18 PM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Fluoride	ND	3.0		mg/Kg	10	10/14/2010 7:56:19 AM
Chloride	63	15		mg/Kg	10	10/14/2010 7:56:19 AM
Nitrogen, Nitrite (As N)	ND	3.0		mg/Kg	10	10/14/2010 7:56:19 AM
Bromide	ND	15		mg/Kg	10	10/14/2010 7:56:19 AM
Nitrogen, Nitrate (As N)	ND	3.0		mg/Kg	10	10/14/2010 7:56:19 AM
Phosphorus, Orthophosphate (As P)	ND	15		mg/Kg	10	10/14/2010 7:56:19 AM
Sulfate	ND	15		mg/Kg	10	10/14/2010 7:56:19 AM
EPA METHOD 7471: MERCURY						Analyst: ELS
Mercury	ND	0.033		mg/Kg	1	10/18/2010 12:54:38 PM
EPA METHOD 6010B: SOIL METALS						Analyst: RAGS
Arsenic	ND	2.5		mg/Kg	1	10/18/2010 5:24:55 PM
Barium	20	0.10		mg/Kg	1	10/18/2010 5:24:55 PM
Cadmium	ND	0.10		mg/Kg	1	10/18/2010 5:24:55 PM
Calcium	4000	25		mg/Kg	1	10/18/2010 5:24:55 PM
Chromium	1.2	0.30		mg/Kg	1	10/18/2010 5:24:55 PM
Lead	2.4	0.25		mg/Kg	1	10/19/2010 11:40:27 AM
Magnesium	690	25		mg/Kg	1	10/18/2010 5:24:55 PM
Potassium	310	250		mg/Kg	5	10/19/2010 11:43:58 AM
Selenium	ND	2.5		mg/Kg	1	10/18/2010 5:24:55 PM
Silver	ND	0.25		mg/Kg	1	10/18/2010 5:24:55 PM
Sodium	180	25		mg/Kg	1	10/18/2010 5:24:55 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 28-Oct-10

CLIENT: Blagg Engineering
Lab Order: 1010241
Project: JFJ LF
Lab ID: 1010241-04

Client Sample ID: Cell 9H
Collection Date: 10/5/2010 10:30:00 AM
Date Received: 10/6/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/10/2010 4:51:56 AM
Surr: DNOP	115	61.7-135		%REC	1	10/10/2010 4:51:56 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/9/2010 12:56:34 AM
Surr: BFB	103	60.2-161		%REC	1	10/9/2010 12:56:34 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	10/7/2010 7:45:56 PM
Toluene	ND	0.050		mg/Kg	1	10/7/2010 7:45:56 PM
Ethylbenzene	ND	0.050		mg/Kg	1	10/7/2010 7:45:56 PM
Xylenes, Total	ND	0.10		mg/Kg	1	10/7/2010 7:45:56 PM
Surr: 4-Bromofluorobenzene	96.6	88.9-151		%REC	1	10/7/2010 7:45:56 PM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Fluoride	ND	3.0		mg/Kg	10	10/14/2010 8:13:44 AM
Chloride	290	15		mg/Kg	10	10/14/2010 8:13:44 AM
Nitrogen, Nitrite (As N)	ND	3.0		mg/Kg	10	10/14/2010 8:13:44 AM
Bromide	ND	15		mg/Kg	10	10/14/2010 8:13:44 AM
Nitrogen, Nitrate (As N)	ND	3.0		mg/Kg	10	10/14/2010 8:13:44 AM
Phosphorus, Orthophosphate (As P)	ND	15		mg/Kg	10	10/14/2010 8:13:44 AM
Sulfate	84	15		mg/Kg	10	10/14/2010 8:13:44 AM
EPA METHOD 7471: MERCURY						Analyst: ELS
Mercury	ND	0.033		mg/Kg	1	10/18/2010 12:56:26 PM
EPA METHOD 6010B: SOIL METALS						Analyst: RAGS
Arsenic	6.0	2.5		mg/Kg	1	10/18/2010 5:30:13 PM
Barium	42	0.10		mg/Kg	1	10/18/2010 5:30:13 PM
Cadmium	ND	0.10		mg/Kg	1	10/18/2010 5:30:13 PM
Calcium	1000	25		mg/Kg	1	10/18/2010 5:30:13 PM
Chromium	2.0	0.30		mg/Kg	1	10/18/2010 5:30:13 PM
Lead	5.0	0.25		mg/Kg	1	10/19/2010 11:56:38 AM
Magnesium	830	25		mg/Kg	1	10/18/2010 5:30:13 PM
Potassium	310	50		mg/Kg	1	10/19/2010 11:56:38 AM
Selenium	ND	2.5		mg/Kg	1	10/18/2010 5:30:13 PM
Silver	ND	0.25		mg/Kg	1	10/18/2010 5:30:13 PM
Sodium	320	25		mg/Kg	1	10/18/2010 5:30:13 PM

Qualifiers:

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B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 28-Oct-10

CLIENT: Blagg Engineering
Lab Order: 1010241
Project: JFJ LF
Lab ID: 1010241-05

Client Sample ID: Cell 8F
Collection Date: 10/5/2010 10:40:00 AM
Date Received: 10/6/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/10/2010 5:26:00 AM
Surr: DNOP	107	61.7-135		%REC	1	10/10/2010 5:26:00 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/10/2010 3:48:41 PM
Surr: BFB	99.8	60.2-161		%REC	1	10/10/2010 3:48:41 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	10/10/2010 3:48:41 PM
Toluene	ND	0.050		mg/Kg	1	10/10/2010 3:48:41 PM
Ethylbenzene	ND	0.050		mg/Kg	1	10/10/2010 3:48:41 PM
Xylenes, Total	ND	0.10		mg/Kg	1	10/10/2010 3:48:41 PM
Surr: 4-Bromofluorobenzene	118	88.9-151		%REC	1	10/10/2010 3:48:41 PM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Fluoride	3.3	3.0		mg/Kg	10	10/14/2010 8:31:09 AM
Chloride	130	15		mg/Kg	10	10/14/2010 8:31:09 AM
Nitrogen, Nitrite (As N)	ND	3.0		mg/Kg	10	10/14/2010 8:31:09 AM
Bromide	ND	15		mg/Kg	10	10/14/2010 8:31:09 AM
Nitrogen, Nitrate (As N)	ND	3.0		mg/Kg	10	10/14/2010 8:31:09 AM
Phosphorus, Orthophosphate (As P)	ND	15		mg/Kg	10	10/14/2010 8:31:09 AM
Sulfate	120	15		mg/Kg	10	10/14/2010 8:31:09 AM
EPA METHOD 7471: MERCURY						Analyst: ELS
Mercury	ND	0.033		mg/Kg	1	10/18/2010 12:58:14 PM
EPA METHOD 6010B: SOIL METALS						Analyst: RAGS
Arsenic	ND	2.5		mg/Kg	1	10/18/2010 5:38:15 PM
Barium	16	0.10		mg/Kg	1	10/18/2010 5:38:15 PM
Cadmium	ND	0.10		mg/Kg	1	10/18/2010 5:38:15 PM
Calcium	1600	25		mg/Kg	1	10/18/2010 5:38:15 PM
Chromium	1.4	0.30		mg/Kg	1	10/18/2010 5:38:15 PM
Lead	1.3	0.25		mg/Kg	1	10/19/2010 12:00:22 PM
Magnesium	740	25		mg/Kg	1	10/18/2010 5:38:15 PM
Potassium	380	50		mg/Kg	1	10/19/2010 12:00:22 PM
Selenium	ND	2.5		mg/Kg	1	10/18/2010 5:38:15 PM
Silver	ND	0.25		mg/Kg	1	10/18/2010 5:38:15 PM
Sodium	240	25		mg/Kg	1	10/18/2010 5:38:15 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 28-Oct-10

CLIENT: Blagg Engineering
Lab Order: 1010241
Project: JFJ LF
Lab ID: 1010241-06

Client Sample ID: Cell 7F
Collection Date: 10/5/2010 10:50:00 AM
Date Received: 10/6/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/10/2010 6:33:27 AM
Surr: DNOP	110	61.7-135		%REC	1	10/10/2010 6:33:27 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/10/2010 4:19:09 PM
Surr: BFB	98.8	60.2-161		%REC	1	10/10/2010 4:19:09 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	10/10/2010 4:19:09 PM
Toluene	ND	0.050		mg/Kg	1	10/10/2010 4:19:09 PM
Ethylbenzene	ND	0.050		mg/Kg	1	10/10/2010 4:19:09 PM
Xylenes, Total	ND	0.10		mg/Kg	1	10/10/2010 4:19:09 PM
Surr: 4-Bromofluorobenzene	115	88.9-151		%REC	1	10/10/2010 4:19:09 PM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Fluoride	1.3	0.30		mg/Kg	1	10/14/2010 8:48:34 AM
Chloride	200	15		mg/Kg	10	10/14/2010 9:05:59 AM
Nitrogen, Nitrite (As N)	ND	0.30		mg/Kg	1	10/14/2010 8:48:34 AM
Bromide	ND	1.5		mg/Kg	1	10/14/2010 8:48:34 AM
Nitrogen, Nitrate (As N)	ND	0.30		mg/Kg	1	10/14/2010 8:48:34 AM
Phosphorus, Orthophosphate (As P)	ND	1.5		mg/Kg	1	10/14/2010 8:48:34 AM
Sulfate	200	15		mg/Kg	10	10/14/2010 9:05:59 AM
EPA METHOD 7471: MERCURY						Analyst: ELS
Mercury	ND	0.033		mg/Kg	1	10/18/2010 1:00:03 PM
EPA METHOD 6010B: SOIL METALS						Analyst: RAGS
Arsenic	ND	2.5		mg/Kg	1	10/18/2010 5:53:02 PM
Barium	10	0.10		mg/Kg	1	10/18/2010 5:53:02 PM
Cadmium	ND	0.10		mg/Kg	1	10/18/2010 5:53:02 PM
Calcium	3500	130		mg/Kg	5	10/18/2010 5:55:35 PM
Chromium	5.3	0.30		mg/Kg	1	10/18/2010 5:53:02 PM
Lead	4.1	1.3		mg/Kg	5	10/19/2010 12:03:05 PM
Magnesium	3400	130		mg/Kg	5	10/18/2010 5:55:35 PM
Potassium	1300	250		mg/Kg	5	10/19/2010 12:03:05 PM
Selenium	ND	2.5		mg/Kg	1	10/18/2010 5:53:02 PM
Silver	ND	0.25		mg/Kg	1	10/18/2010 5:53:02 PM
Sodium	430	130		mg/Kg	5	10/18/2010 5:55:35 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 28-Oct-10

CLIENT: Blagg Engineering
Lab Order: 1010241
Project: JFJ LF
Lab ID: 1010241-07

Client Sample ID: Cell 2E
Collection Date: 10/5/2010 11:05:00 AM
Date Received: 10/6/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/10/2010 7:07:03 AM
Surr: DNOP	109	61.7-135		%REC	1	10/10/2010 7:07:03 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/10/2010 4:49:37 PM
Surr: BFB	102	60.2-161		%REC	1	10/10/2010 4:49:37 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	10/10/2010 4:49:37 PM
Toluene	ND	0.050		mg/Kg	1	10/10/2010 4:49:37 PM
Ethylbenzene	ND	0.050		mg/Kg	1	10/10/2010 4:49:37 PM
Xylenes, Total	ND	0.10		mg/Kg	1	10/10/2010 4:49:37 PM
Surr: 4-Bromofluorobenzene	120	88.9-151		%REC	1	10/10/2010 4:49:37 PM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Fluoride	5.5	3.0		mg/Kg	10	10/14/2010 9:23:24 AM
Chloride	180	15		mg/Kg	10	10/14/2010 9:23:24 AM
Nitrogen, Nitrite (As N)	ND	3.0		mg/Kg	10	10/14/2010 9:23:24 AM
Bromide	ND	15		mg/Kg	10	10/14/2010 9:23:24 AM
Nitrogen, Nitrate (As N)	ND	3.0		mg/Kg	10	10/14/2010 9:23:24 AM
Phosphorus, Orthophosphate (As P)	ND	15		mg/Kg	10	10/14/2010 9:23:24 AM
Sulfate	250	15		mg/Kg	10	10/14/2010 9:23:24 AM
EPA METHOD 7471: MERCURY						Analyst: ELS
Mercury	ND	0.033		mg/Kg	1	10/18/2010 1:05:34 PM
EPA METHOD 6010B: SOIL METALS						Analyst: RAGS
Arsenic	4.3	2.5		mg/Kg	1	10/18/2010 5:58:10 PM
Barium	26	0.10		mg/Kg	1	10/18/2010 5:58:10 PM
Cadmium	ND	0.10		mg/Kg	1	10/18/2010 5:58:10 PM
Calcium	590	25		mg/Kg	1	10/18/2010 5:58:10 PM
Chromium	2.2	0.30		mg/Kg	1	10/18/2010 5:58:10 PM
Lead	2.3	0.25		mg/Kg	1	10/19/2010 12:05:41 PM
Magnesium	1500	25		mg/Kg	1	10/18/2010 5:58:10 PM
Potassium	330	50		mg/Kg	1	10/19/2010 12:05:41 PM
Selenium	ND	2.5		mg/Kg	1	10/18/2010 5:58:10 PM
Silver	ND	0.25		mg/Kg	1	10/18/2010 5:58:10 PM
Sodium	500	25		mg/Kg	1	10/18/2010 5:58:10 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 28-Oct-10

CLIENT: Blagg Engineering
Lab Order: 1010241
Project: JFJ LF
Lab ID: 1010241-08

Client Sample ID: Cell 3B
Collection Date: 10/5/2010 11:15:00 AM
Date Received: 10/6/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/10/2010 7:40:39 AM
Surr: DNOP	113	61.7-135		%REC	1	10/10/2010 7:40:39 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/10/2010 5:20:04 PM
Surr: BFB	103	60.2-161		%REC	1	10/10/2010 5:20:04 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	10/10/2010 5:20:04 PM
Toluene	ND	0.050		mg/Kg	1	10/10/2010 5:20:04 PM
Ethylbenzene	ND	0.050		mg/Kg	1	10/10/2010 5:20:04 PM
Xylenes, Total	ND	0.10		mg/Kg	1	10/10/2010 5:20:04 PM
Surr: 4-Bromofluorobenzene	121	88.9-151		%REC	1	10/10/2010 5:20:04 PM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Fluoride	0.74	0.30		mg/Kg	1	10/14/2010 9:40:49 AM
Chloride	150	15		mg/Kg	10	10/14/2010 9:58:13 AM
Nitrogen, Nitrite (As N)	9.1	0.30		mg/Kg	1	10/14/2010 9:40:49 AM
Bromide	2.5	1.5		mg/Kg	1	10/14/2010 9:40:49 AM
Nitrogen, Nitrate (As N)	58	3.0		mg/Kg	10	10/14/2010 9:58:13 AM
Phosphorus, Orthophosphate (As P)	ND	1.5		mg/Kg	1	10/14/2010 9:40:49 AM
Sulfate	23	1.5		mg/Kg	1	10/14/2010 9:40:49 AM
EPA METHOD 7471: MERCURY						Analyst: ELS
Mercury	ND	0.033		mg/Kg	1	10/18/2010 1:07:24 PM
EPA METHOD 6010B: SOIL METALS						Analyst: RAGS
Arsenic	ND	13		mg/Kg	5	10/18/2010 6:06:02 PM
Barium	190	0.50		mg/Kg	5	10/18/2010 6:06:02 PM
Cadmium	ND	0.50		mg/Kg	5	10/18/2010 6:06:02 PM
Calcium	3400	130		mg/Kg	5	10/18/2010 6:06:02 PM
Chromium	15	1.5		mg/Kg	5	10/18/2010 6:06:02 PM
Lead	4.8	1.3		mg/Kg	5	10/19/2010 12:09:25 PM
Magnesium	5600	130		mg/Kg	5	10/18/2010 6:06:02 PM
Potassium	3700	250		mg/Kg	5	10/19/2010 12:09:25 PM
Selenium	ND	13		mg/Kg	5	10/18/2010 6:06:02 PM
Silver	ND	1.3		mg/Kg	5	10/18/2010 6:06:02 PM
Sodium	200	130		mg/Kg	5	10/18/2010 6:06:02 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 28-Oct-10

CLIENT: Blagg Engineering
Lab Order: 1010241
Project: JFJ LF
Lab ID: 1010241-09

Client Sample ID: Cell 4E
Collection Date: 10/5/2010 11:30:00 AM
Date Received: 10/6/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/10/2010 8:14:16 AM
Surr: DNOP	110	61.7-135		%REC	1	10/10/2010 8:14:16 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	10/10/2010 5:50:26 PM
Surr: BFB	100	60.2-161		%REC	1	10/10/2010 5:50:26 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	10/10/2010 5:50:26 PM
Toluene	ND	0.050		mg/Kg	1	10/10/2010 5:50:26 PM
Ethylbenzene	ND	0.050		mg/Kg	1	10/10/2010 5:50:26 PM
Xylenes, Total	ND	0.10		mg/Kg	1	10/10/2010 5:50:26 PM
Surr: 4-Bromofluorobenzene	118	88.9-151		%REC	1	10/10/2010 5:50:26 PM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Fluoride	6.5	0.30		mg/Kg	1	10/14/2010 10:50:27 AM
Chloride	57	1.5		mg/Kg	1	10/14/2010 10:50:27 AM
Nitrogen, Nitrite (As N)	ND	0.30		mg/Kg	1	10/14/2010 10:50:27 AM
Bromide	ND	1.5		mg/Kg	1	10/14/2010 10:50:27 AM
Nitrogen, Nitrate (As N)	4.4	0.30		mg/Kg	1	10/14/2010 10:50:27 AM
Phosphorus, Orthophosphate (As P)	ND	1.5		mg/Kg	1	10/14/2010 10:50:27 AM
Sulfate	5100	75		mg/Kg	50	10/20/2010 11:06:11 AM
EPA METHOD 7471: MERCURY						Analyst: ELS
Mercury	ND	0.033		mg/Kg	1	10/18/2010 1:09:13 PM
EPA METHOD 6010B: SOIL METALS						Analyst: RAGS
Arsenic	6.2	2.5		mg/Kg	1	10/18/2010 6:10:16 PM
Barium	13	0.10		mg/Kg	1	10/18/2010 6:10:16 PM
Cadmium	ND	0.10		mg/Kg	1	10/18/2010 6:10:16 PM
Calcium	6300	130		mg/Kg	5	10/18/2010 6:12:58 PM
Chromium	3.4	0.30		mg/Kg	1	10/18/2010 6:10:16 PM
Lead	4.3	0.25		mg/Kg	1	10/19/2010 12:12:08 PM
Magnesium	1400	25		mg/Kg	1	10/18/2010 6:10:16 PM
Potassium	540	50		mg/Kg	1	10/19/2010 12:12:08 PM
Selenium	ND	2.5		mg/Kg	1	10/18/2010 6:10:16 PM
Silver	ND	0.25		mg/Kg	1	10/18/2010 6:10:16 PM
Sodium	110	25		mg/Kg	1	10/18/2010 6:10:16 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Blagg Engineering
Project: JFJ LF

Work Order: 1010241

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8015B: Gasoline Range											
Sample ID: 1010241-01A:MSD		MSD									
Gasoline Range Organics (GRO)	28.17	mg/Kg	5.0	25	0	113	69.2	147	6.56	25.9	
Sample ID: MB-24024		MBLK									
Gasoline Range Organics (GRO)	ND	mg/Kg	5.0								
Sample ID: LCS-24024		LCS									
Gasoline Range Organics (GRO)	23.69	mg/Kg	5.0	25	1.4	89.2	74.2	136			
Sample ID: 1010241-01A MS		MS									
Gasoline Range Organics (GRO)	26.38	mg/Kg	5.0	25	0	106	69.2	147			

Method: EPA Method 8021B: Volatiles											
Sample ID: 1010241-02A MSD		MSD									
Benzene	0.9091	mg/Kg	0.050	1	0	90.9	67.2	113	1.84	14.3	
Toluene	0.8845	mg/Kg	0.050	1	0	88.5	62.1	116	4.04	15.9	
Ethylbenzene	1.022	mg/Kg	0.050	1	0	102	67.9	127	0.322	14.4	
Xylenes, Total	3.176	mg/Kg	0.10	3	0	106	60.6	134	1.14	12.6	
Sample ID: MB-24024		MBLK									
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								
Sample ID: LCS-24024		LCS									
Benzene	0.9835	mg/Kg	0.050	1	0.0146	96.9	83.3	107			
Toluene	0.9569	mg/Kg	0.050	1	0.0109	94.6	74.3	115			
Ethylbenzene	1.093	mg/Kg	0.050	1	0.0192	107	80.9	122			
Xylenes, Total	3.367	mg/Kg	0.10	3	0	112	85.2	123			
Sample ID: 1010241-02A MS		MS									
Benzene	0.9260	mg/Kg	0.050	1	0	92.6	67.2	113			
Toluene	0.9210	mg/Kg	0.050	1	0	92.1	62.1	116			
Ethylbenzene	1.025	mg/Kg	0.050	1	0	103	67.9	127			
Xylenes, Total	3.212	mg/Kg	0.10	3	0	107	60.6	134			

Method: EPA Method 7471: Mercury											
Sample ID: 1010241-01A:MSD		MSD									
Mercury	0.1548	mg/Kg	0.033	0.167	0.0043	90.3	75	125	4.02	20	
Sample ID: MB-24142		MBLK									
Mercury	ND	mg/Kg	0.033								
Sample ID: LCS-24142		LCS									
Mercury	0.1597	mg/Kg	0.033	0.167	0	95.8	80	120			
Sample ID: 1010241-01A:MS		MS									
Mercury	0.1611	mg/Kg	0.033	0.167	0.0043	94.2	75	125			

Qualifiers:

E Estimated value
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit
H Holding times for preparation or analysis exceeded
NC Non-Chlorinated
R RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Blagg Engineering

Project: JFJ LF

Work Order: 1010241

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 6010B: Soil Metals

Sample ID: MB-24139

MBLK

Batch ID: 24139 Analysis Date: 10/18/2010 4:39:24 PM

Arsenic	ND	mg/Kg	2.5
Barium	ND	mg/Kg	0.10
Cadmium	ND	mg/Kg	0.10
Calcium	ND	mg/Kg	25
Chromium	ND	mg/Kg	0.30
Magnesium	ND	mg/Kg	25
Selenium	ND	mg/Kg	2.5
Silver	ND	mg/Kg	0.25
Sodium	ND	mg/Kg	25

Sample ID: MB-24139

MBLK

Batch ID: 24139 Analysis Date: 10/19/2010 11:17:15 AM

Lead	ND	mg/Kg	0.25
Potassium	ND	mg/Kg	50

Sample ID: LCS-24139

LCS

Batch ID: 24139 Analysis Date: 10/18/2010 4:42:13 PM

Arsenic	23.67	mg/Kg	2.5	25	0	94.7	80	120
Barium	24.20	mg/Kg	0.10	25	0	96.8	80	120
Cadmium	24.33	mg/Kg	0.10	25	0.0305	97.2	80	120
Calcium	2358	mg/Kg	25	2500	0	94.3	80	120
Chromium	24.26	mg/Kg	0.30	25	0	97.0	80	120
Magnesium	2438	mg/Kg	25	2500	0	97.5	80	120
Selenium	23.54	mg/Kg	2.5	25	0.9535	90.3	80	120
Silver	24.93	mg/Kg	0.25	25	0	99.7	80	120
Sodium	2614	mg/Kg	25	2500	0	105	80	120

Sample ID: LCS-24139

LCS

Batch ID: 24139 Analysis Date: 10/19/2010 11:20:03 AM

Potassium	2761	mg/Kg	50	2500	24.45	109	80	120
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Qualifiers:

E Estimated value

J Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded

NC Non-Chlorinated

R RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name BLAGG

Date Received:

10/6/2010

Work Order Number 1010241

Received by: DAM

Checklist completed by:

Signature

Date

Sample ID labels checked by:

Initials

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

Number of preserved
bottles checked for
pH:

Water - VOA vials have zero headspace?

No VOA vials submitted ☒

Yes

No

Water - Preservation labels on bottle and cap match?

Yes

No

N/A

☒

Water - pH acceptable upon receipt?

Yes

No

N/A

☒

<2 >12 unless noted
below.

Container/Temp Blank temperature?

2.0°

<6° C Acceptable

If given sufficient time to cool.

COMMENTS:

Client contacted

Date contacted:

Person contacted

Contacted by:

Regarding:

Comments:

Corrective Action

BLAGG ENGINEERING, INC.

P.O. Box 87, Bloomfield, New Mexico 87413

Phone: (505)632-1199 Fax: (505)632-3903

RECEIVED OCD

2011 JAN -3 A 10: 54

December 29, 2010

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

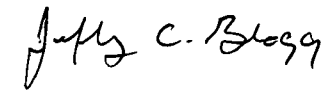
Dear Mr. Jones:

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 December 10, 2010.

Sampling protocol included collection of native soils below the treatment zone. A hand auger was used to collect soil samples in the vadose zone at each testing point. 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 and total chloride by U.S. EPA 300. Samples were collected from active cell units 2h, 3e, 4g, 7g, 8c, 9b, 11h, 12e and 13g (Figure 1). All testing found total petroleum hydrocarbons were within permit limits (100 mg/Kg) and non-detect for BTEX analysis.

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.

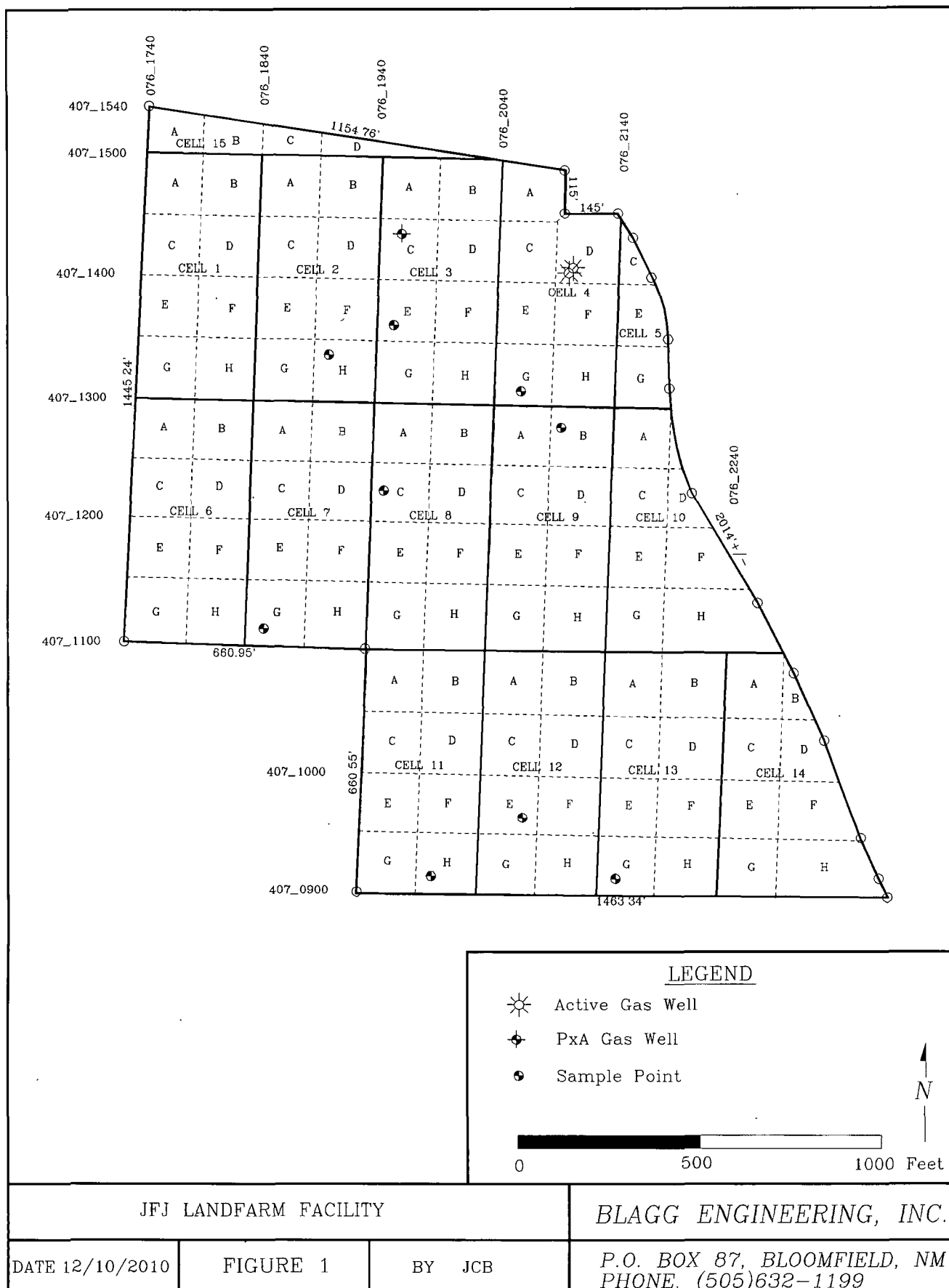
Respectfully submitted:
Blagg Engineering, Inc.



Jeffrey C. Blagg, P.E.
President

Attachments: Site Diagram
Analytical Test Reports

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





COVER LETTER

Tuesday, December 28, 2010

Jeff Blagg
Blagg Engineering
P. O. Box 87
Bloomfield, NM 87413

TEL: (505) 632-1199

FAX (505) 632-3903

RE: JFJ Landfarm

Order No.: 1012556

Dear Jeff Blagg:

Hall Environmental Analysis Laboratory, Inc. received 9 sample(s) on 12/14/2010 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites.

Reporting limits are determined by EPA methodology.

Please do not hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", written over a horizontal line.

Andy Freeman, Laboratory Manager

NM Lab # NM9425 NM0901

AZ license # AZ0682

ORELAP Lab # NM100001

Texas Lab# T104704424-08-TX



Hall Environmental Analysis Laboratory, Inc.

Date: 28-Dec-10

CLIENT: Blagg Engineering

Client Sample ID: CELL 11H

Lab Order: 1012556

Collection Date: 12/10/2010 12:05:00 PM

Project: JFJ Landfarm

Date Received: 12/14/2010

Lab ID: 1012556-01

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JB
Diesel Range Organics (DRO)	.89	10		mg/Kg	1	12/28/2010 4:06:06 AM
Surr: DNOP	118	81.8-129		%REC	1	12/28/2010 4:06:06 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/18/2010 1:20:41 AM
Surr: BFB	92.4	89.7-125		%REC	1	12/18/2010 1:20:41 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	12/18/2010 1:20:41 AM
Toluene	ND	0.050		mg/Kg	1	12/18/2010 1:20:41 AM
Ethylbenzene	ND	0.050		mg/Kg	1	12/18/2010 1:20:41 AM
Xylenes, Total	ND	0.10		mg/Kg	1	12/18/2010 1:20:41 AM
Surr: 4-Bromofluorobenzene	102	88.9-151		%REC	1	12/18/2010 1:20:41 AM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Chloride	ND	7.5		mg/Kg	5	12/20/2010 10:50:51 AM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 28-Dec-10

CLIENT: Blagg Engineering**Client Sample ID:** CELL 12E**Lab Order:** 1012556**Collection Date:** 12/10/2010 12:24:00 PM**Project:** JFJ Landfarm**Date Received:** 12/14/2010**Lab ID:** 1012556-02**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	12/21/2010 1:52:02 PM
Surr: DNOP	102	81.8-129		%REC	1	12/21/2010 1:52:02 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/18/2010 1:50:52 AM
Surr: BFB	95.0	89.7-125		%REC	1	12/18/2010 1:50:52 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	12/18/2010 1:50:52 AM
Toluene	ND	0.050		mg/Kg	1	12/18/2010 1:50:52 AM
Ethylbenzene	ND	0.050		mg/Kg	1	12/18/2010 1:50:52 AM
Xylenes, Total	ND	0.10		mg/Kg	1	12/18/2010 1:50:52 AM
Surr: 4-Bromofluorobenzene	106	88.9-151		%REC	1	12/18/2010 1:50:52 AM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Chloride	ND	7.5		mg/Kg	5	12/20/2010 11:25:41 AM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 28-Dec-10

CLIENT: Blagg Engineering
Lab Order: 1012556
Project: JFJ Landfarm
Lab ID: 1012556-03

Client Sample ID: CELL 13G
Collection Date: 12/10/2010 12:45:00 PM
Date Received: 12/14/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	12/21/2010 2:26:08 PM
Surr: DNOP	96.1	81.8-129		%REC	1	12/21/2010 2:26:08 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/18/2010 2:22:42 AM
Surr: BFB	83.1	89.7-125	S	%REC	1	12/18/2010 2:22:42 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	12/18/2010 2:22:42 AM
Toluene	ND	0.050		mg/Kg	1	12/18/2010 2:22:42 AM
Ethylbenzene	ND	0.050		mg/Kg	1	12/18/2010 2:22:42 AM
Xylenes, Total	ND	0.10		mg/Kg	1	12/18/2010 2:22:42 AM
Surr: 4-Bromofluorobenzene	86.4	88.9-151	S	%REC	1	12/18/2010 2:22:42 AM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Chloride	ND	7.5		mg/Kg	5	12/20/2010 12:00:31 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 28-Dec-10

CLIENT: Blagg Engineering
Lab Order: 1012556
Project: JFJ Landfarm
Lab ID: 1012556-04

Client Sample ID: CELL 7G
Collection Date: 12/10/2010 1:05:00 PM
Date Received: 12/14/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	12/21/2010 3:00:13 PM
Surr: DNOP	91.3	81.8-129		%REC	1	12/21/2010 3:00:13 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/18/2010 2:52:51 AM
Surr: BFB	97.7	89.7-125		%REC	1	12/18/2010 2:52:51 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	12/18/2010 2:52:51 AM
Toluene	ND	0.050		mg/Kg	1	12/18/2010 2:52:51 AM
Ethylbenzene	ND	0.050		mg/Kg	1	12/18/2010 2:52:51 AM
Xylenes, Total	ND	0.10		mg/Kg	1	12/18/2010 2:52:51 AM
Surr: 4-Bromofluorobenzene	109	88.9-151		%REC	1	12/18/2010 2:52:51 AM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Chloride	3.5	1.5		mg/Kg	1	12/20/2010 12:35:20 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 28-Dec-10

CLIENT: Blagg Engineering
Lab Order: 1012556
Project: JFJ Landfarm
Lab ID: 1012556-05

Client Sample ID: CELL 8C
Collection Date: 12/10/2010 1:20:00 PM
Date Received: 12/14/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	12/21/2010 3:34:24 PM
Surr: DNOP	98.7	81.8-129		%REC	1	12/21/2010 3:34:24 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/18/2010 3:22:56 AM
Surr: BFB	94.4	89.7-125		%REC	1	12/18/2010 3:22:56 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	12/18/2010 3:22:56 AM
Toluene	ND	0.050		mg/Kg	1	12/18/2010 3:22:56 AM
Ethylbenzene	ND	0.050		mg/Kg	1	12/18/2010 3:22:56 AM
Xylenes, Total	ND	0.10		mg/Kg	1	12/18/2010 3:22:56 AM
Surr: 4-Bromofluorobenzene	103	88.9-151		%REC	1	12/18/2010 3:22:56 AM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Chloride	27	1.5		mg/Kg	1	12/20/2010 1:10:10 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 28-Dec-10

CLIENT: Blagg Engineering
Lab Order: 1012556
Project: JFJ Landfarm
Lab ID: 1012556-06

Client Sample ID: CELL 9B
Collection Date: 12/10/2010 1:35:00 PM
Date Received: 12/14/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	12/21/2010 4:08:33 PM
Surr: DNOP	91.4	81.8-129		%REC	1	12/21/2010 4:08:33 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/18/2010 3:53:05 AM
Surr: BFB	96.2	89.7-125		%REC	1	12/18/2010 3:53:05 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	12/18/2010 3:53:05 AM
Toluene	ND	0.050		mg/Kg	1	12/18/2010 3:53:05 AM
Ethylbenzene	ND	0.050		mg/Kg	1	12/18/2010 3:53:05 AM
Xylenes, Total	ND	0.10		mg/Kg	1	12/18/2010 3:53:05 AM
Surr: 4-Bromofluorobenzene	106	88.9-151		%REC	1	12/18/2010 3:53:05 AM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Chloride	59	30		mg/Kg	20	12/20/2010 2:37:15 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 28-Dec-10

CLIENT: Blagg Engineering
Lab Order: 1012556
Project: JFJ Landfarm
Lab ID: 1012556-07

Client Sample ID: CELL 4G
Collection Date: 12/10/2010 1:55:00 PM
Date Received: 12/14/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	12/21/2010 4:42:40 PM
Surr: DNOP	96.5	81.8-129		%REC	1	12/21/2010 4:42:40 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/18/2010 4:23:00 AM
Surr: BFB	92.8	89.7-125		%REC	1	12/18/2010 4:23:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	12/18/2010 4:23:00 AM
Toluene	ND	0.050		mg/Kg	1	12/18/2010 4:23:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	12/18/2010 4:23:00 AM
Xylenes, Total	ND	0.10		mg/Kg	1	12/18/2010 4:23:00 AM
Surr: 4-Bromofluorobenzene	101	88.9-151		%REC	1	12/18/2010 4:23:00 AM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Chloride	ND	1.5		mg/Kg	1	12/20/2010 2:54:40 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 28-Dec-10

CLIENT: Blagg Engineering
Lab Order: 1012556
Project: JFJ Landfarm
Lab ID: 1012556-08

Client Sample ID: CELL 3E
Collection Date: 12/10/2010 2:10:00 PM
Date Received: 12/14/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JB
Diesel Range Organics (DRO)	19	10		mg/Kg	1	12/21/2010 5:16:48 PM
Surr: DNOP	116	81.8-129		%REC	1	12/21/2010 5:16:48 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/18/2010 4:52:58 AM
Surr: BFB	95.5	89.7-125		%REC	1	12/18/2010 4:52:58 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	12/18/2010 4:52:58 AM
Toluene	ND	0.050		mg/Kg	1	12/18/2010 4:52:58 AM
Ethylbenzene	ND	0.050		mg/Kg	1	12/18/2010 4:52:58 AM
Xylenes, Total	ND	0.10		mg/Kg	1	12/18/2010 4:52:58 AM
Surr: 4-Bromofluorobenzene	108	88.9-151		%REC	1	12/18/2010 4:52:58 AM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Chloride	ND	1.5		mg/Kg	1	12/20/2010 4:04:20 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 28-Dec-10

CLIENT: Blagg Engineering
Lab Order: 1012556
Project: JFJ Landfarm
Lab ID: 1012556-09

Client Sample ID: CELL 2H
Collection Date: 12/10/2010 2:30:00 PM
Date Received: 12/14/2010
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	12/21/2010 5:50:54 PM
Surr: DNOP	112	81.8-129		%REC	1	12/21/2010 5:50:54 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/18/2010 5:23:12 AM
Surr: BFB	97.5	89.7-125		%REC	1	12/18/2010 5:23:12 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	12/18/2010 5:23:12 AM
Toluene	ND	0.050		mg/Kg	1	12/18/2010 5:23:12 AM
Ethylbenzene	ND	0.050		mg/Kg	1	12/18/2010 5:23:12 AM
Xylenes, Total	ND	0.10		mg/Kg	1	12/18/2010 5:23:12 AM
Surr: 4-Bromofluorobenzene	110	88.9-151		%REC	1	12/18/2010 5:23:12 AM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Chloride	3.9	1.5		mg/Kg	1	12/20/2010 4:39:09 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Blagg Engineering

Project: JFJ Landfarm

Work Order: 1012556

Analyte	Result	Units	PQL	SPK Val	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 300.0: Anions											
Sample ID: 1012556-07AMSD		MSD				Batch ID: 24916	Analysis Date: 12/20/2010 3:29:30 PM				
Chloride	14.18	mg/Kg	1.5	15	0.9962	87.9	53.9	146	1.61	20	
Sample ID: MB-24916		MBLK				Batch ID: 24916	Analysis Date: 12/17/2010 11:11:45 PM				
Chloride	ND	mg/Kg	1.5								
Sample ID: LCS-24916		LCS				Batch ID: 24916	Analysis Date: 12/17/2010 11:29:10 PM				
Chloride	13.76	mg/Kg	1.5	15	0	91.7	90	110			
Sample ID: 1012556-07AMS		MS				Batch ID: 24916	Analysis Date: 12/20/2010 3:12:05 PM				
Chloride	14.42	mg/Kg	1.5	15	0.9962	89.5	53.9	146			

Method: EPA Method 8015B: Diesel Range Organics											
Sample ID: 1012556-01AMSD		MSD				Batch ID: 24899	Analysis Date: 12/28/2010 5:13:48 AM				
Diesel Range Organics (DRO)	218.9	mg/Kg	10	50	107.7	222	57.5	128	35.2	19.7	SR
Sample ID: MB-24899		MBLK				Batch ID: 24899	Analysis Date: 12/21/2010 11:28:26 AM				
Diesel Range Organics (DRO)	ND	mg/Kg	10								
Motor Oil Range Organics (MRO)	ND	mg/Kg	50								
Sample ID: LCS-24899		LCS				Batch ID: 24899	Analysis Date: 12/21/2010 12:02:49 PM				
Diesel Range Organics (DRO)	45.55	mg/Kg	10	50	0	91.1	66.2	120			
Sample ID: LCSD-24899		LCSD				Batch ID: 24899	Analysis Date: 12/21/2010 12:37:13 PM				
Diesel Range Organics (DRO)	45.63	mg/Kg	10	50	0	91.3	66.2	120	0.178	14.3	
Sample ID: 1012556-01AMS		MS				Batch ID: 24899	Analysis Date: 12/28/2010 4:39:58 AM				
Diesel Range Organics (DRO)	267.9	mg/Kg	10	50	107.7	320	57.5	128			S

Method: EPA Method 8015B: Gasoline Range											
Sample ID: 1012556-01AMSD		MSD				Batch ID: 24888	Analysis Date: 12/18/2010 6:23:18 AM				
Gasoline Range Organics (GRO)	27.80	mg/Kg	5.0	25	2.81	100	69.2	144	5.01	20.5	
Sample ID: MB-24888		MBLK				Batch ID: 24888	Analysis Date: 12/21/2010 11:54:45 AM				
Gasoline Range Organics (GRO)	ND	mg/Kg	5.0								
Sample ID: LCS-24888		LCS				Batch ID: 24888	Analysis Date: 12/18/2010 6:53:13 AM				
Gasoline Range Organics (GRO)	24.06	mg/Kg	5.0	25	0	96.2	95.7	120			
Sample ID: 1012556-01AMS		MS				Batch ID: 24888	Analysis Date: 12/18/2010 5:53:13 AM				
Gasoline Range Organics (GRO)	29.23	mg/Kg	5.0	25	2.81	106	69.2	144			

Qualifiers:

E Estimated value

J Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded

NC Non-Chlorinated

R RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Blagg Engineering

Project: JFJ Landfarm

Work Order: 1012556

Analyte	Result	Units	PQL	SPK Val	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8021B: Volatiles

Sample ID: 1012556-01AMSD

MSD

Batch ID: 24888 Analysis Date: 12/18/2010 7:53:13 AM

Benzene	1.004	mg/Kg	0.050	1	0	100	67.2	113	2.19	14.3
Toluene	0.9540	mg/Kg	0.050	1	0	95.4	62.1	116	1.90	15.9
Ethylbenzene	1.052	mg/Kg	0.050	1	0	105	67.9	127	0.730	14.4
Xylenes, Total	3.239	mg/Kg	0.10	3	0	108	60.6	134	1.11	12.6

Sample ID: MB-24888

MBLK

Batch ID: 24888 Analysis Date: 12/17/2010 8:49:38 PM

Benzene	ND	mg/Kg	0.050							
Toluene	ND	mg/Kg	0.050							
Ethylbenzene	ND	mg/Kg	0.050							
Xylenes, Total	ND	mg/Kg	0.10							

Sample ID: LCS-24888

LCS

Batch ID: 24888 Analysis Date: 12/18/2010 8:23:15 AM

Benzene	0.9978	mg/Kg	0.050	1	0	99.8	83.3	107		
Toluene	0.9422	mg/Kg	0.050	1	0	94.2	74.3	115		
Ethylbenzene	1.019	mg/Kg	0.050	1	0	102	80.9	122		
Xylenes, Total	3.183	mg/Kg	0.10	3	0	106	85.2	123		

Sample ID: 1012556-01AMS

MS

Batch ID: 24888 Analysis Date: 12/18/2010 7:23:11 AM

Benzene	1.027	mg/Kg	0.050	1	0	103	67.2	113		
Toluene	0.9723	mg/Kg	0.050	1	0	97.2	62.1	116		
Ethylbenzene	1.059	mg/Kg	0.050	1	0	106	67.9	127		
Xylenes, Total	3.275	mg/Kg	0.10	3	0	109	60.6	134		

Qualifiers:

E Estimated value
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
NC Non-Chlorinated
R RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name **BLAGG**

Date Received:

12/14/2010

Work Order Number **1012556**

Received by: **LNH**

Checklist completed by:

Signature

Sample ID labels checked by:

Initials

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 - Preservation labels on bottle and cap match?	Yes ☐	No ☐	N/A ☒	
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☒	

Number of preserved bottles checked for pH:

<2 >12 unless noted below.

Container/Temp Blank temperature?

2.3°

<6° C Acceptable

If given sufficient time to cool.

COMMENTS:

Client contacted

Date contacted:

Person contacted

Contacted by:

Regarding:

Comments:

Corrective Action

Chain-of-Custody Record

Client:

BLAG ENGINEERING INC.

Turn-Around Time:

☒ Standard ☐ Rush

Project Name:

JEJ Landfill

Mailing Address:

**P.O. Box 87
Bloomfield, NM 87413**

Project #:

SOS-632-1199

Phone #:

Project Manager:

QA/QC Package:

☒ Standard ☐ Level 4 (Full Validation)

Jeff Bacc

Accreditation

☐ NELAP ☐ Other

Sampler: **Jeff Bacc**

☐ EDD (Type)

Date Time Matrix Sample Request ID

Container Type and #

Preservative Type

1 2 3 4 5 6 7 8 9

10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

BTEX + MTBE + TPH (8021)

BTEX + MTBE + TPH (Gas only)

TPH Method 8015B (Gas/Diesel)

TPH (Method 418.1)

EDB (Method 504.1)

8310 (PNA or PAH)

RCRA 8 Metals

Anions (F, Cl, NO₃, NO₂, PO₄, SO₄)

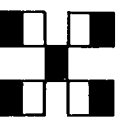
8081 Pesticides / 8082 PCB's

8260B (VOA)

8270 (Semi-VOA)

CHLORIDE

Air Bubbles (Y or N)



**HALL ENVIRONMENTAL
ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Date: 12/13/10 Time: 1645 Relinquished by: **Jeff Bacc**

Received by:

Date: 12/14/10 Time: 1300

Remarks:

CR0 + B20 OUT ON 8015

BLAGG ENGINEERING, INC.

P.O. Box 87, Bloomfield, New Mexico 87413

Phone: (505)632-1199 Fax: (505)632-3903

RECEIVED OCD

2010 AUG 19 P. 1: 26

August 16, 2010

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

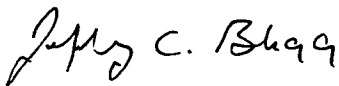
Dear Mr. Jones:

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 July 20, 2010.

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 and total chloride by U.S. EPA 300. Samples were collected from active cell units 2h, 3g, 4g, 7c, 8c, 9d, 11h, 12g and 13g (Figure 1). All testing found total petroleum hydrocarbons were within permit limits (100 mg/Kg), non-detect for BTEX analysis and all choride results were below 130 parts per million.

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.

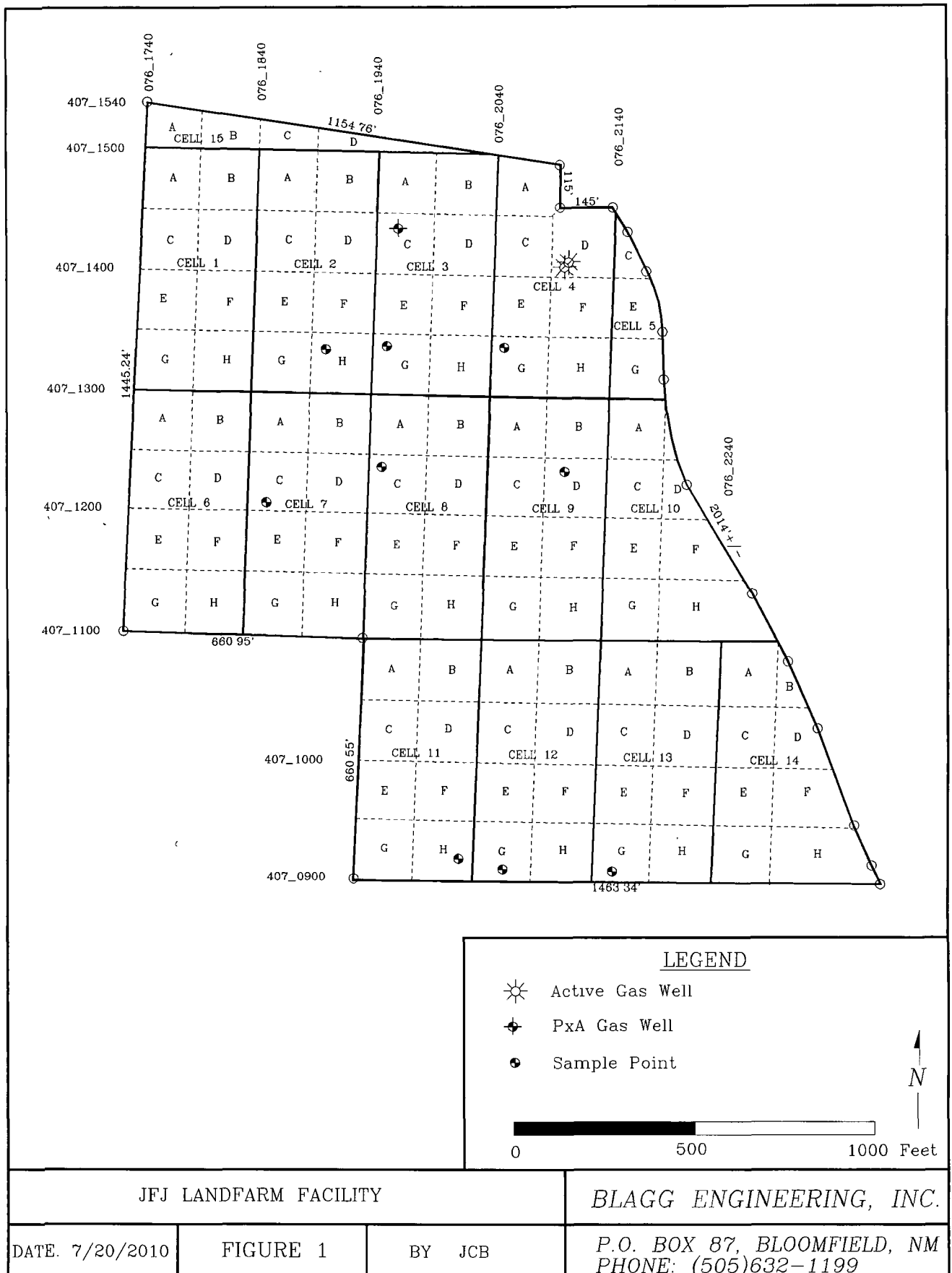
Respectfully submitted:
Blagg Engineering, Inc.



Jeffrey C. Blagg, P.E.
President

Attachments: Site Diagram
Analytical Test Reports

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





Pace Analytical Services, Inc.

9608 Loiret Blvd.

Lenexa, KS 66219

(913)599-5665

August 05, 2010

Jeff Blagg
Blagg Engineering
110 N. Fourth St.
Bloomfield, NM 87413

RE: Project: JFJ LANDFARM
Pace Project No.: 6082470

Dear Jeff Blagg:

Enclosed are the analytical results for sample(s) received by the laboratory on July 22, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Mary Jane Walls

maryjane.walls@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

Page 1 of 20

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CERTIFICATIONS

Project: JFJ LANDFARM
Pace Project No.: 6082470

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219
A2LA Certification #: 2456.01
Arkansas Certification #: 05-008-0
Illinois Certification #: 001191
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-08-TX
Utah Certification #: 9135995665

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: JFJ LANDFARM
Pace Project No.: 6082470

Lab ID	Sample ID	Matrix	Date Collected	Date Received
6082470001	CELL 4G	Solid	07/20/10 11:40	07/22/10 08:45
6082470002	CELL 3G	Solid	07/20/10 12:00	07/22/10 08:45
6082470003	CELL 2H	Solid	07/20/10 12:10	07/22/10 08:45
6082470004	CELL 7C	Solid	07/20/10 12:25	07/22/10 08:45
6082470005	CELL 8C	Solid	07/20/10 12:45	07/22/10 08:45
6082470006	CELL 9D	Solid	07/20/10 13:00	07/22/10 08:45
6082470007	CELL 12G	Solid	07/20/10 13:10	07/22/10 08:45
6082470008	CELL 11H	Solid	07/20/10 13:25	07/22/10 08:45
6082470009	CELL 13G	Solid	07/20/10 13:40	07/22/10 08:45

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: JFJ LANDFARM

Pace Project No.: 6082470

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
6082470001	CELL 4G	EPA 8015B	SDR	3	PASI-K
		EPA 8015B/8021B	PRG	8	PASI-K
		ASTM D2974-87	JHA	1	PASI-K
		EPA 300.0	JML	1	PASI-K
6082470002	CELL 3G	EPA 8015B	SDR	3	PASI-K
		EPA 8015B/8021B	PRG	8	PASI-K
		ASTM D2974-87	JHA	1	PASI-K
		EPA 300.0	JML	1	PASI-K
6082470003	CELL 2H	EPA 8015B	SDR	3	PASI-K
		EPA 8015B/8021B	PRG	8	PASI-K
		ASTM D2974-87	JHA	1	PASI-K
		EPA 300.0	JML	1	PASI-K
6082470004	CELL 7C	EPA 8015B	SDR	3	PASI-K
		EPA 8015B/8021B	PRG	8	PASI-K
		ASTM D2974-87	JHA	1	PASI-K
		EPA 300.0	JML	1	PASI-K
6082470005	CELL 8C	EPA 8015B	SDR	3	PASI-K
		EPA 8015B/8021B	PRG	8	PASI-K
		ASTM D2974-87	JHA	1	PASI-K
		EPA 300.0	JML	1	PASI-K
6082470006	CELL 9D	EPA 8015B	SDR	3	PASI-K
		EPA 8015B/8021B	PRG	8	PASI-K
		ASTM D2974-87	JHA	1	PASI-K
		EPA 300.0	JML	1	PASI-K
6082470007	CELL 12G	EPA 8015B	SDR	3	PASI-K
		EPA 8015B/8021B	PRG	8	PASI-K
		ASTM D2974-87	JHA	1	PASI-K
		EPA 300.0	JML	1	PASI-K
6082470008	CELL 11H	EPA 8015B	SDR	3	PASI-K
		EPA 8015B/8021B	PRG	8	PASI-K
		ASTM D2974-87	JHA	1	PASI-K
		EPA 300.0	JML	1	PASI-K
6082470009	CELL 13G	EPA 8015B	SDR	3	PASI-K
		EPA 8015B/8021B	PRG	8	PASI-K
		ASTM D2974-87	JHA	1	PASI-K
		EPA 300.0	JML	1	PASI-K

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: JFJ LANDFARM

Pace Project No.: 6082470

Sample: CELL 4G Lab ID: 6082470001 Collected: 07/20/10 11:40 Received: 07/22/10 08:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics Analytical Method: EPA 8015B Preparation Method: EPA 3546								
TPH-DRO	32.7 mg/kg		10.4	1	07/27/10 00:00	08/03/10 11:15		
n-Tetracosane (S)	167 %		41-130	1	07/27/10 00:00	08/03/10 11:15	646-31-1	S2
p-Terphenyl (S)	108 %		39-130	1	07/27/10 00:00	08/03/10 11:15	92-94-4	
GRO Volatile Organics Analytical Method: EPA 8015B/8021B Preparation Method: EPA 5035A/5030B								
Benzene	ND ug/kg		52.4	1	07/27/10 00:00	07/28/10 15:24	71-43-2	
Ethylbenzene	ND ug/kg		52.4	1	07/27/10 00:00	07/28/10 15:24	100-41-4	
Gasoline Range Organics	ND ug/kg		10500	1	07/27/10 00:00	07/28/10 15:24		
Methyl-tert-butyl ether	ND ug/kg		262	1	07/27/10 00:00	07/28/10 15:24	1634-04-4	
Toluene	ND ug/kg		52.4	1	07/27/10 00:00	07/28/10 15:24	108-88-3	
Xylene (Total)	ND ug/kg		157	1	07/27/10 00:00	07/28/10 15:24	1330-20-7	
a,a,a-Trifluorotoluene (S)	98 %		78-119	1	07/27/10 00:00	07/28/10 15:24	98-08-8	
4-Bromofluorobenzene (S)	114 %		68-134	1	07/27/10 00:00	07/28/10 15:24	460-00-4	
Percent Moisture Analytical Method: ASTM D2974-87								
Percent Moisture	5.0 %		0.50	1		07/27/10 00:00		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0								
Chloride	129 mg/kg		105	10		07/29/10 13:06	16887-00-6	

ANALYTICAL RESULTS

Project: JFJ LANDFARM

Pace Project No.: 6082470

Sample: CELL 3G Lab ID: 6082470002 Collected: 07/20/10 12:00 Received: 07/22/10 08:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics Analytical Method: EPA 8015B Preparation Method: EPA 3546								
TPH-DRO	17.4 mg/kg		10.0	1	07/27/10 00:00	08/03/10 12:34		
n-Tetracosane (S)	96 %		41-130	1	07/27/10 00:00	08/03/10 12:34	646-31-1	
p-Terphenyl (S)	79 %		39-130	1	07/27/10 00:00	08/03/10 12:34	92-94-4	
GRO Volatile Organics Analytical Method: EPA 8015B/8021B Preparation Method: EPA 5035A/5030B								
Benzene	ND ug/kg		50.2	1	07/27/10 00:00	07/28/10 16:33	71-43-2	
Ethylbenzene	ND ug/kg		50.2	1	07/27/10 00:00	07/28/10 16:33	100-41-4	
Gasoline Range Organics	ND ug/kg		10000	1	07/27/10 00:00	07/28/10 16:33		
Methyl-tert-butyl ether	ND ug/kg		251	1	07/27/10 00:00	07/28/10 16:33	1634-04-4	
Toluene	ND ug/kg		50.2	1	07/27/10 00:00	07/28/10 16:33	108-88-3	
Xylene (Total)	ND ug/kg		151	1	07/27/10 00:00	07/28/10 16:33	1330-20-7	
a,a,a-Trifluorotoluene (S)	100 %		78-119	1	07/27/10 00:00	07/28/10 16:33	98-08-8	
4-Bromofluorobenzene (S)	125 %		68-134	1	07/27/10 00:00	07/28/10 16:33	460-00-4	
Percent Moisture Analytical Method: ASTM D2974-87								
Percent Moisture	1.2 %		0.50	1		07/27/10 00:00		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0								
Chloride	ND mg/kg		101	10		07/29/10 14:12	16887-00-6	

ANALYTICAL RESULTS

Project: JFJ LANDFARM

Pace Project No.: 6082470

Sample: CELL 2H Lab ID: 6082470003 Collected: 07/20/10 12:10 Received: 07/22/10 08:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics Analytical Method: EPA 8015B Preparation Method: EPA 3546								
TPH-DRO	13.9 mg/kg		11.9	1	07/27/10 00:00	08/03/10 13:14		
n-Tetracosane (S)	75 %		41-130	1	07/27/10 00:00	08/03/10 13:14	646-31-1	
p-Terphenyl (S)	74 %		39-130	1	07/27/10 00:00	08/03/10 13:14	92-94-4	
GRO Volatile Organics Analytical Method: EPA 8015B/8021B Preparation Method: EPA 5035A/5030B								
Benzene	ND ug/kg		59.6	1	07/27/10 00:00	07/28/10 16:56	71-43-2	
Ethylbenzene	ND ug/kg		59.6	1	07/27/10 00:00	07/28/10 16:56	100-41-4	
Gasoline Range Organics	ND ug/kg		11900	1	07/27/10 00:00	07/28/10 16:56		
Methyl-tert-butyl ether	ND ug/kg		298	1	07/27/10 00:00	07/28/10 16:56	1634-04-4	
Toluene	ND ug/kg		59.6	1	07/27/10 00:00	07/28/10 16:56	108-88-3	
Xylene (Total)	ND ug/kg		179	1	07/27/10 00:00	07/28/10 16:56	1330-20-7	
a,a,a-Trifluorotoluene (S)	99 %		78-119	1	07/27/10 00:00	07/28/10 16:56	98-08-8	
4-Bromofluorobenzene (S)	126 %		68-134	1	07/27/10 00:00	07/28/10 16:56	460-00-4	
Percent Moisture Analytical Method: ASTM D2974-87								
Percent Moisture	16.7 %		0.50	1		07/27/10 00:00		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0								
Chloride	ND mg/kg		120	10		07/29/10 14:25	16887-00-6	

ANALYTICAL RESULTS

Project: JFJ LANDFARM

Pace Project No.: 6082470

Sample: CELL 7C Lab ID: 6082470004 Collected: 07/20/10 12:25 Received: 07/22/10 08:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics Analytical Method: EPA 8015B Preparation Method: EPA 3546								
TPH-DRO	ND	mg/kg	10.6	1	07/27/10 00:00	08/03/10 13:54		
n-Tetracosane (S)	89	%	41-130	1	07/27/10 00:00	08/03/10 13:54	646-31-1	
p-Terphenyl (S)	87	%	39-130	1	07/27/10 00:00	08/03/10 13:54	92-94-4	
GRO Volatile Organics Analytical Method: EPA 8015B/8021B Preparation Method: EPA 5035A/5030B								
Benzene	ND	ug/kg	52.9	1	07/27/10 00:00	07/28/10 18:04	71-43-2	
Ethylbenzene	ND	ug/kg	52.9	1	07/27/10 00:00	07/28/10 18:04	100-41-4	
Gasoline Range Organics	ND	ug/kg	10600	1	07/27/10 00:00	07/28/10 18:04		
Methyl-tert-butyl ether	ND	ug/kg	265	1	07/27/10 00:00	07/28/10 18:04	1634-04-4	
Toluene	ND	ug/kg	52.9	1	07/27/10 00:00	07/28/10 18:04	108-88-3	
Xylene (Total)	ND	ug/kg	159	1	07/27/10 00:00	07/28/10 18:04	1330-20-7	
a,a,a-Trifluorotoluene (S)	100	%	78-119	1	07/27/10 00:00	07/28/10 18:04	98-08-8	
4-Bromofluorobenzene (S)	124	%	68-134	1	07/27/10 00:00	07/28/10 18:04	460-00-4	
Percent Moisture Analytical Method: ASTM D2974-87								
Percent Moisture	6.3	%	0.50	1		07/27/10 00:00		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0								
Chloride	ND	mg/kg	107	10		07/29/10 14:38	16887-00-6	

ANALYTICAL RESULTS

Project: JFJ LANDFARM

Pace Project No.: 6082470

Sample: CELL 8C Lab ID: 6082470005 Collected: 07/20/10 12:45 Received: 07/22/10 08:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics Analytical Method: EPA 8015B Preparation Method: EPA 3546								
TPH-DRO	23.6	mg/kg	10.1	1	07/27/10 00:00	08/03/10 14:34		
n-Tetracosane (S)	96	%	41-130	1	07/27/10 00:00	08/03/10 14:34	646-31-1	
p-Terphenyl (S)	81	%	39-130	1	07/27/10 00:00	08/03/10 14:34	92-94-4	
GRO Volatile Organics Analytical Method: EPA 8015B/8021B Preparation Method: EPA 5035A/5030B								
Benzene	ND	ug/kg	50.0	1	07/27/10 00:00	07/28/10 18:27	71-43-2	
Ethylbenzene	ND	ug/kg	50.0	1	07/27/10 00:00	07/28/10 18:27	100-41-4	
Gasoline Range Organics	ND	ug/kg	10000	1	07/27/10 00:00	07/28/10 18:27		
Methyl-tert-butyl ether	ND	ug/kg	250	1	07/27/10 00:00	07/28/10 18:27	1634-04-4	
Toluene	ND	ug/kg	50.0	1	07/27/10 00:00	07/28/10 18:27	108-88-3	
Xylene (Total)	ND	ug/kg	150	1	07/27/10 00:00	07/28/10 18:27	1330-20-7	
a,a,a-Trifluorotoluene (S)	100	%	78-119	1	07/27/10 00:00	07/28/10 18:27	98-08-8	
4-Bromofluorobenzene (S)	115	%	68-134	1	07/27/10 00:00	07/28/10 18:27	460-00-4	
Percent Moisture Analytical Method: ASTM D2974-87								
Percent Moisture	1.0	%	0.50	1		07/27/10 00:00		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0								
Chloride	ND	mg/kg	101	10		07/29/10 14:51	16887-00-6	

ANALYTICAL RESULTS

Project: JFJ LANDFARM

Pace Project No.: 6082470

Sample: CELL 9D Lab ID: 6082470006 Collected: 07/20/10 13:00 Received: 07/22/10 08:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics Analytical Method: EPA 8015B Preparation Method: EPA 3546								
TPH-DRO	17.3 mg/kg		10	1	07/29/10 00:00	07/30/10 04:59		
n-Tetracosane (S)	91 %		41-130	1	07/29/10 00:00	07/30/10 04:59	646-31-1	
p-Terphenyl (S)	91 %		39-130	1	07/29/10 00:00	07/30/10 04:59	92-94-4	
GRO Volatile Organics Analytical Method: EPA 8015B/8021B Preparation Method: EPA 5035A/5030B								
Benzene	ND ug/kg		50.8	1	07/27/10 00:00	07/28/10 18:50	71-43-2	
Ethylbenzene	ND ug/kg		50.8	1	07/27/10 00:00	07/28/10 18:50	100-41-4	
Gasoline Range Organics	ND ug/kg		10200	1	07/27/10 00:00	07/28/10 18:50		
Methyl-tert-butyl ether	ND ug/kg		254	1	07/27/10 00:00	07/28/10 18:50	1634-04-4	
Toluene	ND ug/kg		50.8	1	07/27/10 00:00	07/28/10 18:50	108-88-3	
Xylene (Total)	ND ug/kg		152	1	07/27/10 00:00	07/28/10 18:50	1330-20-7	
a,a,a-Trifluorotoluene (S)	99 %		78-119	1	07/27/10 00:00	07/28/10 18:50	98-08-8	
4-Bromofluorobenzene (S)	115 %		68-134	1	07/27/10 00:00	07/28/10 18:50	460-00-4	
Percent Moisture Analytical Method: ASTM D2974-87								
Percent Moisture	1.6 %		0.50	1		07/27/10 00:00		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0								
Chloride	ND mg/kg		102	10		07/29/10 15:05	16887-00-6	

ANALYTICAL RESULTS

Project: JFJ LANDFARM

Pace Project No.: 6082470

Sample: CELL 12G Lab ID: 6082470007 Collected: 07/20/10 13:10 Received: 07/22/10 08:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics Analytical Method: EPA 8015B Preparation Method: EPA 3546								
TPH-DRO	ND	mg/kg	10.3	1	07/29/10 00:00	07/30/10 05:19		
n-Tetracosane (S)	84	%	41-130	1	07/29/10 00:00	07/30/10 05:19	646-31-1	
p-Terphenyl (S)	100	%	39-130	1	07/29/10 00:00	07/30/10 05:19	92-94-4	
GRO Volatile Organics Analytical Method: EPA 8015B/8021B Preparation Method: EPA 5035A/5030B								
Benzene	ND	ug/kg	52.5	1	07/27/10 00:00	07/28/10 19:12	71-43-2	
Ethylbenzene	ND	ug/kg	52.5	1	07/27/10 00:00	07/28/10 19:12	100-41-4	
Gasoline Range Organics	ND	ug/kg	10500	1	07/27/10 00:00	07/28/10 19:12		
Methyl-tert-butyl ether	ND	ug/kg	262	1	07/27/10 00:00	07/28/10 19:12	1634-04-4	
Toluene	ND	ug/kg	52.5	1	07/27/10 00:00	07/28/10 19:12	108-88-3	
Xylene (Total)	ND	ug/kg	157	1	07/27/10 00:00	07/28/10 19:12	1330-20-7	
a,a,a-Trifluorotoluene (S)	100	%	78-119	1	07/27/10 00:00	07/28/10 19:12	98-08-8	
4-Bromofluorobenzene (S)	112	%	68-134	1	07/27/10 00:00	07/28/10 19:12	460-00-4	
Percent Moisture Analytical Method: ASTM D2974-87								
Percent Moisture	4.8	%	0.50	1		07/27/10 00:00		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0								
Chloride	ND	mg/kg	105	10		07/29/10 15:18	16887-00-6	

ANALYTICAL RESULTS

Project: JFJ LANDFARM

Pace Project No.: 6082470

Sample: CELL 11H Lab ID: 6082470008 Collected: 07/20/10 13:25 Received: 07/22/10 08:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics Analytical Method: EPA 8015B Preparation Method: EPA 3546								
TPH-DRO	18.1	mg/kg	9.9	1	07/29/10 00:00	07/30/10 05:38		
n-Tetracosane (S)	100	%	41-130	1	07/29/10 00:00	07/30/10 05:38	646-31-1	
p-Terphenyl (S)	94	%	39-130	1	07/29/10 00:00	07/30/10 05:38	92-94-4	
GRO Volatile Organics Analytical Method: EPA 8015B/8021B Preparation Method: EPA 5035A/5030B								
Benzene	ND	ug/kg	50.4	1	07/27/10 00:00	07/28/10 19:35	71-43-2	
Ethylbenzene	ND	ug/kg	50.4	1	07/27/10 00:00	07/28/10 19:35	100-41-4	
Gasoline Range Organics	ND	ug/kg	10100	1	07/27/10 00:00	07/28/10 19:35		
Methyl-tert-butyl ether	ND	ug/kg	252	1	07/27/10 00:00	07/28/10 19:35	1634-04-4	
Toluene	ND	ug/kg	50.4	1	07/27/10 00:00	07/28/10 19:35	108-88-3	
Xylene (Total)	ND	ug/kg	151	1	07/27/10 00:00	07/28/10 19:35	1330-20-7	
a,a,a-Trifluorotoluene (S)	99	%	78-119	1	07/27/10 00:00	07/28/10 19:35	98-08-8	
4-Bromofluorobenzene (S)	120	%	68-134	1	07/27/10 00:00	07/28/10 19:35	460-00-4	
Percent Moisture Analytical Method: ASTM D2974-87								
Percent Moisture	0.97	%	0.50	1		07/27/10 00:00		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0								
Chloride	ND	mg/kg	101	10		07/29/10 15:31	16887-00-6	

ANALYTICAL RESULTS

Project: JFJ LANDFARM
Pace Project No.: 6082470

Sample: CELL 13G Lab ID: 6082470009 Collected: 07/20/10 13:40 Received: 07/22/10 08:45 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics Analytical Method: EPA 8015B Preparation Method: EPA 3546								
TPH-DRO	19.5 mg/kg		10.1	1	07/29/10 00:00	07/30/10 05:58		
n-Tetracosane (S)	104 %		41-130	1	07/29/10 00:00	07/30/10 05:58	646-31-1	
p-Terphenyl (S)	97 %		39-130	1	07/29/10 00:00	07/30/10 05:58	92-94-4	
GRO Volatile Organics Analytical Method: EPA 8015B/8021B Preparation Method: EPA 5035A/5030B								
Benzene	ND ug/kg		50.6	1	07/27/10 00:00	07/28/10 19:57	71-43-2	
Ethylbenzene	ND ug/kg		50.6	1	07/27/10 00:00	07/28/10 19:57	100-41-4	
Gasoline Range Organics	ND ug/kg		10100	1	07/27/10 00:00	07/28/10 19:57		
Methyl-tert-butyl ether	ND ug/kg		253	1	07/27/10 00:00	07/28/10 19:57	1634-04-4	
Toluene	ND ug/kg		50.6	1	07/27/10 00:00	07/28/10 19:57	108-88-3	
Xylene (Total)	ND ug/kg		152	1	07/27/10 00:00	07/28/10 19:57	1330-20-7	
a,a,a-Trifluorotoluene (S)	101 %		78-119	1	07/27/10 00:00	07/28/10 19:57	98-08-8	
4-Bromofluorobenzene (S)	112 %		68-134	1	07/27/10 00:00	07/28/10 19:57	460-00-4	
Percent Moisture Analytical Method: ASTM D2974-87								
Percent Moisture	1.6 %		0.50	1		07/27/10 00:00		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0								
Chloride	ND mg/kg		102	10		07/29/10 15:44	16887-00-6	

QUALITY CONTROL DATA

Project: JFJ LANDFARM
Pace Project No.: 6082470

QC Batch: OEXT/24708 Analysis Method: EPA 8015B
QC Batch Method: EPA 3546 Analysis Description: EPA 8015B
Associated Lab Samples: 6082470001, 6082470002, 6082470003, 6082470004, 6082470005

METHOD BLANK: 676881

Matrix: Solid

Associated Lab Samples: 6082470001, 6082470002, 6082470003, 6082470004, 6082470005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-DRO	mg/kg	ND	10	08/02/10 23:41	
n-Tetracosane (S)	%	76	41-130	08/02/10 23:41	
p-Terphenyl (S)	%	78	39-130	08/02/10 23:41	

LABORATORY CONTROL SAMPLE: 676882

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-DRO	mg/kg	83.1	86.4	104	57-120	
n-Tetracosane (S)	%			79	41-130	
p-Terphenyl (S)	%			83	39-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 676883

676884

Parameter	Units	6082465001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
TPH-DRO	mg/kg	363	96.7	96.8	431	462	71	103	36-125	7	28
n-Tetracosane (S)	%						98	93	41-130		
p-Terphenyl (S)	%						96	90	39-130		

QUALITY CONTROL DATA

Project: JFJ LANDFARM

Pace Project No.: 6082470

QC Batch: OEXT/24747 Analysis Method: EPA 8015B

QC Batch Method: EPA 3546 Analysis Description: EPA 8015B

Associated Lab Samples: 6082470006, 6082470007, 6082470008, 6082470009

METHOD BLANK: 678029

Matrix: Solid

Associated Lab Samples: 6082470006, 6082470007, 6082470008, 6082470009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-DRO	mg/kg	ND	9.9	08/01/10 02:03	
n-Tetracosane (S)	%	81	41-130	08/01/10 02:03	
p-Terphenyl (S)	%	93	39-130	08/01/10 02:03	

LABORATORY CONTROL SAMPLE: 678030

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-DRO	mg/kg	82.2	90.2	110	57-120	
n-Tetracosane (S)	%			79	41-130	
p-Terphenyl (S)	%			91	39-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 678031 678032

Parameter	Units	6082470006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
TPH-DRO	mg/kg	17.3	84.2	83.3	95.1	102	92	101	36-125	7	28
n-Tetracosane (S)	%						95	96	41-130		
p-Terphenyl (S)	%						90	97	39-130		

QUALITY CONTROL DATA

Project: JFJ LANDFARM
Pace Project No.: 6082470

QC Batch: GCV/3363 Analysis Method: EPA 8015B/8021B
QC Batch Method: EPA 5035A/5030B Analysis Description: GRO BTEX GCV Soil
Associated Lab Samples: 6082470001, 6082470002, 6082470003, 6082470004, 6082470005, 6082470006, 6082470007, 6082470008, 6082470009

METHOD BLANK: 676919 Matrix: Solid
Associated Lab Samples: 6082470001, 6082470002, 6082470003, 6082470004, 6082470005, 6082470006, 6082470007, 6082470008, 6082470009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/kg	ND	50.0	07/28/10 15:02	
Ethylbenzene	ug/kg	ND	50.0	07/28/10 15:02	
Gasoline Range Organics	ug/kg	ND	9990	07/28/10 15:02	
Methyl-tert-butyl ether	ug/kg	ND	250	07/28/10 15:02	
Toluene	ug/kg	ND	50.0	07/28/10 15:02	
Xylene (Total)	ug/kg	ND	150	07/28/10 15:02	
4-Bromofluorobenzene (S)	%	127	68-134	07/28/10 15:02	
a,a,a-Trifluorotoluene (S)	%	96	78-119	07/28/10 15:02	

LABORATORY CONTROL SAMPLE: 676920

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/kg	997	1030	103	76-122	
Ethylbenzene	ug/kg	997	1050	105	81-128	
Gasoline Range Organics	ug/kg	49900	52400	105	77-122	
Methyl-tert-butyl ether	ug/kg	997	899	90	61-131	
Toluene	ug/kg	997	961	96	78-124	
Xylene (Total)	ug/kg	2990	2930	98	81-128	
4-Bromofluorobenzene (S)	%			118	68-134	
a,a,a-Trifluorotoluene (S)	%			98	78-119	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 676921 676922

Parameter	Units	6082470001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
Benzene	ug/kg	ND	1050	1050	1150	1110	110	106	49-130	3	22
Ethylbenzene	ug/kg	ND	1050	1050	1180	1150	113	109	32-154	3	20
Methyl-tert-butyl ether	ug/kg	ND	1050	1050	1020	987	98	94	69-130	4	20
Toluene	ug/kg	ND	1050	1050	1120	1090	106	103	56-133	3	17
Xylene (Total)	ug/kg	ND	3150	3150	3340	3240	106	103	50-147	3	23
a,a,a-Trifluorotoluene (S)	%						100	100	78-119		

QUALITY CONTROL DATA

Project: JFJ LANDFARM

Pace Project No.: 6082470

QC Batch: PMST/5273 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 6082470001, 6082470002, 6082470003, 6082470004, 6082470005, 6082470006, 6082470007, 6082470008, 6082470009

METHOD BLANK: 676902 Matrix: Solid
Associated Lab Samples: 6082470001, 6082470002, 6082470003, 6082470004, 6082470005, 6082470006, 6082470007, 6082470008, 6082470009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Percent Moisture	%	ND	0.50	07/27/10 00:00	

SAMPLE DUPLICATE: 676901

Parameter	Units	6082273003 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	12.8	12.2	5	20	

QUALITY CONTROL DATA

Project: JFJ LANDFARM
Pace Project No.: 6082470

QC Batch: WETA/13539 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 6082470001, 6082470002, 6082470003, 6082470004, 6082470005, 6082470006, 6082470007, 6082470008, 6082470009

METHOD BLANK: 678077 Matrix: Solid
Associated Lab Samples: 6082470001, 6082470002, 6082470003, 6082470004, 6082470005, 6082470006, 6082470007, 6082470008, 6082470009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/kg	ND	10.0	07/29/10 12:39	

LABORATORY CONTROL SAMPLE: 678078

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/kg	50	49.5	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 678079 678080

Parameter	Units	6082470001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
Chloride	mg/kg	129	527	527	543	526	78	75	64-120	3	15

QUALIFIERS

Project: JFJ LANDFARM
Pace Project No.: 6082470

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

LABORATORIES

PASI-K Pace Analytical Services - Kansas City

ANALYTE QUALIFIERS

S2 Surrogate recovery outside laboratory control limits due to matrix interferences (confirmed by similar results from sample re-analysis).

QUALITY CONTROL DATA CROSS-REFERENCE TABLE

Project: JFJ LANDFARM
Pace Project No.: 6082470

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
6082470001	CELL 4G	EPA 3546	OEXT/24708	EPA 8015B	GCSV/9096
6082470002	CELL 3G	EPA 3546	OEXT/24708	EPA 8015B	GCSV/9096
6082470003	CELL 2H	EPA 3546	OEXT/24708	EPA 8015B	GCSV/9096
6082470004	CELL 7C	EPA 3546	OEXT/24708	EPA 8015B	GCSV/9096
6082470005	CELL 8C	EPA 3546	OEXT/24708	EPA 8015B	GCSV/9096
6082470006	CELL 9D	EPA 3546	OEXT/24747	EPA 8015B	GCSV/9097
6082470007	CELL 12G	EPA 3546	OEXT/24747	EPA 8015B	GCSV/9097
6082470008	CELL 11H	EPA 3546	OEXT/24747	EPA 8015B	GCSV/9097
6082470009	CELL 13G	EPA 3546	OEXT/24747	EPA 8015B	GCSV/9097
6082470001	CELL 4G	EPA 5035A/5030B	GCV/3363	EPA 8015B/8021B	GCV/3367
6082470002	CELL 3G	EPA 5035A/5030B	GCV/3363	EPA 8015B/8021B	GCV/3367
6082470003	CELL 2H	EPA 5035A/5030B	GCV/3363	EPA 8015B/8021B	GCV/3367
6082470004	CELL 7C	EPA 5035A/5030B	GCV/3363	EPA 8015B/8021B	GCV/3367
6082470005	CELL 8C	EPA 5035A/5030B	GCV/3363	EPA 8015B/8021B	GCV/3367
6082470006	CELL 9D	EPA 5035A/5030B	GCV/3363	EPA 8015B/8021B	GCV/3367
6082470007	CELL 12G	EPA 5035A/5030B	GCV/3363	EPA 8015B/8021B	GCV/3367
6082470008	CELL 11H	EPA 5035A/5030B	GCV/3363	EPA 8015B/8021B	GCV/3367
6082470009	CELL 13G	EPA 5035A/5030B	GCV/3363	EPA 8015B/8021B	GCV/3367
6082470001	CELL 4G	ASTM D2974-87	PMST/5273		
6082470002	CELL 3G	ASTM D2974-87	PMST/5273		
6082470003	CELL 2H	ASTM D2974-87	PMST/5273		
6082470004	CELL 7C	ASTM D2974-87	PMST/5273		
6082470005	CELL 8C	ASTM D2974-87	PMST/5273		
6082470006	CELL 9D	ASTM D2974-87	PMST/5273		
6082470007	CELL 12G	ASTM D2974-87	PMST/5273		
6082470008	CELL 11H	ASTM D2974-87	PMST/5273		
6082470009	CELL 13G	ASTM D2974-87	PMST/5273		
6082470001	CELL 4G	EPA 300.0	WETA/13539		
6082470002	CELL 3G	EPA 300.0	WETA/13539		
6082470003	CELL 2H	EPA 300.0	WETA/13539		
6082470004	CELL 7C	EPA 300.0	WETA/13539		
6082470005	CELL 8C	EPA 300.0	WETA/13539		
6082470006	CELL 9D	EPA 300.0	WETA/13539		
6082470007	CELL 12G	EPA 300.0	WETA/13539		
6082470008	CELL 11H	EPA 300.0	WETA/13539		
6082470009	CELL 13G	EPA 300.0	WETA/13539		

BLAGG ENGINEERING, INC.

P.O. Box 87, Bloomfield, New Mexico 87413

Phone: (505)632-1199 Fax: (505)632-3903

RECEIVED OGD

2010 APR 27 A 10:55

April 23, 2010

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 March 22, 2010.

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 and total chloride by U.S. EPA 4500B. Samples were collected from active cell units 2b, 3e, 4e, 7c, 8c, 9a, 11d, 12f and 13e (Figure 1). All testing found total petroleum hydrocarbons were within permit limits (100 mg/Kg), non-detect for BTEX analysis and all chloride results were below 100 parts per million.

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.

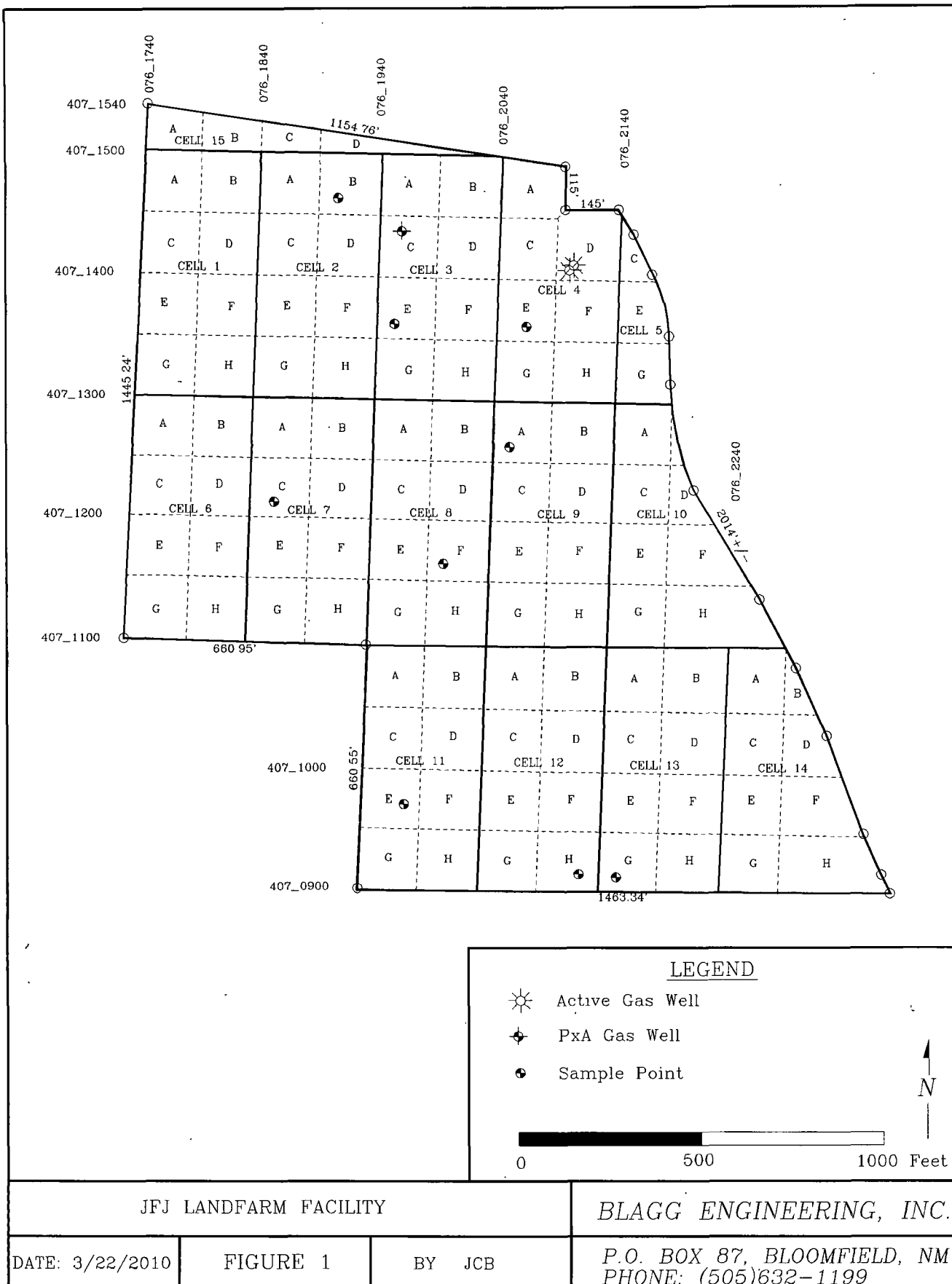
Respectfully submitted:
Blagg Engineering, Inc.



Jeffrey C. Blagg, P.E.
President

Attachments: Site Diagram
Analytical Test Reports

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



CHAIN OF CUSTODY RECORD

8913

Client: BLAGG / IFJ			Project Name / Location: IFJ L.F.			ANALYSIS / PARAMETERS															
Client Address:			Sampler Name: J. Blagg																		
Client Phone No.:			Client No.: 94034-0010																		
Sample No./ Identification	Sample Date	Sample Time	Lab No.	Sample Matrix	No./Volume of Containers	Preservative HCl, HCl		TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	PAH	TPH (418.1)	CHLORIDE			Sample Cool	Sample Intact
CELL 2B	3/22/10	1440	53441	Soil Solid Sludge Aqueous	1-402			X	X								X			Y	Y
CELL 3E	"	1450	53442	Soil Solid Sludge Aqueous	"			X	X								X				
CELL 4E	"	1430	53443	Soil Solid Sludge Aqueous	"			X	X								X				
CELL 7C	"	1345	53444	Soil Solid Sludge Aqueous	"			X	X								X				
CELL 8C	"	1335	53445	Soil Solid Sludge Aqueous	"			X	X								X				
CELL 9A	"	1410	53446	Soil Solid Sludge Aqueous	"			X	X								X				
CELL 11D	"	1335	53447	Soil Solid Sludge Aqueous	"			X	X								X				
CELL 12F	"	1310	53448	Soil Solid Sludge Aqueous	"			X	X								X				
CELL 13E	"	1320	53449	Soil Solid Sludge Aqueous	"			X	X								X				
				Soil Solid Sludge Aqueous																	
Relinquished by: (Signature) <i>J. Blagg</i>				Date 3/23/10	Time 0838	Received by: (Signature) <i>[Signature]</i>											Date 3/23/10	Time 0838			
Relinquished by: (Signature)						Received by: (Signature)															
Relinquished by: (Signature)						Received by: (Signature)															



5796 US Highway 64 • Farmington, NM 87401 • 505-632-0615 • lab@envirotech-inc.com



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**EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons**

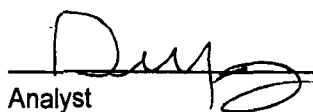
Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 2B	Date Reported:	03-25-10
Laboratory Number:	53441	Date Sampled:	03-22-10
Chain of Custody No:	8913	Date Received:	03-23-10
Sample Matrix:	Soil	Date Extracted:	03-23-10
Preservative:	Cool	Date Analyzed:	03-24-10
Condition:	Intact	Analysis Requested:	8015 TPH

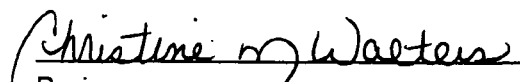
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

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.


Analyst


Review

**envirotech**

Analytical Laboratory

**EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons**

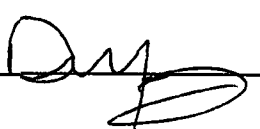
Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 3E	Date Reported:	03-25-10
Laboratory Number:	53442	Date Sampled:	03-22-10
Chain of Custody No:	8913	Date Received:	03-23-10
Sample Matrix:	Soil	Date Extracted:	03-23-10
Preservative:	Cool	Date Analyzed:	03-24-10
Condition:	Intact	Analysis Requested:	8015 TPH

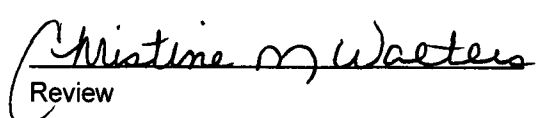
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

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.


Analyst


Review



envirotech
Analytical Laboratory

**EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons**

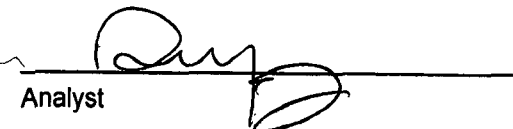
Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 4E	Date Reported:	03-25-10
Laboratory Number:	53443	Date Sampled:	03-22-10
Chain of Custody No:	8913	Date Received:	03-23-10
Sample Matrix:	Soil	Date Extracted:	03-23-10
Preservative:	Cool	Date Analyzed:	03-24-10
Condition:	Intact	Analysis Requested:	8015 TPH

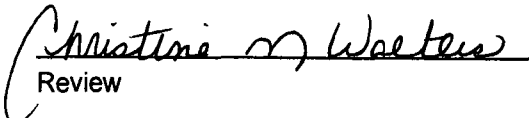
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

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.


Analyst


Review



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**EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons**

Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 7C	Date Reported:	03-25-10
Laboratory Number:	53444	Date Sampled:	03-22-10
Chain of Custody No:	8913	Date Received:	03-23-10
Sample Matrix:	Soil	Date Extracted:	03-23-10
Preservative:	Cool	Date Analyzed:	03-24-10
Condition:	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.

Analyst

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**EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons**

Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 8C	Date Reported:	03-25-10
Laboratory Number:	53445	Date Sampled:	03-22-10
Chain of Custody No:	8913	Date Received:	03-23-10
Sample Matrix:	Soil	Date Extracted:	03-23-10
Preservative:	Cool	Date Analyzed:	03-24-10
Condition:	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.

Analyst

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**EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons**

Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 9A	Date Reported:	03-25-10
Laboratory Number:	53446	Date Sampled:	03-22-10
Chain of Custody No:	8913	Date Received:	03-23-10
Sample Matrix:	Soil	Date Extracted:	03-23-10
Preservative:	Cool	Date Analyzed:	03-24-10
Condition:	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.

Analyst

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**EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons**

Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 11D	Date Reported:	03-25-10
Laboratory Number:	53447	Date Sampled:	03-22-10
Chain of Custody No:	8913	Date Received:	03-23-10
Sample Matrix:	Soil	Date Extracted:	03-23-10
Preservative:	Cool	Date Analyzed:	03-24-10
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	4.3	0.1
Total Petroleum Hydrocarbons	4.3	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.

Analyst

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EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 7C	Date Reported:	03-25-10
Laboratory Number:	53444	Date Sampled:	03-22-10
Chain of Custody:	8913	Date Received:	03-23-10
Sample Matrix:	Soil	Date Analyzed:	03-24-10
Preservative:	Cool	Date Extracted:	03-23-10
Condition:	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	94.0 %
	1,4-difluorobenzene	99.8 %
	Bromochlorobenzene	98.5 %

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.

Analyst

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EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 8C	Date Reported:	03-25-10
Laboratory Number:	53445	Date Sampled:	03-22-10
Chain of Custody:	8913	Date Received:	03-23-10
Sample Matrix:	Soil	Date Analyzed:	03-24-10
Preservative:	Cool	Date Extracted:	03-23-10
Condition:	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	92.0 %
	1,4-difluorobenzene	99.3 %
	Bromochlorobenzene	95.5 %

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.

Analyst

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EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 9A	Date Reported:	03-25-10
Laboratory Number:	53446	Date Sampled:	03-22-10
Chain of Custody:	8913	Date Received:	03-23-10
Sample Matrix:	Soil	Date Analyzed:	03-24-10
Preservative:	Cool	Date Extracted:	03-23-10
Condition:	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	91.0 %
	1,4-difluorobenzene	99.0 %
	Bromochlorobenzene	94.0 %

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 L.F.

Analyst

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EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 11D	Date Reported:	03-25-10
Laboratory Number:	53447	Date Sampled:	03-22-10
Chain of Custody:	8913	Date Received:	03-23-10
Sample Matrix:	Soil	Date Analyzed:	03-24-10
Preservative:	Cool	Date Extracted:	03-23-10
Condition:	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	91.0 %
	1,4-difluorobenzene	99.0 %
	Bromochlorobenzene	94.0 %

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 L.F.

Analyst

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EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 12F	Date Reported:	03-25-10
Laboratory Number:	53448	Date Sampled:	03-22-10
Chain of Custody:	8913	Date Received:	03-23-10
Sample Matrix:	Soil	Date Analyzed:	03-24-10
Preservative:	Cool	Date Extracted:	03-23-10
Condition:	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	94.0 %
	1,4-difluorobenzene	99.8 %
	Bromochlorobenzene	98.5 %

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.

Analyst

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EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 13E	Date Reported:	03-25-10
Laboratory Number:	53449	Date Sampled:	03-22-10
Chain of Custody:	8913	Date Received:	03-23-10
Sample Matrix:	Soil	Date Analyzed:	03-24-10
Preservative:	Cool	Date Extracted:	03-23-10
Condition:	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	93.0 %
	1,4-difluorobenzene	99.5 %
	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 L.F.

Analyst

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EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	03-24-BT QA/QC	Date Reported:	03-25-10
Laboratory Number:	53441	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	03-24-10
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	Cal R ²	Cal R ²	% Diff	Blank Conc	Detect Limit
		Accept Range 0 - 15%			
Benzene	1.1445E+006	1.1467E+006	0.2%	ND	0.1
Toluene	1.0503E+006	1.0524E+006	0.2%	ND	0.1
Ethylbenzene	9.5072E+005	9.5263E+005	0.2%	ND	0.1
p,m-Xylene	2.3597E+006	2.3644E+006	0.2%	ND	0.1
o-Xylene	8.9295E+005	8.9474E+005	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	46.6	93.2%	39 - 150
Toluene	ND	50.0	47.6	95.2%	46 - 148
Ethylbenzene	ND	50.0	46.9	93.8%	32 - 160
p,m-Xylene	ND	100	95.0	95.0%	46 - 148
o-Xylene	ND	50.0	48.1	96.2%	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 53441 - 53450

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**EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons**

Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 12F	Date Reported:	03-25-10
Laboratory Number:	53448	Date Sampled:	03-22-10
Chain of Custody No:	8913	Date Received:	03-23-10
Sample Matrix:	Soil	Date Extracted:	03-23-10
Preservative:	Cool	Date Analyzed:	03-24-10
Condition:	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.

Analyst

Review

**EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons**

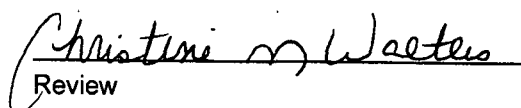
Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 13E	Date Reported:	03-25-10
Laboratory Number:	53449	Date Sampled:	03-22-10
Chain of Custody No:	8913	Date Received:	03-23-10
Sample Matrix:	Soil	Date Extracted:	03-23-10
Preservative:	Cool	Date Analyzed:	03-24-10
Condition:	Intact	Analysis Requested:	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.


Analyst
Review

**EPA Method 8015 Modified
 Nonhalogenated Volatile Organics
 Total Petroleum Hydrocarbons**

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	03-24-10 QA/QC	Date Reported:	03-25-10
Laboratory Number:	53441	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	03-24-10
Condition:	N/A	Analysis Requested:	TPH

	Cal Date	I-Cal RF	C-Cal RF	% Difference	Accept Range
Gasoline Range C5 - C10	05-07-07	9.1398E+002	9.1435E+002	0.04%	0 - 15%
Diesel Range C10 - C28	05-07-07	8.2750E+002	8.2783E+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

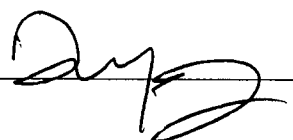
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept Range
Gasoline Range C5 - C10	ND	ND	0.0%	0 - 30%
Diesel Range C10 - C28	ND	ND	0.0%	0 - 30%

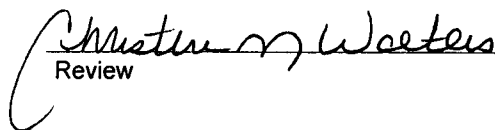
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept Range
Gasoline Range C5 - C10	ND	250	212	84.8%	75 - 125%
Diesel Range C10 - C28	ND	250	253	101%	75 - 125%

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 53441 - 53450**

Analyst 


 Review

Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 2B	Date Reported:	03-25-10
Laboratory Number:	53441	Date Sampled:	03-22-10
Chain of Custody:	8913	Date Received:	03-23-10
Sample Matrix:	Soil	Date Analyzed:	03-24-10
Preservative:	Cool	Date Extracted:	03-23-10
Condition:	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	92.0 %
	1,4-difluorobenzene	99.3 %
	Bromochlorobenzene	95.5 %

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.

Analyst

Review



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EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 3E	Date Reported:	03-25-10
Laboratory Number:	53442	Date Sampled:	03-22-10
Chain of Custody:	8913	Date Received:	03-23-10
Sample Matrix:	Soil	Date Analyzed:	03-24-10
Preservative:	Cool	Date Extracted:	03-23-10
Condition:	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	94.0 %
	1,4-difluorobenzene	99.8 %
	Bromochlorobenzene	98.5 %

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.

Analyst

Review



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Chloride

Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 11D	Date Reported:	03-25-10
Lab ID#:	53447	Date Sampled:	03-22-10
Sample Matrix:	Soil	Date Received:	03-23-10
Preservative:	Cool	Date Analyzed:	03-24-10
Condition:	Intact	Chain of Custody:	8913

Parameter	Concentration (mg/Kg)
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Total Chloride

50

Reference: U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: JFJ L.F.

Analyst

Review



Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 12F	Date Reported:	03-25-10
Lab ID#:	53448	Date Sampled:	03-22-10
Sample Matrix:	Soil	Date Received:	03-23-10
Preservative:	Cool	Date Analyzed:	03-24-10
Condition:	Intact	Chain of Custody:	8913

Parameter	Concentration (mg/Kg)
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Total Chloride

30

Reference: U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: JFJ L.F.

Analyst

Review



Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 13E	Date Reported:	03-25-10
Lab ID#:	53449	Date Sampled:	03-22-10
Sample Matrix:	Soil	Date Received:	03-23-10
Preservative:	Cool	Date Analyzed:	03-24-10
Condition:	Intact	Chain of Custody:	8913

Parameter	Concentration (mg/Kg)
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Total Chloride

5

Reference: U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: JFJ L.F.

Analyst

Review



Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 2B	Date Reported:	03-25-10
Lab ID#:	53441	Date Sampled:	03-22-10
Sample Matrix:	Soil	Date Received:	03-23-10
Preservative:	Cool	Date Analyzed:	03-24-10
Condition:	Intact	Chain of Custody:	8913

Parameter

Concentration (mg/Kg)

Total Chloride

40

Reference: U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: JFJ L.F.

Analyst

Review



Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 3E	Date Reported:	03-25-10
Lab ID#:	53442	Date Sampled:	03-22-10
Sample Matrix:	Soil	Date Received:	03-23-10
Preservative:	Cool	Date Analyzed:	03-24-10
Condition:	Intact	Chain of Custody:	8913

Parameter

Concentration (mg/Kg)

Total Chloride

10

Reference: U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: JFJ L.F.

Analyst

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Chloride

Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 4E	Date Reported:	03-25-10
Lab ID#:	53443	Date Sampled:	03-22-10
Sample Matrix:	Soil	Date Received:	03-23-10
Preservative:	Cool	Date Analyzed:	03-24-10
Condition:	Intact	Chain of Custody:	8913

Parameter

Concentration (mg/Kg)

Total Chloride

35

Reference: U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: JFJ L.F.

Analyst

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Chloride

Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 7C	Date Reported:	03-25-10
Lab ID#:	53444	Date Sampled:	03-22-10
Sample Matrix:	Soil	Date Received:	03-23-10
Preservative:	Cool	Date Analyzed:	03-24-10
Condition:	Intact	Chain of Custody:	8913

Parameter	Concentration (mg/Kg)
-----------	-----------------------

Total Chloride

10

Reference: U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: JFJ L.F.

Analyst

Review



Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 8C	Date Reported:	03-25-10
Lab ID#:	53445	Date Sampled:	03-22-10
Sample Matrix:	Soil	Date Received:	03-23-10
Preservative:	Cool	Date Analyzed:	03-24-10
Condition:	Intact	Chain of Custody:	8913

Parameter

Concentration (mg/Kg)

Total Chloride

5

Reference: U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: JFJ L.F.

Analyst

Review



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Chloride

Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 9A	Date Reported:	03-25-10
Lab ID#:	53446	Date Sampled:	03-22-10
Sample Matrix:	Soil	Date Received:	03-23-10
Preservative:	Cool	Date Analyzed:	03-24-10
Condition:	Intact	Chain of Custody:	8913

Parameter

Concentration (mg/Kg)

Total Chloride

50

Reference: U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: JFJ L.F.

Analyst

Review

BLAGG ENGINEERING, INC.

P.O. Box 87, Bloomfield, New Mexico 87413

Phone: (505)632-1199 Fax: (505)632-3903

December 30, 2009

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

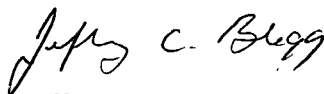
Dear Mr. Jones:

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 December 21, 2009.

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, RCRA 8 Metals and general cation/anion balance. Samples were collected from active cell units 2a, 3a, 4e, 7g, 8f, 9d, 11e, 12h and 13g (Figure 1). All testing found total petroleum hydrocarbons were within permit limits (100 mg/Kg) and non-detect for BTEX analysis. Chloride testing included with the cation/anion results were all well below the landfarm standard of 1,000 parts per million.

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.

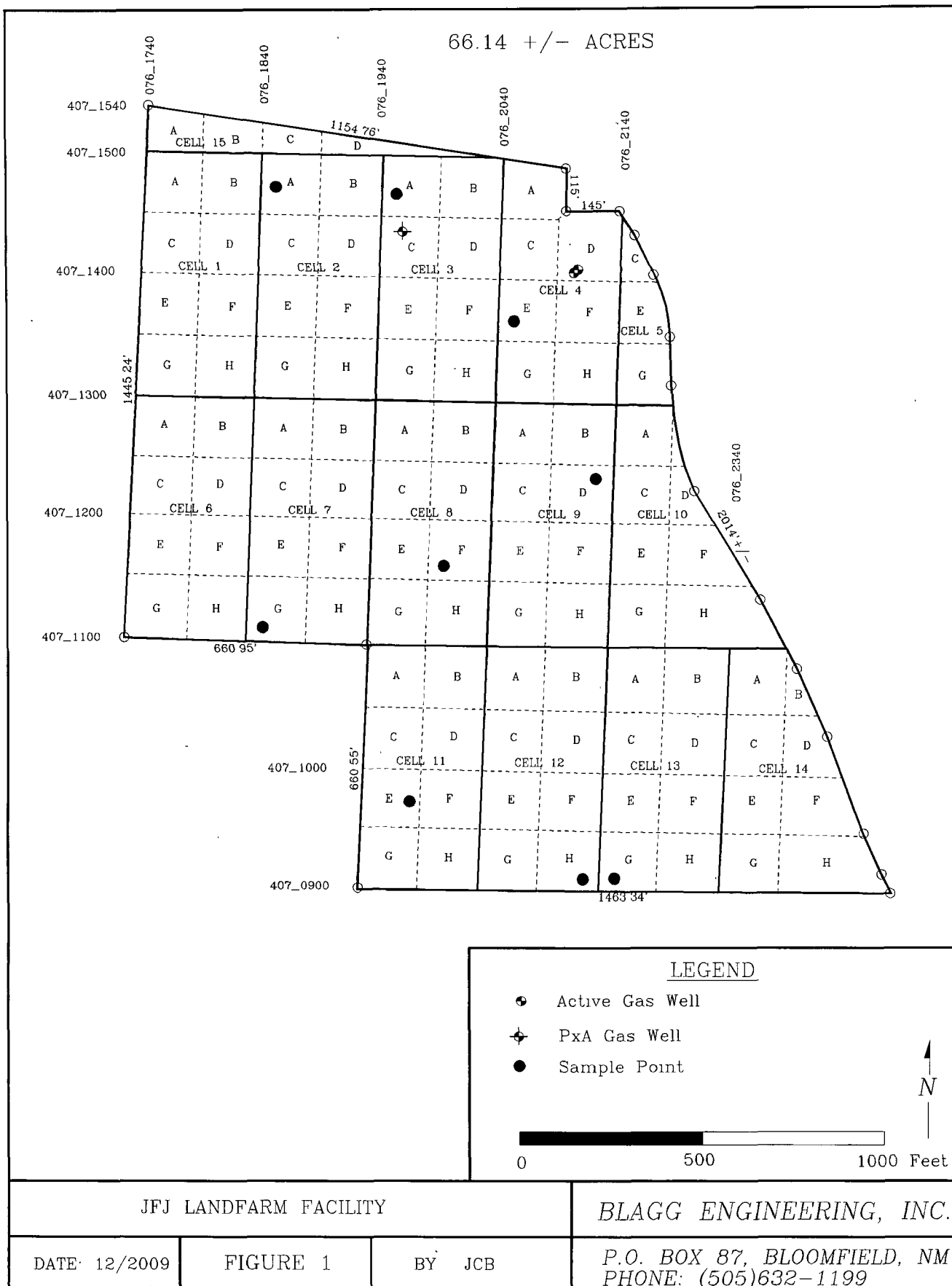
Respectfully submitted:
Blagg Engineering, Inc.



Jeffrey C. Blagg, P.E.
President

Attachments: Site Diagram
Analytical Test Reports

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



CHAIN OF CUSTODY RECORD

8575

Client: BLAGG / JFJ			Project Name / Location: JFJ LANDFARM			ANALYSIS / PARAMETERS													
Client Address:			Sampler Name: J. BLAGG			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RGI	TCLP with H/P	PAH	TPH (418.1)	CHLORIDE			Sample Cool	Sample Intact
Client Phone No.:			Client No.: 94034-0010																
Sample No./ Identification	Sample Date	Sample Time	Lab No.	Sample Matrix	No./Volume of Containers	Preservative													
						HgCl ₂	HCl												
CELL 13G	12/21/09	1345	52769	Soil Solid	Sludge Aqueous	1-402				X	X		X	X					
				Soil Solid	Sludge Aqueous	1-346				X	X		X	X					
CELL 12H	"	1403	52770	Soil Solid	Sludge Aqueous	11				X	X		X	X					
				Soil Solid	Sludge Aqueous	11				X	X		X	X					
CELL 11E	"	1420	52771	Soil Solid	Sludge Aqueous	11				X	X		X	X					
				Soil Solid	Sludge Aqueous	11				X	X		X	X					
CELL 7G	"	1445	52772	Soil Solid	Sludge Aqueous	11				X	X		X	X					
				Soil Solid	Sludge Aqueous	11				X	X		X	X					
CELL 8D	"	1510	52773	Soil Solid	Sludge Aqueous	11				X	X		X	X					
				Soil Solid	Sludge Aqueous	11				X	X		X	X					
CELL 9D	"	1540	52774	Soil Solid	Sludge Aqueous	11				X	X		X	X					
				Soil Solid	Sludge Aqueous	11				X	X		X	X					
CELL 4E	"	1605	52775	Soil Solid	Sludge Aqueous	11				X	X		X	X					
				Soil Solid	Sludge Aqueous	11				X	X		X	X					
CELL 3A	"	1638	52776	Soil Solid	Sludge Aqueous	11				X	X		X	X					
				Soil Solid	Sludge Aqueous	11				X	X		X	X					
CELL 2A	"	1710	52777	Soil Solid	Sludge Aqueous	11				X	X		X	X					
				Soil Solid	Sludge Aqueous	11				X	X		X	X					
Relinquished by: (Signature)						Date	Time	Received by: (Signature)						Date	Time				
<i>Jeff Blagg</i>						12/22/09	0753	<i>[Signature]</i>						12/22/09	0753				
Relinquished by: (Signature)								Received by: (Signature)											
Relinquished by: (Signature)								Received by: (Signature)											



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5796 US Highway 64 • Farmington, NM 87401 • 505-632-0615 • lab@envirotech-inc.com



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**EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons**

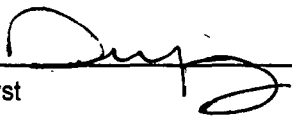
Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 13G	Date Reported:	12-23-09
Laboratory Number:	52769	Date Sampled:	12-21-09
Chain of Custody No:	8575	Date Received:	12-22-09
Sample Matrix:	Soil	Date Extracted:	12-22-09
Preservative:	Cool	Date Analyzed:	12-23-09
Condition:	Intact	Analysis Requested:	8015 TPH

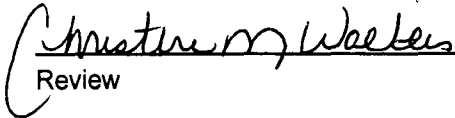
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

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

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

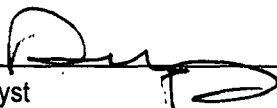
Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 12H	Date Reported:	12-23-09
Laboratory Number:	52770	Date Sampled:	12-21-09
Chain of Custody No:	8575	Date Received:	12-22-09
Sample Matrix:	Soil	Date Extracted:	12-22-09
Preservative:	Cool	Date Analyzed:	12-23-09
Condition:	Intact	Analysis Requested:	8015 TPH

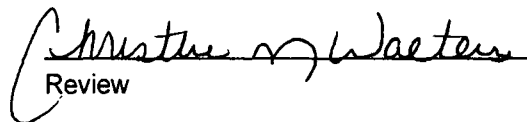
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

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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**EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons**

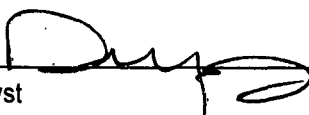
Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 11E	Date Reported:	12-23-09
Laboratory Number:	52771	Date Sampled:	12-21-09
Chain of Custody No:	8575	Date Received:	12-22-09
Sample Matrix:	Soil	Date Extracted:	12-22-09
Preservative:	Cool	Date Analyzed:	12-23-09
Condition:	Intact	Analysis Requested:	8015 TPH

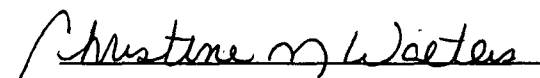
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

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

**EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons**

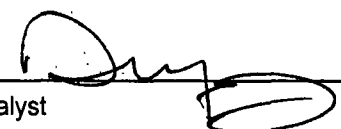
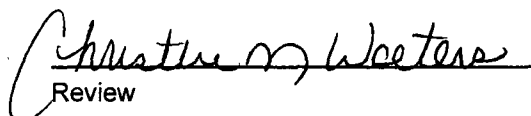
Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 7G	Date Reported:	12-23-09
Laboratory Number:	52772	Date Sampled:	12-21-09
Chain of Custody No:	8575	Date Received:	12-22-09
Sample Matrix:	Soil	Date Extracted:	12-22-09
Preservative:	Cool	Date Analyzed:	12-23-09
Condition:	Intact	Analysis Requested:	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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**EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons**

Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 8D	Date Reported:	12-23-09
Laboratory Number:	52773	Date Sampled:	12-21-09
Chain of Custody No:	8575	Date Received:	12-22-09
Sample Matrix:	Soil	Date Extracted:	12-22-09
Preservative:	Cool	Date Analyzed:	12-23-09
Condition:	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

**EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons**

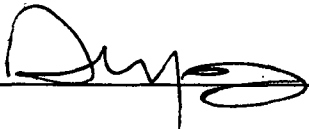
Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 9D	Date Reported:	12-23-09
Laboratory Number:	52774	Date Sampled:	12-21-09
Chain of Custody No:	8575	Date Received:	12-22-09
Sample Matrix:	Soil	Date Extracted:	12-22-09
Preservative:	Cool	Date Analyzed:	12-23-09
Condition:	Intact	Analysis Requested:	8015 TPH

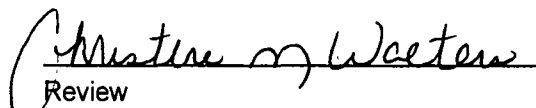
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

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

**EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons**

Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 4E	Date Reported:	12-23-09
Laboratory Number:	52775	Date Sampled:	12-21-09
Chain of Custody No:	8575	Date Received:	12-22-09
Sample Matrix:	Soil	Date Extracted:	12-22-09
Preservative:	Cool	Date Analyzed:	12-23-09
Condition:	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

**EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons**

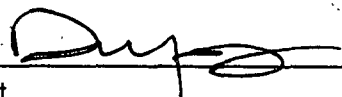
Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 3A	Date Reported:	12-23-09
Laboratory Number:	52776	Date Sampled:	12-21-09
Chain of Custody No:	8575	Date Received:	12-22-09
Sample Matrix:	Soil	Date Extracted:	12-22-09
Preservative:	Cool	Date Analyzed:	12-23-09
Condition:	Intact	Analysis Requested:	8015 TPH

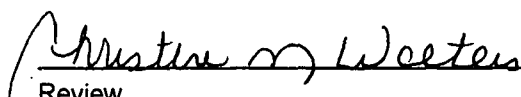
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	4.0	0.1
Total Petroleum Hydrocarbons	4.0	0.2

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**


Analyst


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**EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons**

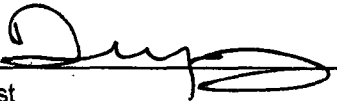
Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 2A	Date Reported:	12-23-09
Laboratory Number:	52777	Date Sampled:	12-21-09
Chain of Custody No:	8575	Date Received:	12-22-09
Sample Matrix:	Soil	Date Extracted:	12-22-09
Preservative:	Cool	Date Analyzed:	12-23-09
Condition:	Intact	Analysis Requested:	8015 TPH

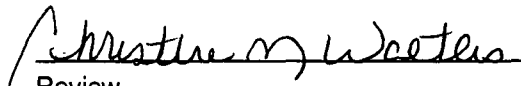
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

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

**EPA Method 8015 Modified
 Nonhalogenated Volatile Organics
 Total Petroleum Hydrocarbons**

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	12-23-09 QA/QC	Date Reported:	12-23-09
Laboratory Number:	52769	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	12-23-09
Condition:	N/A	Analysis Requested:	TPH

	Cal Date	Cal RF	C-Cal RF	% Difference	Accept Range
Gasoline Range C5 - C10	05-07-07	9.9960E+002	1.0000E+003	0.04%	0 - 15%
Diesel Range C10 - C28	05-07-07	9.9960E+002	1.0000E+003	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%

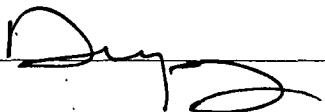
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept Range
Gasoline Range C5 - C10	ND	250	233	93.2%	75 - 125%
Diesel Range C10 - C28	ND	250	227	90.8%	75 - 125%

ND - Parameter not detected at the stated detection limit.

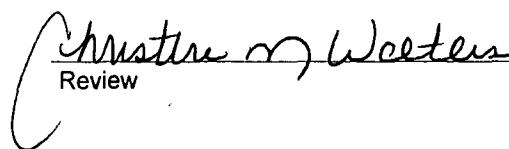
References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: QA/QC for Samples 52769 - 52777 and 52794.

Analyst



Review



Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 13G	Date Reported:	12-23-09
Laboratory Number:	52769	Date Sampled:	12-21-09
Chain of Custody:	8575	Date Received:	12-22-09
Sample Matrix:	Soil	Date Analyzed:	12-23-09
Preservative:	Cool	Date Extracted:	12-22-09
Condition:	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	93.1 %
	1,4-difluorobenzene	97.0 %
	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

Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 12H	Date Reported:	12-23-09
Laboratory Number:	52770	Date Sampled:	12-21-09
Chain of Custody:	8575	Date Received:	12-22-09
Sample Matrix:	Soil	Date Analyzed:	12-23-09
Preservative:	Cool	Date Extracted:	12-22-09
Condition:	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	

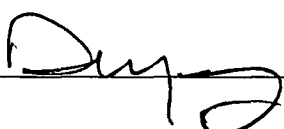
ND - Parameter not detected at the stated detection limit.

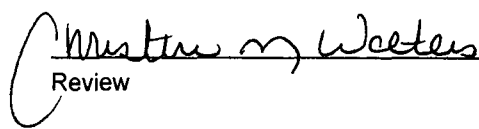
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	92.1 %
	1,4-difluorobenzene	96.0 %
	Bromochlorobenzene	97.0 %

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



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**EPA METHOD 8021
AROMATIC VOLATILE ORGANICS**

Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 11E	Date Reported:	12-23-09
Laboratory Number:	52771	Date Sampled:	12-21-09
Chain of Custody:	8575	Date Received:	12-22-09
Sample Matrix:	Soil	Date Analyzed:	12-23-09
Preservative:	Cool	Date Extracted:	12-22-09
Condition:	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	92.1 %
	1,4-difluorobenzene	96.0 %
	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



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EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 7G	Date Reported:	12-23-09
Laboratory Number:	52772	Date Sampled:	12-21-09
Chain of Custody:	8575	Date Received:	12-22-09
Sample Matrix:	Soil	Date Analyzed:	12-23-09
Preservative:	Cool	Date Extracted:	12-22-09
Condition:	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	91.1 %
	1,4-difluorobenzene	95.0 %
	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.

Comments: JFJ Landfarm

Analyst

Review

Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 8D	Date Reported:	12-23-09
Laboratory Number:	52773	Date Sampled:	12-21-09
Chain of Custody:	8575	Date Received:	12-22-09
Sample Matrix:	Soil	Date Analyzed:	212-23-09
Preservative:	Cool	Date Extracted:	12-22-09
Condition:	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	91.1 %
	1,4-difluorobenzene	95.0 %
	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.

Comments: JFJ Landfarm

Analyst

Review

Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 9D	Date Reported:	12-23-09
Laboratory Number:	52774	Date Sampled:	12-21-09
Chain of Custody:	8575	Date Received:	12-22-09
Sample Matrix:	Soil	Date Analyzed:	12-23-09
Preservative:	Cool	Date Extracted:	12-22-09
Condition:	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	93.1 %
	1,4-difluorobenzene	97.0 %
	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

Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 4E	Date Reported:	12-23-09
Laboratory Number:	52775	Date Sampled:	12-21-09
Chain of Custody:	8575	Date Received:	12-22-09
Sample Matrix:	Soil	Date Analyzed:	12-23-09
Preservative:	Cool	Date Extracted:	12-22-09
Condition:	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	91.1 %
	1,4-difluorobenzene	95.0 %
	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.

Comments: JFJ Landfarm

Analyst

Review

Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 3A	Date Reported:	12-23-09
Laboratory Number:	52776	Date Sampled:	12-21-09
Chain of Custody:	8575	Date Received:	12-22-09
Sample Matrix:	Soil	Date Analyzed:	12-23-09
Preservative:	Cool	Date Extracted:	12-22-09
Condition:	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	92.1 %
	1,4-difluorobenzene	96.0 %
	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

Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 2A	Date Reported:	12-23-09
Laboratory Number:	52777	Date Sampled:	12-21-09
Chain of Custody:	8575	Date Received:	12-22-09
Sample Matrix:	Soil	Date Analyzed:	12-23-09
Preservative:	Cool	Date Extracted:	12-22-09
Condition:	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	93.1 %
	1,4-difluorobenzene	97.0 %
	Bromochlorobenzene	98.0 %

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

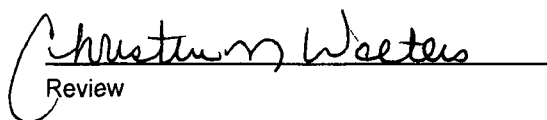
Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: JFJ Landfarm

Analyst



Review





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EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	12-23-BT QA/QC	Date Reported:	12-23-09
Laboratory Number:	52769	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	12-23-09
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF	C-Cal RF	%Diff	Blank Concn	Detect Limit
		Accept Range 0 - 15%			
Benzene	1.4745E+006	1.4775E+006	0.2%	ND	0.1
Toluene	1.3866E+006	1.3894E+006	0.2%	ND	0.1
Ethylbenzene	1.2538E+006	1.2564E+006	0.2%	ND	0.1
p,m-Xylene	3.1869E+006	3.1933E+006	0.2%	ND	0.1
o-Xylene	1.1831E+006	1.1854E+006	0.2%	ND	0.1

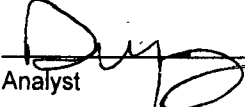
Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff	Accept Range	Detect Limit
Benzene	ND	ND	0.0%	0 - 30%	0.9
Toluene	ND	ND	0.0%	0 - 30%	1.0
Ethylbenzene	ND	ND	0.0%	0 - 30%	1.0
p,m-Xylene	ND	ND	0.0%	0 - 30%	1.2
o-Xylene	ND	ND	0.0%	0 - 30%	0.9

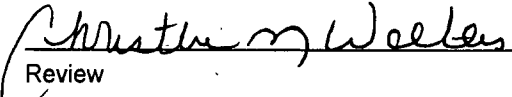
Spiked Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	50.0	49.8	99.6%	39 - 150
Toluene	ND	50.0	48.1	96.2%	46 - 148
Ethylbenzene	ND	50.0	47.2	94.4%	32 - 160
p,m-Xylene	ND	100	107	107%	46 - 148
o-Xylene	ND	50.0	51.2	102%	46 - 148

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 52769 - 52777 and 52794.


Analyst


Review

Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 13G	Date Reported:	12-29-09
Laboratory Number:	52769	Date Sampled:	12-21-09
Chain of Custody:	8575	Date Received:	12-22-09
Sample Matrix:	Soil	Date Analyzed:	12-29-09
Preservative:	Cool	Date Digested:	12-23-09
Condition:	Intact	Analysis Needed:	Total Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Arsenic	ND	0.001
Barium	14.1	0.001
Cadmium	ND	0.001
Chromium	0.404	0.001
Lead	0.426	0.001
Mercury	ND	0.001
Selenium	ND	0.001
Silver	ND	0.001

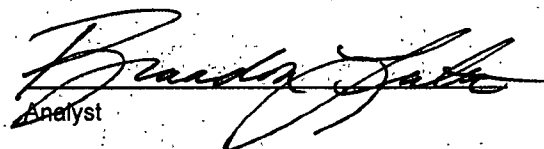
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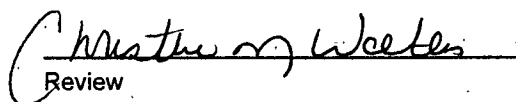
References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils.
SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emission
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

Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 12H	Date Reported:	12-29-09
Laboratory Number:	52770	Date Sampled:	12-21-09
Chain of Custody:	8575	Date Received:	12-22-09
Sample Matrix:	Soil	Date Analyzed:	12-29-09
Preservative:	Cool	Date Digested:	12-23-09
Condition:	Intact	Analysis Needed:	Total Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Arsenic	0.038	0.001
Barium	11.2	0.001
Cadmium	ND	0.001
Chromium	0.231	0.001
Lead	0.275	0.001
Mercury	ND	0.001
Selenium	ND	0.001
Silver	ND	0.001

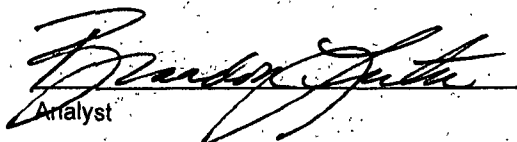
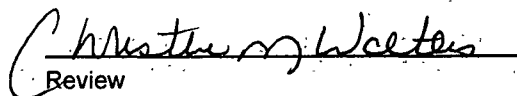
ND - Parameter not detected at the stated detection limit.

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 Emission 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

Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 11E	Date Reported:	12-29-09
Laboratory Number:	52771	Date Sampled:	12-21-09
Chain of Custody:	8575	Date Received:	12-22-09
Sample Matrix:	Soil	Date Analyzed:	12-29-09
Preservative:	Cool	Date Digested:	12-23-09
Condition:	Intact	Analysis Needed:	Total Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Arsenic	0.033	0.001
Barium	9.07	0.001
Cadmium	ND	0.001
Chromium	0.266	0.001
Lead	0.326	0.001
Mercury	ND	0.001
Selenium	ND	0.001
Silver	ND	0.001

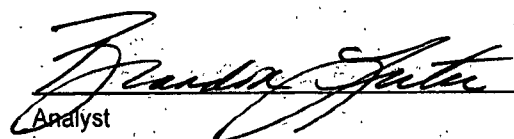
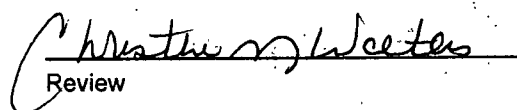
ND - Parameter not detected at the stated detection limit.

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 Emission 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



Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 7G	Date Reported:	12-29-09
Laboratory Number:	52772	Date Sampled:	12-21-09
Chain of Custody:	8575	Date Received:	12-22-09
Sample Matrix:	Soil	Date Analyzed:	12-29-09
Preservative:	Cool	Date Digested:	12-23-09
Condition:	Intact	Analysis Needed:	Total Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Arsenic	0.072	0.001
Barium	1.61	0.001
Cadmium	ND	0.001
Chromium	0.587	0.001
Lead	0.437	0.001
Mercury	ND	0.001
Selenium	ND	0.001
Silver	ND	0.001

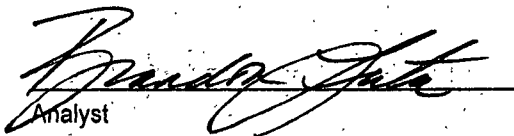
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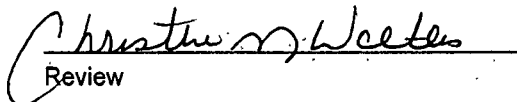
References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils.
SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emission 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

Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 8D	Date Reported:	12-29-09
Laboratory Number:	52773	Date Sampled:	12-21-09
Chain of Custody:	8575	Date Received:	12-22-09
Sample Matrix:	Soil	Date Analyzed:	12-29-09
Preservative:	Cool	Date Digested:	12-23-09
Condition:	Intact	Analysis Needed:	Total Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Arsenic	0.106	0.001
Barium	6.77	0.001
Cadmium	ND	0.001
Chromium	0.327	0.001
Lead	0.270	0.001
Mercury	ND	0.001
Selenium	ND	0.001
Silver	ND	0.001

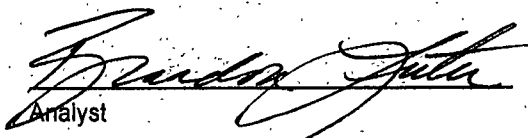
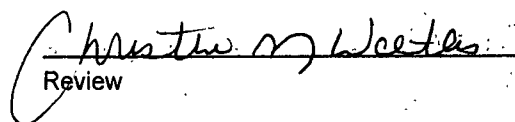
ND - Parameter not detected at the stated detection limit.

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 Emission 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

Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 9D	Date Reported:	12-29-09
Laboratory Number:	52774	Date Sampled:	12-21-09
Chain of Custody:	8575	Date Received:	12-22-09
Sample Matrix:	Soil	Date Analyzed:	12-29-09
Preservative:	Cool	Date Digested:	12-23-09
Condition:	Intact	Analysis Needed:	Total Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Arsenic	0.101	0.001
Barium	5.93	0.001
Cadmium	ND	0.001
Chromium	0.322	0.001
Lead	0.307	0.001
Mercury	ND	0.001
Selenium	ND	0.001
Silver	ND	0.001

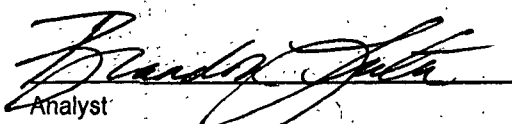
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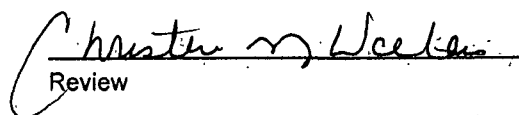
References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils.
SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emission 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

Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 4E	Date Reported:	12-29-09
Laboratory Number:	52775	Date Sampled:	12-21-09
Chain of Custody:	8575	Date Received:	12-22-09
Sample Matrix:	Soil	Date Analyzed:	12-29-09
Preservative:	Cool	Date Digested:	12-23-09
Condition:	Intact	Analysis Needed:	Total Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Arsenic	ND	0.001
Barium	0.823	0.001
Cadmium	ND	0.001
Chromium	1.98	0.001
Lead	0.429	0.001
Mercury	ND	0.001
Selenium	ND	0.001
Silver	ND	0.001

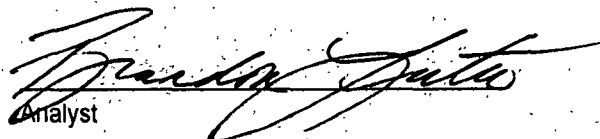
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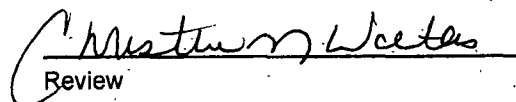
References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils:
SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emission
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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Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 3A	Date Reported:	12-29-09
Laboratory Number:	52776	Date Sampled:	12-21-09
Chain of Custody:	8575	Date Received:	12-22-09
Sample Matrix:	Soil	Date Analyzed:	12-29-09
Preservative:	Cool	Date Digested:	12-23-09
Condition:	Intact	Analysis Needed:	Total Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Arsenic	ND	0.001
Barium	ND	0.001
Cadmium	ND	0.001
Chromium	1.06	0.001
Lead	0.270	0.001
Mercury	ND	0.001
Selenium	ND	0.001
Silver	0.016	0.001

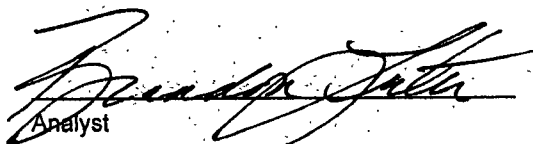
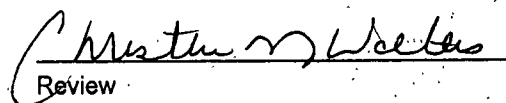
ND - Parameter not detected at the stated detection limit.

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 Emission
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

Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 2A	Date Reported:	12-29-09
Laboratory Number:	52777	Date Sampled:	12-21-09
Chain of Custody:	8575	Date Received:	12-22-09
Sample Matrix:	Soil	Date Analyzed:	12-29-09
Preservative:	Cool	Date Digested:	12-23-09
Condition:	Intact	Analysis Needed:	Total Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Arsenic	ND	0.001
Barium	3.06	0.001
Cadmium	ND	0.001
Chromium	1.30	0.001
Lead	0.361	0.001
Mercury	ND	0.001
Selenium	ND	0.001
Silver	ND	0.001

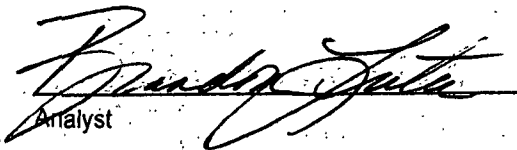
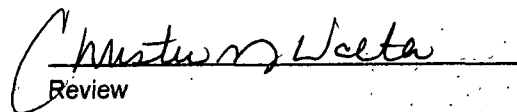
ND - Parameter not detected at the stated detection limit.

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 Emission
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



envirotech

Analytical Laboratory

TRACE METAL ANALYSIS Quality Control / Quality Assurance Report

Client:	QA/QC	Project #:	QA/QC
Sample ID:	12-29 TM QA/AC	Date Reported:	12-29-09
Laboratory Number:	52769	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	Total RCRA Metals	Date Analyzed:	12-29-09
Condition:	N/A	Date Digested:	12-23-09

Blank & Duplicate Conc. (mg/Kg)	Instrument Blank (mg/Kg)	Method Blank	Detection Limit	Sample	Duplicate	% Diff	Acceptance Range
Arsenic	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Barium	ND	ND	0.001	14.1	15.6	10.6%	0% - 30%
Cadmium	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Chromium	ND	ND	0.001	0.404	0.379	6.2%	0% - 30%
Lead	ND	ND	0.001	0.426	0.413	2.9%	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%

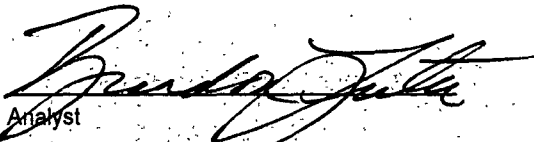
Spike Conc. (mg/Kg)	Spike Added	Sample	Spiked Sample	Percent Recovery	Acceptance Range
Arsenic	0.250	ND	0.282	113%	80% - 120%
Barium	0.500	14.1	11.90	81.5%	80% - 120%
Cadmium	0.250	ND	0.237	94.8%	80% - 120%
Chromium	0.500	0.404	0.809	89.5%	80% - 120%
Lead	0.500	0.426	0.905	97.8%	80% - 120%
Mercury	0.100	ND	0.086	86.1%	80% - 120%
Selenium	0.100	ND	0.110	110%	80% - 120%
Silver	0.100	ND	0.102	102%	80% - 120%

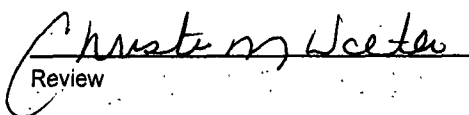
ND - Parameter not detected at the stated detection limit.

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 Emission Spectroscopy, SW-846, USEPA, December 1996.

Comments: QA/QC for Samples 52768 - 52777.


Analyst

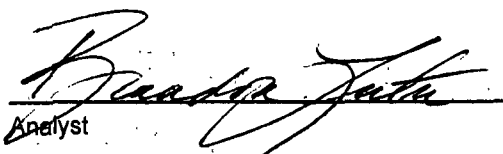

Review

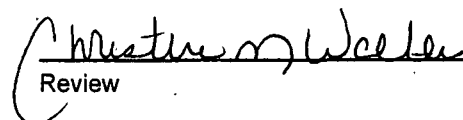
Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 13G	Date Reported:	12-28-09
Laboratory Number:	52769	Date Sampled:	12-21-09
Chain of Custody:	8575	Date Received:	12-22-09
Sample Matrix:	Soil Extract	Date Extracted:	12-22-09
Preservative:	Cool	Date Analyzed:	12-23-09
Condition:	Intact		

Parameter	Analytical Result	Units		
pH	6.75	s.u.		
Conductivity @ 25° C	85.9	umhos/cm		
Total Dissolved Solids @ 180C	47.0	mg/L		
Total Dissolved Solids (Calc)	45.6	mg/L		
SAR	0.8	ratio		
Total Alkalinity as CaCO3	40.0	mg/L		
Total Hardness as CaCO3	20.0	mg/L		
Bicarbonate as HCO3	40.0	mg/L	0.66	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	1.40	mg/L	0.02	meq/L
Nitrite Nitrogen	<0.01	mg/L	0.00	meq/L
Chloride	1.16	mg/L	0.03	meq/L
Fluoride	0.334	mg/L	0.02	meq/L
Phosphate	0.054	mg/L	0.00	meq/L
Sulfate	1.87	mg/L	0.04	meq/L
Iron	0.005	mg/L	0.00	meq/L
Calcium	8.00	mg/L	0.40	meq/L
Magnesium	<0.01	mg/L	0.00	meq/L
Potassium	0.040	mg/L	0.00	meq/L
Sodium	8.47	mg/L	0.37	meq/L
Cations			0.77	meq/L
Anions			0.77	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.


 Analyst


 Review

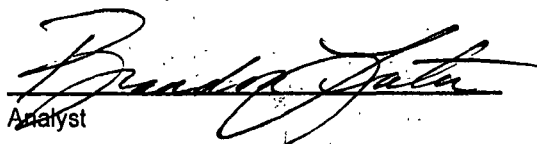
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 Sample ID: Cell 12H
 Laboratory Number: 52770
 Chain of Custody: 8575
 Sample Matrix: Soil Extract
 Preservative: Cool
 Condition: Intact

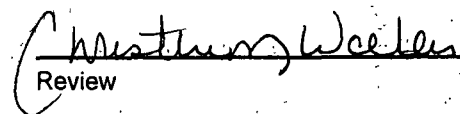
Project #: 94034-0010
 Date Reported: 12-28-09
 Date Sampled: 12-21-09
 Date Received: 12-22-09
 Date Extracted: 12-22-09
 Date Analyzed: 12-23-09

Parameter	Analytical Result	Units		
pH:	6.29	s.u.		
Conductivity @ 25° C	61.0	umhos/cm		
Total Dissolved Solids @ 180C	36.0	mg/L		
Total Dissolved Solids (Calc)	36.6	mg/L		
SAR	0.8	ratio		
Total Alkalinity as CaCO3	35.0	mg/L		
Total Hardness as CaCO3	15.0	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	0.400	mg/L	0.01	meq/L
Nitrite Nitrogen	0.003	mg/L	0.00	meq/L
Chloride	0.286	mg/L	0.01	meq/L
Fluoride	0.227	mg/L	0.01	meq/L
Phosphate	0.042	mg/L	0.00	meq/L
Sulfate	0.983	mg/L	0.02	meq/L
Iron	0.002	mg/L	0.00	meq/L
Calcium	6.00	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	7.41	mg/L	0.32	meq/L
Cations			0.62	meq/L
Anions			0.62	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.


 Analyst


 Review



Client: Blagg/JFJ
Sample ID: Cell 11E
Laboratory Number: 52771
Chain of Custody: 8575
Sample Matrix: Soil Extract
Preservative: Cool
Condition: Intact

Project #: 94034-0010
Date Reported: 12-28-09
Date Sampled: 12-21-09
Date Received: 12-22-09
Date Extracted: 12-22-09
Date Analyzed: 12-23-09

Parameter	Analytical Result	Units		
pH	7.10	s.u.		
Conductivity @ 25° C	77.8	umhos/cm		
Total Dissolved Solids @ 180C	49.0	mg/L		
Total Dissolved Solids (Calc)	47.2	mg/L		
SAR	0.4	ratio		
Total Alkalinity as CaCO3	40.0	mg/L		
Total Hardness as CaCO3	30.0	mg/L		
Bicarbonate as HCO3	40.0	mg/L	0.66	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	1.60	mg/L	0.03	meq/L
Nitrite Nitrogen	0.013	mg/L	0.00	meq/L
Chloride	0.374	mg/L	0.01	meq/L
Fluoride	0.480	mg/L	0.03	meq/L
Phosphate	0.201	mg/L	0.01	meq/L
Sulfate	3.68	mg/L	0.08	meq/L
Iron	0.057	mg/L	0.00	meq/L
Calcium	12.0	mg/L	0.60	meq/L
Magnesium	<0.01	mg/L	0.00	meq/L
Potassium	<0.01	mg/L	0.00	meq/L
Sodium	4.59	mg/L	0.20	meq/L
Cations			0.80	meq/L
Anions			0.80	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.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: JFJ Landfarm.

Analyst

Review

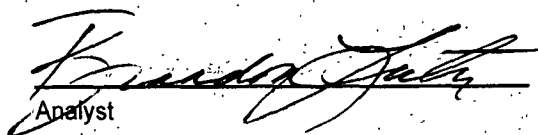
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 Sample ID: Cell 7G
 Laboratory Number: 52772
 Chain of Custody: 8575
 Sample Matrix: Soil Extract
 Preservative: Cool
 Condition: Intact

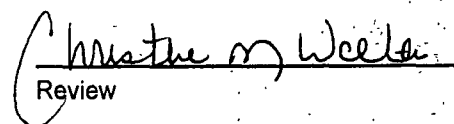
Project #: 94034-0010
 Date Reported: 12-28-09
 Date Sampled: 12-21-09
 Date Received: 12-22-09
 Date Extracted: 12-22-09
 Date Analyzed: 12-23-09

Parameter	Analytical Result	Units		
pH	6.30	s.u.		
Conductivity @ 25° C	2,540	umhos/cm		
Total Dissolved Solids @ 180C	1,390	mg/L		
Total Dissolved Solids (Calc)	1,350	mg/L		
SAR	4.9	ratio		
Total Alkalinity as CaCO ₃	50.0	mg/L		
Total Hardness as CaCO ₃	466	mg/L		
Bicarbonate as HCO ₃	50.0	mg/L	0.82	meq/L
Carbonate as CO ₃	<0.1	mg/L	0.00	meq/L
Hydroxide as OH	<0.1	mg/L	0.00	meq/L
Nitrate Nitrogen	1.40	mg/L	0.02	meq/L
Nitrite Nitrogen	0.004	mg/L	0.00	meq/L
Chloride	11.0	mg/L	0.31	meq/L
Fluoride	<0.01	mg/L	0.00	meq/L
Phosphate	<0.01	mg/L	0.00	meq/L
Sulfate	901	mg/L	18.76	meq/L
Iron	0.001	mg/L	0.00	meq/L
Calcium	128	mg/L	6.39	meq/L
Magnesium	35.6	mg/L	2.93	meq/L
Potassium	0.080	mg/L	0.00	meq/L
Sodium	243	mg/L	10.57	meq/L
Cations			19.89	meq/L
Anions			19.91	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.
 Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: JFJ Landfarm.


 Analyst


 Review

Client: Blagg/JFJ
 Sample ID: Cell 8D
 Laboratory Number: 52773
 Chain of Custody: 8575
 Sample Matrix: Soil Extract
 Preservative: Cool
 Condition: Intact

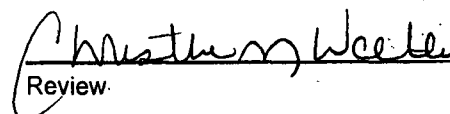
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 Date Reported: 12-28-09
 Date Sampled: 12-21-09
 Date Received: 12-22-09
 Date Extracted: 12-22-09
 Date Analyzed: 12-23-09

Parameter	Analytical Result	Units		
pH	7.95	s.u.		
Conductivity @ 25° C	101	umhos/cm		
Total Dissolved Solids @ 180C	51.0	mg/L		
Total Dissolved Solids (Calc)	49.5	mg/L		
SAR	0.8	ratio		
Total Alkalinity as CaCO ₃	48.0	mg/L		
Total Hardness as CaCO ₃	22.0	mg/L		
Bicarbonate as HCO ₃	48.0	mg/L	0.79	meq/L
Carbonate as CO ₃	<0.1	mg/L	0.00	meq/L
Hydroxide as OH	<0.1	mg/L	0.00	meq/L
Nitrate Nitrogen	0.600	mg/L	0.01	meq/L
Nitrite Nitrogen	0.007	mg/L	0.00	meq/L
Chloride	0.184	mg/L	0.01	meq/L
Fluoride	0.205	mg/L	0.01	meq/L
Phosphate	0.036	mg/L	0.00	meq/L
Sulfate	1.31	mg/L	0.03	meq/L
Iron	0.063	mg/L	0.00	meq/L
Calcium	8.80	mg/L	0.44	meq/L
Magnesium	<0.01	mg/L	0.00	meq/L
Potassium	0.150	mg/L	0.00	meq/L
Sodium	9.10	mg/L	0.40	meq/L
Cations			0.84	meq/L
Anions			0.84	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



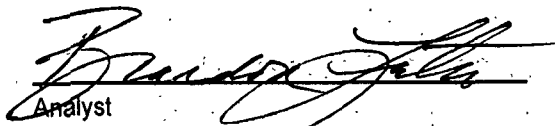
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Sample ID: Cell 9D
Laboratory Number: 52774
Chain of Custody: 8575
Sample Matrix: Soil Extract
Preservative: Cool
Condition: Intact

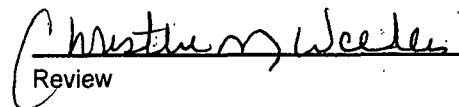
Project #: 94034-0010
Date Reported: 12-28-09
Date Sampled: 12-21-09
Date Received: 12-22-09
Date Extracted: 12-22-09
Date Analyzed: 12-23-09

Parameter	Analytical Result	Units		
pH	7.98	s.u.		
Conductivity @ 25° C	104	umhos/cm		
Total Dissolved Solids @ 180C	50.0	mg/L		
Total Dissolved Solids (Calc)	51.5	mg/L		
SAR	0.4	ratio		
Total Alkalinity as CaCO3	48.0	mg/L		
Total Hardness as CaCO3	32.0	mg/L		
Bicarbonate as HCO3	48.0	mg/L	0.79	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	0.800	mg/L	0.01	meq/L
Nitrite Nitrogen	<0.01	mg/L	0.00	meq/L
Chloride	0.328	mg/L	0.01	meq/L
Fluoride	0.697	mg/L	0.04	meq/L
Phosphate	<0.01	mg/L	0.00	meq/L
Sulfate	1.99	mg/L	0.04	meq/L
Iron	0.025	mg/L	0.00	meq/L
Calcium	12.8	mg/L	0.64	meq/L
Magnesium	<0.01	mg/L	0.00	meq/L
Potassium	0.070	mg/L	0.00	meq/L
Sodium	5.64	mg/L	0.25	meq/L
Cations			0.89	meq/L
Anions			0.89	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

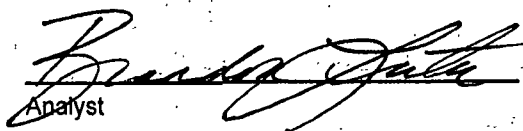

Review

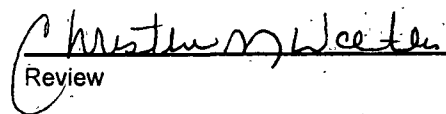
Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 4E	Date Reported:	12-28-09
Laboratory Number:	52775	Date Sampled:	12-21-09
Chain of Custody:	8575	Date Received:	12-22-09
Sample Matrix:	Soil Extract	Date Extracted:	12-22-09
Preservative:	Cool	Date Analyzed:	12-23-09
Condition:	Intact		

Parameter	Analytical Result	Units		
pH	7.04	s.u.		
Conductivity @ 25° C	88.2	umhos/cm		
Total Dissolved Solids @ 180C	44.0	mg/L		
Total Dissolved Solids (Calc)	41.8	mg/L		
SAR	1.2	ratio		
Total Alkalinity as CaCO3	38.0	mg/L		
Total Hardness as CaCO3	14.0	mg/L		
Bicarbonate as HCO3	38.0	mg/L	0.62	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	0.900	mg/L	0.01	meq/L
Nitrite Nitrogen	0.006	mg/L	0.00	meq/L
Chloride	0.110	mg/L	0.00	meq/L
Fluoride	1.23	mg/L	0.06	meq/L
Phosphate	0.009	mg/L	0.00	meq/L
Sulfate	0.712	mg/L	0.01	meq/L
Iron	0.058	mg/L	0.00	meq/L
Calcium	5.60	mg/L	0.28	meq/L
Magnesium	<0.01	mg/L	0.00	meq/L
Potassium	0.210	mg/L	0.01	meq/L
Sodium	9.96	mg/L	0.43	meq/L
Cations			0.72	meq/L
Anions			0.72	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

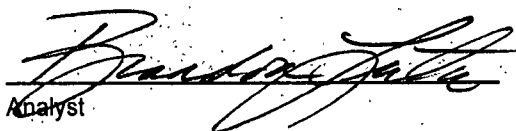
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 Sample ID: Cell 3A
 Laboratory Number: 52776
 Chain of Custody: 8575
 Sample Matrix: Soil Extract
 Preservative: Cool
 Condition: Intact

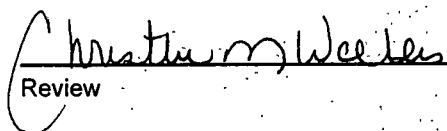
Project #: 94034-0010
 Date Reported: 12-28-09
 Date Sampled: 12-21-09
 Date Received: 12-22-09
 Date Extracted: 12-22-09
 Date Analyzed: 12-23-09

Parameter	Analytical Result	Units		
pH	7.38	s.u.		
Conductivity @ 25° C	1,100	umhos/cm		
Total Dissolved Solids @ 180C	600	mg/L		
Total Dissolved Solids (Calc)	612	mg/L		
SAR	1.1	ratio		
Total Alkalinity as CaCO ₃	40.0	mg/L		
Total Hardness as CaCO ₃	352	mg/L		
Bicarbonate as HCO ₃	40.0	mg/L	0.66	meq/L
Carbonate as CO ₃	<0.1	mg/L	0.00	meq/L
Hydroxide as OH	<0.1	mg/L	0.00	meq/L
Nitrate Nitrogen	0.500	mg/L	0.01	meq/L
Nitrite Nitrogen	0.027	mg/L	0.00	meq/L
Chloride	0.106	mg/L	0.00	meq/L
Fluoride	0.521	mg/L	0.03	meq/L
Phosphate	<0.01	mg/L	0.00	meq/L
Sulfate	400	mg/L	8.33	meq/L
Iron	0.009	mg/L	0.00	meq/L
Calcium	141	mg/L	7.04	meq/L
Magnesium	<0.01	mg/L	0.00	meq/L
Potassium	0.090	mg/L	0.00	meq/L
Sodium	45.6	mg/L	1.98	meq/L
Cations			9.02	meq/L
Anions			9.02	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.


 Analyst


 Review

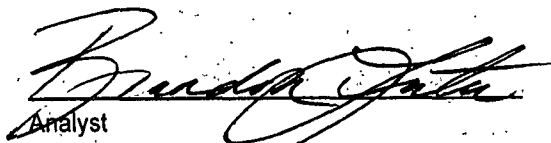
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 Sample ID: Cell 2A
 Laboratory Number: 52777
 Chain of Custody: 8575
 Sample Matrix: Soil Extract
 Preservative: Cool
 Condition: Intact

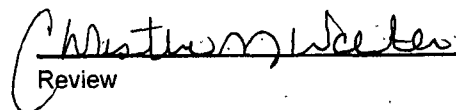
Project #: 94034-0010
 Date Reported: 12-28-09
 Date Sampled: 12-21-09
 Date Received: 12-22-09
 Date Extracted: 12-22-09
 Date Analyzed: 12-23-09

Parameter	Analytical Result	Units		
pH	6.62	s.u.		
Conductivity @ 25° C	78.7	umhos/cm		
Total Dissolved Solids @ 180C	42.0	mg/L		
Total Dissolved Solids (Calc)	45.6	mg/L		
SAR	1.0	ratio		
Total Alkalinity as CaCO ₃	42.0	mg/L		
Total Hardness as CaCO ₃	17.0	mg/L		
Bicarbonate as HCO ₃	42.0	mg/L	0.69	meq/L
Carbonate as CO ₃	<0.1	mg/L	0.00	meq/L
Hydroxide as OH	<0.1	mg/L	0.00	meq/L
Nitrate Nitrogen	2.40	mg/L	0.04	meq/L
Nitrite Nitrogen	<0.01	mg/L	0.00	meq/L
Chloride	0.104	mg/L	0.00	meq/L
Fluoride	0.206	mg/L	0.01	meq/L
Phosphate	0.104	mg/L	0.00	meq/L
Sulfate	0.855	mg/L	0.02	meq/L
Iron	0.146	mg/L	0.01	meq/L
Calcium	6.80	mg/L	0.34	meq/L
Magnesium	<0.01	mg/L	0.00	meq/L
Potassium	<0.01	mg/L	0.00	meq/L
Sodium	9.60	mg/L	0.42	meq/L
Cations			0.76	meq/L
Anions			0.76	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

BLAGG ENGINEERING, INC.

P.O. Box 87, Bloomfield, New Mexico 87413

Phone: (505)632-1199 Fax: (505)632-3903

RECEIVED

2009 AUG 28 AM 10 51

August 27, 2009

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:

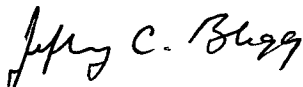
On behalf of JFJ Landfarm L.L.C., Blagg Engineering, Inc. (BEI) is submitting quarterly treatment zone monitoring test results for the JFJ Waste Management Facility pursuant to Permit NM-01-0010B. This report is for sampling conducted between July 2, 2009 and July 24, 2009.

Sampling protocol included collection of native soils below the treatment zone in each cell using a trackhoe excavator to penetrate the surface. 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 and chloride by U.S. EPA Method 300.0. Samples were collected from active cell units 2c, 3d, 4f, 7c, 8c, 9e, 11h, 12d and 13a (Figure 1). As indicated in the last sampling report (April 30, 2009) sample points 3d, 12d and 13a were re-sampled at the exact locations due to the prior finding of total petroleum hydrocarbons in excess of permit limits (100 mg/Kg) when sampled at shallow depths between 6-inches and 12-inches (due to hitting dense sandstone). In this current round of sampling, the trackhoe was directed to scrape the sandstone until a depth of 3 feet had been obtained. The surface of the sandstone was then sampled for obtaining laboratory specimens. Site photo's of these sample points are included.

At all test sites this round of quarterly sampling found all parameters to be within permit limits. The next quarterly sampling event is to include testing for TPH, BTEX and chloride, as well as RCRA metals and cation/anion analysis.

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.

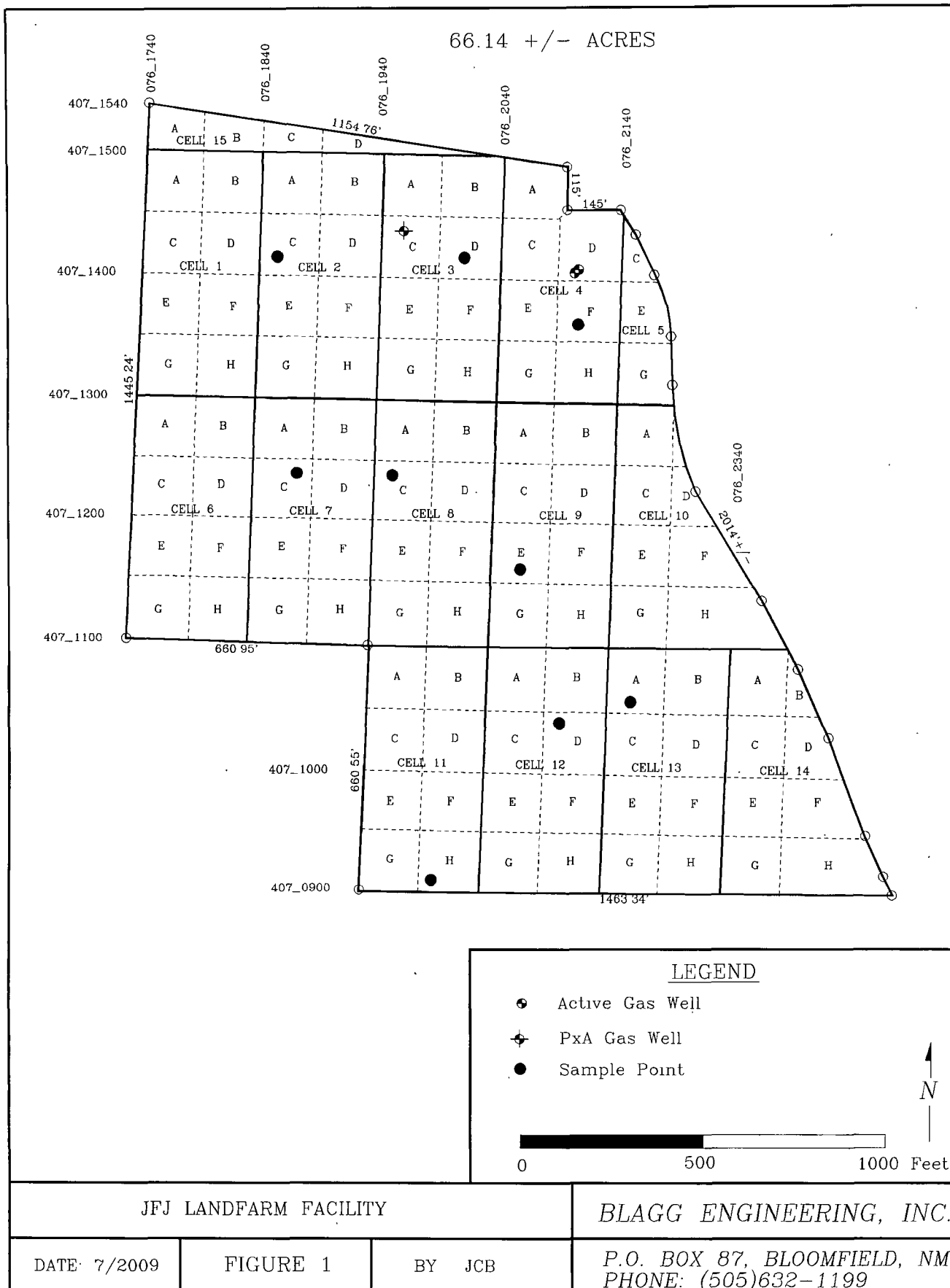
Respectfully submitted:
Blagg Engineering, Inc.



Jeffrey C. Blagg, P.E.
President

Attachments: Site Diagram
Site photo's (sample points 3d, 12d and 13a)
Analytical Test Reports

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



Cell 3d - Sample Location





Cell 12d - Sample Location

Cell 13a - Sample Location



CHAIN OF CUSTODY RECORD

7393

Client: BLAGG			Project Name / Location: JFJ LANDFARM				ANALYSIS / PARAMETERS																																													
Client Address:			Sampler Name: J. BLAGG				<table border="1"> <tr> <th>TPH (Method 8015)</th> <th>BTEX (Method 8021)</th> <th>VOC (Method 8260)</th> <th>RCRA 8 Metals</th> <th>Cation / Anion</th> <th>RCI</th> <th>TCLP with H/P</th> <th>PAH</th> <th>TPH (418.1)</th> <th>CHLORIDE</th> <th></th> <th></th> <th></th> <th></th> <th>Sample Cool</th> <th>Sample Intact</th> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>														TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	PAH	TPH (418.1)	CHLORIDE					Sample Cool	Sample Intact																
TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P															PAH	TPH (418.1)	CHLORIDE					Sample Cool	Sample Intact																							
Client Phone No.:			Client No.: 94034-0010																																																	
Sample No./ Identification	Sample Date	Sample Time	Lab No.	Sample Matrix	No./Volume of Containers	Preservative HgCl ₂ HCl			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	PAH	TPH (418.1)	CHLORIDE					Sample Cool	Sample Intact																												
CELL 3D @ 3'	7/2/09	1415	50784	Soil Solid	Sludge Aqueous	1-4oz				X	X								X					✓	✓																											
CELL 12D @ 3'	"	1425	50785	Soil Solid	Sludge Aqueous	"				X	X								X					✓	✓																											
CELL 13A @ 3'	"	1440	50786	Soil Solid	Sludge Aqueous	"				X	X								X					✓	✓																											
				Soil Solid	Sludge Aqueous																																															
				Soil Solid	Sludge Aqueous																																															
				Soil Solid	Sludge Aqueous																																															
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				Soil Solid	Sludge Aqueous																																															
Relinquished by: (Signature) <i>Jeff Blagg</i>				Date 7/2/09	Time 1500	Received by: (Signature) <i>Christy M. Webb</i>				Date 7/2/09	Time 1500																																									
Relinquished by: (Signature)						Received by: (Signature)																																														
Relinquished by: (Signature)						Received by: (Signature)																																														



envirotech
Analytical Laboratory

5796 US Highway 64 • Farmington, NM 87401 • 505-632-0615 • lab@envirotech-inc.com



envirotech
Analytical Laboratory

**EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons**

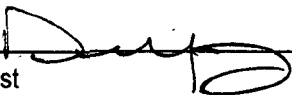
Client:	Blagg	Project #:	94034-0010
Sample ID:	Cell 3D @ 3'	Date Reported:	07-09-09
Laboratory Number:	50784	Date Sampled:	07-02-09
Chain of Custody No:	7393	Date Received:	07-02-09
Sample Matrix:	Soil	Date Extracted:	07-07-09
Preservative:	Cool	Date Analyzed:	07-08-09
Condition:	Intact	Analysis Requested:	8015 TPH

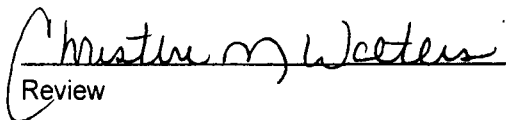
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

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



envirotech
Analytical Laboratory

**EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons**

Client:	Blagg	Project #:	94034-0010
Sample ID:	Cell 12D @ 3'	Date Reported:	07-09-09
Laboratory Number:	50785	Date Sampled:	07-02-09
Chain of Custody No:	7393	Date Received:	07-02-09
Sample Matrix:	Soil	Date Extracted:	07-07-09
Preservative:	Cool	Date Analyzed:	07-08-09
Condition:	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

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

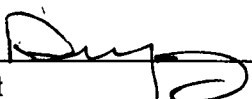
Client:	Blagg	Project #:	94034-0010
Sample ID:	Cell 13A @ 3'	Date Reported:	07-09-09
Laboratory Number:	50786	Date Sampled:	07-02-09
Chain of Custody No:	7393	Date Received:	07-02-09
Sample Matrix:	Soil	Date Extracted:	07-07-09
Preservative:	Cool	Date Analyzed:	07-08-09
Condition:	Intact	Analysis Requested:	8015 TPH

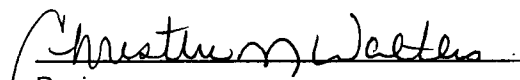
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

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

EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	07-08-09 QA/QC	Date Reported:	07-09-09
Laboratory Number:	50784	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	07-08-09
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	9.2786E+002	9.2823E+002	0.04%	0 - 15%
Diesel Range C10 - C28	05-07-07	9.4016E+002	9.4054E+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

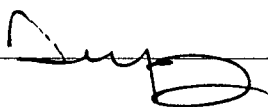
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept Range
Gasoline Range C5 - C10	ND	ND	0.0%	0 - 30%
Diesel Range C10 - C28	ND	ND	0.0%	0 - 30%

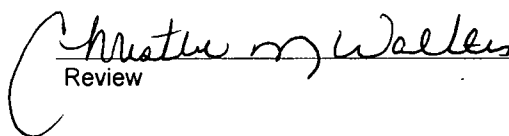
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept Range
Gasoline Range C5 - C10	ND	250	252	101%	75 - 125%
Diesel Range C10 - C28	ND	250	247	98.8%	75 - 125%

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 50784 - 50788, 50790, 50793, and 50796 - 50797.

Analyst 


 Review



Client:	Blagg	Project #:	94034-0010
Sample ID:	Cell 3D @ 3'	Date Reported:	07-09-09
Laboratory Number:	50784	Date Sampled:	07-02-09
Chain of Custody:	7393	Date Received:	07-02-09
Sample Matrix:	Soil	Date Analyzed:	07-08-09
Preservative:	Cool	Date Extracted:	07-07-09
Condition:	Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	5.6	0.9
Toluene	2.5	1.0
Ethylbenzene	2.5	1.0
p,m-Xylene	3.6	1.2
o-Xylene	3.2	0.9
Total BTEX	17.4	

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.

Comments: JFJ Landfarm

Analyst

Review



Client:	Blagg	Project #:	94034-0010
Sample ID:	Cell 12D @ 3'	Date Reported:	07-09-09
Laboratory Number:	50785	Date Sampled:	07-02-09
Chain of Custody:	7393	Date Received:	07-02-09
Sample Matrix:	Soil	Date Analyzed:	07-08-09
Preservative:	Cool	Date Extracted:	07-07-09
Condition:	Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	8.2	0.9
Toluene	8.8	1.0
Ethylbenzene	8.4	1.0
p,m-Xylene	15.1	1.2
o-Xylene	11.0	0.9
Total BTEX	51.5	

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

Analyst

Review

Client:	Blagg	Project #:	94034-0010
Sample ID:	Cell 13A @ 3'	Date Reported:	07-09-09
Laboratory Number:	50786	Date Sampled:	07-02-09
Chain of Custody:	7393	Date Received:	07-02-09
Sample Matrix:	Soil	Date Analyzed:	07-08-09
Preservative:	Cool	Date Extracted:	07-07-09
Condition:	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.

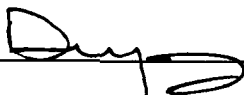
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	97.0 %
	1,4-difluorobenzene	97.0 %
	Bromochlorobenzene	97.0 %

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

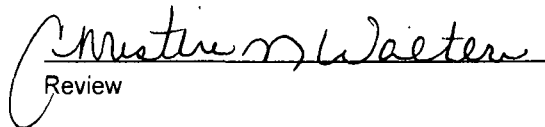
Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: JFJ Landfarm

Analyst



Review



Client:	N/A	Project #:	N/A
Sample ID:	07-08-BT QA/QC	Date Reported:	07-09-09
Laboratory Number:	50784	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	07-08-09
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF	O-Cal RF	%Diff	Blank Conc	Detect Limit
		Accept Range 0 - 15%			
Benzene	5.8009E+006	5.8125E+006	0.2%	ND	0.1
Toluene	5.3266E+006	5.3373E+006	0.2%	ND	0.1
Ethylbenzene	4.6486E+006	4.6579E+006	0.2%	ND	0.1
p,m-Xylene	1.2095E+007	1.2119E+007	0.2%	ND	0.1
o-Xylene	4.5043E+006	4.5133E+006	0.2%	ND	0.1

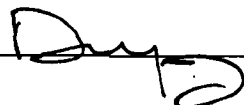
Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff	Accept Range	Detect Limit
Benzene	5.6	5.8	3.6%	0 - 30%	0.9
Toluene	2.5	2.4	4.0%	0 - 30%	1.0
Ethylbenzene	2.5	2.9	16.0%	0 - 30%	1.0
p,m-Xylene	3.6	3.4	5.6%	0 - 30%	1.2
o-Xylene	3.2	3.1	3.1%	0 - 30%	0.9

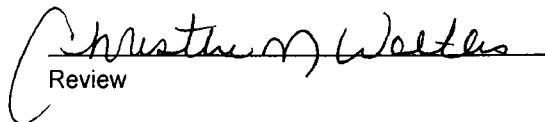
Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	5.6	50.0	55.1	99.1%	39 - 150
Toluene	2.5	50.0	49.2	93.7%	46 - 148
Ethylbenzene	2.5	50.0	50.5	96.2%	32 - 160
p,m-Xylene	3.6	100	107	103%	46 - 148
o-Xylene	3.2	50.0	50.5	94.9%	46 - 148

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 50784 - 50790, 50793, and 50796 - 50797.

Analyst 

Review 



Client:	Blagg	Project #:	94034-0010
Sample ID:	Cell 3D @ 3'	Date Reported:	07-09-09
Lab ID#:	50784	Date Sampled:	07-02-09
Sample Matrix:	Soil	Date Received:	07-02-09
Preservative:	Cool	Date Analyzed:	07-07-09
Condition:	Intact	Chain of Custody:	7393

Parameter

Concentration (mg/Kg)

Total Chloride

50

Reference: U.S.E.P.A., 4500B, "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



Client:	Blagg	Project #:	94034-0010
Sample ID:	Cell 12D @ 3'	Date Reported:	07-09-09
Lab ID#:	50785	Date Sampled:	07-02-09
Sample Matrix:	Soil	Date Received:	07-02-09
Preservative:	Cool	Date Analyzed:	07-07-09
Condition:	Intact	Chain of Custody:	7393

Parameter	Concentration (mg/Kg)
-----------	-----------------------

Total Chloride

20

Reference: U.S.E.P.A., 4500B, "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



Client:	Blagg	Project #:	94034-0010
Sample ID:	Cell 13A @ 3'	Date Reported:	07-09-09
Lab ID#:	50786	Date Sampled:	07-02-09
Sample Matrix:	Soil	Date Received:	07-02-09
Preservative:	Cool	Date Analyzed:	07-07-09
Condition:	Intact	Chain of Custody:	7393

Parameter

Concentration (mg/Kg)

Total Chloride

25

Reference: U.S.E.P.A., 4500B, "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

CHAIN OF CUSTODY RECORD

7507

Client: BLAGG / IFJ			Project Name / Location: IFJ LANDFARM			ANALYSIS / PARAMETERS																																													
Client Address:			Sampler Name: J. BLAGG			<table border="1"> <tr> <th>TPH (Method 8015)</th> <th>BTEX (Method 8021)</th> <th>VOC (Method 8260)</th> <th>PCRA 8 Metals</th> <th>Cation / Anion</th> <th>RCI</th> <th>TCLP with H/P</th> <th>PAH</th> <th>TPH (418.1)</th> <th>CHLORIDE</th> <th></th> <th></th> <th></th> <th></th> <th>Sample Cool</th> <th>Sample Intact</th> </tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>														TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	PCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	PAH	TPH (418.1)	CHLORIDE					Sample Cool	Sample Intact																
TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	PCRA 8 Metals	Cation / Anion	RCI															TCLP with H/P	PAH	TPH (418.1)	CHLORIDE					Sample Cool	Sample Intact																						
Client Phone No.:			Client No.: 94034-0010																																																
Sample No./ Identification	Sample Date	Sample Time	Lab No.	Sample Matrix	No./Volume of Containers	Preservative																																													
						HgCl ₂	HCl																																												
CELL 2C @ 3'	7/24/09	0835	50979	Soil Solid	1-403				X	X							X			✓	✓																														
CELL 4F @ 3'	"	0805	50980	Soil Solid	"				X	X							X			✓	✓																														
CELL 7C @ 3'	"	0940	50981	Soil Solid	"				X	X							X			✓	✓																														
CELL 8C @ 3'	"	1015	50982	Soil Solid	"				X	X							X			✓	✓																														
CELL 9E @ 3'	"	1035	50983	Soil Solid	"				X	X							X			✓	✓																														
CELL 11H @ 3'	"	1100	50984	Soil Solid	"				X	X							X			✓	✓																														
				Soil Solid	Sludge Aqueous																																														
				Soil Solid	Sludge Aqueous																																														
				Soil Solid	Sludge Aqueous																																														
				Soil Solid	Sludge Aqueous																																														
Relinquished by: (Signature)			Date	Time	Received by: (Signature)			Date	Time																																										
<i>Jeff Blagg</i>			7/27/09	1203	<i>Kendall Argue</i>			7/27/09	1203																																										
Relinquished by: (Signature)					Received by: (Signature)																																														
Relinquished by: (Signature)					Received by: (Signature)																																														



envirotech
Analytical Laboratory

**EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons**

Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 2C @ 3'	Date Reported:	07-30-09
Laboratory Number:	50979	Date Sampled:	07-24-09
Chain of Custody No:	7507	Date Received:	07-27-09
Sample Matrix:	Soil	Date Extracted:	07-28-09
Preservative	Cool	Date Analyzed:	07-29-09
Condition:	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

**EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons**

Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 4F @ 3'	Date Reported:	07-30-09
Laboratory Number:	50980	Date Sampled:	07-24-09
Chain of Custody No:	7507	Date Received:	07-27-09
Sample Matrix:	Soil	Date Extracted:	07-28-09
Preservative:	Cool	Date Analyzed:	07-29-09
Condition:	Intact	Analysis Requested:	8015 TPH

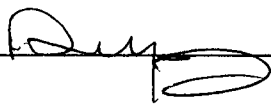
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

ND - Parameter not detected at the stated detection limit.

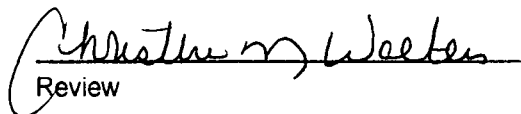
References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **JFJ Landfarm**

Analyst



Review





**EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons**

Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 7C @ 3'	Date Reported:	07-30-09
Laboratory Number:	50981	Date Sampled:	07-24-09
Chain of Custody No:	7507	Date Received:	07-27-09
Sample Matrix:	Soil	Date Extracted:	07-28-09
Preservative:	Cool	Date Analyzed:	07-29-09
Condition:	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



**EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons**

Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 8C @ 3'	Date Reported:	07-30-09
Laboratory Number:	50982	Date Sampled:	07-24-09
Chain of Custody No:	7507	Date Received:	07-27-09
Sample Matrix:	Soil	Date Extracted:	07-28-09
Preservative:	Cool	Date Analyzed:	07-29-09
Condition:	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

**EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons**

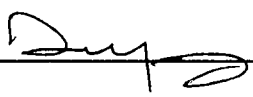
Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 9E @ 3'	Date Reported:	07-30-09
Laboratory Number:	50983	Date Sampled:	07-24-09
Chain of Custody No:	7507	Date Received:	07-27-09
Sample Matrix:	Soil	Date Extracted:	07-28-09
Preservative:	Cool	Date Analyzed:	07-29-09
Condition:	Intact	Analysis Requested:	8015 TPH

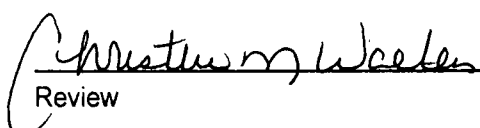
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

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

**EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons**

Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 11H @ 3'	Date Reported:	07-30-09
Laboratory Number:	50984	Date Sampled:	07-24-09
Chain of Custody No:	7507	Date Received:	07-27-09
Sample Matrix:	Soil	Date Extracted:	07-28-09
Preservative:	Cool	Date Analyzed:	07-29-09
Condition:	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



EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	07-29-09 QA/QC	Date Reported:	07-30-09
Laboratory Number:	50979	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	07-29-09
Condition:	N/A	Analysis Requested:	TPH

	Cal Date	Cal RF	C Cal RF	% Difference	Accept Range
Gasoline Range C5 - C10	05-07-07	1.0669E+003	1.0673E+003	0.04%	0 - 15%
Diesel Range C10 - C28	05-07-07	1.0902E+003	1.0906E+003	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	253	101%	75 - 125%
Diesel Range C10 - C28	ND	250	240	96.0%	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 Sample 50979 - 50984 and 50986 - 50989.

Analyst

Review

Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 2C @ 3'	Date Reported:	07-30-09
Laboratory Number:	50979	Date Sampled:	07-24-09
Chain of Custody:	7507	Date Received:	07-27-09
Sample Matrix:	Soil	Date Analyzed:	07-29-09
Preservative:	Cool	Date Extracted:	07-28-09
Condition:	Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	0.9
Toluene	1.5	1.0
Ethylbenzene	1.5	1.0
p,m-Xylene	11.1	1.2
o-Xylene	2.5	0.9
Total BTEX	16.6	

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

Analyst

Review

Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 4F @ 3'	Date Reported:	07-30-09
Laboratory Number:	50980	Date Sampled:	07-24-09
Chain of Custody:	7507	Date Received:	07-27-09
Sample Matrix:	Soil	Date Analyzed:	07-29-09
Preservative:	Cool	Date Extracted:	07-28-09
Condition:	Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	1.0	0.9
Toluene	5.1	1.0
Ethylbenzene	3.4	1.0
p,m-Xylene	5.7	1.2
o-Xylene	4.2	0.9
Total BTEX	19.4	

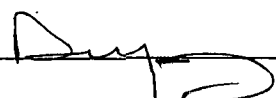
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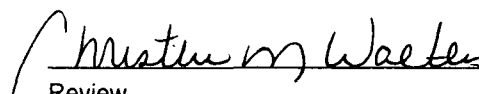
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	99.0 %
	1,4-difluorobenzene	99.0 %
	Bromochlorobenzene	99.0 %

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


Analyst


Review

Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 7C @ 3'	Date Reported:	07-30-09
Laboratory Number:	50981	Date Sampled:	07-24-09
Chain of Custody:	7507	Date Received:	07-27-09
Sample Matrix:	Soil	Date Analyzed:	07-29-09
Preservative:	Cool	Date Extracted:	07-28-09
Condition:	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.

Comments: JFJ Landfarm

Analyst

Review

Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 8C @ 3'	Date Reported:	07-30-09
Laboratory Number:	50982	Date Sampled:	07-24-09
Chain of Custody:	7507	Date Received:	07-27-09
Sample Matrix:	Soil	Date Analyzed:	07-29-09
Preservative:	Cool	Date Extracted:	07-28-09
Condition:	Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	0.9
Toluene	4.8	1.0
Ethylbenzene	2.2	1.0
p,m-Xylene	3.0	1.2
o-Xylene	3.3	0.9
Total BTEX	13.3	

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

Analyst

Review

Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 9E @ 3'	Date Reported:	07-30-09
Laboratory Number:	50983	Date Sampled:	07-24-09
Chain of Custody:	7507	Date Received:	07-27-09
Sample Matrix:	Soil	Date Analyzed:	07-29-09
Preservative:	Cool	Date Extracted:	07-28-09
Condition:	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.

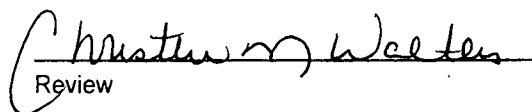
Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: JFJ Landfarm

Analyst



Review



Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 11H @ 3'	Date Reported:	07-30-09
Laboratory Number:	50984	Date Sampled:	07-24-09
Chain of Custody:	7507	Date Received:	07-27-09
Sample Matrix:	Soil	Date Analyzed:	07-29-09
Preservative:	Cool	Date Extracted:	07-28-09
Condition:	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

Analyst

Review

Client:	N/A	Project #:	N/A
Sample ID:	07-29-BT QA/QC	Date Reported:	07-30-09
Laboratory Number:	50979	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	07-29-09
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF	C-Cal RF	%Diff	Blank Conc	Detect Limit
		Accept Range 0 - 15%			
Benzene	3.9860E+006	3.9940E+006	0.2%	ND	0.1
Toluene	3.6952E+006	3.7027E+006	0.2%	ND	0.1
Ethylbenzene	3.2791E+006	3.2856E+006	0.2%	ND	0.1
p,m-Xylene	8.4496E+006	8.4665E+006	0.2%	ND	0.1
o-Xylene	3.1069E+006	3.1131E+006	0.2%	ND	0.1

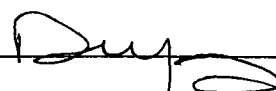
Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff	Accept Range	Detect Limit
Benzene	ND	ND	0.0%	0 - 30%	0.9
Toluene	1.5	1.7	13.3%	0 - 30%	1.0
Ethylbenzene	1.5	1.7	13.3%	0 - 30%	1.0
p,m-Xylene	11.1	11.5	3.6%	0 - 30%	1.2
o-Xylene	2.5	2.7	8.0%	0 - 30%	0.9

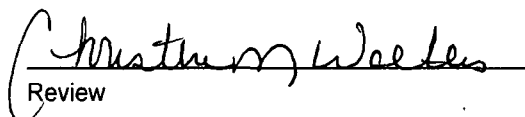
Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	50.0	48.5	97.0%	39 - 150
Toluene	1.5	50.0	50.0	97.1%	46 - 148
Ethylbenzene	1.5	50.0	50.0	97.1%	32 - 160
p,m-Xylene	11.1	100	110	98.6%	46 - 148
o-Xylene	2.5	50.0	51.0	97.1%	46 - 148

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 50979 - 50984 and 50986 - 50989.

Analyst 

Review 



Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID	Cell 2C @ 3'	Date Reported	07-30-09
Lab ID#:	50979	Date Sampled:	07-24-09
Sample Matrix:	Soil	Date Received:	07-27-09
Preservative:	Cool	Date Analyzed:	07-28-09
Condition:	Intact	Chain of Custody:	7507

Parameter

Concentration (mg/Kg)

Total Chloride

5

Reference: U.S.E.P.A., 4500B, "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



Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 4F @ 3'	Date Reported:	07-30-09
Lab ID#:	50980	Date Sampled:	07-24-09
Sample Matrix:	Soil	Date Received:	07-27-09
Preservative:	Cool	Date Analyzed:	07-28-09
Condition:	Intact	Chain of Custody:	7507

Parameter

Concentration (mg/Kg)

Total Chloride

80

Reference: U.S.E.P.A., 4500B, "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



Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 7C @ 3'	Date Reported:	07-30-09
Lab ID#:	50981	Date Sampled:	07-24-09
Sample Matrix:	Soil	Date Received:	07-27-09
Preservative:	Cool	Date Analyzed:	07-28-09
Condition:	Intact	Chain of Custody:	7507

Parameter

Concentration (mg/Kg)

Total Chloride

15

Reference: U.S.E.P.A., 4500B, "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



Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 8C @ 3'	Date Reported:	07-30-09
Lab ID#:	50982	Date Sampled:	07-24-09
Sample Matrix:	Soil	Date Received:	07-27-09
Preservative:	Cool	Date Analyzed:	07-28-09
Condition:	Intact	Chain of Custody:	7507

Parameter

Concentration (mg/Kg)

Total Chloride

10

Reference: U.S.E.P.A., 4500B, "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



Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 9E @ 3'	Date Reported:	07-30-09
Lab ID#:	50983	Date Sampled:	07-24-09
Sample Matrix:	Soil	Date Received:	07-27-09
Preservative:	Cool	Date Analyzed:	07-28-09
Condition:	Intact	Chain of Custody:	7507

Parameter

Concentration (mg/Kg)

Total Chloride

5

Reference:

U.S.E.P.A., 4500B, "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



Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 11H @ 3'	Date Reported:	07-30-09
Lab ID#:	50984	Date Sampled:	07-24-09
Sample Matrix:	Soil	Date Received:	07-27-09
Preservative:	Cool	Date Analyzed:	07-28-09
Condition:	Intact	Chain of Custody:	7507

Parameter

Concentration (mg/Kg)

Total Chloride

4

Reference: U.S.E.P.A., 4500B, "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

BLAGG ENGINEERING, INC.

P.O. Box 87, Bloomfield, New Mexico 87413

Phone: (505)632-1199 Fax: (505)632-3903

RECEIVED

April 30, 2009

2009 MAY 1 AM 11 24

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:

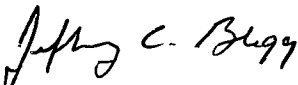
On behalf of JFJ Landfarm L.L.C., Blagg Engineering, Inc. (BEI) is submitting quarterly treatment zone monitoring test results for the JFJ Waste Management Facility pursuant to Permit NM-01-0010B. This report is for sampling conducted on March 30, 2009.

Sampling protocol included collection of native soils below the treatment zone in each cell using a trackhoe excavator to penetrate the surface. 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 and chloride by U.S. EPA Method 300.0. Samples were collected from active cell units 2g, 3d, 4h, 7c, 8f, 9h, 11c, 12d and 13a (Figure 1). Test locations were randomly selected in each cell unit at areas with active remediation.

At most of the test sites (2g, 3d, 7c, 8f, 9h, 11c, 12d, and 13a) the treatment zone was sitting on a dense sandstone that is prevalent at the landfarm and the trackhoe could not penetrate to the normal sampling depth of between 2' and 3' below grade. Therefore samples were collected at shallower depths ranging between 6-inches and 12-inches. There was a minor hydrocarbon odor observed at several of these shallow sample points. Total petroleum hydrocarbon test results for samples 3d, 12d and 13a indicated values in excess of permit values (100 mg/Kg). BEI suggests re-sampling these three sites, using equipment capable of penetrating to 2'-3' below the treatment zone pursuant to normal protocol. Sample locations were noted with 5 digit GPS accuracy and can be re-established with a high degree of certainty.

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

CHAIN OF CUSTODY RECORD

5973

Client: BLAGG/JFJ			Project Name / Location: JFJ LANDFARM				ANALYSIS / PARAMETERS													
Client Address:			Sampler Name: JEFF BLAGG				TPH (Method 8015) BTEX (Method 8021) VOC (Method 8260) RCRA 8 Metals Cation / Anion RCI TCLP with H/P PAH TPH (418.1) CHLORIDE Sample Cool Sample Intact													
Client Phone No.:			Client No.: 94034-010																	
Sample No./ Identification	Sample Date	Sample Time	Lab No.	Sample Matrix	No./Volume of Containers	Preservative HgCl ₂ HCl		TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	PAH	TPH (418.1)	CHLORIDE	Sample Cool	Sample Intact	
CELL 2G	3/30/09	0940	49517	Soil Solid Sludge Aqueous	1- 402			X	X								X	✓	✓	
CELL 3D	"	0950	49518	Soil Solid Sludge Aqueous	"			X	X								X	✓	✓	
CELL 4H	"	1000	49519	Soil Solid Sludge Aqueous	"			X	X								X	✓	✓	
CELL 7C	"	0930	49520	Soil Solid Sludge Aqueous	"			X	X								X	✓	✓	
CELL 8F	"	0920	49521	Soil Solid Sludge Aqueous	"			X	X								X	✓	✓	
CELL 9H	"	0910	49522	Soil Solid Sludge Aqueous	"			X	X								X	✓	✓	
CELL 11C	"	0815	49523	Soil Solid Sludge Aqueous	"			X	X								X	✓	✓	
CELL 12D	"	0850	49524	Soil Solid Sludge Aqueous	"			X	X								X	✓	✓	
CELL 13A	"	0900	49525	Soil Solid Sludge Aqueous	"			X	X								X	✓	✓	
				Soil Solid Sludge Aqueous																
Relinquished by: (Signature) <i>Jeff Blagg</i>					Date 3/31/09	Time 1100	Received by: (Signature) <i>Veronica Agustin</i>					Date 3/31/09	Time 1100							
Relinquished by: (Signature)							Received by: (Signature)													
Relinquished by: (Signature)							Received by: (Signature)													

ENVIROTECH INC.

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



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Analytical Laboratory

Chloride

Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 2G	Date Reported:	04-06-09
Lab ID#:	49517	Date Sampled:	03-30-09
Sample Matrix:	Soil	Date Received:	03-31-09
Preservative:	Cool	Date Analyzed:	04-03-09
Condition:	Intact	Chain of Custody:	5973

Parameter

Concentration (mg/Kg)

Total Chloride

70

Reference: U.S.E.P.A., 4500B, "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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Analytical Laboratory

Chloride

Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 3D	Date Reported:	04-06-09
Lab ID#:	49518	Date Sampled:	03-30-09
Sample Matrix:	Soil	Date Received:	03-31-09
Preservative:	Cool	Date Analyzed:	04-03-09
Condition:	Intact	Chain of Custody:	5973

Parameter

Concentration (mg/Kg)

Total Chloride

65

Reference: U.S.E.P.A., 4500B, "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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Analytical Laboratory

Chloride

Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 4H	Date Reported:	04-06-09
Lab ID#:	49519	Date Sampled:	03-30-09
Sample Matrix:	Soil	Date Received:	03-31-09
Preservative:	Cool	Date Analyzed:	04-03-09
Condition:	Intact	Chain of Custody:	5973

Parameter

Concentration (mg/Kg)

Total Chloride

20

Reference: U.S.E.P.A., 4500B, "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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Analytical Laboratory

Chloride

Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 7C	Date Reported:	04-06-09
Lab ID#:	49520	Date Sampled:	03-30-09
Sample Matrix:	Soil	Date Received:	03-31-09
Preservative:	Cool	Date Analyzed:	04-03-09
Condition:	Intact	Chain of Custody:	5973

Parameter	Concentration (mg/Kg)
-----------	-----------------------

Total Chloride

30

Reference: U.S.E.P.A., 4500B, "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



Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 8F	Date Reported:	04-06-09
Lab ID#:	49521	Date Sampled:	03-30-09
Sample Matrix:	Soil	Date Received:	03-31-09
Preservative:	Cool	Date Analyzed:	04-03-09
Condition:	Intact	Chain of Custody:	5973

Parameter

Concentration (mg/Kg)

Total Chloride

30

Reference: U.S.E.P.A., 4500B, "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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Analytical Laboratory

Chloride

Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 9H	Date Reported:	04-06-09
Lab ID#:	49522	Date Sampled:	03-30-09
Sample Matrix:	Soil	Date Received:	03-31-09
Preservative:	Cool	Date Analyzed:	04-03-09
Condition:	Intact	Chain of Custody:	5973

Parameter

Concentration (mg/Kg)

Total Chloride

240

Reference: U.S.E.P.A., 4500B, "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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Analytical Laboratory

Chloride

Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 11C	Date Reported:	04-06-09
Lab ID#:	49523	Date Sampled:	03-30-09
Sample Matrix:	Soil	Date Received:	03-31-09
Preservative:	Cool	Date Analyzed:	04-03-09
Condition:	Intact	Chain of Custody:	5973

Parameter

Concentration (mg/Kg)

Total Chloride

170

Reference: U.S.E.P.A., 4500B, "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



Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 12D	Date Reported:	04-06-09
Lab ID#:	49524	Date Sampled:	03-30-09
Sample Matrix:	Soil	Date Received:	03-31-09
Preservative:	Cool	Date Analyzed:	04-03-09
Condition:	Intact	Chain of Custody:	5973

Parameter

Concentration (mg/Kg)

Total Chloride

50

Reference: U.S.E.P.A., 4500B, "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

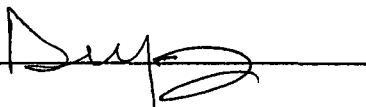
Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 13A	Date Reported:	04-06-09
Lab ID#:	49525	Date Sampled:	03-30-09
Sample Matrix:	Soil	Date Received:	03-31-09
Preservative:	Cool	Date Analyzed:	04-03-09
Condition:	Intact	Chain of Custody:	5973

Parameter**Concentration (mg/Kg)****Total Chloride****65**

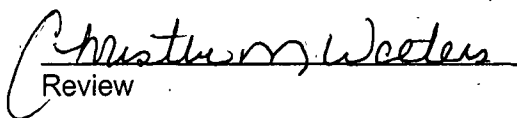
Reference: U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **JFJ Landfarm.**

Analyst



Review





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Analytical Laboratory

**EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons**

Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 2G	Date Reported:	04-07-09
Laboratory Number:	49517	Date Sampled:	03-30-09
Chain of Custody No:	5973	Date Received:	03-31-09
Sample Matrix:	Soil	Date Extracted:	04-03-09
Preservative:	Cool	Date Analyzed:	04-06-09
Condition:	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

**EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons**

Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 3D	Date Reported:	04-07-09
Laboratory Number:	49518	Date Sampled:	03-30-09
Chain of Custody No:	5973	Date Received:	03-31-09
Sample Matrix:	Soil	Date Extracted:	04-03-09
Preservative:	Cool	Date Analyzed:	04-06-09
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	4.8	0.2
Diesel Range (C10 - C28)	372	0.1
Total Petroleum Hydrocarbons	377	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

**EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons**

Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 4H	Date Reported:	04-07-09
Laboratory Number:	49519	Date Sampled:	03-30-09
Chain of Custody No:	5973	Date Received:	03-31-09
Sample Matrix:	Soil	Date Extracted:	04-03-09
Preservative:	Cool	Date Analyzed:	04-06-09
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	2.6	0.1
Total Petroleum Hydrocarbons	2.6	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: **JFJ Landfarm**

Analyst

Review



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**EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons**

Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 7C	Date Reported:	04-07-09
Laboratory Number:	49520	Date Sampled:	03-30-09
Chain of Custody No:	5973	Date Received:	03-31-09
Sample Matrix:	Soil	Date Extracted:	04-03-09
Preservative:	Cool	Date Analyzed:	04-06-09
Condition:	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

**EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons**

Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 8F	Date Reported:	04-07-09
Laboratory Number:	49521	Date Sampled:	03-30-09
Chain of Custody No:	5973	Date Received:	03-31-09
Sample Matrix:	Soil	Date Extracted:	04-03-09
Preservative:	Cool	Date Analyzed:	04-06-09
Condition:	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

**EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons**

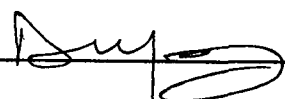
Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 9H	Date Reported:	04-07-09
Laboratory Number:	49522	Date Sampled:	03-30-09
Chain of Custody No:	5973	Date Received:	03-31-09
Sample Matrix:	Soil	Date Extracted:	04-03-09
Preservative:	Cool	Date Analyzed:	04-06-09
Condition:	Intact	Analysis Requested:	8015 TPH

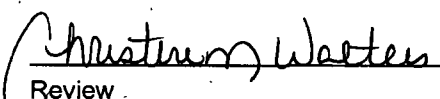
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

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

**EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons**

Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 11C	Date Reported:	04-07-09
Laboratory Number:	49523	Date Sampled:	03-30-09
Chain of Custody No:	5973	Date Received:	03-31-09
Sample Matrix:	Soil	Date Extracted:	04-03-09
Preservative:	Cool	Date Analyzed:	04-06-09
Condition:	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

**EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons**

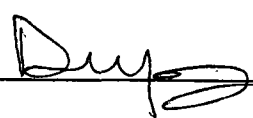
Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 12D	Date Reported:	04-07-09
Laboratory Number:	49524	Date Sampled:	03-30-09
Chain of Custody No:	5973	Date Received:	03-31-09
Sample Matrix:	Soil	Date Extracted:	04-03-09
Preservative:	Cool	Date Analyzed:	04-06-09
Condition:	Intact	Analysis Requested:	8015 TPH

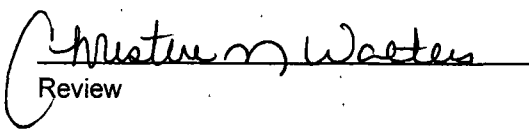
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	11.1	0.2
Diesel Range (C10 - C28)	1,020	0.1
Total Petroleum Hydrocarbons	1,030	0.2

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

**EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons**

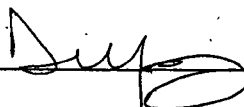
Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 13A	Date Reported:	04-07-09
Laboratory Number:	49525	Date Sampled:	03-30-09
Chain of Custody No:	5973	Date Received:	03-31-09
Sample Matrix:	Soil	Date Extracted:	04-03-09
Preservative:	Cool	Date Analyzed:	04-06-09
Condition:	Intact	Analysis Requested:	8015 TPH

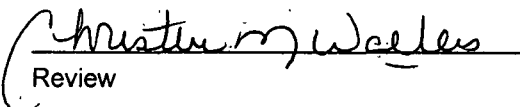
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	6.2	0.2
Diesel Range (C10 - C28)	624	0.1
Total Petroleum Hydrocarbons	630	0.2

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

**EPA Method 8015 Modified
 Nonhalogenated Volatile Organics
 Total Petroleum Hydrocarbons**

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	04-06-09 QA/QC	Date Reported:	04-07-09
Laboratory Number:	49517	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	04-06-09
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	1.0183E+003	1.0187E+003	0.04%	0 - 15%
Diesel Range C10 - C28	05-07-07	1.0546E+003	1.0550E+003	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

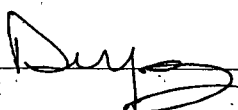
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept Range
Gasoline Range C5 - C10	ND	ND	0.0%	0 - 30%
Diesel Range C10 - C28	ND	ND	0.0%	0 - 30%

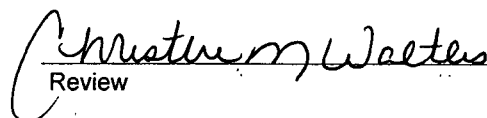
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept Range
Gasoline Range C5 - C10	ND	250	248	99.2%	75 - 125%
Diesel Range C10 - C28	ND	250	244	97.6%	75 - 125%

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 49517 - 49525 and 49530.

Analyst 

Review 

Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 2G	Date Reported:	04-07-09
Laboratory Number:	49517	Date Sampled:	03-30-09
Chain of Custody:	5973	Date Received:	03-31-09
Sample Matrix:	Soil	Date Analyzed:	04-06-09
Preservative:	Cool	Date Extracted:	04-03-09
Condition:	Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	5.5	0.9
Toluene	9.1	1.0
Ethylbenzene	10.6	1.0
p,m-Xylene	30.1	1.2
o-Xylene	16.2	0.9
Total BTEX	71.5	

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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EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 3D	Date Reported:	04-07-09
Laboratory Number:	49518	Date Sampled:	03-30-09
Chain of Custody:	5973	Date Received:	03-31-09
Sample Matrix:	Soil	Date Analyzed:	04-06-09
Preservative:	Cool	Date Extracted:	04-03-09
Condition:	Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	2.1	0.9
Toluene	7.1	1.0
Ethylbenzene	8.8	1.0
p,m-Xylene	24.5	1.2
o-Xylene	12.2	0.9
Total BTEX	54.7	

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

Analyst

Review



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EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 4H	Date Reported:	04-07-09
Laboratory Number:	49519	Date Sampled:	03-30-09
Chain of Custody:	5973	Date Received:	03-31-09
Sample Matrix:	Soil	Date Analyzed:	04-06-09
Preservative:	Cool	Date Extracted:	04-03-09
Condition:	Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	1.2	0.9
Toluene	2.7	1.0
Ethylbenzene	2.0	1.0
p,m-Xylene	4.7	1.2
o-Xylene	2.8	0.9
Total BTEX	13.4	

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

Analyst

Review

Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 7C	Date Reported:	04-07-09
Laboratory Number:	49520	Date Sampled:	03-30-09
Chain of Custody:	5973	Date Received:	03-31-09
Sample Matrix:	Soil	Date Analyzed:	04-06-09
Preservative:	Cool	Date Extracted:	04-03-09
Condition:	Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	0.9
Toluene	3.6	1.0
Ethylbenzene	2.3	1.0
p,m-Xylene	7.6	1.2
o-Xylene	3.4	0.9
Total BTEX	16.9	

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

Analyst

Review

Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 8F	Date Reported:	04-07-09
Laboratory Number:	49521	Date Sampled:	03-30-09
Chain of Custody:	5973	Date Received:	03-31-09
Sample Matrix:	Soil	Date Analyzed:	04-06-09
Preservative:	Cool	Date Extracted:	04-03-09
Condition:	Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	8.9	0.9
Toluene	8.7	1.0
Ethylbenzene	5.0	1.0
p,m-Xylene	91.3	1.2
o-Xylene	14.7	0.9
Total BTEX	129	

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.

Comments: JFJ Landfarm

Analyst

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EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 9H	Date Reported:	04-07-09
Laboratory Number:	49522	Date Sampled:	03-30-09
Chain of Custody:	5973	Date Received:	03-31-09
Sample Matrix:	Soil	Date Analyzed:	04-06-09
Preservative:	Cool	Date Extracted:	04-03-09
Condition:	Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	0.9
Toluene	5.2	1.0
Ethylbenzene	3.6	1.0
p,m-Xylene	24.0	1.2
o-Xylene	6.9	0.9
Total BTEX	39.7	

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

Analyst

Review

Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 11C	Date Reported:	04-07-09
Laboratory Number:	49523	Date Sampled:	03-30-09
Chain of Custody:	5973	Date Received:	03-31-09
Sample Matrix:	Soil	Date Analyzed:	04-06-09
Preservative:	Cool	Date Extracted:	04-03-09
Condition:	Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	1.9	0.9
Toluene	2.3	1.0
Ethylbenzene	1.6	1.0
p,m-Xylene	6.0	1.2
o-Xylene	2.4	0.9
Total BTEX	14.2	

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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EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 12D	Date Reported:	04-07-09
Laboratory Number:	49524	Date Sampled:	03-30-09
Chain of Custody:	5973	Date Received:	03-31-09
Sample Matrix:	Soil	Date Analyzed:	04-06-09
Preservative:	Cool	Date Extracted:	04-03-09
Condition:	Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	0.9
Toluene	2.0	1.0
Ethylbenzene	7.9	1.0
p,m-Xylene	3.1	1.2
o-Xylene	3.4	0.9
Total BTEX	16.4	

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

Analyst

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EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 13A	Date Reported:	04-07-09
Laboratory Number:	49525	Date Sampled:	03-30-09
Chain of Custody:	5973	Date Received:	03-31-09
Sample Matrix:	Soil	Date Analyzed:	04-06-09
Preservative:	Cool	Date Extracted:	04-03-09
Condition:	Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	0.9
Toluene	3.0	1.0
Ethylbenzene	10.6	1.0
p,m-Xylene	3.2	1.2
o-Xylene	2.4	0.9
Total BTEX	19.2	

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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EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	04-06-BT QA/QC	Date Reported:	04-07-09
Laboratory Number:	49517	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	04-06-09
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF	C-Cal RF	%Diff	Blank Conc	Detected Limit
		Accept Range 0 - 15%			
Benzene	7.6907E+006	7.7061E+006	0.2%	ND	0.1
Toluene	7.0464E+006	7.0606E+006	0.2%	ND	0.1
Ethylbenzene	6.0664E+006	6.0786E+006	0.2%	ND	0.1
p,m-Xylene	1.5582E+007	1.5614E+007	0.2%	ND	0.1
o-Xylene	5.8705E+006	5.8823E+006	0.2%	ND	0.1

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff	Accept Range	Detected Limit
Benzene	5.5	5.3	3.6%	0 - 30%	0.9
Toluene	9.1	9.0	1.1%	0 - 30%	1.0
Ethylbenzene	10.6	10.4	1.9%	0 - 30%	1.0
p,m-Xylene	30.1	29.4	2.3%	0 - 30%	1.2
o-Xylene	16.2	15.7	3.1%	0 - 30%	0.9

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	5.5	50.0	53.0	95.5%	39 - 150
Toluene	9.1	50.0	56.9	96.3%	46 - 148
Ethylbenzene	10.6	50.0	58.5	96.5%	32 - 160
p,m-Xylene	30.1	100	123	94.5%	46 - 148
o-Xylene	16.2	50.0	63.2	95.5%	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 49517 - 49525 and 49530.

Analyst

Review

BLAGG ENGINEERING, INC.

P.O. Box 87, Bloomfield, New Mexico 87413

Phone: (505)632-1199 Fax: (505)632-3903

NM1-10B

RECEIVED

2009 FEB 2 PM 1 06

January 30, 2009

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

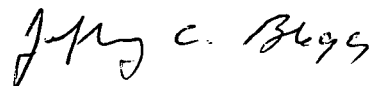
Dear Mr. Jones:

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 December 31, 2008.

Sampling protocol included collection of native soils below the treatment zone in each cell using a trackhoe excavator to penetrate the surface. 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 and chloride by U.S. EPA Method 300.0. Samples were collected from active cell units 2h, 3g, 4e, 7e, 8a, 9d, 11b, 12c and 13c (Figure 1). There were no test results in excess of standards. Analytical reports are attached.

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.

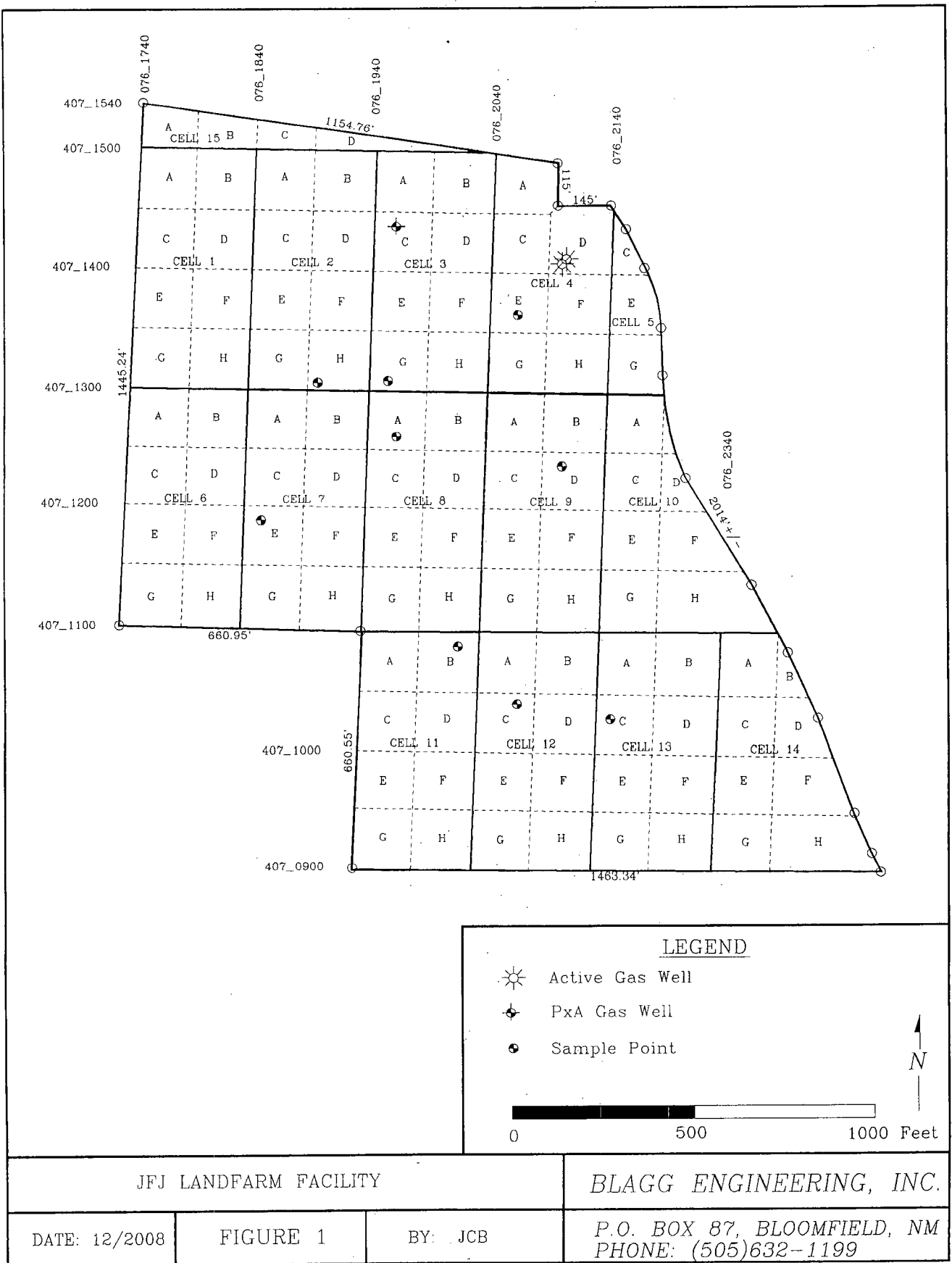
Respectfully submitted:
Blagg Engineering, Inc.



Jeffrey C. Blagg, P.E.
President

Attachments: Site Diagram
Analytical Test Reports

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



CHAIN OF CUSTODY RECORD

6028

Client: BLA66/JFJ		Project Name / Location: JFJ LF		ANALYSIS / PARAMETERS															
Client Address:		Sampler Name: JEFF BLA66																	
Client Phone No.:		Client No.: 94034-010																	
Sample No./ Identification	Sample Date	Sample Time	Lab No.	Sample Matrix	No./Volume of Containers	Preservative HgO ₂ HCl	TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	PAH	TPH (418.1)	CHLORIDE		Sample Cool	Sample Intact
CELL 2H	12/31/03	0950	48600	Soil Solid	1-402		X	X								X		X	
CELL 3G	"	0940	48601	Soil Solid	"		X	X								X		X	
CELL 4E	"	1000	48602	Soil Solid	"		X	X								X		X	
CELL 7E	"	0920	48603	Soil Solid	"		X	X								X		X	
CELL 8A	"	0930	48604	Soil Solid	"		X	X								X		X	
CELL 9D	"	0905	48605	Soil Solid	"		X	X								X		X	
CELL 11B	"	0930	48606	Soil Solid	"		X	X								X		X	
CELL 12C	"	0840	48607	Soil Solid	"		X	X								X		X	
CELL 13C	"	0850	48608	Soil Solid	"		X	X								X		X	
Relinquished by: (Signature) JH Steg				Date	Time	Received by: (Signature) [Signature]				Date	Time								
Relinquished by: (Signature)				Date	Time	Received by: (Signature)				Date	Time								
Relinquished by: (Signature)				Date	Time	Received by: (Signature)				Date	Time								

ENVIROTECH INC.

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

**EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons**

Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 2H	Date Reported:	01-07-09
Laboratory Number:	48600	Date Sampled:	12-31-08
Chain of Custody No:	6028	Date Received:	12-31-08
Sample Matrix:	Soil	Date Extracted:	01-05-09
Preservative:	Cool	Date Analyzed:	01-06-09
Condition:	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 LF

Analyst

Review



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Analytical Laboratory

**EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons**

Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 3G	Date Reported:	01-07-09
Laboratory Number:	48601	Date Sampled:	12-31-08
Chain of Custody No:	6028	Date Received:	12-31-08
Sample Matrix:	Soil	Date Extracted:	01-05-09
Preservative:	Cool	Date Analyzed:	01-06-09
Condition:	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 LF

Analyst

Review



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Analytical Laboratory

**EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons**

Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 4E	Date Reported:	01-07-09
Laboratory Number:	48602	Date Sampled:	12-31-08
Chain of Custody No:	6028	Date Received:	12-31-08
Sample Matrix:	Soil	Date Extracted:	01-05-09
Preservative:	Cool	Date Analyzed:	01-06-09
Condition:	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 LF

Analyst

Review



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Analytical Laboratory

**EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons**

Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 7E	Date Reported:	01-07-09
Laboratory Number:	48603	Date Sampled:	12-31-08
Chain of Custody No:	6028	Date Received:	12-31-08
Sample Matrix:	Soil	Date Extracted:	01-05-09
Preservative:	Cool	Date Analyzed:	01-06-09
Condition:	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 LF

Analyst

Review



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Analytical Laboratory

**EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons**

Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 8A	Date Reported:	01-07-09
Laboratory Number:	48604	Date Sampled:	12-31-08
Chain of Custody No:	6028	Date Received:	12-31-08
Sample Matrix:	Soil	Date Extracted:	01-05-09
Preservative:	Cool	Date Analyzed:	01-06-09
Condition:	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 LF

Analyst

Review



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Analytical Laboratory

**EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons**

Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 9D	Date Reported:	01-07-09
Laboratory Number:	48605	Date Sampled:	12-31-08
Chain of Custody No:	6028	Date Received:	12-31-08
Sample Matrix:	Soil	Date Extracted:	01-05-09
Preservative:	Cool	Date Analyzed:	01-06-09
Condition:	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 LF

Analyst

Review

**EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons**

Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 11B	Date Reported:	01-07-09
Laboratory Number:	48606	Date Sampled:	12-31-08
Chain of Custody No:	6028	Date Received:	12-31-08
Sample Matrix:	Soil	Date Extracted:	01-05-09
Preservative:	Cool	Date Analyzed:	01-06-09
Condition:	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 LF

Analyst

Review



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**EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons**

Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 12C	Date Reported:	01-07-09
Laboratory Number:	48607	Date Sampled:	12-31-08
Chain of Custody No:	6028	Date Received:	12-31-08
Sample Matrix:	Soil	Date Extracted:	01-05-09
Preservative:	Cool	Date Analyzed:	01-06-09
Condition:	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 LF

Analyst

Review

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 13C	Date Reported:	01-07-09
Laboratory Number:	48608	Date Sampled:	12-31-08
Chain of Custody No:	6028	Date Received:	12-31-08
Sample Matrix:	Soil	Date Extracted:	01-05-09
Preservative:	Cool	Date Analyzed:	01-06-09
Condition:	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 LF

Analyst

Review

EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	01-06-09 QA/QC	Date Reported:	01-07-09
Laboratory Number:	48600	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	01-06-09
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	1.0015E+003	1.0019E+003	0.04%	0 - 15%
Diesel Range C10 - C28	05-07-07	9.9841E+002	9.9881E+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%

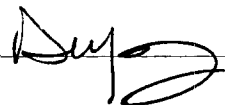
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept Range
Gasoline Range C5 - C10	ND	250	247	98.8%	75 - 125%
Diesel Range C10 - C28	ND	250	248	99.2%	75 - 125%

ND - Parameter not detected at the stated detection limit.

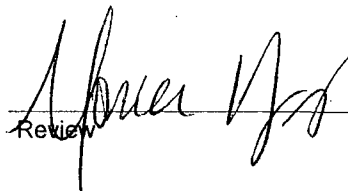
References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: QA/QC for Sample 48600 - 48608.

Analyst



Review



Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 2H	Date Reported:	01-07-09
Laboratory Number:	48600	Date Sampled:	12-31-08
Chain of Custody:	6028	Date Received:	12-31-08
Sample Matrix:	Soil	Date Analyzed:	01-06-09
Preservative:	Cool	Date Extracted:	01-05-09
Condition:	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 LF.

Analyst

Review



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**EPA METHOD 8021
AROMATIC VOLATILE ORGANICS**

Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 3G	Date Reported:	01-07-09
Laboratory Number:	48601	Date Sampled:	12-31-08
Chain of Custody:	6028	Date Received:	12-31-08
Sample Matrix:	Soil	Date Analyzed:	01-06-09
Preservative:	Cool	Date Extracted:	01-05-09
Condition:	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.

Comments: JFJ LF.

Analyst

Review



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**EPA METHOD 8021
AROMATIC VOLATILE ORGANICS**

Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 4E	Date Reported:	01-07-09
Laboratory Number:	48602	Date Sampled:	12-31-08
Chain of Custody:	6028	Date Received:	12-31-08
Sample Matrix:	Soil	Date Analyzed:	01-06-09
Preservative:	Cool	Date Extracted:	01-05-09
Condition:	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 LF.

Analyst

Review

Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 7E	Date Reported:	01-07-09
Laboratory Number:	48603	Date Sampled:	12-31-08
Chain of Custody:	6028	Date Received:	12-31-08
Sample Matrix:	Soil	Date Analyzed:	01-06-09
Preservative:	Cool	Date Extracted:	01-05-09
Condition:	Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	9	0.9
Toluene	ND	1.0
Ethylbenzene	4	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.

Comments: JFJ LF.

Analyst

Review

Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 8A	Date Reported:	01-07-09
Laboratory Number:	48604	Date Sampled:	12-31-08
Chain of Custody:	6028	Date Received:	12-31-08
Sample Matrix:	Soil	Date Analyzed:	01-06-09
Preservative:	Cool	Date Extracted:	01-05-09
Condition:	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 LF.

Analyst

Review

Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 9D	Date Reported:	01-07-09
Laboratory Number:	48605	Date Sampled:	12-31-08
Chain of Custody:	6028	Date Received:	12-31-08
Sample Matrix:	Soil	Date Analyzed:	01-06-09
Preservative:	Cool	Date Extracted:	01-05-09
Condition:	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.

Comments: JFJ LF.

Analyst

Review

Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 11B	Date Reported:	01-07-09
Laboratory Number:	48606	Date Sampled:	12-31-08
Chain of Custody:	6028	Date Received:	12-31-08
Sample Matrix:	Soil	Date Analyzed:	01-06-09
Preservative:	Cool	Date Extracted:	01-05-09
Condition:	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 LF.

Analyst

Review

Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 12C	Date Reported:	01-07-09
Laboratory Number:	48607	Date Sampled:	12-31-08
Chain of Custody:	6028	Date Received:	12-31-08
Sample Matrix:	Soil	Date Analyzed:	01-06-09
Preservative:	Cool	Date Extracted:	01-05-09
Condition:	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.

Comments: JFJ LF.

Analyst

Review



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EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 13C	Date Reported:	01-07-09
Laboratory Number:	48608	Date Sampled:	12-31-08
Chain of Custody:	6028	Date Received:	12-31-08
Sample Matrix:	Soil	Date Analyzed:	01-06-09
Preservative:	Cool	Date Extracted:	01-05-09
Condition:	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.

Comments: JFJ LF.

Analyst

Review



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EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	01-06-BT QA/QC	Date Reported:	01-07-09
Laboratory Number:	48599	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	01-06-09
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF	C-Cal RF	%Diff	Blank Conc	Detect Limit
		Accept Range 0 - 15%			
Benzene	9.4241E+005	9.4430E+005	0.2%	ND	0.1
Toluene	8.7443E+005	8.7619E+005	0.2%	ND	0.1
Ethylbenzene	8.1343E+005	8.1506E+005	0.2%	ND	0.1
p,m-Xylene	1.9833E+006	1.9872E+006	0.2%	ND	0.1
o-Xylene	8.2225E+005	8.2390E+005	0.2%	ND	0.1

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff	Accept Range	Detect Limit
Benzene	1,270	1,240	2.4%	0 - 30%	0.9
Toluene	3,590	3,550	1.1%	0 - 30%	1.0
Ethylbenzene	392	410	4.6%	0 - 30%	1.0
p,m-Xylene	5,460	5,400	1.1%	0 - 30%	1.2
o-Xylene	1,400	1,370	2.1%	0 - 30%	0.9

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	1,270	50.0	1,290	97.7%	39 - 150
Toluene	3,590	50.0	3,600	98.9%	46 - 148
Ethylbenzene	392	50.0	410	92.8%	32 - 160
p,m-Xylene	5,460	100	5,520	99.3%	46 - 148
o-Xylene	1,400	50.0	1,460	101%	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 48559 - 48608.

Analyst

Review



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Chloride

Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 2H	Date Reported:	01-08-09
Lab ID#:	48600	Date Sampled:	12-31-08
Sample Matrix:	Soil Extract	Date Received:	12-31-08
Preservative:	Cool	Date Analyzed:	01-07-09
Condition:	Intact	Chain of Custody:	6028

Parameter

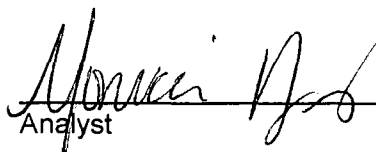
Concentration (mg/L)

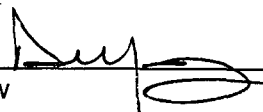
Total Chloride

10

Reference: U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: JFJ LF


Analyst


Review



Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 3G	Date Reported:	01-08-09
Lab ID#:	48601	Date Sampled:	12-31-08
Sample Matrix:	Soil Extract	Date Received:	12-31-08
Preservative:	Cool	Date Analyzed:	01-07-09
Condition:	Intact	Chain of Custody:	6028

Parameter

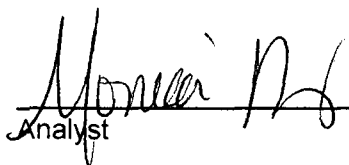
Concentration (mg/L)

Total Chloride

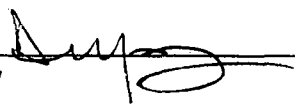
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Reference: U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **JFJ LF**



Analyst



Review



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Analytical Laboratory

Chloride

Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 4E	Date Reported:	01-08-09
Lab ID#:	48602	Date Sampled:	12-31-08
Sample Matrix:	Soil Extract	Date Received:	12-31-08
Preservative:	Cool	Date Analyzed:	01-07-09
Condition:	Intact	Chain of Custody:	6028

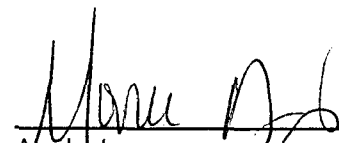
Parameter	Concentration (mg/L)
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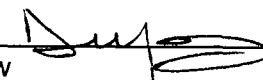
Total Chloride

15

Reference: U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: JFJ LF


Analyst


Review



Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 7E	Date Reported:	01-08-09
Lab ID#:	48603	Date Sampled:	12-31-08
Sample Matrix:	Soil Extract	Date Received:	12-31-08
Preservative:	Cool	Date Analyzed:	01-07-09
Condition:	Intact	Chain of Custody:	6028

Parameter

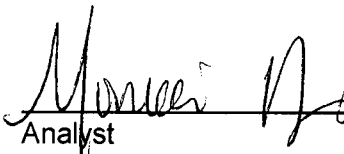
Concentration (mg/L)

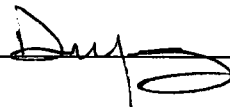
Total Chloride

50

Reference: U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: JFJ:LF


Analyst


Review



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Analytical Laboratory

Chloride

Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 8A	Date Reported:	01-08-09
Lab ID#:	48604	Date Sampled:	12-31-08
Sample Matrix:	Soil Extract	Date Received:	12-31-08
Preservative:	Cool	Date Analyzed:	01-07-09
Condition:	Intact	Chain of Custody:	6028

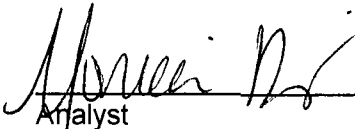
Parameter	Concentration (mg/L)
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Total Chloride

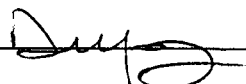
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Reference: U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: JFJ LF



Analyst



Review



Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 9D	Date Reported:	01-08-09
Lab ID#:	48605	Date Sampled:	12-31-08
Sample Matrix:	Soil Extract	Date Received:	12-31-08
Preservative:	Cool	Date Analyzed:	01-07-09
Condition:	Intact	Chain of Custody:	6028

Parameter

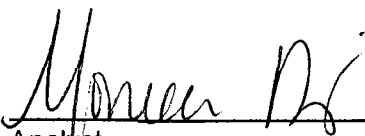
Concentration (mg/L)

Total Chloride

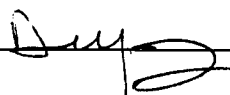
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Reference: U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: JFJ LF



Analyst



Review



Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 11B	Date Reported:	01-08-09
Lab ID#:	48606	Date Sampled:	12-31-08
Sample Matrix:	Soil Extract	Date Received:	12-31-08
Preservative:	Cool	Date Analyzed:	01-07-09
Condition:	Intact	Chain of Custody:	6028

Parameter

Concentration (mg/L)

Total Chloride

45

Reference: U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **JFJ-LF**

Analyst

Review



Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 12C	Date Reported:	01-08-09
Lab ID#:	48607	Date Sampled:	12-31-08
Sample Matrix:	Soil Extract	Date Received:	12-31-08
Preservative:	Cool	Date Analyzed:	01-07-09
Condition:	Intact	Chain of Custody:	6028

Parameter

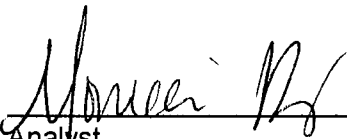
Concentration (mg/L)

Total Chloride

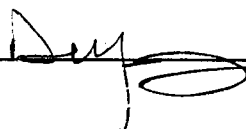
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Reference: U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **JFJ LF**



Analyst



Review



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Chloride

Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 13C	Date Reported:	01-08-09
Lab ID#:	48608	Date Sampled:	12-31-08
Sample Matrix:	Soil Extract	Date Received:	12-31-08
Preservative:	Cool	Date Analyzed:	01-07-09
Condition:	Intact	Chain of Custody:	6028

Parameter

Concentration (mg/L)

Total Chloride

20

Reference: U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **JFJ LF**

Analyst

Review

BLAGG ENGINEERING, INC.

P.O. Box 87, Bloomfield, New Mexico 87413

Phone: (505)632-1199 Fax: (505)632-3903

NM1-10B

RECEIVED

2008 NOV 20 PM 1 51

November 18, 2008

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

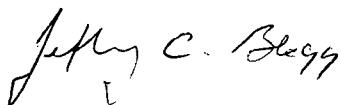
Dear Mr. Jones:

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 October 29, 2008.

Sampling protocol included collection of native soils below the treatment zone in each cell using a trackhoe excavator to penetrate the surface. 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 and chloride by U.S. EPA Method 300.0. Samples were collected from active cell units 2g, 3a, 4f, 7h, 8g, 9g, 11d, 12c and 13e (Figure 1). There were no test results in excess of standards. Analytical reports are attached.

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.

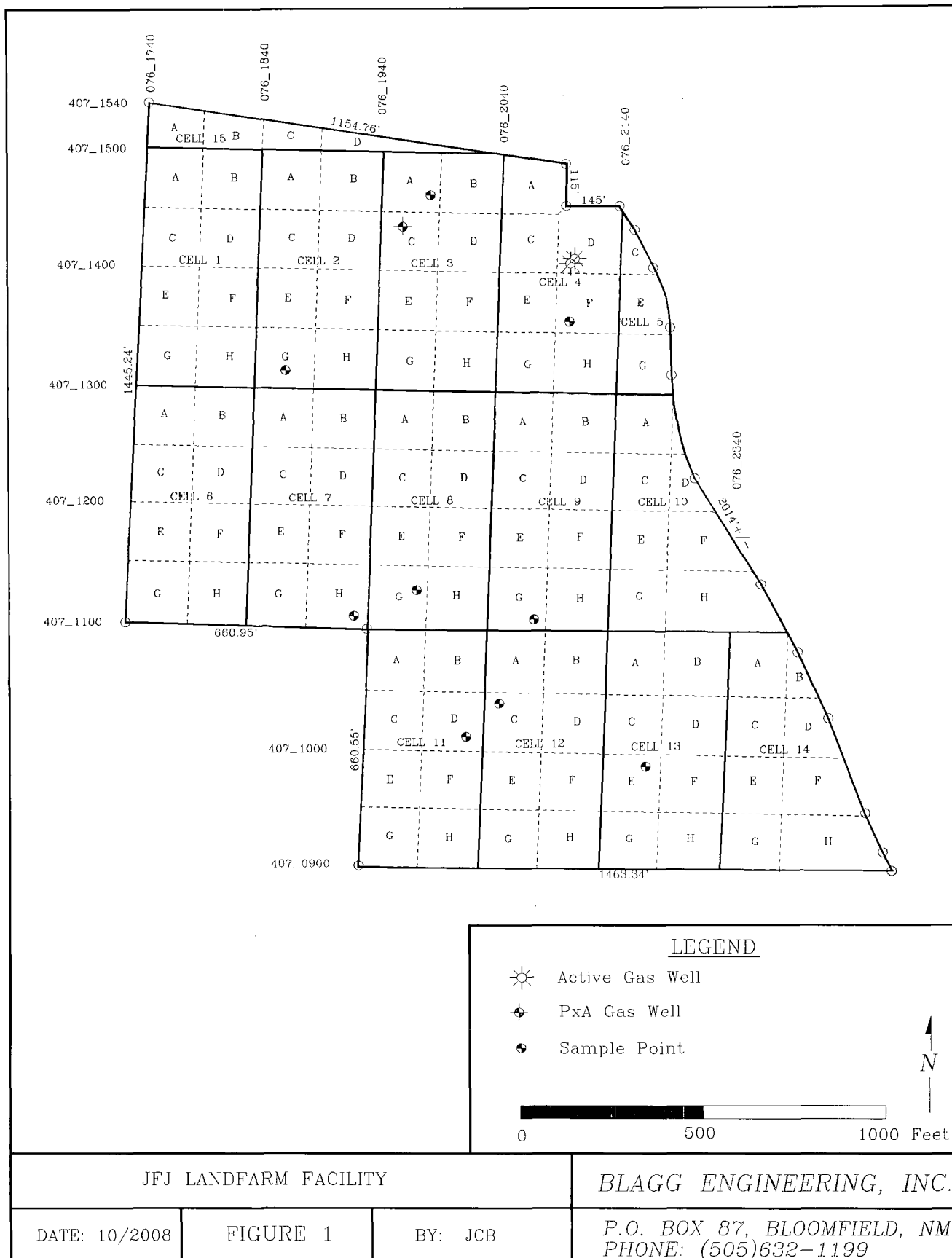
Respectfully submitted:
Blagg Engineering, Inc.



Jeffrey C. Blagg, P.E.
President

Attachments: Site Diagram
Analytical Test Reports

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



CHAIN OF CUSTODY RECORD

5669

Client: BLAGG/JFJ		Project Name / Location: JFJ LANDFARM		ANALYSIS / PARAMETERS																			
Client Address:		Sampler Name: JEFF BLAGG		Sample Matrix		No./Volume of Containers		Preservative		TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	PAH	TPH (418.1)	CHLORIDE (Method 300)	Sample Cool	Sample Intact		
Client Phone No.: 94034-010		Sample No./ Identification	Sample Date	Sample Time	Lab No.	Sample Matrix	No./Volume of Containers	Preservative	HgCl ₂	HCl	TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	PAH	TPH (418.1)	CHLORIDE (Method 300)	Sample Cool	Sample Intact	
CELL 2 G	10/29/02	1145	47966	Soil Solid	Sludge Aqueous	1 - 402					X	X								X	✓	✓	
CELL 3 A	"	1220	47967	Soil Solid	Sludge Aqueous	"					X	X								X	✓	✓	
CELL 4 F	"	1155	47968	Soil Solid	Sludge Aqueous	"					X	X								X	✓	✓	
CELL 7 H	"	1130	47969	Soil Solid	Sludge Aqueous	"					X	X								X	✓	✓	
CELL 8 G	"	1120	47970	Soil Solid	Sludge Aqueous	"					X	X								X	✓	✓	
CELL 9 G	"	1105	47971	Soil Solid	Sludge Aqueous	"					X	X								X	✓	✓	
CELL 11 D	"	1030	47972	Soil Solid	Sludge Aqueous	"					X	X								X	✓	✓	
CELL 12 C	"	1040	47973	Soil Solid	Sludge Aqueous	"					X	X								X	✓	✓	
CELL 13 E	"	1055	47974	Soil Solid	Sludge Aqueous	"					X	X								X	✓	✓	
Relinquished by: (Signature) <i>JH Blagg</i>		Date	Time	Received by: (Signature) <i>Ken L. Auger</i>		Date	Time																
Relinquished by: (Signature)			10/30/02	1223	Received by: (Signature)		10/30/02	12:23															
Relinquished by: (Signature)					Received by: (Signature)																		

ENVIROTECH INC.

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

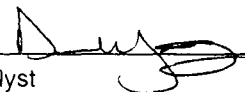
Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 2G	Date Reported:	11-07-08
Laboratory Number:	47966	Date Sampled:	10-29-08
Chain of Custody No:	5669	Date Received:	10-30-08
Sample Matrix:	Soil	Date Extracted:	11-05-08
Preservative:	Cool	Date Analyzed:	11-05-08
Condition:	Intact	Analysis Requested:	8015 TPH

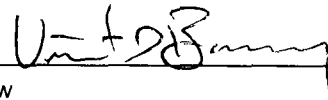
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

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

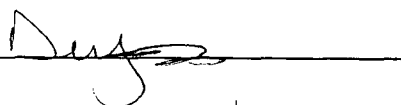
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Sample ID:	Cell 3A	Date Reported:	11-07-08
Laboratory Number:	47967	Date Sampled:	10-29-08
Chain of Custody No:	5669	Date Received:	10-30-08
Sample Matrix:	Soil	Date Extracted:	11-05-08
Preservative:	Cool	Date Analyzed:	11-05-08
Condition:	Intact	Analysis Requested:	8015 TPH

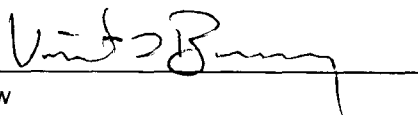
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

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

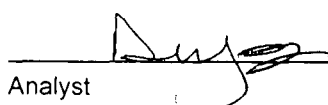
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Sample ID:	Cell 4F	Date Reported:	11-07-08
Laboratory Number:	47968	Date Sampled:	10-29-08
Chain of Custody No:	5669	Date Received:	10-30-08
Sample Matrix:	Soil	Date Extracted:	11-05-08
Preservative:	Cool	Date Analyzed:	11-05-08
Condition:	Intact	Analysis Requested:	8015 TPH

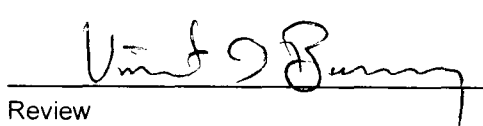
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

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

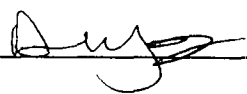
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Sample ID:	Cell 7H	Date Reported:	11-07-08
Laboratory Number:	47969	Date Sampled:	10-29-08
Chain of Custody No:	5669	Date Received:	10-30-08
Sample Matrix:	Soil	Date Extracted:	11-05-08
Preservative:	Cool	Date Analyzed:	11-05-08
Condition:	Intact	Analysis 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

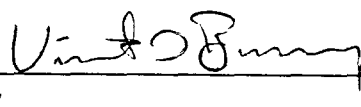
ND - Parameter not detected at the stated detection limit.

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

Comments: **JFJ Landfarm.**



Analyst



Review

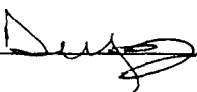
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Sample ID:	Cell 8G	Date Reported:	11-07-08
Laboratory Number:	47970	Date Sampled:	10-29-08
Chain of Custody No:	5669	Date Received:	10-30-08
Sample Matrix:	Soil	Date Extracted:	11-05-08
Preservative:	Cool	Date Analyzed:	11-05-08
Condition:	Intact	Analysis 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

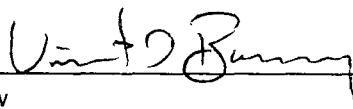
ND - Parameter not detected at the stated detection limit.

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

Comments: **JFJ Landfarm.**



Analyst



Review

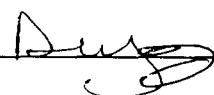
Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 9G	Date Reported:	11-07-08
Laboratory Number:	47971	Date Sampled:	10-29-08
Chain of Custody No:	5669	Date Received:	10-30-08
Sample Matrix:	Soil	Date Extracted:	11-05-08
Preservative:	Cool	Date Analyzed:	11-05-08
Condition:	Intact	Analysis Requested:	8015 TPH

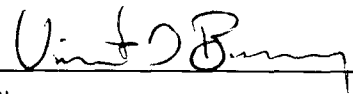
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

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

Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 11D	Date Reported:	11-07-08
Laboratory Number:	47972	Date Sampled:	10-29-08
Chain of Custody No:	5669	Date Received:	10-30-08
Sample Matrix:	Soil	Date Extracted:	11-05-08
Preservative:	Cool	Date Analyzed:	11-05-08
Condition:	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



EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 12C	Date Reported:	11-07-08
Laboratory Number:	47973	Date Sampled:	10-29-08
Chain of Custody No:	5669	Date Received:	10-30-08
Sample Matrix:	Soil	Date Extracted:	11-05-08
Preservative:	Cool	Date Analyzed:	11-05-08
Condition:	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



EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 13E	Date Reported:	11-07-08
Laboratory Number:	47974	Date Sampled:	10-29-08
Chain of Custody No:	5669	Date Received:	10-30-08
Sample Matrix:	Soil	Date Extracted:	11-05-08
Preservative:	Cool	Date Analyzed:	11-05-08
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	1.1	0.1
Total Petroleum Hydrocarbons	1.1	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.

Analyst

Review

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	11-05-08 QA/QC	Date Reported:	11-07-08
Laboratory Number:	47966	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	11-05-08
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	9.9299E+002	9.9338E+002	0.04%	0 - 15%
Diesel Range C10 - C28	05-07-07	9.8072E+002	9.8112E+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%

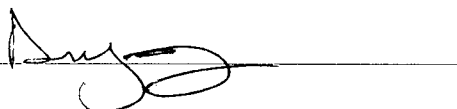
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept Range
Gasoline Range C5 - C10	ND	250	246	98.4%	75 - 125%
Diesel Range C10 - C28	ND	250	240	96.0%	75 - 125%

ND - Parameter not detected at the stated detection limit.

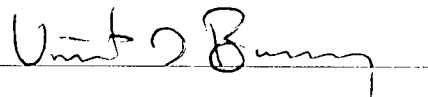
References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: QA/QC for Samples 47964 and 47966 - 47974.

Analyst



Review



Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 2G	Date Reported:	11-07-08
Laboratory Number:	47966	Date Sampled:	10-29-08
Chain of Custody:	5669	Date Received:	10-30-08
Sample Matrix:	Soil	Date Analyzed:	11-05-08
Preservative:	Cool	Date Extracted:	11-05-08
Condition:	Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	2.8	0.9
Toluene	9.2	1.0
Ethylbenzene	4.8	1.0
p,m-Xylene	11.0	1.2
o-Xylene	7.6	0.9
Total BTEX	35.4	

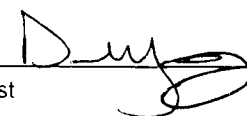
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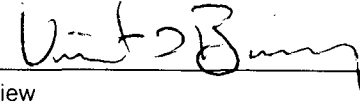
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	99.0 %
	1,4-difluorobenzene	99.0 %
	Bromochlorobenzene	99.0 %

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


Analyst


Review

Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 3A	Date Reported:	11-07-08
Laboratory Number:	47967	Date Sampled:	10-29-08
Chain of Custody:	5669	Date Received:	10-30-08
Sample Matrix:	Soil	Date Analyzed:	11-05-08
Preservative:	Cool	Date Extracted:	11-05-08
Condition:	Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	19.8	0.9
Toluene	31.8	1.0
Ethylbenzene	4.2	1.0
p,m-Xylene	15.9	1.2
o-Xylene	8.1	0.9
Total BTEX	79.8	

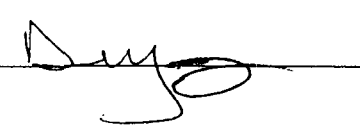
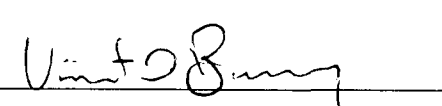
ND - Parameter not detected at the stated detection limit.

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


Analyst
Review

Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 4F	Date Reported:	11-07-08
Laboratory Number:	47968	Date Sampled:	10-29-08
Chain of Custody:	5669	Date Received:	10-30-08
Sample Matrix:	Soil	Date Analyzed:	11-05-08
Preservative:	Cool	Date Extracted:	11-05-08
Condition:	Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	2.3	0.9
Toluene	8.2	1.0
Ethylbenzene	1.2	1.0
p,m-Xylene	2.6	1.2
o-Xylene	3.7	0.9
Total BTEX	18.0	

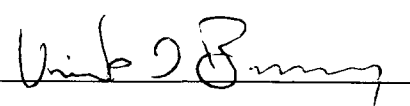
ND - Parameter not detected at the stated detection limit.

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


Analyst
Review

Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 7H	Date Reported:	11-07-08
Laboratory Number:	47969	Date Sampled:	10-29-08
Chain of Custody:	5669	Date Received:	10-30-08
Sample Matrix:	Soil	Date Analyzed:	11-05-08
Preservative:	Cool	Date Extracted:	11-05-08
Condition:	Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	5.9	0.9
Toluene	12.5	1.0
Ethylbenzene	1.2	1.0
p,m-Xylene	4.9	1.2
o-Xylene	4.1	0.9
Total BTEX	28.6	

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.

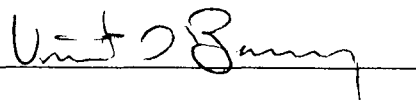
Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: JFJ Landfarm

Analyst



Review



Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 8G	Date Reported:	11-07-08
Laboratory Number:	47970	Date Sampled:	10-29-08
Chain of Custody:	5669	Date Received:	10-30-08
Sample Matrix:	Soil	Date Analyzed:	11-05-08
Preservative:	Cool	Date Extracted:	11-05-08
Condition:	Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	0.9
Toluene	5.6	1.0
Ethylbenzene	1.5	1.0
p,m-Xylene	1.2	1.2
o-Xylene	2.9	0.9
Total BTEX	11.2	

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.

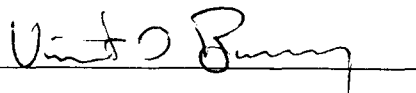
Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: JFJ Landfarm

Analyst



Review



Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 9G	Date Reported:	11-07-08
Laboratory Number:	47971	Date Sampled:	10-29-08
Chain of Custody:	5669	Date Received:	10-30-08
Sample Matrix:	Soil	Date Analyzed:	11-05-08
Preservative:	Cool	Date Extracted:	11-05-08
Condition:	Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	0.9
Toluene	5.0	1.0
Ethylbenzene	1.5	1.0
p,m-Xylene	1.5	1.2
o-Xylene	3.0	0.9
Total BTEX	11.0	

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

Analyst



Review



Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 11D	Date Reported:	11-07-08
Laboratory Number:	47972	Date Sampled:	10-29-08
Chain of Custody:	5669	Date Received:	10-30-08
Sample Matrix:	Soil	Date Analyzed:	11-05-08
Preservative:	Cool	Date Extracted:	11-05-08
Condition:	Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	0.9
Toluene	5.3	1.0
Ethylbenzene	1.4	1.0
p,m-Xylene	1.4	1.2
o-Xylene	3.0	0.9
Total BTEX	11.1	

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

Analyst

Review

Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 12C	Date Reported:	11-07-08
Laboratory Number:	47973	Date Sampled:	10-29-08
Chain of Custody:	5669	Date Received:	10-30-08
Sample Matrix:	Soil	Date Analyzed:	11-05-08
Preservative:	Cool	Date Extracted:	11-05-08
Condition:	Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	0.9
Toluene	6.1	1.0
Ethylbenzene	1.7	1.0
p,m-Xylene	2.2	1.2
o-Xylene	3.5	0.9
Total BTEX	13.5	

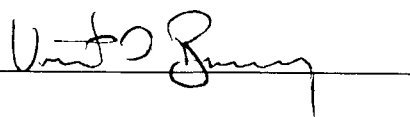
ND - Parameter not detected at the stated detection limit.

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

Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 13E	Date Reported:	11-07-08
Laboratory Number:	47974	Date Sampled:	10-29-08
Chain of Custody:	5669	Date Received:	10-30-08
Sample Matrix:	Soil	Date Analyzed:	11-05-08
Preservative:	Cool	Date Extracted:	11-05-08
Condition:	Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	0.9
Toluene	6.6	1.0
Ethylbenzene	1.2	1.0
p,m-Xylene	2.4	1.2
o-Xylene	3.5	0.9
Total BTEX	13.7	

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

Analyst



Review



Client:	N/A	Project #:	N/A
Sample ID:	11-05-BT QA/QC	Date Reported:	11-07-08
Laboratory Number:	47966	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	11-05-08
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF	C-Cal RF	%Diff	Blank Conc	Detect Limit
		Accept. Range 0 - 15%			
Benzene	4.6532E+007	4.6625E+007	0.2%	ND	0.1
Toluene	3.5626E+007	3.5697E+007	0.2%	ND	0.1
Ethylbenzene	2.7106E+007	2.7160E+007	0.2%	ND	0.1
p,m-Xylene	5.8233E+007	5.8350E+007	0.2%	ND	0.1
o-Xylene	2.6349E+007	2.6402E+007	0.2%	ND	0.1

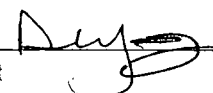
Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff	Accept Range	Detect Limit
Benzene	2.8	2.9	3.6%	0 - 30%	0.9
Toluene	9.2	9.0	2.2%	0 - 30%	1.0
Ethylbenzene	4.8	4.7	2.1%	0 - 30%	1.0
p,m-Xylene	11.0	11.7	6.4%	0 - 30%	1.2
o-Xylene	7.6	7.4	2.6%	0 - 30%	0.9

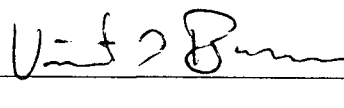
Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	2.8	50.0	51.8	98.1%	39 - 150
Toluene	9.2	50.0	56.9	96.1%	46 - 148
Ethylbenzene	4.8	50.0	52.8	96.4%	32 - 160
p,m-Xylene	11.0	100	108	97.2%	46 - 148
o-Xylene	7.6	50.0	54.6	94.8%	46 - 148

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 47964 and 47966 - 47974.

Analyst 

Review 



envirotech

Chloride

Analytical Laboratory

Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 2G	Date Reported:	11-10-08
Lab ID#:	47966	Date Sampled:	10-29-08
Sample Matrix:	Soil	Date Received:	10-30-08
Preservative:	Cool	Date Analyzed:	11-04-08
Condition:	Intact	Chain of Custody:	5669

Parameter

Concentration (mg/Kg)

Total Chloride

18.5

Reference: EPA Method 300.0, Determination of Inorganic Anions in Drinking Water by Ion Chromatography,

Comments: **JFJ Landfarm.**

Analyst

Review



envirotech

Chloride

Analytical Laboratory

Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 3A	Date Reported:	11-10-08
Lab ID#:	47967	Date Sampled:	10-29-08
Sample Matrix:	Soil	Date Received:	10-30-08
Preservative:	Cool	Date Analyzed:	11-04-08
Condition:	Intact	Chain of Custody:	5669

Parameter

Concentration (mg/Kg)

Total Chloride

69.1

Reference: EPA Method 300.0, Determination of Inorganic Anions in Drinking Water by Ion Chromatography.

Comments: **JFJ Landfarm.**

Vincent B...
Analyst

Christopher M. Walter
Review



envirotech

Analytical Laboratory

Chloride

Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 4F	Date Reported:	11-10-08
Lab ID#:	47968	Date Sampled:	10-29-08
Sample Matrix:	Soil	Date Received:	10-30-08
Preservative:	Cool	Date Analyzed:	11-04-08
Condition:	Intact	Chain of Custody:	5669

Parameter

Concentration (mg/Kg)

Total Chloride

34.5

Reference: EPA Method 300.0, Determination of Inorganic Anions in Drinking Water by Ion Chromatography,

Comments: **JFJ Landfarm.**

Analyst

Review

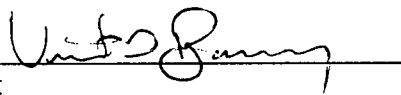
Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 7H	Date Reported:	11-10-08
Lab ID#:	47969	Date Sampled:	10-29-08
Sample Matrix:	Soil	Date Received:	10-30-08
Preservative:	Cool	Date Analyzed:	11-04-08
Condition:	Intact	Chain of Custody:	5669

Parameter	Concentration (mg/Kg)
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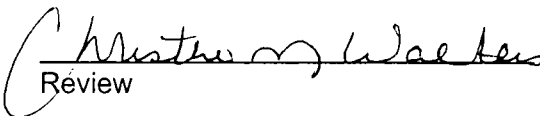
Total Chloride	173
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Reference: EPA Method 300.0, Determination of Inorganic Anions in Drinking Water by Ion Chromatography,

Comments: **JFJ Landfarm.**



Analyst



Review

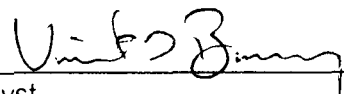
Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 8G	Date Reported:	11-10-08
Lab ID#:	47970	Date Sampled:	10-29-08
Sample Matrix:	Soil	Date Received:	10-30-08
Preservative:	Cool	Date Analyzed:	11-04-08
Condition:	Intact	Chain of Custody:	5669

Parameter	Concentration (mg/Kg)
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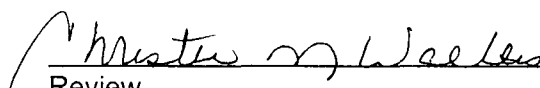
Total Chloride	7.89
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Reference: EPA Method 300.0, Determination of Inorganic Anions in Drinking Water by Ion Chromatography,

Comments: **JFJ Landfarm.**



Analyst



Review



envirotech

Chloride

Analytical Laboratory

Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 9G	Date Reported:	11-10-08
Lab ID#:	47971	Date Sampled:	10-29-08
Sample Matrix:	Soil	Date Received:	10-30-08
Preservative:	Cool	Date Analyzed:	11-04-08
Condition:	Intact	Chain of Custody:	5669

Parameter

Concentration (mg/Kg)

Total Chloride

175

Reference: EPA Method 300.0, Determination of Inorganic Anions in Drinking Water by Ion Chromatography.

Comments: **JFJ Landfarm.**

Vito B. B...
Analyst

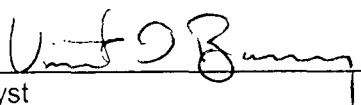
Christina M. W...
Review

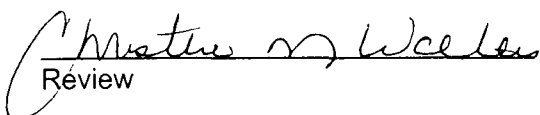
Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 11D	Date Reported:	11-10-08
Lab ID#:	47972	Date Sampled:	10-29-08
Sample Matrix:	Soil	Date Received:	10-30-08
Preservative:	Cool	Date Analyzed:	11-04-08
Condition:	Intact	Chain of Custody:	5669

Parameter**Concentration (mg/Kg)****Total Chloride****101**

Reference: EPA Method 300.0, Determination of Inorganic Anions in Drinking Water by Ion Chromatography,

Comments: **JFJ Landfarm.**



Analyst

Review



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Chloride

Analytical Laboratory

Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 12C	Date Reported:	11-10-08
Lab ID#:	47973	Date Sampled:	10-29-08
Sample Matrix:	Soil	Date Received:	10-30-08
Preservative:	Cool	Date Analyzed:	11-04-08
Condition:	Intact	Chain of Custody:	5669

Parameter

Concentration (mg/Kg)

Total Chloride

85.1

Reference: EPA Method 300.0, Determination of Inorganic Anions in Drinking Water by Ion Chromatography.

Comments: JFJ Landfarm.

Analyst

Review



envirotech

Chloride

Analytical Laboratory

Client:	Blagg/JFJ	Project #:	94034-0010
Sample ID:	Cell 13E	Date Reported:	11-10-08
Lab ID#:	47974	Date Sampled:	10-29-08
Sample Matrix:	Soil	Date Received:	10-30-08
Preservative:	Cool	Date Analyzed:	11-04-08
Condition:	Intact	Chain of Custody:	5669

Parameter

Concentration (mg/Kg)

Total Chloride

77.4

Reference: EPA Method 300.0, Determination of Inorganic Anions in Drinking Water by Ion Chromatography,

Comments: **JFJ Landfarm.**

Analyst

Review

BLAGG ENGINEERING, INC.

P.O. Box 87, Bloomfield, New Mexico 87413

Phone: (505)632-1199 Fax: (505)632-3903

July 31, 2008

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

RECEIVED

2008 AUG 4 PM 2 06

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 June 23-25, 2008.

Sampling protocol included collection of native soils below the treatment zone in each cell using a hand auger. Samples were submitted to Hall Analytical Laboratories for testing that included total petroleum hydrocarbons (TPH) by U.S. EPA Method 8015B, volatile hydrocarbons (BTEX) by U.S. EPA Method 8021B, RCRA metals by methods 6010B (arsenic, barium, cadmium, chromium, lead, selenium and silver) and 7471 (mercury). Samples were collect from active cell units 2a, 3e, 4h, 7g, 8g, 9e, 11e, 12c and 13g (Figure 1).

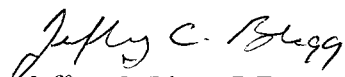
In addition to the testing outlined above, each sample was tested for chloride by US EPA Method 9056A. Referencing our telephone communication on July 17, 2008, the NMOCD stipulates chloride testing is to be by US EPA Method 300.1. However, BEI discussed the lab procedures with Hall Labs and was informed that Method 9056A is identical to Method 300.0. A recent memorandum from NMOCD dated July 24, 2008 (attached) clarifies that method 300.0 is acceptable for testing of soils for chloride. Future chain-of-custody forms will stipulate US EPA Method 300.0.

Another issue with respect to the analytical test results is with comparison standards for the various metals. The landfarm permit does not state an action level and a records search by BEI could not find that any background testing has been conducted to determine existing metals (or other regulated constituents) concentrations. Therefore, BEI suggests identifying potential undisturbed areas, both on the landfarm and on adjacent properties, to conduct background sampling. It is suggested that the sampling and testing protocol be developed with NMOCD input, and that regulatory sampling oversight be included in the QA/QC plan. Your suggestions on this would be appreciated.

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.

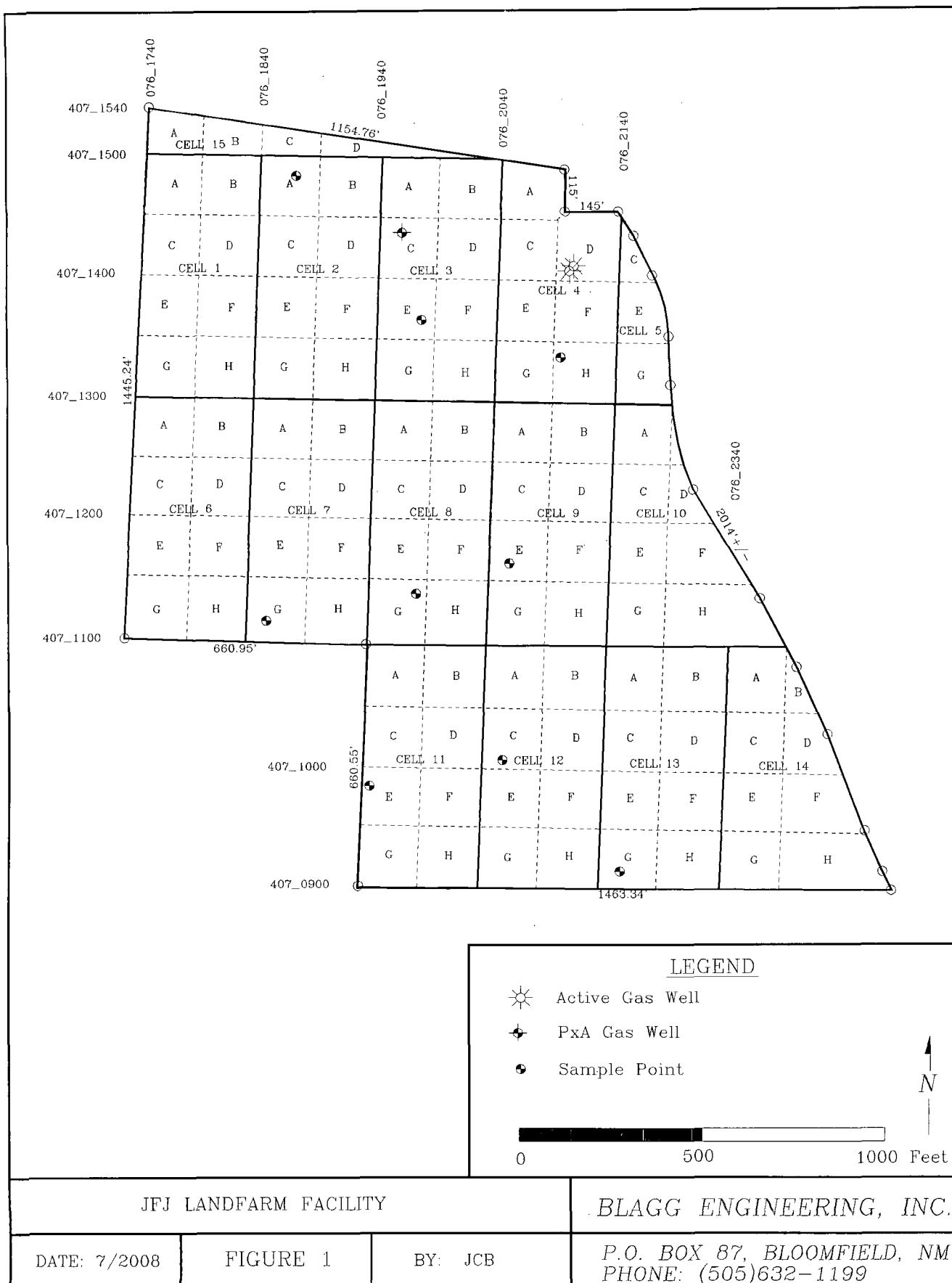


Jeffrey C. Blagg, P.E.

President

Attachments: Site Diagram
Analytical Test Reports

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



New Mexico Energy, Minerals and Natural Resources Department

Bill Richardson
Governor

Joanna Prukop
Cabinet Secretary
Reese Fullerton
Deputy Cabinet Secretary

Mark Fesmire
Division Director
Oil Conservation Division



July 24, 2008

MEMORANDUM

Clarification of analytical test method, EPA Method 300.1, for chloride in regards to 19.15.36 NMAC and 19.15.17 NMAC.

On June 16, 2008 a new regulation regarding the permitting, design and construction, operations and closure of pits, closed-loop systems, below-grade tanks, and sumps, 19.15.17 NMAC, went into effect. On February 14, 2007 the new surface waste management regulation, 19.15.36 NMAC, also went into effect. Each of these rules, 19.15.17 NMAC and 19.15.36 NMAC, established EPA test methods for chlorides.

The Oil Conservation Division (OCD) has received several inquiries regarding implementation of EPA Method 300.1 for chloride, as specified in the above referenced rules. In order to address these inquiries and to provide clarification to operators and laboratories, OCD wishes to identify the following test methods as "other approved methods" that OCD will consider acceptable in lieu of EPA Method 300.1, as specified in 19.15.17 NMAC and 19.15.36 NMAC:

EPA Method 300.0 (extraction utilizing deionized water)
Standard Method 4500B

If you have any questions regarding this matter, please contact Brad A. Jones of my staff at (505) 476-3487 or brad.a.jones@state.nm.us.

Sincerely,



Mark E. Fesmire
Director, Oil Conservation Division

MF/baj

cc: Daniel Sanchez, Enforcement & Compliance Manager, OCD, Santa Fe, NM
Wayne Price, Bureau Chief, Environmental Bureau, OCD, Santa Fe, NM
Chris Williams, District Supervisor, District I, OCD, Hobbs, NM
Tim Gum, District Supervisor, District II, OCD, Artesia, NM
Charlie Perrin, District Supervisor, District III, OCD, Aztec, NM
Ed Martin, District Supervisor, District IV, OCD, Santa Fe, NM
Brad A. Jones, Environmental Engineer, OCD, Santa Fe, NM





COVER LETTER

Monday, July 14, 2008

Jeff Blagg
Blagg Engineering
P. O. Box 87
Bloomfield, NM 87413
TEL: (505) 632-1199
FAX (505) 632-3903

RE: JFJ Landfarm

Order No.: 0806412

Dear Jeff Blagg:

Hall Environmental Analysis Laboratory, Inc. received 9 sample(s) on 6/27/2008 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,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman, Business Manager
Nancy McDuffie, Laboratory Manager

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



Hall Environmental Analysis Laboratory, Inc.

Date: 14-Jul-08

CLIENT: Blagg Engineering
Lab Order: 0806412
Project: JFJ Landfarm
Lab ID: 0806412-01

Client Sample ID: Cell 2A @ 2'-3'
Collection Date: 6/23/2008 1:00:00 PM
Date Received: 6/27/2008
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	6/30/2008 8:24:27 PM
Surr: DNOP	96.9	61.7-135		%REC	1	6/30/2008 8:24:27 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/2/2008 9:37:26 PM
Surr: BFB	98.1	84-138		%REC	1	7/2/2008 9:37:26 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	7/2/2008 9:37:26 PM
Toluene	ND	0.050		mg/Kg	1	7/2/2008 9:37:26 PM
Ethylbenzene	ND	0.050		mg/Kg	1	7/2/2008 9:37:26 PM
Xylenes, Total	ND	0.10		mg/Kg	1	7/2/2008 9:37:26 PM
Surr: 4-Bromofluorobenzene	107	81.4-117		%REC	1	7/2/2008 9:37:26 PM
EPA METHOD 9056A: ANIONS						Analyst: SLB
Chloride	240	1.5		mg/Kg	5	7/9/2008 2:10:13 PM
EPA METHOD 7471: MERCURY						Analyst: SNV
Mercury	ND	0.033		mg/Kg	1	7/2/2008 4:13:09 PM
EPA METHOD 6010B: SOIL METALS						Analyst: TES
Arsenic	3.2	2.5		mg/Kg	1	7/7/2008 3:28:18 PM
Barium	160	0.50		mg/Kg	5	7/7/2008 4:18:44 PM
Cadmium	ND	0.10		mg/Kg	1	7/7/2008 3:28:18 PM
Chromium	5.8	0.30		mg/Kg	1	7/7/2008 3:28:18 PM
Lead	3.8	0.25		mg/Kg	1	7/7/2008 3:28:18 PM
Selenium	ND	2.5		mg/Kg	1	7/7/2008 3:28:18 PM
Silver	ND	0.25		mg/Kg	1	7/7/2008 3:28:18 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: 14-Jul-08

CLIENT: Blagg Engineering
Lab Order: 0806412
Project: JFJ Landfarm
Lab ID: 0806412-02

Client Sample ID: Cell 3E @ 1.5'
Collection Date: 6/23/2008 1:25:00 PM
Date Received: 6/27/2008
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	6/30/2008 8:59:07 PM
Surr: DNOP	94.2	61.7-135		%REC	1	6/30/2008 8:59:07 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/2/2008 10:07:32 PM
Surr: BFB	91.6	84-138		%REC	1	7/2/2008 10:07:32 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	7/2/2008 10:07:32 PM
Toluene	ND	0.050		mg/Kg	1	7/2/2008 10:07:32 PM
Ethylbenzene	ND	0.050		mg/Kg	1	7/2/2008 10:07:32 PM
Xylenes, Total	ND	0.10		mg/Kg	1	7/2/2008 10:07:32 PM
Surr: 4-Bromofluorobenzene	99.2	81.4-117		%REC	1	7/2/2008 10:07:32 PM
EPA METHOD 9056A: ANIONS						Analyst: SLB
Chloride	130	1.5		mg/Kg	5	7/9/2008 2:27:38 PM
EPA METHOD 7471: MERCURY						Analyst: SNV
Mercury	ND	0.033		mg/Kg	1	7/2/2008 4:14:44 PM
EPA METHOD 6010B: SOIL METALS						Analyst: TES
Arsenic	4.7	2.5		mg/Kg	1	7/7/2008 3:37:21 PM
Barium	22	0.10		mg/Kg	1	7/7/2008 3:37:21 PM
Cadmium	ND	0.10		mg/Kg	1	7/7/2008 3:37:21 PM
Chromium	0.97	0.30		mg/Kg	1	7/7/2008 3:37:21 PM
Lead	2.6	0.25		mg/Kg	1	7/7/2008 3:37:21 PM
Selenium	ND	2.5		mg/Kg	1	7/7/2008 3:37:21 PM
Silver	ND	0.25		mg/Kg	1	7/7/2008 3:37:21 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: 14-Jul-08

CLIENT: Blagg Engineering
Lab Order: 0806412
Project: JFJ Landfarm
Lab ID: 0806412-03

Client Sample ID: Cell 4H @ 2'
Collection Date: 6/23/2008 2:00:00 PM
Date Received: 6/27/2008
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	6/30/2008 9:33:32 PM
Surr: DNOP	94.6	61.7-135		%REC	1	6/30/2008 9:33:32 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/3/2008 2:07:39 AM
Surr: BFB	91.1	84-138		%REC	1	7/3/2008 2:07:39 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	7/3/2008 2:07:39 AM
Toluene	ND	0.050		mg/Kg	1	7/3/2008 2:07:39 AM
Ethylbenzene	ND	0.050		mg/Kg	1	7/3/2008 2:07:39 AM
Xylenes, Total	ND	0.10		mg/Kg	1	7/3/2008 2:07:39 AM
Surr: 4-Bromofluorobenzene	97.2	81.4-117		%REC	1	7/3/2008 2:07:39 AM
EPA METHOD 9056A: ANIONS						Analyst: SLB
Chloride	4.1	1.5		mg/Kg	5	7/9/2008 2:45:03 PM
EPA METHOD 7471: MERCURY						Analyst: SNV
Mercury	ND	0.033		mg/Kg	1	7/2/2008 4:16:19 PM
EPA METHOD 6010B: SOIL METALS						Analyst: TES
Arsenic	ND	2.5		mg/Kg	1	7/7/2008 3:39:53 PM
Barium	83	0.50		mg/Kg	5	7/7/2008 4:21:16 PM
Cadmium	ND	0.10		mg/Kg	1	7/7/2008 3:39:53 PM
Chromium	1.8	0.30		mg/Kg	1	7/7/2008 3:39:53 PM
Lead	2.4	0.25		mg/Kg	1	7/7/2008 3:39:53 PM
Selenium	ND	2.5		mg/Kg	1	7/7/2008 3:39:53 PM
Silver	ND	0.25		mg/Kg	1	7/7/2008 3:39:53 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: 14-Jul-08

CLIENT: Blagg Engineering
 Lab Order: 0806412
 Project: JFJ Landfarm
 Lab ID: 0806412-04

Client Sample ID: Cell 11E @ 2'
 Collection Date: 6/25/2008 10:30:00 AM
 Date Received: 6/27/2008
 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	6/30/2008 10:07:58 PM
Surr: DNOP	93.4	61.7-135		%REC	1	6/30/2008 10:07:58 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/3/2008 2:37:43 AM
Surr: BFB	90.5	84-138		%REC	1	7/3/2008 2:37:43 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	7/3/2008 2:37:43 AM
Toluene	ND	0.050		mg/Kg	1	7/3/2008 2:37:43 AM
Ethylbenzene	ND	0.050		mg/Kg	1	7/3/2008 2:37:43 AM
Xylenes, Total	ND	0.10		mg/Kg	1	7/3/2008 2:37:43 AM
Surr: 4-Bromofluorobenzene	97.0	81.4-117		%REC	1	7/3/2008 2:37:43 AM
EPA METHOD 9056A: ANIONS						Analyst: SLB
Chloride	94	1.5		mg/Kg	5	7/9/2008 3:02:28 PM
EPA METHOD 7471: MERCURY						Analyst: SNV
Mercury	ND	0.033		mg/Kg	1	7/2/2008 4:17:54 PM
EPA METHOD 6010B: SOIL METALS						Analyst: TES
Arsenic	ND	2.5		mg/Kg	1	7/7/2008 3:42:23 PM
Barium	6.1	0.10		mg/Kg	1	7/7/2008 3:42:23 PM
Cadmium	ND	0.10		mg/Kg	1	7/7/2008 3:42:23 PM
Chromium	1.8	0.30		mg/Kg	1	7/7/2008 3:42:23 PM
Lead	1.8	0.25		mg/Kg	1	7/7/2008 3:42:23 PM
Selenium	ND	2.5		mg/Kg	1	7/7/2008 3:42:23 PM
Silver	ND	0.25		mg/Kg	1	7/7/2008 3:42:23 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: 14-Jul-08

CLIENT: Blagg Engineering
Lab Order: 0806412
Project: JFJ Landfarm
Lab ID: 0806412-05

Client Sample ID: Cell 12C @ 2'-3'
Collection Date: 6/25/2008 10:50:00 AM
Date Received: 6/27/2008
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	6/30/2008 10:42:35 PM
Surr: DNOP	96.9	61.7-135		%REC	1	6/30/2008 10:42:35 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/3/2008 3:07:42 AM
Surr: BFB	85.4	84-138		%REC	1	7/3/2008 3:07:42 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	7/3/2008 3:07:42 AM
Toluene	ND	0.050		mg/Kg	1	7/3/2008 3:07:42 AM
Ethylbenzene	ND	0.050		mg/Kg	1	7/3/2008 3:07:42 AM
Xylenes, Total	ND	0.10		mg/Kg	1	7/3/2008 3:07:42 AM
Surr: 4-Bromofluorobenzene	91.4	81.4-117		%REC	1	7/3/2008 3:07:42 AM
EPA METHOD 9056A: ANIONS						Analyst: SLB
Chloride	230	1.5		mg/Kg	5	7/9/2008 3:19:52 PM
EPA METHOD 7471: MERCURY						Analyst: SNV
Mercury	ND	0.033		mg/Kg	1	7/2/2008 4:19:29 PM
EPA METHOD 6010B: SOIL METALS						Analyst: TES
Arsenic	2.5	2.5		mg/Kg	1	7/7/2008 3:44:53 PM
Barium	75	0.50		mg/Kg	5	7/7/2008 4:23:46 PM
Cadmium	ND	0.10		mg/Kg	1	7/7/2008 3:44:53 PM
Chromium	1.6	0.30		mg/Kg	1	7/7/2008 3:44:53 PM
Lead	2.7	0.25		mg/Kg	1	7/7/2008 3:44:53 PM
Selenium	ND	2.5		mg/Kg	1	7/7/2008 3:44:53 PM
Silver	ND	0.25		mg/Kg	1	7/7/2008 3:44:53 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: 14-Jul-08

CLIENT: Blagg Engineering
 Lab Order: 0806412
 Project: JFJ Landfarm
 Lab ID: 0806412-06

Client Sample ID: Cell 13G @ 2'
 Collection Date: 6/25/2008 11:15:00 AM
 Date Received: 6/27/2008
 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	6/30/2008 11:17:00 PM
Surr: DNOP	92.6	61.7-135		%REC	1	6/30/2008 11:17:00 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/3/2008 3:37:42 AM
Surr: BFB	91.6	84-138		%REC	1	7/3/2008 3:37:42 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	7/3/2008 3:37:42 AM
Toluene	ND	0.050		mg/Kg	1	7/3/2008 3:37:42 AM
Ethylbenzene	ND	0.050		mg/Kg	1	7/3/2008 3:37:42 AM
Xylenes, Total	ND	0.10		mg/Kg	1	7/3/2008 3:37:42 AM
Surr: 4-Bromofluorobenzene	99.4	81.4-117		%REC	1	7/3/2008 3:37:42 AM
EPA METHOD 9056A: ANIONS						Analyst: SLB
Chloride	65	1.5		mg/Kg	5	7/9/2008 3:37:16 PM
EPA METHOD 7471: MERCURY						Analyst: SNV
Mercury	ND	0.033		mg/Kg	1	7/2/2008 4:32:41 PM
EPA METHOD 6010B: SOIL METALS						Analyst: TES
Arsenic	ND	2.5		mg/Kg	1	7/7/2008 3:47:21 PM
Barium	7.3	0.10		mg/Kg	1	7/7/2008 3:47:21 PM
Cadmium	ND	0.10		mg/Kg	1	7/7/2008 3:47:21 PM
Chromium	0.94	0.30		mg/Kg	1	7/7/2008 3:47:21 PM
Lead	1.5	0.25		mg/Kg	1	7/7/2008 3:47:21 PM
Selenium	ND	2.5		mg/Kg	1	7/7/2008 3:47:21 PM
Silver	ND	0.25		mg/Kg	1	7/7/2008 3:47:21 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: 14-Jul-08

CLIENT: Blagg Engineering
Lab Order: 0806412
Project: JFJ Landfarm
Lab ID: 0806412-07

Client Sample ID: Cell 9E @ 2'-3'
Collection Date: 6/25/2008 1:40:00 PM
Date Received: 6/27/2008
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	6/30/2008 11:51:22 PM
Surr: DNOP	96.7	61.7-135		%REC	1	6/30/2008 11:51:22 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/3/2008 4:07:39 AM
Surr: BFB	88.9	84-138		%REC	1	7/3/2008 4:07:39 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	7/3/2008 4:07:39 AM
Toluene	ND	0.050		mg/Kg	1	7/3/2008 4:07:39 AM
Ethylbenzene	ND	0.050		mg/Kg	1	7/3/2008 4:07:39 AM
Xylenes, Total	ND	0.10		mg/Kg	1	7/3/2008 4:07:39 AM
Surr: 4-Bromofluorobenzene	96.2	81.4-117		%REC	1	7/3/2008 4:07:39 AM
EPA METHOD 9056A: ANIONS						Analyst: SLB
Chloride	15	1.5		mg/Kg	5	7/9/2008 3:54:41 PM
EPA METHOD 7471: MERCURY						Analyst: SNV
Mercury	ND	0.033		mg/Kg	1	7/2/2008 4:21:07 PM
EPA METHOD 6010B: SOIL METALS						Analyst: TES
Arsenic	ND	2.5		mg/Kg	1	7/7/2008 3:49:50 PM
Barium	120	0.50		mg/Kg	5	7/7/2008 4:26:15 PM
Cadmium	ND	0.10		mg/Kg	1	7/7/2008 3:49:50 PM
Chromium	1.1	0.30		mg/Kg	1	7/7/2008 3:49:50 PM
Lead	1.8	0.25		mg/Kg	1	7/7/2008 3:49:50 PM
Selenium	ND	2.5		mg/Kg	1	7/7/2008 3:49:50 PM
Silver	ND	0.25		mg/Kg	1	7/7/2008 3:49:50 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: 14-Jul-08

CLIENT: Blagg Engineering
Lab Order: 0806412
Project: JFJ Landfarm
Lab ID: 0806412-08

Client Sample ID: Cell 8G @ 2'-3'
Collection Date: 6/25/2008 2:05:00 PM
Date Received: 6/27/2008
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	7/1/2008 12:25:47 AM
Surr: DNOP	95.9	61.7-135		%REC	1	7/1/2008 12:25:47 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/3/2008 4:37:38 AM
Surr: BFB	88.3	84-138		%REC	1	7/3/2008 4:37:38 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	7/3/2008 4:37:38 AM
Toluene	ND	0.050		mg/Kg	1	7/3/2008 4:37:38 AM
Ethylbenzene	ND	0.050		mg/Kg	1	7/3/2008 4:37:38 AM
Xylenes, Total	ND	0.10		mg/Kg	1	7/3/2008 4:37:38 AM
Surr: 4-Bromofluorobenzene	96.1	81.4-117		%REC	1	7/3/2008 4:37:38 AM
EPA METHOD 9056A: ANIONS						Analyst: SLB
Chloride	14	1.5		mg/Kg	5	7/9/2008 4:12:05 PM
EPA METHOD 7471: MERCURY						Analyst: SNV
Mercury	ND	0.033		mg/Kg	1	7/2/2008 4:22:43 PM
EPA METHOD 6010B: SOIL METALS						Analyst: TES
Arsenic	3.2	2.5		mg/Kg	1	7/7/2008 3:52:17 PM
Barium	120	0.50		mg/Kg	5	7/7/2008 4:28:42 PM
Cadmium	ND	0.10		mg/Kg	1	7/7/2008 3:52:17 PM
Chromium	1.7	0.30		mg/Kg	1	7/7/2008 3:52:17 PM
Lead	2.7	0.25		mg/Kg	1	7/7/2008 3:52:17 PM
Selenium	ND	2.5		mg/Kg	1	7/7/2008 3:52:17 PM
Silver	ND	0.25		mg/Kg	1	7/7/2008 3:52:17 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: 14-Jul-08

CLIENT: Blagg Engineering
Lab Order: 0806412
Project: JFJ Landfarm
Lab ID: 0806412-09

Client Sample ID: Cell 7G @ 2'
Collection Date: 6/25/2008 2:45:00 PM
Date Received: 6/27/2008
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	7/1/2008 1:00:15 AM
Surr: DNOP	98.6	61.7-135		%REC	1	7/1/2008 1:00:15 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/3/2008 5:07:32 AM
Surr: BFB	89.2	84-138		%REC	1	7/3/2008 5:07:32 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	7/3/2008 5:07:32 AM
Toluene	ND	0.050		mg/Kg	1	7/3/2008 5:07:32 AM
Ethylbenzene	ND	0.050		mg/Kg	1	7/3/2008 5:07:32 AM
Xylenes, Total	ND	0.10		mg/Kg	1	7/3/2008 5:07:32 AM
Surr: 4-Bromofluorobenzene	95.9	81.4-117		%REC	1	7/3/2008 5:07:32 AM
EPA METHOD 9056A: ANIONS						Analyst: SLB
Chloride	5.7	1.5		mg/Kg	5	7/9/2008 5:04:19 PM
EPA METHOD 7471: MERCURY						Analyst: SNV
Mercury	ND	0.033		mg/Kg	1	7/2/2008 4:24:21 PM
EPA METHOD 6010B: SOIL METALS						Analyst: TES
Arsenic	ND	2.5		mg/Kg	1	7/7/2008 4:02:14 PM
Barium	16	0.10		mg/Kg	1	7/7/2008 4:02:14 PM
Cadmium	ND	0.10		mg/Kg	1	7/7/2008 4:02:14 PM
Chromium	1.2	0.30		mg/Kg	1	7/7/2008 4:02:14 PM
Lead	2.3	0.25		mg/Kg	1	7/7/2008 4:02:14 PM
Selenium	ND	2.5		mg/Kg	1	7/7/2008 4:02:14 PM
Silver	ND	0.25		mg/Kg	1	7/7/2008 4:02:14 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

QA/QC SUMMARY REPORT

Client: Blagg Engineering
Project: JFJ Landfarm

Work Order: 0806412

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 9056A: Anions

Sample ID: MB-16415		MBLK				Batch ID: 16415	Analysis Date: 7/9/2008 10:06:31 AM
Chloride	ND	mg/Kg	0.30				
Sample ID: LCS-16415		LCS				Batch ID: 16415	Analysis Date: 7/9/2008 10:23:56 AM
Chloride	14.56	mg/Kg	0.30	97.1	90	110	

Method: EPA Method 8015B: Diesel Range Organics

Sample ID: 0806412-09AMSD		MSD				Batch ID: 16354	Analysis Date: 7/1/2008 3:51:57 PM
Diesel Range Organics (DRO)	49.81	mg/Kg	10	71.2	67.4	117	3.20 17.4
Sample ID: MB-16353		MBLK				Batch ID: 16353	Analysis Date: 6/30/2008 1:28:27 PM
Diesel Range Organics (DRO)	ND	mg/Kg	10				
Sample ID: MB-16354		MBLK				Batch ID: 16354	Analysis Date: 6/30/2008 3:12:34 PM
Diesel Range Organics (DRO)	ND	mg/Kg	10				
Sample ID: LCS-16353		LCS				Batch ID: 16353	Analysis Date: 6/30/2008 2:03:08 PM
Diesel Range Organics (DRO)	41.82	mg/Kg	10	83.6	64.6	116	
Sample ID: LCS-16354		LCS				Batch ID: 16354	Analysis Date: 6/30/2008 3:47:18 PM
Diesel Range Organics (DRO)	39.22	mg/Kg	10	78.4	64.6	116	
Sample ID: LCSD-16353		LCSD				Batch ID: 16353	Analysis Date: 6/30/2008 2:37:50 PM
Diesel Range Organics (DRO)	40.34	mg/Kg	10	80.7	64.6	116	3.60 17.4
Sample ID: LCSD-16354		LCSD				Batch ID: 16354	Analysis Date: 6/30/2008 4:22:00 PM
Diesel Range Organics (DRO)	42.38	mg/Kg	10	84.8	64.6	116	7.76 17.4
Sample ID: 0806412-09AMS		MS				Batch ID: 16354	Analysis Date: 7/1/2008 3:16:59 PM
Diesel Range Organics (DRO)	48.24	mg/Kg	10	68.0	67.4	117	

Method: EPA Method 8015B: Gasoline Range

Sample ID: 0806412-03A MSD		MSD				Batch ID: 16352	Analysis Date: 7/3/2008 10:41:25 AM
Gasoline Range Organics (GRO)	24.05	mg/Kg	5.0	87.0	69.5	120	4.15 11.6
Sample ID: MB-16352		MBLK				Batch ID: 16352	Analysis Date: 7/3/2008 1:37:37 AM
Gasoline Range Organics (GRO)	ND	mg/Kg	5.0				
Sample ID: LCS-16352		LCS				Batch ID: 16352	Analysis Date: 7/3/2008 12:07:41 AM
Gasoline Range Organics (GRO)	26.55	mg/Kg	5.0	95.4	69.5	120	
Sample ID: 0806412-03A MS		MS				Batch ID: 16352	Analysis Date: 7/2/2008 11:07:39 PM
Gasoline Range Organics (GRO)	25.07	mg/Kg	5.0	91.1	69.5	120	

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: Blagg Engineering
Project: JFJ Landfarm

Work Order: 0806412

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8021B: Volatiles

Sample ID: 0806412-03A MSD MSD Batch ID: 16352 Analysis Date: 7/2/2008 11:37:41 PM

Benzene	0.3162	mg/Kg	0.050	113	78.8	132	0.412	27	
Toluene	2.200	mg/Kg	0.050	110	78.9	112	0.826	19	
Ethylbenzene	0.4428	mg/Kg	0.050	111	69.3	125	0.563	10	
Xylenes, Total	2.599	mg/Kg	0.10	113	73	128	0.116	13	

Sample ID: MB-16352 MBLK Batch ID: 16352 Analysis Date: 7/3/2008 1:37:37 AM

Benzene	ND	mg/Kg	0.050						
Toluene	ND	mg/Kg	0.050						
Ethylbenzene	ND	mg/Kg	0.050						
Xylenes, Total	ND	mg/Kg	0.10						

Sample ID: LCS-16352 LCS Batch ID: 16352 Analysis Date: 7/3/2008 12:07:41 AM

Benzene	0.3189	mg/Kg	0.050	114	78.8	132			
Toluene	2.176	mg/Kg	0.050	108	78.9	112			
Ethylbenzene	0.4358	mg/Kg	0.050	109	69.3	125			
Xylenes, Total	2.590	mg/Kg	0.10	113	73	128			

Sample ID: 0806412-03A MS Batch ID: 16352 Analysis Date: 7/2/2008 11:07:39 PM

Benzene	0.3149	mg/Kg	0.050	112	78.8	132			
Toluene	2.181	mg/Kg	0.050	109	78.9	112			
Ethylbenzene	0.4453	mg/Kg	0.050	111	69.3	125			
Xylenes, Total	2.596	mg/Kg	0.10	113	73	128			

Method: EPA Method 7471: Mercury

Sample ID: 0806412-06AMSD MSD Batch ID: 16393 Analysis Date: 7/2/2008 4:36:00 PM

Mercury	0.1710	mg/Kg	0.033	104	75	125	1.36	20	
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Sample ID: MBLK-16393 MBLK Batch ID: 16393 Analysis Date: 7/2/2008 4:10:02 PM

Mercury	ND	mg/Kg	0.033						
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Sample ID: LCS1-16393 LCS Batch ID: 16393 Analysis Date: 7/2/2008 4:11:35 PM

Mercury	0.1757	mg/Kg	0.033	105	80	120			
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Sample ID: 0806412-06AMS MS Batch ID: 16393 Analysis Date: 7/2/2008 4:34:20 PM

Mercury	0.1687	mg/Kg	0.033	102	75	125			
---------	--------	-------	-------	-----	----	-----	--	--	--

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: Blagg Engineering
Project: JFJ Landfarm

Work Order: 0806412

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
---------	--------	-------	-----	------	----------	-----------	------	----------	------

Method: EPA Method 6010B: Soil Metals

Sample ID: 0806412-06AMSD

MSD

Batch ID: 16392

Analysis Date: 7/7/2008 4:16:13 PM

Arsenic	22.09	mg/Kg	2.5	89.3	75	125	3.36	30
Barium	28.65	mg/Kg	0.10	86.4	75	125	0.841	30
Cadmium	21.33	mg/Kg	0.10	86.2	75	125	0.622	30
Chromium	22.29	mg/Kg	0.30	86.3	75	125	2.37	30
Lead	22.50	mg/Kg	0.25	84.8	75	125	2.35	30
Selenium	20.16	mg/Kg	2.5	81.5	75	125	2.41	30
Silver	21.71	mg/Kg	0.25	87.8	75	125	0.324	30

Sample ID: MBLK-16392

MBLK

Batch ID: 16392

Analysis Date: 7/7/2008 3:34:56 PM

Arsenic	ND	mg/Kg	2.5					
Barium	ND	mg/Kg	0.10					
Cadmium	ND	mg/Kg	0.10					
Chromium	ND	mg/Kg	0.30					
Lead	ND	mg/Kg	0.25					
Selenium	ND	mg/Kg	2.5					

Sample ID: LCS1-16392

LCS

Batch ID: 16392

Analysis Date: 7/7/2008 3:25:49 PM

Arsenic	24.43	mg/Kg	2.5	97.7	80	120		
Barium	22.99	mg/Kg	0.10	91.6	80	120		
Cadmium	23.41	mg/Kg	0.10	93.4	80	120		
Chromium	23.42	mg/Kg	0.30	93.7	80	120		
Lead	23.22	mg/Kg	0.25	92.3	80	120		
Selenium	23.61	mg/Kg	2.5	89.5	80	120		

Sample ID: 0806412-06AMS

MS

Batch ID: 16392

Analysis Date: 7/7/2008 4:11:12 PM

Arsenic	22.84	mg/Kg	2.5	91.6	75	125		
Barium	28.89	mg/Kg	0.10	86.8	75	125		
Cadmium	21.47	mg/Kg	0.10	86.1	75	125		
Chromium	22.82	mg/Kg	0.30	87.8	75	125		
Lead	23.04	mg/Kg	0.25	86.3	75	125		
Selenium	19.68	mg/Kg	2.5	78.9	75	125		
Silver	21.78	mg/Kg	0.25	87.4	75	125		

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 BLAGG

Date Received:

6/27/2008

Work Order Number 0806412

Received by: ARS

Checklist completed by:

Mya Shonun
Signature

6/27/08
Date

Sample ID labels checked by:

TS
Initials

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 - Preservation labels on bottle and cap match?	Yes ☐	No ☐	N/A ☒
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☒

Container/Temp Blank temperature?

4°

<6° C Acceptable

If given sufficient time to cool.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

BLAGG ENGINEERING, INC.

P.O. Box 87, Bloomfield, New Mexico 87413

Phone: (505)632-1199 Fax: (505)632-3903

RECEIVED

2008 APR 2 PM 3 33

March 31, 2008

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

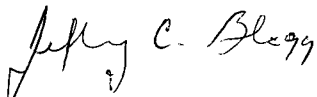
Dear Mr. Jones:

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 March 19-20, 2008.

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 collected from active cell units 2h, 3h, 4g, 7b, 8c, 9c, 11h, 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.

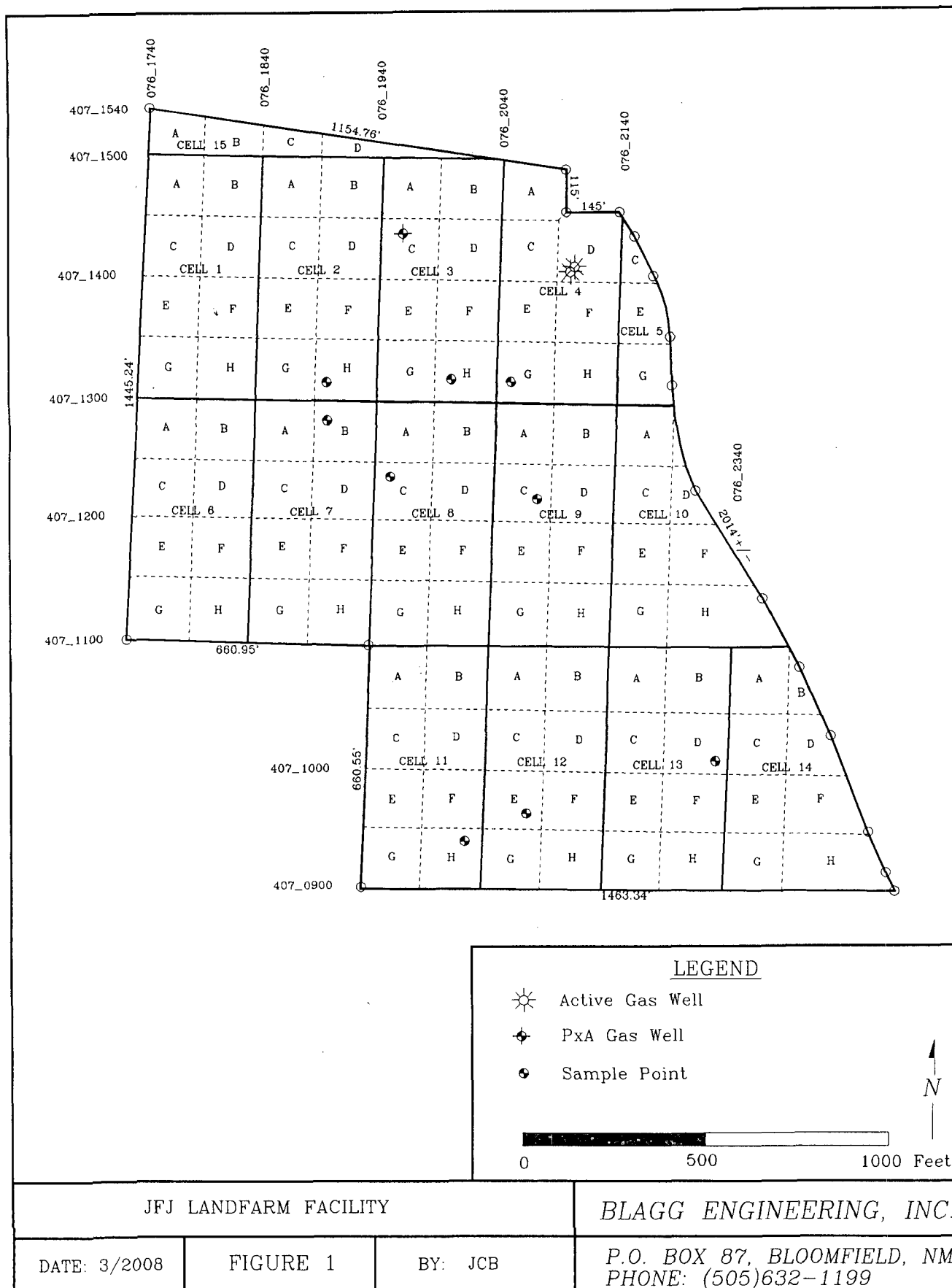
Respectfully submitted:
Blagg Engineering, Inc.



Jeffrey C. Blagg, P.E.
President

Attachments: Site Diagram
Analytical Test Reports

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



CHAIN OF CUSTODY RECORD

4059

Client:		Project Name / Location:		ANALYSIS / PARAMETERS										Date		Time																			
Client Address:		Sampler Name:		Sample		Lab No.		Sample Matrix		No./Volume of Containers		Preservative		TPH (Method 8015)		BTEX (Method 8021)		VOC (Method 8260)		RCRA 8 Metals		Cation / Anion		RCI		TCLP with H/P		PAH		TPH (418.1)		Sample Cool		Sample Intact	
Client Phone No.:		Client No.:		Sample Date		Sample Time		Sample Matrix		No./Volume of Containers		Preservative		TPH (Method 8015)		BTEX (Method 8021)		VOC (Method 8260)		RCRA 8 Metals		Cation / Anion		RCI		TCLP with H/P		PAH		TPH (418.1)		Sample Cool		Sample Intact	
BAGG/IEI		JFJ LANDFARM		1110		1110		SOIL		1-402				X		X																✓		✓	
CELL 3H		"		1130		1130		"		"				X		X																✓		✓	
CELL 2H		"		1200		1200		"		"				X		X																✓		✓	
CELL 7B		"		1220		1220		"		"				X		X																✓		✓	
CELL 8C		"		1245		1245		"		"				X		X																✓		✓	
CELL 9C		3/20/03		0930		0930		"		"				X		X																✓		✓	
CELL 11H		"		0955		0955		"		"				X		X																✓		✓	
CELL 12E		"		1025		1025		"		"				X		X																✓		✓	
CELL 13D		"		1100		1100		"		"				X		X																✓		✓	
Relinquished by: (Signature)		Jeff Blagg		3/20/03		1504		3/20/03		1504				Received by: (Signature)		Received by: (Signature)																			
Relinquished by: (Signature)														Received by: (Signature)		Received by: (Signature)																			
Relinquished by: (Signature)														Received by: (Signature)		Received by: (Signature)																			

ENVIROTECH INC.

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

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

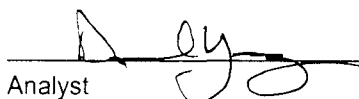
Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 4G	Date Reported:	03-24-08
Laboratory Number:	44598	Date Sampled:	03-19-08
Chain of Custody No:	4059	Date Received:	03-20-08
Sample Matrix:	Soil	Date Extracted:	03-21-08
Preservative:	Cool	Date Analyzed:	03-24-08
Condition:	Cool & Intact	Analysis Requested:	8015 TPH

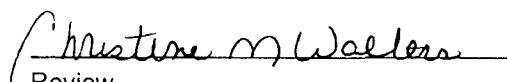
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

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


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

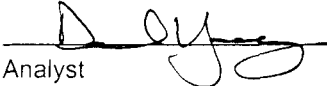
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Sample ID:	Cell 3H	Date Reported:	03-24-08
Laboratory Number:	44599	Date Sampled:	03-19-08
Chain of Custody No:	4059	Date Received:	03-20-08
Sample Matrix:	Soil	Date Extracted:	03-21-08
Preservative:	Cool	Date Analyzed:	03-24-08
Condition:	Cool & Intact	Analysis Requested:	8015 TPH

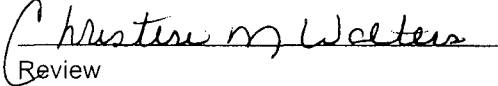
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

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

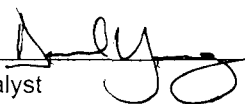
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Sample ID:	Cell 2H	Date Reported:	03-24-08
Laboratory Number:	44600	Date Sampled:	03-19-08
Chain of Custody No:	4059	Date Received:	03-20-08
Sample Matrix:	Soil	Date Extracted:	03-21-08
Preservative:	Cool	Date Analyzed:	03-24-08
Condition:	Cool & Intact	Analysis Requested:	8015 TPH

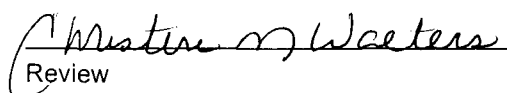
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

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 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

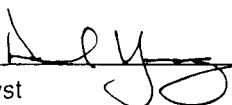
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Sample ID:	Cell 7B	Date Reported:	03-24-08
Laboratory Number:	44601	Date Sampled:	03-19-08
Chain of Custody No:	4059	Date Received:	03-20-08
Sample Matrix:	Soil	Date Extracted:	03-21-08
Preservative:	Cool	Date Analyzed:	03-24-08
Condition:	Cool & Intact	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

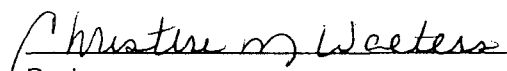
ND - Parameter not detected at the stated detection limit.

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

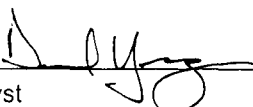
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Laboratory Number:	44602	Date Sampled:	03-19-08
Chain of Custody No:	4059	Date Received:	03-20-08
Sample Matrix:	Soil	Date Extracted:	03-21-08
Preservative:	Cool	Date Analyzed:	03-24-08
Condition:	Cool & Intact	Analysis Requested:	8015 TPH

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

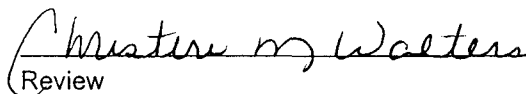
ND - Parameter not detected at the stated detection limit.

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

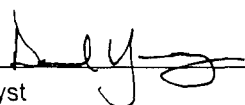
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Sample ID:	Cell 9C	Date Reported:	03-24-08
Laboratory Number:	44603	Date Sampled:	03-20-08
Chain of Custody No:	4059	Date Received:	03-20-08
Sample Matrix:	Soil	Date Extracted:	03-21-08
Preservative:	Cool	Date Analyzed:	03-24-08
Condition:	Cool & Intact	Analysis Requested:	8015 TPH

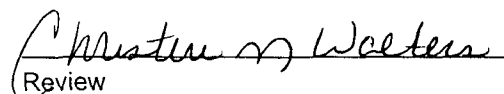
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

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


Review

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

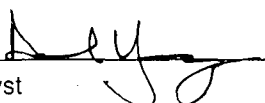
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Sample ID:	Cell 11H	Date Reported:	03-24-08
Laboratory Number:	44604	Date Sampled:	03-20-08
Chain of Custody No:	4059	Date Received:	03-20-08
Sample Matrix:	Soil	Date Extracted:	03-21-08
Preservative:	Cool	Date Analyzed:	03-24-08
Condition:	Cool & Intact	Analysis Requested:	8015 TPH

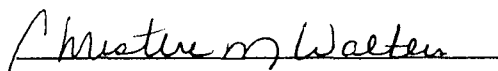
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	2.3	0.1
Total Petroleum Hydrocarbons	2.3	0.2

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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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

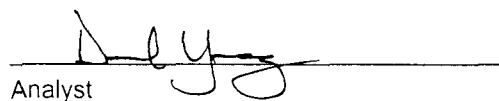
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Sample ID:	Cell 12E	Date Reported:	03-24-08
Laboratory Number:	44605	Date Sampled:	03-20-08
Chain of Custody No:	4059	Date Received:	03-20-08
Sample Matrix:	Soil	Date Extracted:	03-21-08
Preservative:	Cool	Date Analyzed:	03-24-08
Condition:	Cool & Intact	Analysis Requested:	8015 TPH

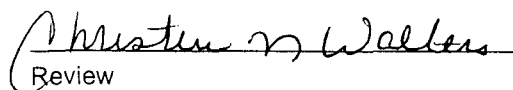
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	0.9	0.1
Total Petroleum Hydrocarbons	0.9	0.2

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.**


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

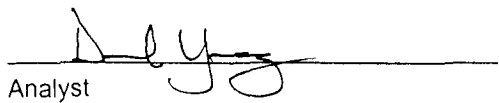
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Laboratory Number:	44605	Date Sampled:	03-20-08
Chain of Custody No:	4059	Date Received:	03-20-08
Sample Matrix:	Soil	Date Extracted:	03-21-08
Preservative:	Cool	Date Analyzed:	03-24-08
Condition:	Cool & Intact	Analysis Requested:	8015 TPH

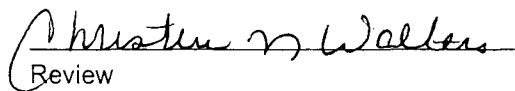
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	0.9	0.1
Total Petroleum Hydrocarbons	0.9	0.2

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.**


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

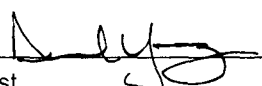
Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 13D	Date Reported:	03-24-08
Laboratory Number:	44606	Date Sampled:	03-20-08
Chain of Custody No:	4059	Date Received:	03-20-08
Sample Matrix:	Soil	Date Extracted:	03-21-08
Preservative:	Cool	Date Analyzed:	03-24-08
Condition:	Cool & Intact	Analysis 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

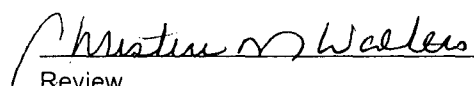
ND - Parameter not detected at the stated detection limit.

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

Comments: **JFJ Landfarm.**



Analyst



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:	03-24-08 QA/QC	Date Reported:	03-25-08
Laboratory Number:	44598	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	03-24-08
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	9.8102E+002	9.8141E+002	0.04%	0 - 15%
Diesel Range C10 - C28	05-07-07	1.0047E+003	1.0051E+003	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%

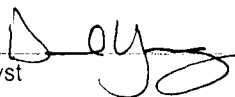
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	ND	250	250	100%	75 - 125%
Diesel Range C10 - C28	ND	250	250	100%	75 - 125%

ND - Parameter not detected at the stated detection limit.

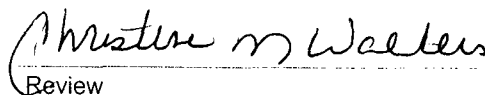
References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: QA/QC for Samples 44598 - 44607.

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 4G	Date Reported:	03-25-08
Laboratory Number:	44598	Date Sampled:	03-19-08
Chain of Custody:	4059	Date Received:	03-20-08
Sample Matrix:	Soil	Date Analyzed:	03-24-08
Preservative:	Cool	Date Extracted:	03-21-08
Condition:	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	

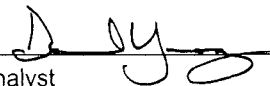
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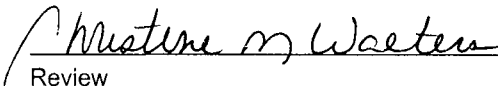
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	96.0 %
	1,4-difluorobenzene	96.0 %
	Bromochlorobenzene	96.0 %

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.

Comments: JFJ Landfarm.


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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:	03-25-08
Laboratory Number:	44599	Date Sampled:	03-19-08
Chain of Custody:	4059	Date Received:	03-20-08
Sample Matrix:	Soil	Date Analyzed:	03-24-08
Preservative:	Cool	Date Extracted:	03-21-08
Condition:	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	

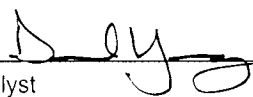
ND - Parameter not detected at the stated detection limit.

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

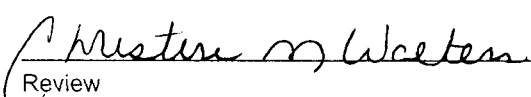
References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

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

Comments: JFJ Landfarm.



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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:	03-25-08
Laboratory Number:	44600	Date Sampled:	03-19-08
Chain of Custody:	4059	Date Received:	03-20-08
Sample Matrix:	Soil	Date Analyzed:	03-24-08
Preservative:	Cool	Date Extracted:	03-21-08
Condition:	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	

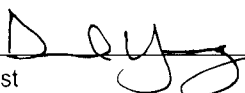
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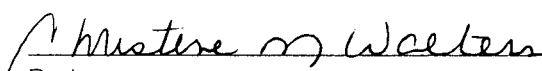
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	96.0 %
	1,4-difluorobenzene	96.0 %
	Bromochlorobenzene	96.0 %

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.

Comments: JFJ Landfarm.


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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 7B	Date Reported:	03-25-08
Laboratory Number:	44601	Date Sampled:	03-19-08
Chain of Custody:	4059	Date Received:	03-20-08
Sample Matrix:	Soil	Date Analyzed:	03-24-08
Preservative:	Cool	Date Extracted:	03-21-08
Condition:	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	

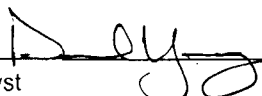
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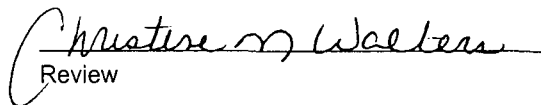
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	97.0 %
	1,4-difluorobenzene	97.0 %
	Bromochlorobenzene	97.0 %

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 / IEI	Project #:	94034-010
Sample ID:	Cell 8C	Date Reported:	03-25-08
Laboratory Number:	44602	Date Sampled:	03-19-08
Chain of Custody:	4059	Date Received:	03-20-08
Sample Matrix:	Soil	Date Analyzed:	03-24-08
Preservative:	Cool	Date Extracted:	03-21-08
Condition:	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	

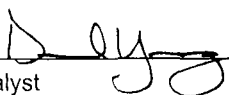
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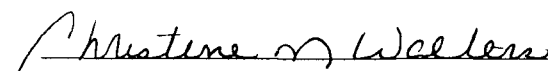
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	98.0 %
	1,4-difluorobenzene	98.0 %
	Bromochlorobenzene	98.0 %

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 / IEI	Project #:	94034-010
Sample ID:	Cell 9C	Date Reported:	03-25-08
Laboratory Number:	44603	Date Sampled:	03-20-08
Chain of Custody:	4059	Date Received:	03-20-08
Sample Matrix:	Soil	Date Analyzed:	03-24-08
Preservative:	Cool	Date Extracted:	03-21-08
Condition:	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 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 11H	Date Reported:	03-25-08
Laboratory Number:	44604	Date Sampled:	03-20-08
Chain of Custody:	4059	Date Received:	03-20-08
Sample Matrix:	Soil	Date Analyzed:	03-24-08
Preservative:	Cool	Date Extracted:	03-21-08
Condition:	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.

Comments: JFJ Landfarm.

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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 12E	Date Reported:	03-25-08
Laboratory Number:	44605	Date Sampled:	03-20-08
Chain of Custody:	4059	Date Received:	03-20-08
Sample Matrix:	Soil	Date Analyzed:	03-24-08
Preservative:	Cool	Date Extracted:	03-21-08
Condition:	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.

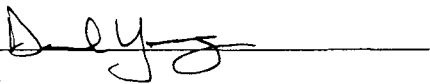
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	97.0 %
	1,4-difluorobenzene	97.0 %
	Bromochlorobenzene	97.0 %

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

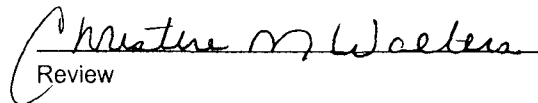
Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: JFJ Landfarm.

Analyst



Review



ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg / IEI	Project #:	94034-010
Sample ID:	Cell 13D	Date Reported:	03-25-08
Laboratory Number:	44606	Date Sampled:	03-20-08
Chain of Custody:	4059	Date Received:	03-20-08
Sample Matrix:	Soil	Date Analyzed:	03-24-08
Preservative:	Cool	Date Extracted:	03-21-08
Condition:	Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	6.7	0.9
Toluene	50.1	1.0
Ethylbenzene	ND	1.0
p,m-Xylene	41.2	1.2
o-Xylene	6.5	0.9
Total BTEX	104	

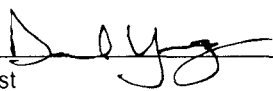
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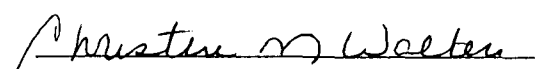
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	96.0 %
	1,4-difluorobenzene	96.0 %
	Bromochlorobenzene	96.0 %

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.

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:	03-24-BTEX QA/QC	Date Reported:	03-25-08
Laboratory Number:	44598	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	03-24-0808
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF:	C-Cal RF:	%Diff.	Blank Conc	Detect. Limit
		Accept. Range 0 - 15%			
Benzene	4.1512E+007	4.1596E+007	0.2%	ND	0.1
Toluene	3.4365E+007	3.4433E+007	0.2%	ND	0.1
Ethylbenzene	2.5793E+007	2.5845E+007	0.2%	ND	0.1
p,m-Xylene	5.2829E+007	5.2934E+007	0.2%	ND	0.1
o-Xylene	2.3917E+007	2.3965E+007	0.2%	ND	0.1

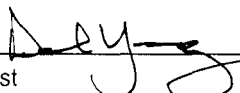
Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	ND	ND	0.0%	0 - 30%	0.9
Toluene	ND	ND	0.0%	0 - 30%	1.0
Ethylbenzene	ND	ND	0.0%	0 - 30%	1.0
p,m-Xylene	ND	ND	0.0%	0 - 30%	1.2
o-Xylene	ND	ND	0.0%	0 - 30%	0.9

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	50.0	50.0	100.0%	39 - 150
Toluene	ND	50.0	49.8	99.6%	46 - 148
Ethylbenzene	ND	50.0	50.0	100.0%	32 - 160
p,m-Xylene	ND	100	97.0	97.0%	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 44598 - 44607.

Analyst 

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