

NM1 - _____ 10 B _____

MONITORING REPORT

YEAR(S):

_____ 2011 - 2012 _____

BLAGG ENGINEERING, INC.

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

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

RECEIVED OCD

2013 JAN 30 P 1: 32

January 25, 2013

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
2012 Annual Report on Treatment Zone Monitoring
Clarification of Sampling Intervals

Dear Mr. Jones:

Referencing the annual report for the JFJ Waste Management Facility, transmitted to the New Mexico Oil Conservation Division with correspondence dated, January 21, 2013, this is to clarify the soil collection interval description for cell sampling. This is pursuant to our telephone communication on January 24, 2013.

The facility permit describes quarterly cell sampling to be within the treatment zone, defined in the permit as: "A treatment zone not to exceed three (3) feet beneath the landfarm and compost pile native ground surface". This is the interval that was sampled during the December 27, 2012 sample event. I apologize for any confusion that resulted from my description of the zone sampling interval for the annual testing event at the JFJ landfarm.

Questions or comments concerning this transmittal may be directed to myself at (505)632-1199.

Respectfully submitted:
Blagg Engineering, Inc.



Jeffrey C. Blagg, P.E.
President

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

BLAGG ENGINEERING, INC.

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

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

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7011 1570 0002 2817 3414

RECEIVED OGD

January 21, 2013

2013 JAN 23 P 1:40

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
2012 Annual Report on Treatment Zone Monitoring

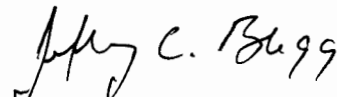
Dear Mr. Jones:

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 27, 2012.

Sampling protocol included collection of native soils below the treatment zone. Due to frozen ground conditions, samples were collected by using a trackhoe to break the surface, then 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 and total chloride by U.S. EPA 300, RCRA 8 Metals and general cation/anion analysis. Samples were collected from active cell units 2e, 3b, 4a, 7f, 8a, 9d, 11c, 12e and 13c (Figure 1). All testing found total petroleum hydrocarbons, BTEX, chloride and metals within permit limits.

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.

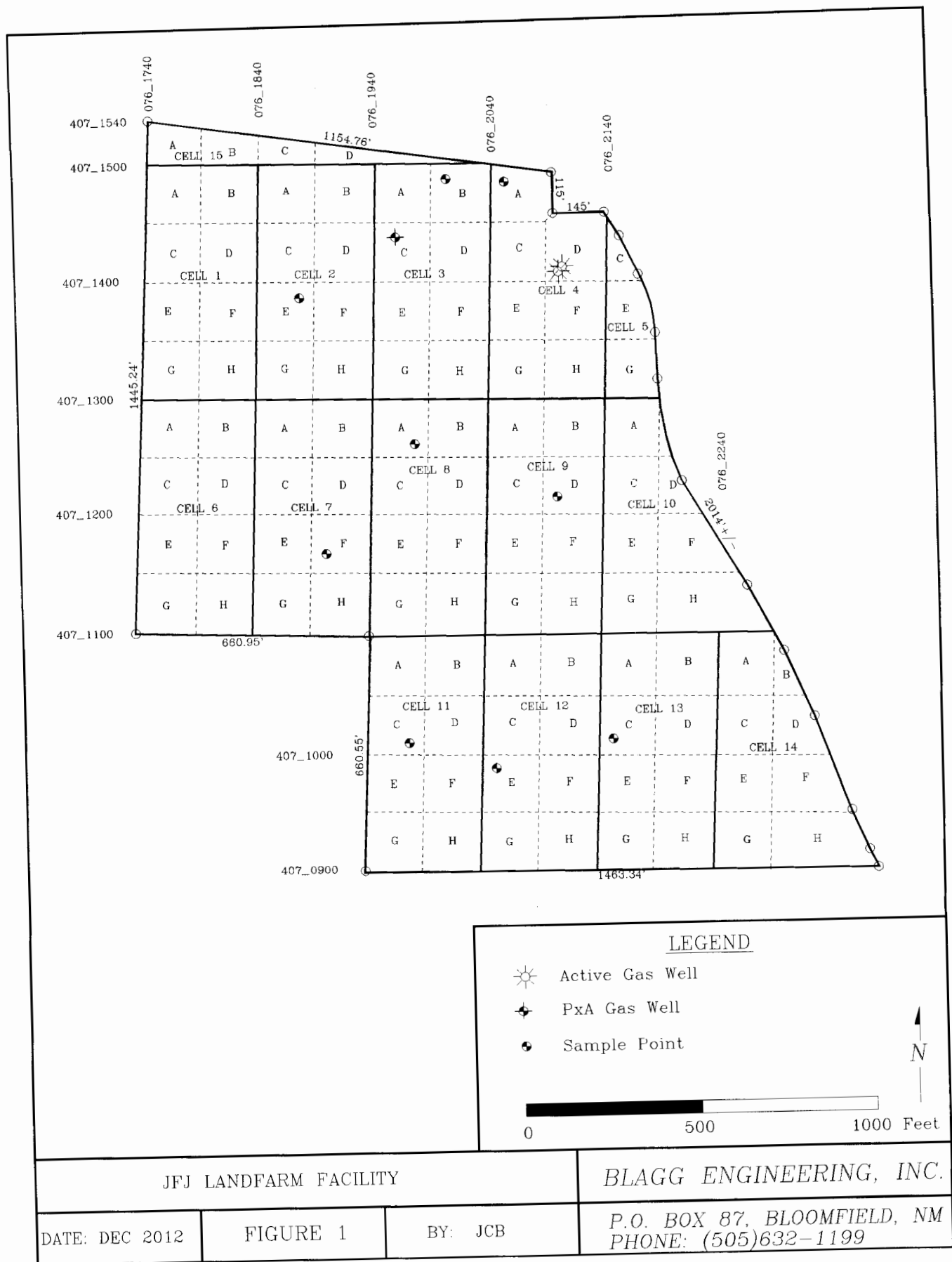
Respectfully submitted:
Blagg Engineering, Inc.



Jeffrey C. Blagg, P.E.
President

Attachments: Site Diagram
Analytical Test Reports

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





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

January 11, 2013

Jeff Blagg

Blagg Engineering

P. O. Box 87

Bloomfield, NM 87413

TEL: (505) 320-1183

FAX (505) 632-3903

RE: JFJLF-ANNUAL

OrderNo.: 1212A94

Dear Jeff Blagg:

Hall Environmental Analysis Laboratory received 9 sample(s) on 12/28/2012 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

Sincerely,

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 1212A94

Date Reported: 1/11/2013

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Blagg Engineering**Project:** JFJ LF-ANNUAL**Lab ID:** 1212A94-001**Client Sample ID:** CELL 2E**Collection Date:** 12/27/2012 9:04:00 AM**Received Date:** 12/28/2012 10:20:00 AM**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: MMD
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	1/2/2013 2:40:04 PM
Surr: DNOP	105	72.4-120		%REC	1	1/2/2013 2:40:04 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/31/2012 4:31:21 PM
Surr: BFB	105	84-116		%REC	1	12/31/2012 4:31:21 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.048		mg/Kg	1	12/31/2012 4:31:21 PM
Toluene	ND	0.048		mg/Kg	1	12/31/2012 4:31:21 PM
Ethylbenzene	ND	0.048		mg/Kg	1	12/31/2012 4:31:21 PM
Xylenes, Total	ND	0.096		mg/Kg	1	12/31/2012 4:31:21 PM
Surr: 4-Bromofluorobenzene	106	80-120		%REC	1	12/31/2012 4:31:21 PM
EPA METHOD 300.0: ANIONS						Analyst: JRR
Fluoride	ND	1.5		mg/Kg	5	1/3/2013 9:54:34 AM
Chloride	ND	7.5		mg/Kg	5	1/3/2013 9:54:34 AM
Nitrogen, Nitrite (As N)	ND	1.5		mg/Kg	5	1/3/2013 9:54:34 AM
Bromide	ND	1.5		mg/Kg	5	1/3/2013 9:54:34 AM
Nitrogen, Nitrate (As N)	ND	1.5		mg/Kg	5	1/3/2013 9:54:34 AM
Phosphorus, Orthophosphate (As P)	ND	7.5		mg/Kg	5	1/3/2013 9:54:34 AM
Sulfate	120	7.5		mg/Kg	5	1/3/2013 9:54:34 AM
EPA METHOD 7471: MERCURY						Analyst: TMG
Mercury	ND	0.033		mg/kg	1	1/3/2013 11:23:05 AM
EPA METHOD 6010B: SOIL METALS						Analyst: JLF
Arsenic	ND	2.5		mg/Kg	1	1/8/2013 10:55:29 AM
Barium	32	0.10		mg/Kg	1	1/8/2013 10:55:29 AM
Cadmium	ND	0.10		mg/Kg	1	1/8/2013 10:55:29 AM
Calcium	2800	25		mg/Kg	1	1/8/2013 10:55:29 AM
Chromium	2.0	0.30		mg/Kg	1	1/8/2013 10:55:29 AM
Lead	1.5	0.25		mg/Kg	1	1/8/2013 10:55:29 AM
Magnesium	1500	25		mg/Kg	1	1/8/2013 10:55:29 AM
Potassium	310	50		mg/Kg	1	1/8/2013 10:55:29 AM
Selenium	ND	2.5		mg/Kg	1	1/8/2013 10:55:29 AM
Silver	ND	0.25		mg/Kg	1	1/8/2013 10:55:29 AM
Sodium	1700	25		mg/Kg	1	1/8/2013 10:55:29 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Analytical Report

Lab Order 1212A94

Date Reported: 1/11/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: CELL 3B

Project: JFJ LF-ANNUAL

Collection Date: 12/27/2012 8:55:00 AM

Lab ID: 1212A94-002

Matrix: SOIL

Received Date: 12/28/2012 10:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: MMD
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	1/2/2013 3:07:18 PM
Surr: DNOP	109	72.4-120		%REC	1	1/2/2013 3:07:18 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/31/2012 5:28:50 PM
Surr: BFB	97.6	84-116		%REC	1	12/31/2012 5:28:50 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.048		mg/Kg	1	12/31/2012 5:28:50 PM
Toluene	ND	0.048		mg/Kg	1	12/31/2012 5:28:50 PM
Ethylbenzene	ND	0.048		mg/Kg	1	12/31/2012 5:28:50 PM
Xylenes, Total	ND	0.097		mg/Kg	1	12/31/2012 5:28:50 PM
Surr: 4-Bromofluorobenzene	105	80-120		%REC	1	12/31/2012 5:28:50 PM
EPA METHOD 300.0: ANIONS						Analyst: JRR
Fluoride	5.6	0.30		mg/Kg	1	1/3/2013 10:19:23 AM
Chloride	820	30		mg/Kg	20	1/3/2013 10:56:37 AM
Nitrogen, Nitrite (As N)	ND	6.0		mg/Kg	20	1/3/2013 10:56:37 AM
Bromide	8.8	0.30		mg/Kg	1	1/3/2013 10:19:23 AM
Nitrogen, Nitrate (As N)	2.7	0.30		mg/Kg	1	1/3/2013 10:19:23 AM
Phosphorus, Orthophosphate (As P)	ND	30		mg/Kg	20	1/3/2013 10:56:37 AM
Sulfate	1900	30		mg/Kg	20	1/3/2013 10:56:37 AM
EPA METHOD 7471: MERCURY						Analyst: TMG
Mercury	ND	0.033		mg/kg	1	1/3/2013 11:28:30 AM
EPA METHOD 6010B: SOIL METALS						Analyst: JLF
Arsenic	ND	5.0		mg/Kg	2	1/8/2013 12:02:05 PM
Barium	220	0.50		mg/Kg	5	1/8/2013 12:04:58 PM
Cadmium	ND	0.20		mg/Kg	2	1/8/2013 12:02:05 PM
Calcium	16000	120		mg/Kg	5	1/8/2013 12:04:58 PM
Chromium	7.1	0.60		mg/Kg	2	1/8/2013 12:02:05 PM
Lead	3.4	0.50		mg/Kg	2	1/8/2013 12:02:05 PM
Magnesium	3700	120		mg/Kg	5	1/8/2013 12:04:58 PM
Potassium	1700	250		mg/Kg	5	1/8/2013 12:04:58 PM
Selenium	ND	5.0		mg/Kg	2	1/8/2013 12:02:05 PM
Silver	ND	0.50		mg/Kg	2	1/8/2013 12:02:05 PM
Sodium	730	120		mg/Kg	5	1/8/2013 12:04:58 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Analytical Report

Lab Order 1212A94

Date Reported: 1/11/2013

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Blagg Engineering**Client Sample ID:** CELL 4A**Project:** JFJ LF-ANNUAL**Collection Date:** 12/27/2012 8:48:00 AM**Lab ID:** 1212A94-003**Matrix:** SOIL**Received Date:** 12/28/2012 10:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: MMD
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	1/2/2013 1:15:28 PM
Surr: DNOP	83.6	72.4-120		%REC	1	1/2/2013 1:15:28 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/31/2012 5:57:38 PM
Surr: BFB	96.7	84-116		%REC	1	12/31/2012 5:57:38 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.047		mg/Kg	1	12/31/2012 5:57:38 PM
Toluene	ND	0.047		mg/Kg	1	12/31/2012 5:57:38 PM
Ethylbenzene	ND	0.047		mg/Kg	1	12/31/2012 5:57:38 PM
Xylenes, Total	ND	0.095		mg/Kg	1	12/31/2012 5:57:38 PM
Surr: 4-Bromofluorobenzene	106	80-120		%REC	1	12/31/2012 5:57:38 PM
EPA METHOD 300.0: ANIONS						Analyst: JRR
Fluoride	7.1	0.30		mg/Kg	1	1/3/2013 3:29:38 PM
Chloride	780	30		mg/Kg	20	1/3/2013 3:42:02 PM
Nitrogen, Nitrite (As N)	ND	0.30		mg/Kg	1	1/3/2013 3:29:38 PM
Bromide	8.5	0.30		mg/Kg	1	1/3/2013 3:29:38 PM
Nitrogen, Nitrate (As N)	3.3	0.30		mg/Kg	1	1/3/2013 3:29:38 PM
Phosphorus, Orthophosphate (As P)	ND	1.5		mg/Kg	1	1/3/2013 3:29:38 PM
Sulfate	1000	30		mg/Kg	20	1/3/2013 3:42:02 PM
EPA METHOD 7471: MERCURY						Analyst: TMG
Mercury	ND	0.033		mg/kg	1	1/3/2013 11:30:15 AM
EPA METHOD 6010B: SOIL METALS						Analyst: JLF
Arsenic	ND	5.0		mg/Kg	2	1/8/2013 12:10:15 PM
Barium	130	0.50		mg/Kg	5	1/8/2013 12:14:42 PM
Cadmium	ND	0.20		mg/Kg	2	1/8/2013 12:10:15 PM
Calcium	11000	120		mg/Kg	5	1/8/2013 12:14:42 PM
Chromium	8.0	0.60		mg/Kg	2	1/8/2013 12:10:15 PM
Lead	3.8	0.50		mg/Kg	2	1/8/2013 12:10:15 PM
Magnesium	4000	120		mg/Kg	5	1/8/2013 12:14:42 PM
Potassium	2000	250		mg/Kg	5	1/8/2013 12:14:42 PM
Selenium	ND	5.0		mg/Kg	2	1/8/2013 12:10:15 PM
Silver	ND	0.50		mg/Kg	2	1/8/2013 12:10:15 PM
Sodium	860	120		mg/Kg	5	1/8/2013 12:14:42 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Analytical Report

Lab Order 1212A94

Date Reported: 1/11/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: CELL 7F

Project: JFJ LF-ANNUAL

Collection Date: 12/27/2012 8:39:00 AM

Lab ID: 1212A94-004

Matrix: SOIL

Received Date: 12/28/2012 10:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: MMD
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	1/2/2013 1:37:20 PM
Surr: DNOP	85.5	72.4-120		%REC	1	1/2/2013 1:37:20 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/31/2012 9:47:34 PM
Surr: BFB	94.9	84-116		%REC	1	12/31/2012 9:47:34 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.048		mg/Kg	1	12/31/2012 9:47:34 PM
Toluene	ND	0.048		mg/Kg	1	12/31/2012 9:47:34 PM
Ethylbenzene	ND	0.048		mg/Kg	1	12/31/2012 9:47:34 PM
Xylenes, Total	ND	0.096		mg/Kg	1	12/31/2012 9:47:34 PM
Surr: 4-Bromofluorobenzene	106	80-120		%REC	1	12/31/2012 9:47:34 PM
EPA METHOD 300.0: ANIONS						Analyst: JRR
Fluoride	ND	1.5		mg/Kg	5	1/3/2013 3:04:48 PM
Chloride	ND	7.5		mg/Kg	5	1/3/2013 3:04:48 PM
Nitrogen, Nitrite (As N)	ND	1.5		mg/Kg	5	1/3/2013 3:04:48 PM
Bromide	ND	1.5		mg/Kg	5	1/3/2013 3:04:48 PM
Nitrogen, Nitrate (As N)	ND	1.5		mg/Kg	5	1/3/2013 3:04:48 PM
Phosphorus, Orthophosphate (As P)	ND	7.5		mg/Kg	5	1/3/2013 3:04:48 PM
Sulfate	ND	7.5		mg/Kg	5	1/3/2013 3:04:48 PM
EPA METHOD 7471: MERCURY						Analyst: TMG
Mercury	ND	0.033		mg/kg	1	1/3/2013 11:32:00 AM
EPA METHOD 6010B: SOIL METALS						Analyst: JLF
Arsenic	ND	2.5		mg/Kg	1	1/8/2013 11:03:44 AM
Barium	79	0.20		mg/Kg	2	1/8/2013 12:17:22 PM
Cadmium	ND	0.10		mg/Kg	1	1/8/2013 11:03:44 AM
Calcium	1600	25		mg/Kg	1	1/8/2013 11:03:44 AM
Chromium	1.0	0.30		mg/Kg	1	1/8/2013 11:03:44 AM
Lead	1.2	0.25		mg/Kg	1	1/8/2013 11:03:44 AM
Magnesium	490	25		mg/Kg	1	1/8/2013 11:03:44 AM
Potassium	250	50		mg/Kg	1	1/8/2013 11:03:44 AM
Selenium	ND	2.5		mg/Kg	1	1/8/2013 11:03:44 AM
Silver	ND	0.25		mg/Kg	1	1/8/2013 11:03:44 AM
Sodium	64	25		mg/Kg	1	1/8/2013 11:03:44 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Analytical Report

Lab Order 1212A94

Date Reported: 1/11/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: CELL 8A

Project: JFJ LF-ANNUAL

Collection Date: 12/27/2012 9:15:00 AM

Lab ID: 1212A94-005

Matrix: SOIL

Received Date: 12/28/2012 10:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: MMD
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	1/2/2013 1:59:14 PM
Surr: DNOP	90.8	72.4-120		%REC	1	1/2/2013 1:59:14 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/31/2012 10:16:22 PM
Surr: BFB	95.2	84-116		%REC	1	12/31/2012 10:16:22 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.048		mg/Kg	1	12/31/2012 10:16:22 PM
Toluene	ND	0.048		mg/Kg	1	12/31/2012 10:16:22 PM
Ethylbenzene	ND	0.048		mg/Kg	1	12/31/2012 10:16:22 PM
Xylenes, Total	ND	0.096		mg/Kg	1	12/31/2012 10:16:22 PM
Surr: 4-Bromofluorobenzene	107	80-120		%REC	1	12/31/2012 10:16:22 PM
EPA METHOD 300.0: ANIONS						Analyst: JRR
Fluoride	ND	1.5		mg/Kg	5	1/3/2013 12:23:30 PM
Chloride	ND	7.5		mg/Kg	5	1/3/2013 12:23:30 PM
Nitrogen, Nitrite (As N)	ND	1.5		mg/Kg	5	1/3/2013 12:23:30 PM
Bromide	ND	1.5		mg/Kg	5	1/3/2013 12:23:30 PM
Nitrogen, Nitrate (As N)	2.8	1.5		mg/Kg	5	1/3/2013 12:23:30 PM
Phosphorus, Orthophosphate (As P)	ND	7.5		mg/Kg	5	1/3/2013 12:23:30 PM
Sulfate	18	7.5		mg/Kg	5	1/3/2013 12:23:30 PM
EPA METHOD 7471: MERCURY						Analyst: TMG
Mercury	ND	0.033		mg/kg	1	1/3/2013 11:33:46 AM
EPA METHOD 6010B: SOIL METALS						Analyst: JLF
Arsenic	ND	2.5		mg/Kg	1	1/8/2013 11:16:16 AM
Barium	170	0.50		mg/Kg	5	1/8/2013 12:30:57 PM
Cadmium	ND	0.10		mg/Kg	1	1/8/2013 11:16:16 AM
Calcium	7200	120		mg/Kg	5	1/8/2013 12:30:57 PM
Chromium	3.2	0.30		mg/Kg	1	1/8/2013 11:16:16 AM
Lead	2.1	0.25		mg/Kg	1	1/8/2013 11:16:16 AM
Magnesium	2000	120		mg/Kg	5	1/8/2013 12:30:57 PM
Potassium	900	250		mg/Kg	5	1/8/2013 12:30:57 PM
Selenium	ND	2.5		mg/Kg	1	1/8/2013 11:16:16 AM
Silver	ND	0.25		mg/Kg	1	1/8/2013 11:16:16 AM
Sodium	140	120		mg/Kg	5	1/8/2013 12:30:57 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- 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.**Analytical Report**

Lab Order 1212A94

Date Reported: 1/11/2013

CLIENT: Blagg Engineering**Client Sample ID:** CELL 9D**Project:** JFJ LF-ANNUAL**Collection Date:** 12/27/2012 9:25:00 AM**Lab ID:** 1212A94-006**Matrix:** SOIL**Received Date:** 12/28/2012 10:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: MMD
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	1/2/2013 2:20:51 PM
Surr: DNOP	85.9	72.4-120		%REC	1	1/2/2013 2:20:51 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/31/2012 10:45:07 PM
Surr: BFB	94.1	84-116		%REC	1	12/31/2012 10:45:07 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.048		mg/Kg	1	12/31/2012 10:45:07 PM
Toluene	ND	0.048		mg/Kg	1	12/31/2012 10:45:07 PM
Ethylbenzene	ND	0.048		mg/Kg	1	12/31/2012 10:45:07 PM
Xylenes, Total	ND	0.095		mg/Kg	1	12/31/2012 10:45:07 PM
Surr: 4-Bromofluorobenzene	105	80-120		%REC	1	12/31/2012 10:45:07 PM
EPA METHOD 300.0: ANIONS						Analyst: JRR
Fluoride	ND	1.5		mg/Kg	5	1/3/2013 12:48:19 PM
Chloride	ND	7.5		mg/Kg	5	1/3/2013 12:48:19 PM
Nitrogen, Nitrite (As N)	ND	1.5		mg/Kg	5	1/3/2013 12:48:19 PM
Bromide	ND	1.5		mg/Kg	5	1/3/2013 12:48:19 PM
Nitrogen, Nitrate (As N)	ND	1.5		mg/Kg	5	1/3/2013 12:48:19 PM
Phosphorus, Orthophosphate (As P)	ND	7.5		mg/Kg	5	1/3/2013 12:48:19 PM
Sulfate	70	7.5		mg/Kg	5	1/3/2013 12:48:19 PM
EPA METHOD 7471: MERCURY						Analyst: TMG
Mercury	ND	0.033		mg/kg	1	1/3/2013 11:35:31 AM
EPA METHOD 6010B: SOIL METALS						Analyst: JLF
Arsenic	ND	2.5		mg/Kg	1	1/8/2013 11:18:51 AM
Barium	33	0.10		mg/Kg	1	1/8/2013 11:18:51 AM
Cadmium	ND	0.10		mg/Kg	1	1/8/2013 11:18:51 AM
Calcium	2600	25		mg/Kg	1	1/8/2013 11:18:51 AM
Chromium	2.0	0.30		mg/Kg	1	1/8/2013 11:18:51 AM
Lead	1.3	0.25		mg/Kg	1	1/8/2013 11:18:51 AM
Magnesium	1500	25		mg/Kg	1	1/8/2013 11:18:51 AM
Potassium	320	50		mg/Kg	1	1/8/2013 11:18:51 AM
Selenium	ND	2.5		mg/Kg	1	1/8/2013 11:18:51 AM
Silver	ND	0.25		mg/Kg	1	1/8/2013 11:18:51 AM
Sodium	2100	25		mg/Kg	1	1/8/2013 11:18:51 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- 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.

Analytical Report

Lab Order 1212A94

Date Reported: 1/11/2013

CLIENT: Blagg Engineering

Client Sample ID: CELL 11C

Project: JFJ LF-ANNUAL

Collection Date: 12/27/2012 8:30:00 AM

Lab ID: 1212A94-007

Matrix: SOIL

Received Date: 12/28/2012 10:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: MMD
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	1/2/2013 2:42:28 PM
Surr: DNOP	84.8	72.4-120		%REC	1	1/2/2013 2:42:28 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/31/2012 11:13:55 PM
Surr: BFB	96.1	84-116		%REC	1	12/31/2012 11:13:55 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.047		mg/Kg	1	12/31/2012 11:13:55 PM
Toluene	ND	0.047		mg/Kg	1	12/31/2012 11:13:55 PM
Ethylbenzene	ND	0.047		mg/Kg	1	12/31/2012 11:13:55 PM
Xylenes, Total	ND	0.095		mg/Kg	1	12/31/2012 11:13:55 PM
Surr: 4-Bromofluorobenzene	107	80-120		%REC	1	12/31/2012 11:13:55 PM
EPA METHOD 300.0: ANIONS						Analyst: JRR
Fluoride	1.7	1.5		mg/Kg	5	1/3/2013 1:13:07 PM
Chloride	27	7.5		mg/Kg	5	1/3/2013 1:13:07 PM
Nitrogen, Nitrite (As N)	ND	1.5		mg/Kg	5	1/3/2013 1:13:07 PM
Bromide	ND	1.5		mg/Kg	5	1/3/2013 1:13:07 PM
Nitrogen, Nitrate (As N)	5.1	1.5		mg/Kg	5	1/3/2013 1:13:07 PM
Phosphorus, Orthophosphate (As P)	ND	7.5		mg/Kg	5	1/3/2013 1:13:07 PM
Sulfate	2400	30		mg/Kg	20	1/3/2013 1:25:32 PM
EPA METHOD 7471: MERCURY						Analyst: TMG
Mercury	ND	0.033		mg/kg	1	1/3/2013 11:40:49 AM
EPA METHOD 6010B: SOIL METALS						Analyst: JLF
Arsenic	ND	12		mg/Kg	5	1/8/2013 12:36:03 PM
Barium	91	0.50		mg/Kg	5	1/8/2013 12:36:03 PM
Cadmium	ND	0.50		mg/Kg	5	1/8/2013 12:36:03 PM
Calcium	2200	120		mg/Kg	5	1/8/2013 12:36:03 PM
Chromium	6.2	1.5		mg/Kg	5	1/8/2013 12:36:03 PM
Lead	3.2	1.2		mg/Kg	5	1/8/2013 12:36:03 PM
Magnesium	2400	120		mg/Kg	5	1/8/2013 12:36:03 PM
Potassium	1500	250		mg/Kg	5	1/8/2013 12:36:03 PM
Selenium	ND	12		mg/Kg	5	1/8/2013 12:36:03 PM
Silver	ND	1.2		mg/Kg	5	1/8/2013 12:36:03 PM
Sodium	3100	120		mg/Kg	5	1/8/2013 12:36:03 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Analytical Report

Lab Order 1212A94

Date Reported: 1/11/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: CELL 12E

Project: JFJ LF-ANNUAL

Collection Date: 12/27/2012 8:23:00 AM

Lab ID: 1212A94-008

Matrix: SOIL

Received Date: 12/28/2012 10:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: MMD
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	1/2/2013 3:04:18 PM
Surr: DNOP	87.5	72.4-120		%REC	1	1/2/2013 3:04:18 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	12/31/2012 11:42:40 PM
Surr: BFB	96.1	84-116		%REC	1	12/31/2012 11:42:40 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.047		mg/Kg	1	12/31/2012 11:42:40 PM
Toluene	ND	0.047		mg/Kg	1	12/31/2012 11:42:40 PM
Ethylbenzene	ND	0.047		mg/Kg	1	12/31/2012 11:42:40 PM
Xylenes, Total	ND	0.095		mg/Kg	1	12/31/2012 11:42:40 PM
Surr: 4-Bromofluorobenzene	108	80-120		%REC	1	12/31/2012 11:42:40 PM
EPA METHOD 300.0: ANIONS						Analyst: JRR
Fluoride	1.6	1.5		mg/Kg	5	1/3/2013 1:37:57 PM
Chloride	ND	7.5		mg/Kg	5	1/3/2013 1:37:57 PM
Nitrogen, Nitrite (As N)	ND	1.5		mg/Kg	5	1/3/2013 1:37:57 PM
Bromide	ND	1.5		mg/Kg	5	1/3/2013 1:37:57 PM
Nitrogen, Nitrate (As N)	3.6	1.5		mg/Kg	5	1/3/2013 1:37:57 PM
Phosphorus, Orthophosphate (As P)	ND	7.5		mg/Kg	5	1/3/2013 1:37:57 PM
Sulfate	200	7.5		mg/Kg	5	1/3/2013 1:37:57 PM
EPA METHOD 7471: MERCURY						Analyst: TMG
Mercury	ND	0.033		mg/kg	1	1/3/2013 11:42:35 AM
EPA METHOD 6010B: SOIL METALS						Analyst: JLF
Arsenic	ND	5.0		mg/Kg	2	1/8/2013 12:38:42 PM
Barium	320	1.0		mg/Kg	10	1/8/2013 12:41:19 PM
Cadmium	ND	0.20		mg/Kg	2	1/8/2013 12:38:42 PM
Calcium	3500	250		mg/Kg	10	1/8/2013 12:41:19 PM
Chromium	3.4	0.60		mg/Kg	2	1/8/2013 12:38:42 PM
Lead	1.9	0.50		mg/Kg	2	1/8/2013 12:38:42 PM
Magnesium	1500	250		mg/Kg	10	1/8/2013 12:41:19 PM
Potassium	670	500		mg/Kg	10	1/8/2013 12:41:19 PM
Selenium	ND	5.0		mg/Kg	2	1/8/2013 12:38:42 PM
Silver	ND	0.50		mg/Kg	2	1/8/2013 12:38:42 PM
Sodium	1100	250		mg/Kg	10	1/8/2013 12:41:19 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- 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.

Analytical Report

Lab Order 1212A94

Date Reported: 1/11/2013

CLIENT: Blagg Engineering

Client Sample ID: CELL 13C

Project: JFJ LF-ANNUAL

Collection Date: 12/27/2012 8:15:00 AM

Lab ID: 1212A94-009

Matrix: SOIL

Received Date: 12/28/2012 10:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: MMD
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	1/2/2013 3:25:53 PM
Surr: DNOP	91.7	72.4-120		%REC	1	1/2/2013 3:25:53 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/1/2013 12:11:23 AM
Surr: BFB	95.2	84-116		%REC	1	1/1/2013 12:11:23 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.048		mg/Kg	1	1/1/2013 12:11:23 AM
Toluene	ND	0.048		mg/Kg	1	1/1/2013 12:11:23 AM
Ethylbenzene	ND	0.048		mg/Kg	1	1/1/2013 12:11:23 AM
Xylenes, Total	ND	0.097		mg/Kg	1	1/1/2013 12:11:23 AM
Surr: 4-Bromofluorobenzene	106	80-120		%REC	1	1/1/2013 12:11:23 AM
EPA METHOD 300.0: ANIONS						Analyst: JRR
Fluoride	ND	6.0		mg/Kg	20	1/3/2013 2:39:59 PM
Chloride	530	30		mg/Kg	20	1/3/2013 2:39:59 PM
Nitrogen, Nitrite (As N)	ND	6.0		mg/Kg	20	1/3/2013 2:39:59 PM
Bromide	ND	6.0		mg/Kg	20	1/3/2013 2:39:59 PM
Nitrogen, Nitrate (As N)	2700	150		mg/Kg	500	1/4/2013 12:05:09 PM
Phosphorus, Orthophosphate (As P)	ND	30		mg/Kg	20	1/3/2013 2:39:59 PM
Sulfate	8400	750		mg/Kg	500	1/4/2013 12:05:09 PM
EPA METHOD 7471: MERCURY						Analyst: TMG
Mercury	0.061	0.033		mg/kg	1	1/3/2013 11:44:21 AM
EPA METHOD 6010B: SOIL METALS						Analyst: JLF
Arsenic	ND	12		mg/Kg	5	1/8/2013 12:46:31 PM
Barium	25	0.50		mg/Kg	5	1/8/2013 12:46:31 PM
Cadmium	ND	0.50		mg/Kg	5	1/8/2013 12:46:31 PM
Calcium	2500	120		mg/Kg	5	1/8/2013 12:46:31 PM
Chromium	12	1.5		mg/Kg	5	1/8/2013 12:46:31 PM
Lead	7.5	1.2		mg/Kg	5	1/8/2013 12:46:31 PM
Magnesium	4100	120		mg/Kg	5	1/8/2013 12:46:31 PM
Potassium	2800	250		mg/Kg	5	1/8/2013 12:46:31 PM
Selenium	15	12		mg/Kg	5	1/8/2013 12:46:31 PM
Silver	ND	1.2		mg/Kg	5	1/8/2013 12:46:31 PM
Sodium	11000	120		mg/Kg	5	1/8/2013 12:46:31 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1212A94

11-Jan-13

Client: Blagg Engineering

Project: JFJ LF-ANNUAL

Sample ID	MB-5499	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	5499	RunNo:	7821					
Prep Date:	1/2/2013	Analysis Date:	1/2/2013	SeqNo:	227206	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								
Bromide	ND	0.30								
Nitrogen, Nitrate (As N)	ND	0.30								
Phosphorus, Orthophosphate (As P	ND	1.5								
Sulfate	ND	1.5								

Sample ID	LCS-5499	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	5499	RunNo:	7821					
Prep Date:	1/2/2013	Analysis Date:	1/2/2013	SeqNo:	227210	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	90.4	90	110			
Bromide	6.9	0.30	7.500	0	91.6	90	110			
Nitrogen, Nitrate (As N)	7.1	0.30	7.500	0	94.9	90	110			
Phosphorus, Orthophosphate (As P	14	1.5	15.00	0	95.9	90	110			
Sulfate	27	1.5	30.00	0	91.3	90	110			

Sample ID	1301004-001AMS	SampType:	MS	TestCode:	EPA Method 300.0: Anions					
Client ID:	BatchQC	Batch ID:	5499	RunNo:	7821					
Prep Date:	1/2/2013	Analysis Date:	1/2/2013	SeqNo:	227213	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bromide	9.4	0.30	7.500	2.516	91.7	84.2	103			
Nitrogen, Nitrate (As N)	12	0.30	7.500	4.529	105	80.1	108			

Sample ID	1301004-001AMSD	SampType:	MSD	TestCode:	EPA Method 300.0: Anions					
Client ID:	BatchQC	Batch ID:	5499	RunNo:	7821					
Prep Date:	1/2/2013	Analysis Date:	1/2/2013	SeqNo:	227215	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bromide	9.4	0.30	7.500	2.516	91.8	84.2	103	0.115	20	
Nitrogen, Nitrate (As N)	13	0.30	7.500	4.529	107	80.1	108	1.24	20	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1212A94

11-Jan-13

Client: Blagg Engineering

Project: JFJ LF-ANNUAL

Sample ID	MB-5466		SampType:	MBLK		TestCode:	EPA Method 8015B: Diesel Range Organics				
Client ID:	PBS		Batch ID:	5466		RunNo:	7798				
Prep Date:	12/28/2012		Analysis Date:	1/2/2013		SeqNo:	226965		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	ND	10									
Surr: DNOP	10		10.00		103	72.4	120				

Sample ID	LCS-5466		SampType:	LCS		TestCode:	EPA Method 8015B: Diesel Range Organics				
Client ID:	LCSS		Batch ID:	5466		RunNo:	7798				
Prep Date:	12/28/2012		Analysis Date:	1/2/2013		SeqNo:	226966		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	43	10	50.00	0	85.2	47.4	122				
Surr: DNOP	4.6		5.000		92.6	72.4	120				

Sample ID	1212A93-002AMS		SampType:	MS		TestCode:	EPA Method 8015B: Diesel Range Organics				
Client ID:	BatchQC		Batch ID:	5466		RunNo:	7798				
Prep Date:	12/28/2012		Analysis Date:	1/2/2013		SeqNo:	226968		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	170	9.8	49.12	199.3	-53.8	12.6	148			S	
Surr: DNOP	4.5		4.912		91.4	72.4	120				

Sample ID	1212A93-002AMSD			SampType:	MSD		TestCode:	EPA Method 8015B: Diesel Range Organics			
Client ID:	BatchQC			Batch ID:	5466		RunNo:	7798			
Prep Date:	12/28/2012			Analysis Date:	1/2/2013		SeqNo:	226969		Units:	mg/Kg
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	140	10	50.81	199.3	-107	12.6	148	17.7	22.5	S	
Surr: DNOP	4.3		5.081		85.3	72.4	120	0	0		

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1212A94

11-Jan-13

Client: Blagg Engineering

Project: JFJ LF-ANNUAL

Sample ID	MB-5473		SampType:	MBLK		TestCode:	EPA Method 8015B: Gasoline Range			
Client ID:	PBS		Batch ID:	5473		RunNo:	7794			
Prep Date:	12/28/2012		Analysis Date:	12/31/2012		SeqNo:	226717		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	940		1000		93.8	84	116			

Sample ID	LCS-5473		SampType:	LCS		TestCode:	EPA Method 8015B: Gasoline Range			
Client ID:	LCSS		Batch ID:	5473		RunNo:	7794			
Prep Date:	12/28/2012		Analysis Date:	12/31/2012		SeqNo:	226718		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	87.5	74	117			
Surr: BFB	990		1000		99.1	84	116			

Sample ID	1212A94-001AMS		SampType:	MS		TestCode:	EPA Method 8015B: Gasoline Range			
Client ID:	CELL 2E		Batch ID:	5473		RunNo:	7794			
Prep Date:	12/28/2012		Analysis Date:	12/31/2012		SeqNo:	226725		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	20	4.8	24.11	2.314	75.2	70	130			
Surr: BFB	980		964.3		102	84	116			

Sample ID	1212A94-001AMSD		SampType:	MSD		TestCode:	EPA Method 8015B: Gasoline Range			
Client ID:	CELL 2E		Batch ID:	5473		RunNo:	7794			
Prep Date:	12/28/2012		Analysis Date:	12/31/2012		SeqNo:	226726		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	4.8	24.13	2.314	76.8	70	130	1.92	22.1	
Surr: BFB	1000		965.3		103	84	116	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1212A94

11-Jan-13

Client: Blagg Engineering

Project: JFJ LF-ANNUAL

Sample ID	MB-5473		SampType:	MBLK		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	PBS		Batch ID:	5473		RunNo:	7794			
Prep Date:	12/28/2012		Analysis Date:	12/31/2012		SeqNo:	226738		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		106	80	120			

Sample ID	LCS-5473		SampType:	LCS		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	LCSS		Batch ID:	5473		RunNo:	7794			
Prep Date:	12/28/2012		Analysis Date:	12/31/2012		SeqNo:	226739		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.050	1.000	0	102	80	120			
Toluene	1.0	0.050	1.000	0	101	80	120			
Ethylbenzene	1.0	0.050	1.000	0	104	80	120			
Xylenes, Total	3.1	0.10	3.000	0	103	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		110	80	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1212A94

11-Jan-13

Client: Blagg Engineering

Project: JFJ LF-ANNUAL

Sample ID	MB-5516	SampType:	MBLK	TestCode:	EPA Method 7471: Mercury					
Client ID:	PBS	Batch ID:	5516	RunNo:	7829					
Prep Date:	1/3/2013	Analysis Date:	1/3/2013	SeqNo:	227400	Units:	mg/kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.033								

Sample ID	LCS-5516	SampType:	LCS	TestCode:	EPA Method 7471: Mercury					
Client ID:	LCSS	Batch ID:	5516	RunNo:	7829					
Prep Date:	1/3/2013	Analysis Date:	1/3/2013	SeqNo:	227401	Units:	mg/kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.16	0.033	0.1667	0	97.4	80	120			

Sample ID	1212A94-001AMS	SampType:	MS	TestCode:	EPA Method 7471: Mercury					
Client ID:	CELL 2E	Batch ID:	5516	RunNo:	7829					
Prep Date:	1/3/2013	Analysis Date:	1/3/2013	SeqNo:	227403	Units:	mg/kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.17	0.033	0.1661	0.002913	103	75	125			

Sample ID	1212A94-001AMSD	SampType:	MSD	TestCode:	EPA Method 7471: Mercury					
Client ID:	CELL 2E	Batch ID:	5516	RunNo:	7829					
Prep Date:	1/3/2013	Analysis Date:	1/3/2013	SeqNo:	227404	Units:	mg/kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.17	0.033	0.1656	0.002913	101	75	125	1.45	20	

Qualifiers:

- | | |
|--|--|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit |
| P Sample pH greater than 2 | R RPD outside accepted recovery limits |

CERTIFIED

7011 1570 0002 2817 3629

BLAGG ENGINEERING, INC.

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

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

RECEIVED OGD

2012 NOV -1 PM 12:10

Oct 30, 2012

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
September 27 – 28, 2012 Sample Event

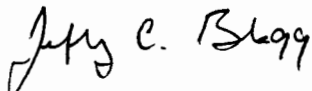
Dear Mr. Jones:

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 the quarterly sample event conducted on September 27 - 28, 2012.

Sampling protocol included collection of native soils below the treatment zone. A sample spade and 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. For the September 2012 event samples were collected from active cell units 2a, 3a, 4g, 7g, 8a, 9b, 11g, 12b and 13a(see attached figure). All testing found total petroleum hydrocarbons, BTEX and chloride within permit limits.

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.

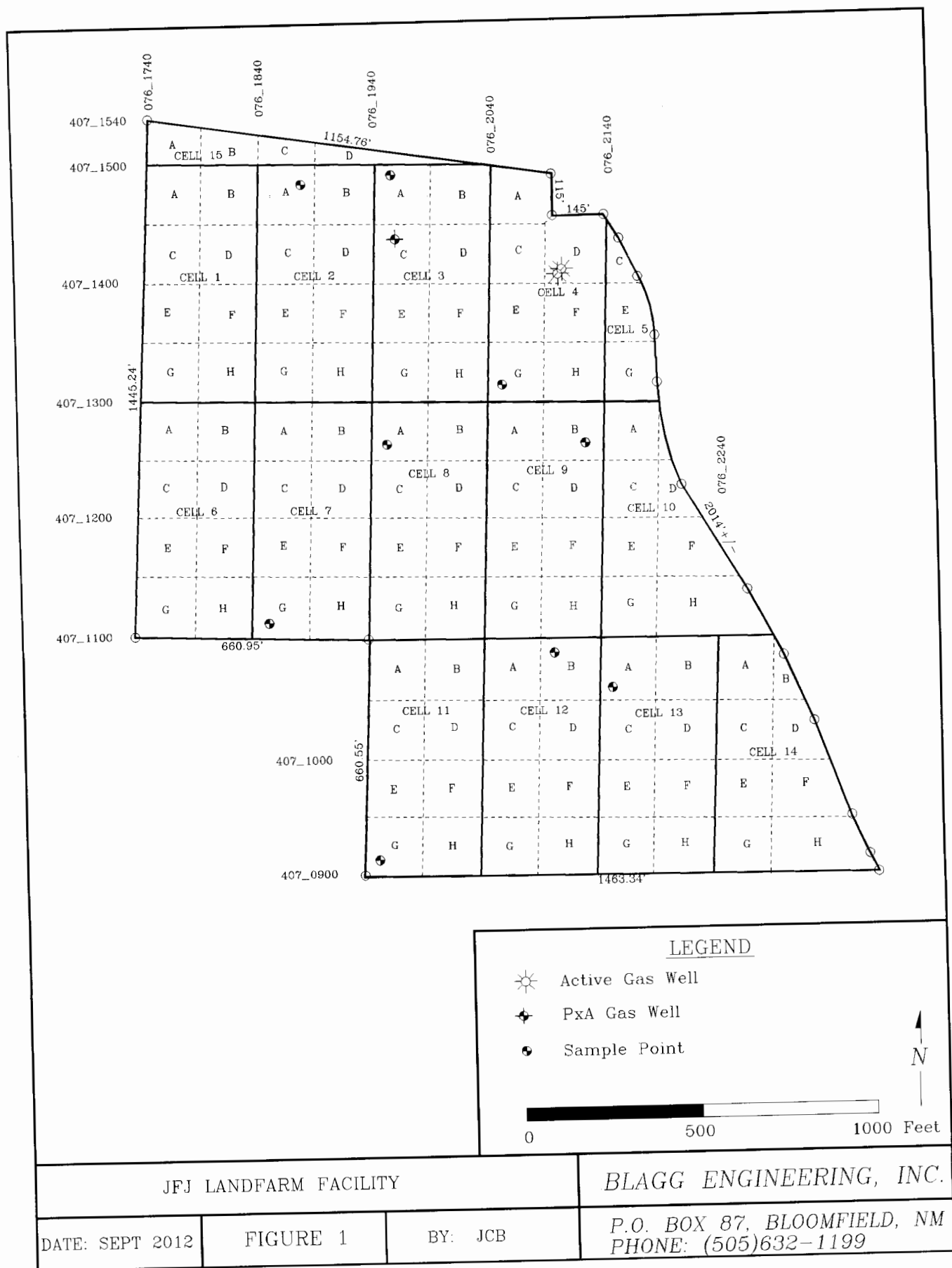
Respectfully submitted:
Blagg Engineering, Inc.



Jeffrey C. Blagg, P.E.
President

Attachments: Site Map
Analytical Test Reports

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





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

October 19, 2012

Jeff Blagg

Blagg Engineering

P. O. Box 87

Bloomfield, NM 87413

TEL: (505) 320-1183

FAX (505) 632-3903

RE: JFJ Landfarm Quarterly

OrderNo.: 1210356

Dear Jeff Blagg:

Hall Environmental Analysis Laboratory received 9 sample(s) on 10/4/2012 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

Sincerely,

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

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1210356

Date Reported: 10/19/2012

CLIENT: Blagg Engineering

Client Sample ID: Cell 12B

Project: JFJ Landfarm Quarterly

Collection Date: 9/27/2012 1:05:00 PM

Lab ID: 1210356-001

Matrix: SOIL

Received Date: 10/4/2012 10:34:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	10/6/2012 7:13:34 PM
Surr: DNOP	101	77.6-140		%REC	1	10/6/2012 7:13:34 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/8/2012 2:20:24 PM
Surr: BFB	103	84-116		%REC	1	10/8/2012 2:20:24 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.048		mg/Kg	1	10/8/2012 2:20:24 PM
Toluene	ND	0.048		mg/Kg	1	10/8/2012 2:20:24 PM
Ethylbenzene	ND	0.048		mg/Kg	1	10/8/2012 2:20:24 PM
Xylenes, Total	ND	0.096		mg/Kg	1	10/8/2012 2:20:24 PM
Surr: 4-Bromofluorobenzene	111	80-120		%REC	1	10/8/2012 2:20:24 PM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Chloride	ND	7.5		mg/Kg	5	10/9/2012 2:09:53 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- 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.

Analytical Report

Lab Order 1210356

Date Reported: 10/19/2012

CLIENT: Blagg Engineering

Client Sample ID: Cell 13A

Project: JFJ Landfarm Quarterly

Collection Date: 9/27/2012 1:40:00 PM

Lab ID: 1210356-002

Matrix: SOIL

Received Date: 10/4/2012 10:34:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/6/2012 7:38:42 PM
Surr: DNOP	105	77.6-140		%REC	1	10/6/2012 7:38:42 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	10/8/2012 2:49:17 PM
Surr: BFB	100	84-116		%REC	1	10/8/2012 2:49:17 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.046		mg/Kg	1	10/8/2012 2:49:17 PM
Toluene	ND	0.046		mg/Kg	1	10/8/2012 2:49:17 PM
Ethylbenzene	ND	0.046		mg/Kg	1	10/8/2012 2:49:17 PM
Xylenes, Total	ND	0.092		mg/Kg	1	10/8/2012 2:49:17 PM
Surr: 4-Bromofluorobenzene	108	80-120		%REC	1	10/8/2012 2:49:17 PM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Chloride	ND	7.5		mg/Kg	5	10/9/2012 3:36:47 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- 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.

Analytical Report

Lab Order 1210356

Date Reported: 10/19/2012

CLIENT: Blagg Engineering

Client Sample ID: Cell 11G

Project: JFJ Landfarm Quarterly

Collection Date: 9/27/2012 2:10:00 PM

Lab ID: 1210356-003

Matrix: SOIL

Received Date: 10/4/2012 10:34:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	10/6/2012 8:03:47 PM
Surr: DNOP	104	77.6-140		%REC	1	10/6/2012 8:03:47 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/8/2012 3:18:04 PM
Surr: BFB	99.9	84-116		%REC	1	10/8/2012 3:18:04 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.048		mg/Kg	1	10/8/2012 3:18:04 PM
Toluene	ND	0.048		mg/Kg	1	10/8/2012 3:18:04 PM
Ethylbenzene	ND	0.048		mg/Kg	1	10/8/2012 3:18:04 PM
Xylenes, Total	ND	0.096		mg/Kg	1	10/8/2012 3:18:04 PM
Surr: 4-Bromofluorobenzene	107	80-120		%REC	1	10/8/2012 3:18:04 PM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Chloride	7.5	1.5		mg/Kg	1	10/9/2012 3:49:12 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- 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.**Analytical Report**

Lab Order 1210356

Date Reported: 10/19/2012

CLIENT: Blagg Engineering**Client Sample ID:** Cell 7G**Project:** JFJ Landfarm Quarterly**Collection Date:** 9/27/2012 2:45:00 PM**Lab ID:** 1210356-004**Matrix:** SOIL**Received Date:** 10/4/2012 10:34:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/6/2012 8:28:52 PM
Surr: DNOP	87.2	77.6-140		%REC	1	10/6/2012 8:28:52 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/8/2012 3:46:51 PM
Surr: BFB	100	84-116		%REC	1	10/8/2012 3:46:51 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.047		mg/Kg	1	10/8/2012 3:46:51 PM
Toluene	ND	0.047		mg/Kg	1	10/8/2012 3:46:51 PM
Ethylbenzene	ND	0.047		mg/Kg	1	10/8/2012 3:46:51 PM
Xylenes, Total	ND	0.094		mg/Kg	1	10/8/2012 3:46:51 PM
Surr: 4-Bromofluorobenzene	106	80-120		%REC	1	10/8/2012 3:46:51 PM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Chloride	4.9	1.5		mg/Kg	1	10/9/2012 4:14:01 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- 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.

Analytical Report

Lab Order 1210356

Date Reported: 10/19/2012

CLIENT: Blagg Engineering

Client Sample ID: Cell 8A

Project: JFJ Landfarm Quarterly

Collection Date: 9/27/2012 3:30:00 PM

Lab ID: 1210356-005

Matrix: SOIL

Received Date: 10/4/2012 10:34:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	10/6/2012 8:53:59 PM
Surr: DNOP	83.0	77.6-140		%REC	1	10/6/2012 8:53:59 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/8/2012 4:15:34 PM
Surr: BFB	100	84-116		%REC	1	10/8/2012 4:15:34 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.047		mg/Kg	1	10/8/2012 4:15:34 PM
Toluene	ND	0.047		mg/Kg	1	10/8/2012 4:15:34 PM
Ethylbenzene	ND	0.047		mg/Kg	1	10/8/2012 4:15:34 PM
Xylenes, Total	ND	0.094		mg/Kg	1	10/8/2012 4:15:34 PM
Surr: 4-Bromofluorobenzene	109	80-120		%REC	1	10/8/2012 4:15:34 PM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Chloride	ND	7.5		mg/Kg	5	10/9/2012 4:38:51 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- 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.**Analytical Report**

Lab Order 1210356

Date Reported: 10/19/2012

CLIENT: Blagg Engineering**Client Sample ID:** Cell 4G**Project:** JFJ Landfarm Quarterly**Collection Date:** 9/28/2012 10:05:00 AM**Lab ID:** 1210356-006**Matrix:** SOIL**Received Date:** 10/4/2012 10:34:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	10/10/2012 8:55:48 AM
Surr: DNOP	110	77.6-140		%REC	1	10/10/2012 8:55:48 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/9/2012 2:04:06 PM
Surr: BFB	102	84-116		%REC	1	10/9/2012 2:04:06 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.049		mg/Kg	1	10/9/2012 2:04:06 PM
Toluene	ND	0.049		mg/Kg	1	10/9/2012 2:04:06 PM
Ethylbenzene	ND	0.049		mg/Kg	1	10/9/2012 2:04:06 PM
Xylenes, Total	ND	0.097		mg/Kg	1	10/9/2012 2:04:06 PM
Surr: 4-Bromofluorobenzene	109	80-120		%REC	1	10/9/2012 2:04:06 PM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Chloride	ND	7.5		mg/Kg	5	10/9/2012 5:03:41 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- 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.

Analytical Report

Lab Order 1210356

Date Reported: 10/19/2012

CLIENT: Blagg Engineering

Client Sample ID: Cell 9B

Project: JFJ Landfarm Quarterly

Collection Date: 9/28/2012 10:40:00 AM

Lab ID: 1210356-007

Matrix: SOIL

Received Date: 10/4/2012 10:34:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/10/2012 10:00:51 AM
Surr: DNOP	80.0	77.6-140		%REC	1	10/10/2012 10:00:51 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/9/2012 2:32:56 PM
Surr: BFB	102	84-116		%REC	1	10/9/2012 2:32:56 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.047		mg/Kg	1	10/9/2012 2:32:56 PM
Toluene	ND	0.047		mg/Kg	1	10/9/2012 2:32:56 PM
Ethylbenzene	ND	0.047		mg/Kg	1	10/9/2012 2:32:56 PM
Xylenes, Total	ND	0.093		mg/Kg	1	10/9/2012 2:32:56 PM
Surr: 4-Bromofluorobenzene	110	80-120		%REC	1	10/9/2012 2:32:56 PM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Chloride	8.2	1.5		mg/Kg	1	10/9/2012 6:05:43 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- 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.

Analytical Report

Lab Order 1210356

Date Reported: 10/19/2012

CLIENT: Blagg Engineering

Client Sample ID: Cell 3A

Project: JFJ Landfarm Quarterly

Collection Date: 9/28/2012 11:15:00 AM

Lab ID: 1210356-008

Matrix: SOIL

Received Date: 10/4/2012 10:34:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/10/2012 10:22:31 AM
Surr: DNOP	89.2	77.6-140		%REC	1	10/10/2012 10:22:31 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/9/2012 3:01:47 PM
Surr: BFB	102	84-116		%REC	1	10/9/2012 3:01:47 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.047		mg/Kg	1	10/9/2012 3:01:47 PM
Toluene	ND	0.047		mg/Kg	1	10/9/2012 3:01:47 PM
Ethylbenzene	ND	0.047		mg/Kg	1	10/9/2012 3:01:47 PM
Xylenes, Total	ND	0.094		mg/Kg	1	10/9/2012 3:01:47 PM
Surr: 4-Bromofluorobenzene	110	80-120		%REC	1	10/9/2012 3:01:47 PM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Chloride	ND	7.5		mg/Kg	5	10/9/2012 6:18:08 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- 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.

Analytical Report

Lab Order 1210356

Date Reported: 10/19/2012

CLIENT: Blagg Engineering

Client Sample ID: Cell 2A

Project: JFJ Landfarm Quarterly

Collection Date: 9/28/2012 11:45:00 AM

Lab ID: 1210356-009

Matrix: SOIL

Received Date: 10/4/2012 10:34:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	10/10/2012 10:44:08 AM
Surr: DNOP	88.5	77.6-140		%REC	1	10/10/2012 10:44:08 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/9/2012 3:30:37 PM
Surr: BFB	103	84-116		%REC	1	10/9/2012 3:30:37 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.048		mg/Kg	1	10/9/2012 3:30:37 PM
Toluene	ND	0.048		mg/Kg	1	10/9/2012 3:30:37 PM
Ethylbenzene	ND	0.048		mg/Kg	1	10/9/2012 3:30:37 PM
Xylenes, Total	ND	0.096		mg/Kg	1	10/9/2012 3:30:37 PM
Surr: 4-Bromofluorobenzene	110	80-120		%REC	1	10/9/2012 3:30:37 PM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Chloride	ND	7.5		mg/Kg	5	10/9/2012 6:42:58 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210356

19-Oct-12

Client: Blagg Engineering
Project: JFJ Landfarm Quarterly

Sample ID	1210356-001AMS	SampType:	MS	TestCode:	EPA Method 300.0: Anions					
Client ID:	Cell 12B	Batch ID:	4204	RunNo:	6099					
Prep Date:	10/9/2012	Analysis Date:	10/9/2012	SeqNo:	175795	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	7.5	15.00	4.533	67.0	64.4	117			

Sample ID	1210356-001AMSD	SampType:	MSD	TestCode:	EPA Method 300.0: Anions					
Client ID:	Cell 12B	Batch ID:	4204	RunNo:	6099					
Prep Date:	10/9/2012	Analysis Date:	10/9/2012	SeqNo:	175796	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	7.5	15.00	4.533	66.6	64.4	117	0.453	20	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH greater than 2

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210356

19-Oct-12

Client: Blagg Engineering
Project: JFJ Landfarm Quarterly

Sample ID	MB-4147	SampType:	MBLK	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	PBS	Batch ID:	4147	RunNo:	6027					
Prep Date:	10/5/2012	Analysis Date:	10/6/2012	SeqNo:	173596	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	10		10.00		101	77.6	140			

Sample ID	LCS-4147	SampType:	LCS	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	4147	RunNo:	6027					
Prep Date:	10/5/2012	Analysis Date:	10/6/2012	SeqNo:	173598	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	35	10	50.00	0	69.4	52.6	130			
Surr: DNOP	4.3		5.000		85.4	77.6	140			

Sample ID	1210279-012CMS	SampType:	MS	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	BatchQC	Batch ID:	4138	RunNo:	6027					
Prep Date:	10/5/2012	Analysis Date:	10/7/2012	SeqNo:	173631	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.1		5.128		79.6	77.6	140			

Sample ID	1210344-001AMS	SampType:	MS	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	BatchQC	Batch ID:	4147	RunNo:	6027					
Prep Date:	10/5/2012	Analysis Date:	10/6/2012	SeqNo:	173632	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	35	9.7	48.31	0	72.7	57.2	146			
Surr: DNOP	4.4		4.831		90.2	77.6	140			

Sample ID	1210279-012CMSD	SampType:	MSD	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	BatchQC	Batch ID:	4138	RunNo:	6027					
Prep Date:	10/5/2012	Analysis Date:	10/7/2012	SeqNo:	173633	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.0		5.097		77.7	77.6	140	0	0	

Sample ID	1210344-001AMSD	SampType:	MSD	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	BatchQC	Batch ID:	4147	RunNo:	6027					
Prep Date:	10/5/2012	Analysis Date:	10/6/2012	SeqNo:	173634	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	36	10	51.39	0	70.5	57.2	146	3.11	24.5	
Surr: DNOP	4.6		5.139		88.9	77.6	140	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210356

19-Oct-12

Client: Blagg Engineering
Project: JFJ Landfarm Quarterly

Sample ID	MB-4192	SampType:	MBLK	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	PBS	Batch ID:	4192	RunNo:	6108					
Prep Date:	10/9/2012	Analysis Date:	10/10/2012	SeqNo:	176064	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	11		10.00		106	77.6	140			

Sample ID	LCS-4192	SampType:	LCS	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	4192	RunNo:	6108					
Prep Date:	10/9/2012	Analysis Date:	10/10/2012	SeqNo:	176065	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	39	10	50.00	0	78.5	52.6	130			
Surr: DNOP	4.5		5.000		89.4	77.6	140			

Sample ID	1210356-006AMS	SampType:	MS	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	Cell 4G	Batch ID:	4192	RunNo:	6108					
Prep Date:	10/9/2012	Analysis Date:	10/10/2012	SeqNo:	176408	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.35	0	91.3	57.2	146			
Surr: DNOP	4.4		5.035		87.0	77.6	140			

Sample ID	1210356-006AMSD	SampType:	MSD	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	Cell 4G	Batch ID:	4192	RunNo:	6108					
Prep Date:	10/9/2012	Analysis Date:	10/10/2012	SeqNo:	176409	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	60	10	51.23	0	117	57.2	146	26.5	24.5	R
Surr: DNOP	4.0		5.123		77.3	77.6	140	0	0	S

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210356

19-Oct-12

Client: Blagg Engineering
Project: JFJ Landfarm Quarterly

Sample ID	MB-4249	SampType:	MBLK	TestCode:	EPA Method 8015B: Diesel Range					
Client ID:	PBW	Batch ID:	4249	RunNo:	6146					
Prep Date:	10/11/2012	Analysis Date:	10/11/2012	SeqNo:	177920	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	1.1		1.000		112	79.5	166			

Sample ID	LCS-4249	SampType:	LCS	TestCode:	EPA Method 8015B: Diesel Range					
Client ID:	LCSW	Batch ID:	4249	RunNo:	6146					
Prep Date:	10/11/2012	Analysis Date:	10/11/2012	SeqNo:	177921	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	0.53		0.5000		105	79.5	166			

Sample ID	LCSD-4249	SampType:	LCSD	TestCode:	EPA Method 8015B: Diesel Range					
Client ID:	LCSS02	Batch ID:	4249	RunNo:	6146					
Prep Date:	10/11/2012	Analysis Date:	10/11/2012	SeqNo:	177922	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	0.50		0.5000		101	79.5	166	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210356

19-Oct-12

Client: Blagg Engineering
Project: JFJ Landfarm Quarterly

Sample ID	MB-4146	SampType:	MBLK	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	PBS	Batch ID:	4146	RunNo:	6045					
Prep Date:	10/5/2012	Analysis Date:	10/7/2012	SeqNo:	174157	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		102	84	116			

Sample ID	LCS-4146	SampType:	LCS	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	LCSS	Batch ID:	4146	RunNo:	6045					
Prep Date:	10/5/2012	Analysis Date:	10/7/2012	SeqNo:	174158	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	102	74	117			
Surr: BFB	1100		1000		108	84	116			

Sample ID	1210321-001AMS	SampType:	MS	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	BatchQC	Batch ID:	4146	RunNo:	6045					
Prep Date:	10/5/2012	Analysis Date:	10/6/2012	SeqNo:	174160	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	4.9	24.63	1.166	104	70	130			
Surr: BFB	1100		985.2		107	84	116			

Sample ID	1210321-001AMSD	SampType:	MSD	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	BatchQC	Batch ID:	4146	RunNo:	6045					
Prep Date:	10/5/2012	Analysis Date:	10/6/2012	SeqNo:	174161	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	4.8	23.92	1.166	99.6	70	130	6.78	22.1	
Surr: BFB	1000		956.9		110	84	116	0	0	

Sample ID	5ML RB	SampType:	MBLK	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	PBS	Batch ID:	R6073	RunNo:	6073					
Prep Date:		Analysis Date:	10/8/2012	SeqNo:	175096	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1000		1000		101	84	116			

Sample ID	2.5UG GRO LCS	SampType:	LCS	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	LCSS	Batch ID:	R6073	RunNo:	6073					
Prep Date:		Analysis Date:	10/8/2012	SeqNo:	175097	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1100		1000		106	84	116			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210356

19-Oct-12

Client: Blagg Engineering
Project: JFJ Landfarm Quarterly

Sample ID	MB-4182		SampType:	MBLK		TestCode:	EPA Method 8015B: Gasoline Range				
Client ID:	PBS		Batch ID:	4182		RunNo:	6117				
Prep Date:	10/8/2012		Analysis Date:	10/9/2012		SeqNo:	176252		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	ND	5.0									
Surr: BFB	1000		1000		102	84	116				

Sample ID	LCS-4182		SampType:	LCS		TestCode:	EPA Method 8015B: Gasoline Range				
Client ID:	LCSS		Batch ID:	4182		RunNo:	6117				
Prep Date:	10/8/2012		Analysis Date:	10/9/2012		SeqNo:	176254		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	26	5.0	25.00	0	103	74	117				
Surr: BFB	1100		1000		105	84	116				

Sample ID	1210356-006AMS		SampType:	MS		TestCode:	EPA Method 8015B: Gasoline Range				
Client ID:	Cell 4G		Batch ID:	4182		RunNo:	6117				
Prep Date:	10/8/2012		Analysis Date:	10/9/2012		SeqNo:	176258		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	26	4.7	23.56	0	109	70	130				
Surr: BFB	1000		942.5		110	84	116				

Sample ID	1210356-006AMSD		SampType:	MSD		TestCode:	EPA Method 8015B: Gasoline Range				
Client ID:	Cell 4G		Batch ID:	4182		RunNo:	6117				
Prep Date:	10/8/2012		Analysis Date:	10/9/2012		SeqNo:	176259		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	27	5.0	24.95	0	108	70	130	4.69	22.1		
Surr: BFB	1100		998.0		109	84	116	0	0		

Sample ID	MB-4212		SampType:	MBLK		TestCode:	EPA Method 8015B: Gasoline Range				
Client ID:	PBS		Batch ID:	4212		RunNo:	6152				
Prep Date:	10/9/2012		Analysis Date:	10/10/2012		SeqNo:	177240		Units: %REC		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: BFB	1000		1000		105	84	116				

Sample ID	LCS-4212		SampType:	LCS		TestCode:	EPA Method 8015B: Gasoline Range				
Client ID:	LCSS		Batch ID:	4212		RunNo:	6152				
Prep Date:	10/9/2012		Analysis Date:	10/10/2012		SeqNo:	177241		Units: %REC		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: BFB	1100		1000		111	84	116				

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210356

19-Oct-12

Client: Blagg Engineering
Project: JFJ Landfarm Quarterly

Sample ID	1210474-001AMS	SampType:	MS	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	BatchQC	Batch ID:	4212	RunNo:	6152					
Prep Date:	10/9/2012	Analysis Date:	10/10/2012	SeqNo:	177245	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	5400		4869		112	84	116			

Sample ID	1210474-001AMSD	SampType:	MSD	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	BatchQC	Batch ID:	4212	RunNo:	6152					
Prep Date:	10/9/2012	Analysis Date:	10/10/2012	SeqNo:	177246	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	5300		4836		110	84	116	0	0	

Qualifiers:

- | | |
|--|--|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit |
| P Sample pH greater than 2 | R RPD outside accepted recovery limits |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210356

19-Oct-12

Client: Blagg Engineering
Project: JFJ Landfarm Quarterly

Sample ID	MB-4146		SampType:	MBLK		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	PBS		Batch ID:	4146		RunNo:	6045			
Prep Date:	10/5/2012		Analysis Date:	10/7/2012		SeqNo:	174190		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		110	80	120			

Sample ID	LCS-4146		SampType:	LCS		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	LCSS		Batch ID:	4146		RunNo:	6045			
Prep Date:	10/5/2012		Analysis Date:	10/7/2012		SeqNo:	174191		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.050	1.000	0	107	76.3	117			
Toluene	1.1	0.050	1.000	0	106	80	120			
Ethylbenzene	1.1	0.050	1.000	0	108	77	116			
Xylenes, Total	3.2	0.10	3.000	0	108	76.7	117			
Surr: 4-Bromofluorobenzene	1.2		1.000		116	80	120			

Sample ID	1210344-001AMS		SampType:	MS		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	BatchQC		Batch ID:	4146		RunNo:	6045			
Prep Date:	10/5/2012		Analysis Date:	10/7/2012		SeqNo:	174193		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.86	0.049	0.9794	0.005819	87.4	67.2	113			
Toluene	0.86	0.049	0.9794	0	88.0	62.1	116			
Ethylbenzene	0.88	0.049	0.9794	0	90.0	67.9	127			
Xylenes, Total	2.6	0.098	2.938	0	89.7	60.6	134			
Surr: 4-Bromofluorobenzene	1.1		0.9794		114	80	120			

Sample ID	1210344-001AMSD		SampType:	MSD		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	BatchQC		Batch ID:	4146		RunNo:	6045			
Prep Date:	10/5/2012		Analysis Date:	10/7/2012		SeqNo:	174194		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.82	0.047	0.9337	0.005819	87.3	67.2	113	4.85	14.3	
Toluene	0.82	0.047	0.9337	0	88.0	62.1	116	4.86	15.9	
Ethylbenzene	0.84	0.047	0.9337	0	89.8	67.9	127	5.00	14.4	
Xylenes, Total	2.5	0.093	2.801	0	88.9	60.6	134	5.70	12.6	
Surr: 4-Bromofluorobenzene	1.1		0.9337		115	80	120	0	0	

Qualifiers:

- | | |
|--|--|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit |
| P Sample pH greater than 2 | R RPD outside accepted recovery limits |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210356

19-Oct-12

Client: Blagg Engineering
Project: JFJ Landfarm Quarterly

Sample ID	MB-4182		SampType:	MBLK		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	PBS		Batch ID:	4182		RunNo:	6117			
Prep Date:	10/8/2012		Analysis Date:	10/9/2012		SeqNo:	176280		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		110	80	120			

Sample ID	LCS-4182		SampType:	LCS		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	LCSS		Batch ID:	4182		RunNo:	6117			
Prep Date:	10/8/2012		Analysis Date:	10/9/2012		SeqNo:	176281		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.050	1.000	0	109	76.3	117			
Toluene	1.1	0.050	1.000	0	107	80	120			
Ethylbenzene	1.1	0.050	1.000	0	108	77	116			
Xylenes, Total	3.3	0.10	3.000	0	108	76.7	117			
Surr: 4-Bromofluorobenzene	1.2		1.000		117	80	120			

Sample ID	1210356-007AMS		SampType:	MS		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	Cell 9B		Batch ID:	4182		RunNo:	6117			
Prep Date:	10/8/2012		Analysis Date:	10/9/2012		SeqNo:	176286		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.048	0.9662	0.01274	117	67.2	113			S
Toluene	1.2	0.048	0.9662	0.02902	117	62.1	116			S
Ethylbenzene	1.2	0.048	0.9662	0.004127	119	67.9	127			
Xylenes, Total	3.5	0.097	2.899	0.01920	119	60.6	134			
Surr: 4-Bromofluorobenzene	1.1		0.9662		116	80	120			

Sample ID	1210356-007AMSD		SampType:	MSD		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	Cell 9B		Batch ID:	4182		RunNo:	6117			
Prep Date:	10/8/2012		Analysis Date:	10/9/2012		SeqNo:	176287		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.049	0.9737	0.01274	114	67.2	113	2.07	14.3	S
Toluene	1.1	0.049	0.9737	0.02902	114	62.1	116	2.13	15.9	
Ethylbenzene	1.1	0.049	0.9737	0.004127	116	67.9	127	2.41	14.4	
Xylenes, Total	3.4	0.097	2.921	0.01920	117	60.6	134	1.51	12.6	
Surr: 4-Bromofluorobenzene	1.1		0.9737		116	80	120	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1210356

19-Oct-12

Client: Blagg Engineering
Project: JFJ Landfarm Quarterly

Sample ID	MB-4212		SampType:	MBLK		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	PBS		Batch ID:	4212		RunNo:	6152			
Prep Date:	10/9/2012		Analysis Date:	10/10/2012		SeqNo:	177271		Units: %REC	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.1		1.000		114	80	120			

Sample ID	LCS-4212		SampType:	LCS		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	LCSS		Batch ID:	4212		RunNo:	6152			
Prep Date:	10/9/2012		Analysis Date:	10/10/2012		SeqNo:	177272		Units: %REC	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.2		1.000		120	80	120			

Sample ID	1210474-001AMS		SampType:	MS		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	BatchQC		Batch ID:	4212		RunNo:	6152			
Prep Date:	10/9/2012		Analysis Date:	10/10/2012		SeqNo:	177278		Units: %REC	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	5.5		4.869		112	80	120			

Sample ID	1210474-001AMSD		SampType:	MSD		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	BatchQC		Batch ID:	4212		RunNo:	6152			
Prep Date:	10/9/2012		Analysis Date:	10/10/2012		SeqNo:	177279		Units: %REC	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	5.4		4.836		113	80	120	0	0	

Qualifiers:

- | | |
|--|--|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| E Value above quantitation range | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit |
| P Sample pH greater than 2 | R RPD outside accepted recovery limits |



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87105
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: BLAGG Work Order Number: 1210356

Received by/date: AG 10/04/12

Logged By: Anne Thorne 10/4/2012 10:34:00 AM

Completed By: Anne Thorne 10/5/2012

Reviewed By: [Signature] 10/05/12

Chain of Custody

1. Were seals intact? Yes ☐ No ☐ Not Present ☒
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? Courier

Log In

4. Coolers are present? (see 19. for cooler specific information) Yes ☒ No ☐ NA ☐
5. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
6. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
7. Sample(s) in proper container(s)? Yes ☒ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
10. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
11. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
12. Were any sample containers received broken? Yes ☐ No ☒
13. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
14. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
15. Is it clear what analyses were requested? Yes ☒ No ☐
16. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (If applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____ Date: _____
By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding: _____
Client Instructions: _____

18. Additional remarks:

19. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			

BLAGG ENGINEERING, INC.

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

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

RECEIVED 030

CERTIFIED

7007 0220 0004 3556 7790 2012 06 15

June 15, 2012

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
March 29, 2012 and May 31, 2012 Sample Events

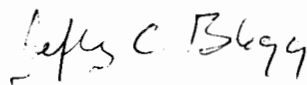
Dear Mr. Jones:

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 two (2) quarterly sample events conducted on March 29, 2012 and May 31, 2012.

Sampling protocol included collection of native soils below the treatment zone. A sample spade and 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. For the March 29, 2012 event samples were collected from active cell units 2h, 3a, 4e, 7g, 8g, 9h, 11a, 12b and 13f (see attached figure). For the May 31, 2012 event samples were collected from active cell units 2c, 3c, 4a, 7c, 8c, 9a, 11a, 12c and 13 g. All testing found total petroleum hydrocarbons, BTEX, and chloride within permit limits.

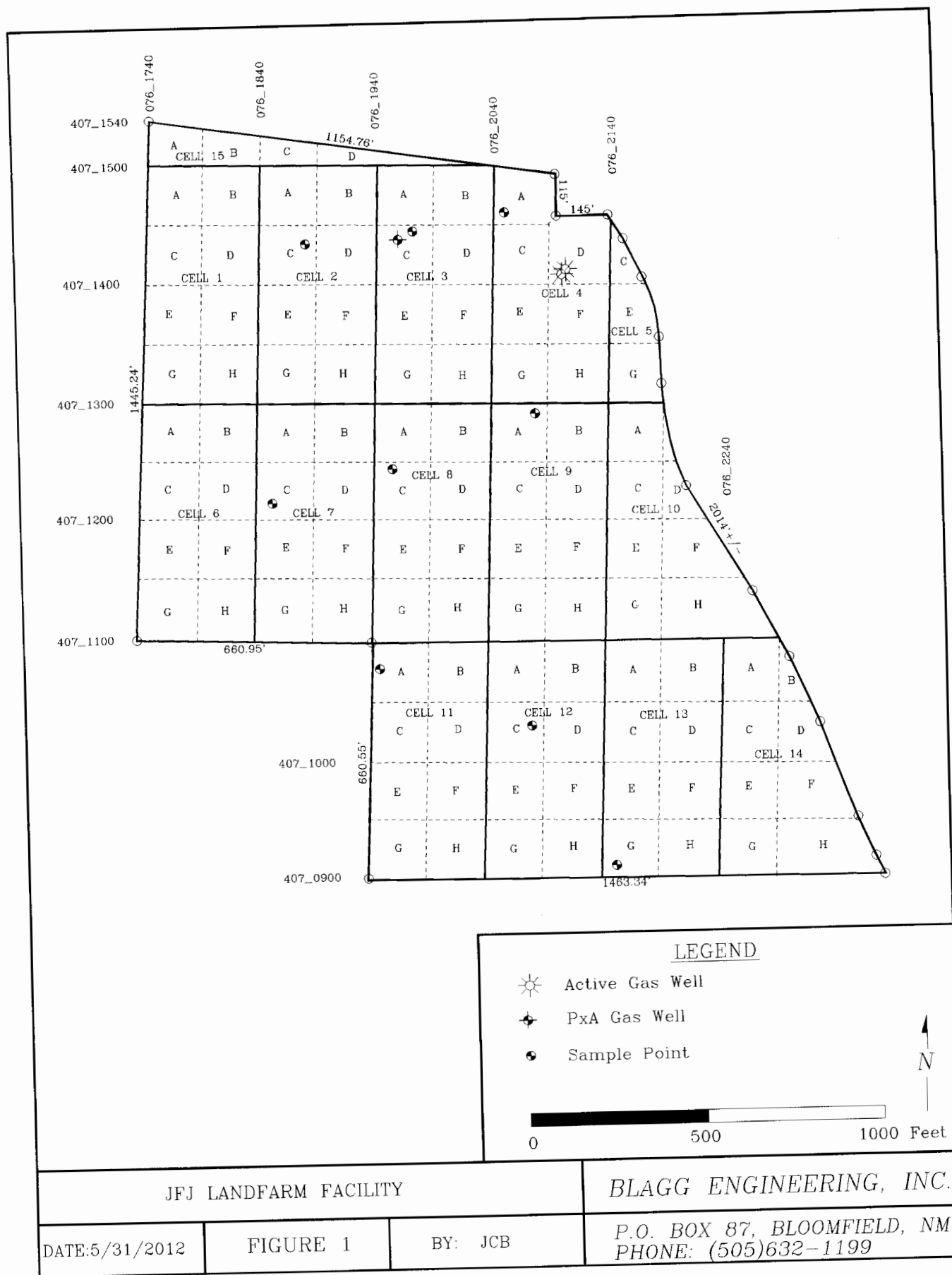
Questions or comments concerning this transmittal may be directed to myself at (505)632-1199 or Jake Hatcher with JFJ Landfarm L.L.C. at (505)632-1786.

Respectfully submitted:
Blagg Engineering, Inc.


Jeffrey C. Blagg, P.E.
President

Attachments: Site Diagrams
Analytical Test Reports

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





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

June 08, 2012

Jeff Blagg

Blagg Engineering

P. O. Box 87

Bloomfield, NM 87413

TEL: (505) 320-1183

FAX (505) 632-3903

RE: JFJ Landfarm

OrderNo.: 1206104

Dear Jeff Blagg:

Hall Environmental Analysis Laboratory received 9 sample(s) on 6/5/2012 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

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

Sincerely,

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1206104

Date Reported: 6/8/2012

CLIENT: Blagg Engineering

Client Sample ID: Cell 4A

Project: JFJ Landfarm

Collection Date: 5/31/2012 10:25:00 AM

Lab ID: 1206104-001

Matrix: SOIL

Received Date: 6/5/2012 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/7/2012 8:18:16 AM
Surr: DNOP	117	82.1-121		%REC	1	6/7/2012 8:18:16 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/7/2012 6:00:01 PM
Surr: BFB	91.9	69.7-121		%REC	1	6/7/2012 6:00:01 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.049		mg/Kg	1	6/7/2012 6:00:01 PM
Toluene	ND	0.049		mg/Kg	1	6/7/2012 6:00:01 PM
Ethylbenzene	ND	0.049		mg/Kg	1	6/7/2012 6:00:01 PM
Xylenes, Total	ND	0.098		mg/Kg	1	6/7/2012 6:00:01 PM
Surr: 4-Bromofluorobenzene	96.6	80-120		%REC	1	6/7/2012 6:00:01 PM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Chloride	5.0	1.5		mg/Kg	1	6/6/2012 12:14:32 PM

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1206104

Date Reported: 6/8/2012

CLIENT: Blagg Engineering**Client Sample ID:** Cell 3C**Project:** JFJ Landfarm**Collection Date:** 5/31/2012 10:50:00 AM**Lab ID:** 1206104-002**Matrix:** SOIL**Received Date:** 6/5/2012 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/7/2012 8:39:58 AM
Surr: DNOP	121	82.1-121	S	%REC	1	6/7/2012 8:39:58 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/7/2012 6:28:50 PM
Surr: BFB	90.9	69.7-121		%REC	1	6/7/2012 6:28:50 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.048		mg/Kg	1	6/7/2012 6:28:50 PM
Toluene	ND	0.048		mg/Kg	1	6/7/2012 6:28:50 PM
Ethylbenzene	ND	0.048		mg/Kg	1	6/7/2012 6:28:50 PM
Xylenes, Total	ND	0.095		mg/Kg	1	6/7/2012 6:28:50 PM
Surr: 4-Bromofluorobenzene	94.8	80-120		%REC	1	6/7/2012 6:28:50 PM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Chloride	ND	1.5		mg/Kg	1	6/6/2012 12:39:21 PM

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

Analytical Report

Lab Order 1206104

Date Reported: 6/8/2012

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Blagg Engineering**Project:** JFJ Landfarm**Lab ID:** 1206104-003**Client Sample ID:** Cell 2C**Collection Date:** 5/31/2012 11:10:00 AM**Received Date:** 6/5/2012 9:50:00 AM**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/7/2012 9:01:35 AM
Surr: DNOP	119	82.1-121		%REC	1	6/7/2012 9:01:35 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/7/2012 6:57:40 PM
Surr: BFB	90.9	69.7-121		%REC	1	6/7/2012 6:57:40 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.048		mg/Kg	1	6/7/2012 6:57:40 PM
Toluene	ND	0.048		mg/Kg	1	6/7/2012 6:57:40 PM
Ethylbenzene	ND	0.048		mg/Kg	1	6/7/2012 6:57:40 PM
Xylenes, Total	ND	0.097		mg/Kg	1	6/7/2012 6:57:40 PM
Surr: 4-Bromofluorobenzene	94.8	80-120		%REC	1	6/7/2012 6:57:40 PM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Chloride	ND	1.5		mg/Kg	1	6/6/2012 1:28:59 PM

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1206104

Date Reported: 6/8/2012

CLIENT: Blagg Engineering

Client Sample ID: Cell 7C

Project: JFJ Landfarm

Collection Date: 5/31/2012 11:35:00 AM

Lab ID: 1206104-004

Matrix: SOIL

Received Date: 6/5/2012 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/7/2012 9:29:40 AM
Surr: DNOP	118	82.1-121		%REC	1	6/7/2012 9:29:40 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/7/2012 7:26:29 PM
Surr: BFB	90.3	69.7-121		%REC	1	6/7/2012 7:26:29 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.048		mg/Kg	1	6/7/2012 7:26:29 PM
Toluene	ND	0.048		mg/Kg	1	6/7/2012 7:26:29 PM
Ethylbenzene	ND	0.048		mg/Kg	1	6/7/2012 7:26:29 PM
Xylenes, Total	ND	0.095		mg/Kg	1	6/7/2012 7:26:29 PM
Surr: 4-Bromofluorobenzene	94.8	80-120		%REC	1	6/7/2012 7:26:29 PM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Chloride	ND	7.5		mg/Kg	5	6/6/2012 1:53:48 PM

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1206104

Date Reported: 6/8/2012

CLIENT: Blagg Engineering

Client Sample ID: Cell 8C

Project: JFJ Landfarm

Collection Date: 5/31/2012 12:15:00 PM

Lab ID: 1206104-005

Matrix: SOIL

Received Date: 6/5/2012 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/7/2012 9:51:13 AM
Surr: DNOP	120	82.1-121		%REC	1	6/7/2012 9:51:13 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/8/2012 12:13:59 AM
Surr: BFB	88.9	69.7-121		%REC	1	6/8/2012 12:13:59 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.048		mg/Kg	1	6/8/2012 12:13:59 AM
Toluene	ND	0.048		mg/Kg	1	6/8/2012 12:13:59 AM
Ethylbenzene	ND	0.048		mg/Kg	1	6/8/2012 12:13:59 AM
Xylenes, Total	ND	0.097		mg/Kg	1	6/8/2012 12:13:59 AM
Surr: 4-Bromofluorobenzene	92.8	80-120		%REC	1	6/8/2012 12:13:59 AM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Chloride	5.2	1.5		mg/Kg	1	6/6/2012 2:43:27 PM

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1206104

Date Reported: 6/8/2012

CLIENT: Blagg Engineering

Client Sample ID: Cell 9A

Project: JFJ Landfarm

Collection Date: 5/31/2012 12:55:00 PM

Lab ID: 1206104-006

Matrix: SOIL

Received Date: 6/5/2012 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/7/2012 10:34:33 AM
Surr: DNOP	119	82.1-121		%REC	1	6/7/2012 10:34:33 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/8/2012 12:42:44 AM
Surr: BFB	90.7	69.7-121		%REC	1	6/8/2012 12:42:44 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.049		mg/Kg	1	6/8/2012 12:42:44 AM
Toluene	ND	0.049		mg/Kg	1	6/8/2012 12:42:44 AM
Ethylbenzene	ND	0.049		mg/Kg	1	6/8/2012 12:42:44 AM
Xylenes, Total	ND	0.098		mg/Kg	1	6/8/2012 12:42:44 AM
Surr: 4-Bromofluorobenzene	95.0	80-120		%REC	1	6/8/2012 12:42:44 AM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Chloride	ND	15		mg/Kg	10	6/6/2012 3:08:16 PM

Qualifiers:

- * /X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

Analytical Report

Lab Order 1206104

Date Reported: 6/8/2012

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Blagg Engineering**Client Sample ID:** Cell 11A**Project:** JFJ Landfarm**Collection Date:** 5/31/2012 1:30:00 PM**Lab ID:** 1206104-007**Matrix:** SOIL**Received Date:** 6/5/2012 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/7/2012 10:56:17 AM
Surr: DNOP	124	82.1-121	S	%REC	1	6/7/2012 10:56:17 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/8/2012 1:11:27 AM
Surr: BFB	91.6	69.7-121		%REC	1	6/8/2012 1:11:27 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	6/8/2012 1:11:27 AM
Toluene	ND	0.050		mg/Kg	1	6/8/2012 1:11:27 AM
Ethylbenzene	ND	0.050		mg/Kg	1	6/8/2012 1:11:27 AM
Xylenes, Total	ND	0.099		mg/Kg	1	6/8/2012 1:11:27 AM
Surr: 4-Bromofluorobenzene	96.8	80-120		%REC	1	6/8/2012 1:11:27 AM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Chloride	ND	7.5		mg/Kg	5	6/6/2012 3:20:42 PM

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1206104

Date Reported: 6/8/2012

CLIENT: Blagg Engineering

Client Sample ID: Cell 12C

Project: JFJ Landfarm

Collection Date: 5/31/2012 2:10:00 PM

Lab ID: 1206104-008

Matrix: SOIL

Received Date: 6/5/2012 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	54	10		mg/Kg	1	6/8/2012 8:54:16 AM
Surr: DNOP	111	82.1-121		%REC	1	6/8/2012 8:54:16 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/8/2012 1:40:04 AM
Surr: BFB	92.1	69.7-121		%REC	1	6/8/2012 1:40:04 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.049		mg/Kg	1	6/8/2012 1:40:04 AM
Toluene	ND	0.049		mg/Kg	1	6/8/2012 1:40:04 AM
Ethylbenzene	ND	0.049		mg/Kg	1	6/8/2012 1:40:04 AM
Xylenes, Total	ND	0.097		mg/Kg	1	6/8/2012 1:40:04 AM
Surr: 4-Bromofluorobenzene	96.5	80-120		%REC	1	6/8/2012 1:40:04 AM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Chloride	34	7.5		mg/Kg	5	6/6/2012 3:45:30 PM

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1206104

Date Reported: 6/8/2012

CLIENT: Blagg Engineering

Client Sample ID: Cell 13G

Project: JFJ Landfarm

Collection Date: 5/31/2012 2:25:00 PM

Lab ID: 1206104-009

Matrix: SOIL

Received Date: 6/5/2012 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	6/7/2012 11:17:58 AM
Surr: DNOP	118	82.1-121		%REC	1	6/7/2012 11:17:58 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/8/2012 2:08:55 AM
Surr: BFB	92.5	69.7-121		%REC	1	6/8/2012 2:08:55 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	6/8/2012 2:08:55 AM
Toluene	ND	0.050		mg/Kg	1	6/8/2012 2:08:55 AM
Ethylbenzene	ND	0.050		mg/Kg	1	6/8/2012 2:08:55 AM
Xylenes, Total	ND	0.10		mg/Kg	1	6/8/2012 2:08:55 AM
Surr: 4-Bromofluorobenzene	97.6	80-120		%REC	1	6/8/2012 2:08:55 AM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Chloride	ND	7.5		mg/Kg	5	6/6/2012 4:10:19 PM

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1206104

08-Jun-12

Client: Blagg Engineering

Project: JFJ Landfarm

Sample ID	MB-2259	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	2259	RunNo:	3259					
Prep Date:	6/6/2012	Analysis Date:	6/6/2012	SeqNo:	90444	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-2259	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	2259	RunNo:	3259					
Prep Date:	6/6/2012	Analysis Date:	6/6/2012	SeqNo:	90445	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	96.4	90	110			

Sample ID	1206102-001AMS	SampType:	MS	TestCode:	EPA Method 300.0: Anions					
Client ID:	BatchQC	Batch ID:	2259	RunNo:	3259					
Prep Date:	6/6/2012	Analysis Date:	6/6/2012	SeqNo:	90447	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	16	7.5	15.00	3.105	85.4	74.6	118			

Sample ID	1206102-001AMSD	SampType:	MSD	TestCode:	EPA Method 300.0: Anions					
Client ID:	BatchQC	Batch ID:	2259	RunNo:	3259					
Prep Date:	6/6/2012	Analysis Date:	6/6/2012	SeqNo:	90448	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	16	7.5	15.00	3.105	89.1	74.6	118	3.42	20	

Sample ID	1206104-002AMS	SampType:	MS	TestCode:	EPA Method 300.0: Anions					
Client ID:	Cell 3C	Batch ID:	2259	RunNo:	3259					
Prep Date:	6/6/2012	Analysis Date:	6/6/2012	SeqNo:	90459	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0.6498	90.3	74.6	118			

Sample ID	1206104-002AMSD	SampType:	MSD	TestCode:	EPA Method 300.0: Anions					
Client ID:	Cell 3C	Batch ID:	2259	RunNo:	3259					
Prep Date:	6/6/2012	Analysis Date:	6/6/2012	SeqNo:	90460	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0.6498	90.8	74.6	118	0.489	20	

Qualifiers:

* / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1206104

08-Jun-12

Client: Blagg Engineering

Project: JFJ Landfarm

Sample ID	MB-2257	SampType:	MBLK	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	PBS	Batch ID:	2257	RunNo:	3222					
Prep Date:	6/6/2012	Analysis Date:	6/6/2012	SeqNo:	89850	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	11		10.00		110	82.1	121			

Sample ID	LCS-2257	SampType:	LCS	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	2257	RunNo:	3222					
Prep Date:	6/6/2012	Analysis Date:	6/6/2012	SeqNo:	89851	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	53	10	50.00	0	106	52.6	130			
Surr: DNOP	4.9		5.000		98.9	82.1	121			

Sample ID	MB-2300	SampType:	MBLK	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	PBS	Batch ID:	2300	RunNo:	3291					
Prep Date:	6/8/2012	Analysis Date:	6/8/2012	SeqNo:	91877	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	13		10.00		126	77.6	140			

Sample ID	LCS-2300	SampType:	LCS	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	2300	RunNo:	3291					
Prep Date:	6/8/2012	Analysis Date:	6/8/2012	SeqNo:	91992	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.3		5.000		106	77.6	140			

Qualifiers:

*X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1206104

08-Jun-12

Client: Blagg Engineering

Project: JFJ Landfarm

Sample ID	MB 2252	SampType:	MBLK	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	PBS	Batch ID:	R3296	RunNo:	3296					
Prep Date:		Analysis Date:	6/7/2012	SeqNo:	91759	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	900		1000		90.4	69.7	121			

Sample ID	LCS-2252	SampType:	LCS	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	LCSS	Batch ID:	2252	RunNo:	3296					
Prep Date:	6/5/2012	Analysis Date:	6/7/2012	SeqNo:	91760	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	104	98.5	133			
Surr: BFB	980		1000		97.5	69.7	121			

Sample ID	1206102-001AMS	SampType:	MS	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	BatchQC	Batch ID:	2252	RunNo:	3296					
Prep Date:	6/5/2012	Analysis Date:	6/7/2012	SeqNo:	91767	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	4.8	24.02	2.218	100	85.4	147			
Surr: BFB	920		960.6		95.5	69.7	121			

Sample ID	1206102-001AMSD	SampType:	MSD	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	BatchQC	Batch ID:	2252	RunNo:	3296					
Prep Date:	6/5/2012	Analysis Date:	6/7/2012	SeqNo:	91768	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	4.8	24.25	2.218	104	85.4	147	4.27	19.2	
Surr: BFB	950		969.9		98.4	69.7	121	0	0	

Qualifiers:

* / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1206104

08-Jun-12

Client: Blagg Engineering

Project: JFJ Landfarm

Sample ID	MB 2252	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	R3296	RunNo:	3296					
Prep Date:		Analysis Date:	6/7/2012	SeqNo:	91853	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.95		1.000		95.4	80	120			

Sample ID	LCS-2252	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	2252	RunNo:	3296					
Prep Date:	6/5/2012	Analysis Date:	6/7/2012	SeqNo:	91854	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.050	1.000	0	100	83.3	107			
Toluene	0.99	0.050	1.000	0	99.1	74.3	115			
Ethylbenzene	0.97	0.050	1.000	0	97.3	80.9	122			
Xylenes, Total	3.0	0.10	3.000	0	99.1	85.2	123			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	80	120			

Qualifiers:

*X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87105
TEL: 505-345-3975 FAX: 505-345-4105
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: BLAGG Work Order Number: 1208104

Received by/date: LM 06/05/12

Logged By: Anne Thorne 6/5/2012 9:50:00 AM

Completed By: Anne Thorne 6/5/2012

Reviewed By: [Signature] 06/05/12

Chain of Custody

1. Were seals intact? Yes ☐ No ☐ Not Present ☒
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? Courier

Log In

4. Coolers are present? (see 19. for cooler specific information) Yes ☒ No ☐ NA ☐
5. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
6. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
7. Sample(s) in proper container(s)? Yes ☒ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
10. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
11. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
12. Were any sample containers received broken? Yes ☐ No ☒
13. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
14. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
15. Is it clear what analyses were requested? Yes ☒ No ☐
16. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (If applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

18. Additional remarks:

19. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.7	Good	Yes			

☒ Standard ☐ Rush

JFI LANDFARM

Bloomfield, NM 87413

email or Fax#:

☒ Standard

☐ NELAP ☐ Other

[illegible]

Container	Preservative
-----------	--------------

Container	Preservative
-----------	--------------

1025

CELL 4A

1025

1050

cell 3C

0111

CELL 2C

1135

Cell 7C

1215

CELL 8C

1255

CELL 9A

1330

CELL 11A

1410

CELL 12C

1425

CELL 136

Relinquished by:

Received by:	Date	Time
--------------	------	------

1335

W. B. B. B.

Christi. Welt 6/12 1335

Relinquished by:

Received by:	Date	Time
--------------	------	------

□

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11

Remarks: GRO + DRO ON 801513

If necessary, samples submitted in Hall Environments may be submitted in other accredited laboratories. This submission is subject to the following conditions:



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

April 09, 2012

Jeff Blagg

Blagg Engineering

P. O. Box 87

Bloomfield, NM 87413

TEL: (505) 320-1183

FAX (505) 632-3903

RE: JFJ Landfarm Quarterly

OrderNo.: 1204090

Dear Jeff Blagg:

Hall Environmental Analysis Laboratory received 9 sample(s) on 4/3/2012 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

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", is written over a horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1204090

Date Reported: 4/9/2012

CLIENT: Blagg Engineering

Client Sample ID: Cell 2H

Project: JFJ Landfarm Quarterly

Collection Date: 3/29/2012 9:30:00 AM

Lab ID: 1204090-001

Matrix: SOIL

Received Date: 4/3/2012 10:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	4/6/2012 5:57:35 AM
Surr: DNOP	73.9	77.4-131	S	%REC	1	4/6/2012 5:57:35 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/6/2012 1:01:33 AM
Surr: BFB	95.4	69.7-121		%REC	1	4/6/2012 1:01:33 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.047		mg/Kg	1	4/6/2012 1:01:33 AM
Toluene	ND	0.047		mg/Kg	1	4/6/2012 1:01:33 AM
Ethylbenzene	ND	0.047		mg/Kg	1	4/6/2012 1:01:33 AM
Xylenes, Total	ND	0.093		mg/Kg	1	4/6/2012 1:01:33 AM
Surr: 4-Bromofluorobenzene	91.2	80-120		%REC	1	4/6/2012 1:01:33 AM
EPA METHOD 300.0: ANIONS						Analyst: BRM
Chloride	12	1.5		mg/Kg	1	4/5/2012 1:02:34 PM

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1204090

Date Reported: 4/9/2012

CLIENT: Blagg Engineering

Client Sample ID: Cell 3A

Project: JFJ Landfarm Quarterly

Collection Date: 3/29/2012 9:55:00 AM

Lab ID: 1204090-002

Matrix: SOIL

Received Date: 4/3/2012 10:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	4/5/2012 2:36:23 PM
Surr: DNOP	99.8	77.4-131		%REC	1	4/5/2012 2:36:23 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/6/2012 1:30:14 AM
Surr: BFB	94.8	69.7-121		%REC	1	4/6/2012 1:30:14 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.048		mg/Kg	1	4/6/2012 1:30:14 AM
Toluene	ND	0.048		mg/Kg	1	4/6/2012 1:30:14 AM
Ethylbenzene	ND	0.048		mg/Kg	1	4/6/2012 1:30:14 AM
Xylenes, Total	ND	0.095		mg/Kg	1	4/6/2012 1:30:14 AM
Surr: 4-Bromofluorobenzene	90.7	80-120		%REC	1	4/6/2012 1:30:14 AM
EPA METHOD 300.0: ANIONS						Analyst: BRM
Chloride	ND	7.5		mg/Kg	5	4/5/2012 1:27:24 PM

Qualifiers: *X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1204090

Date Reported: 4/9/2012

CLIENT: Blagg Engineering

Client Sample ID: Cell 4E

Project: JFJ Landfarm Quarterly

Collection Date: 3/29/2012 10:20:00 AM

Lab ID: 1204090-003

Matrix: SOIL

Received Date: 4/3/2012 10:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	4/5/2012 2:58:04 PM
Surr: DNOP	97.6	77.4-131		%REC	1	4/5/2012 2:58:04 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/6/2012 1:58:54 AM
Surr: BFB	93.7	69.7-121		%REC	1	4/6/2012 1:58:54 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.047		mg/Kg	1	4/6/2012 1:58:54 AM
Toluene	ND	0.047		mg/Kg	1	4/6/2012 1:58:54 AM
Ethylbenzene	ND	0.047		mg/Kg	1	4/6/2012 1:58:54 AM
Xylenes, Total	ND	0.095		mg/Kg	1	4/6/2012 1:58:54 AM
Surr: 4-Bromofluorobenzene	89.3	80-120		%REC	1	4/6/2012 1:58:54 AM
EPA METHOD 300.0: ANIONS						Analyst: BRM
Chloride	ND	7.5		mg/Kg	5	4/5/2012 1:52:13 PM

Qualifiers: *X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1204090

Date Reported: 4/9/2012

CLIENT: Blagg Engineering

Client Sample ID: Cell 7G

Project: JFJ Landfarm Quarterly

Collection Date: 3/29/2012 7:05:00 AM

Lab ID: 1204090-004

Matrix: SOIL

Received Date: 4/3/2012 10:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	4/6/2012 6:24:14 AM
Surr: DNOP	74.0	77.4-131	S	%REC	1	4/6/2012 6:24:14 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/6/2012 2:27:45 AM
Surr: BFB	93.8	69.7-121		%REC	1	4/6/2012 2:27:45 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.048		mg/Kg	1	4/6/2012 2:27:45 AM
Toluene	ND	0.048		mg/Kg	1	4/6/2012 2:27:45 AM
Ethylbenzene	ND	0.048		mg/Kg	1	4/6/2012 2:27:45 AM
Xylenes, Total	ND	0.096		mg/Kg	1	4/6/2012 2:27:45 AM
Surr: 4-Bromofluorobenzene	88.5	80-120		%REC	1	4/6/2012 2:27:45 AM
EPA METHOD 300.0: ANIONS						Analyst: BRM
Chloride	45	1.5		mg/Kg	1	4/5/2012 2:54:16 PM

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1204090

Date Reported: 4/9/2012

CLIENT: Blagg Engineering

Client Sample ID: Cell 8G

Project: JFJ Landfarm Quarterly

Collection Date: 3/29/2012 7:35:00 AM

Lab ID: 1204090-005

Matrix: SOIL

Received Date: 4/3/2012 10:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	4/6/2012 6:45:28 AM
Surr: DNOP	73.6	77.4-131	S	%REC	1	4/6/2012 6:45:28 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/6/2012 2:56:32 AM
Surr: BFB	94.0	69.7-121		%REC	1	4/6/2012 2:56:32 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.047		mg/Kg	1	4/6/2012 2:56:32 AM
Toluene	ND	0.047		mg/Kg	1	4/6/2012 2:56:32 AM
Ethylbenzene	ND	0.047		mg/Kg	1	4/6/2012 2:56:32 AM
Xylenes, Total	ND	0.094		mg/Kg	1	4/6/2012 2:56:32 AM
Surr: 4-Bromofluorobenzene	88.1	80-120		%REC	1	4/6/2012 2:56:32 AM
EPA METHOD 300.0: ANIONS						Analyst: BRM
Chloride	16	1.5		mg/Kg	1	4/5/2012 3:19:05 PM

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**

Lab Order 1204090

Date Reported: 4/9/2012

CLIENT: Blagg Engineering**Client Sample ID:** Cell 9H**Project:** JFJ Landfarm Quarterly**Collection Date:** 3/29/2012 8:10:00 AM**Lab ID:** 1204090-006**Matrix:** SOIL**Received Date:** 4/3/2012 10:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	4/5/2012 4:02:25 PM
Surr: DNOP	102	77.4-131		%REC	1	4/5/2012 4:02:25 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/6/2012 3:25:17 AM
Surr: BFB	93.8	69.7-121		%REC	1	4/6/2012 3:25:17 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.049		mg/Kg	1	4/6/2012 3:25:17 AM
Toluene	ND	0.049		mg/Kg	1	4/6/2012 3:25:17 AM
Ethylbenzene	ND	0.049		mg/Kg	1	4/6/2012 3:25:17 AM
Xylenes, Total	ND	0.098		mg/Kg	1	4/6/2012 3:25:17 AM
Surr: 4-Bromofluorobenzene	89.3	80-120		%REC	1	4/6/2012 3:25:17 AM
EPA METHOD 300.0: ANIONS						Analyst: BRM
Chloride	9.7	7.5		mg/Kg	5	4/5/2012 3:43:55 PM

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1204090

Date Reported: 4/9/2012

CLIENT: Blagg Engineering

Client Sample ID: Cell 11A

Project: JFJ Landfarm Quarterly

Collection Date: 3/29/2012 8:30:00 AM

Lab ID: 1204090-007

Matrix: SOIL

Received Date: 4/3/2012 10:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	4/5/2012 4:45:23 PM
Surr: DNOP	99.1	77.4-131		%REC	1	4/5/2012 4:45:23 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/6/2012 12:02:32 PM
Surr: BFB	92.2	69.7-121		%REC	1	4/6/2012 12:02:32 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	4/6/2012 12:02:32 PM
Toluene	ND	0.050		mg/Kg	1	4/6/2012 12:02:32 PM
Ethylbenzene	ND	0.050		mg/Kg	1	4/6/2012 12:02:32 PM
Xylenes, Total	ND	0.10		mg/Kg	1	4/6/2012 12:02:32 PM
Surr: 4-Bromofluorobenzene	87.5	80-120		%REC	1	4/6/2012 12:02:32 PM
EPA METHOD 300.0: ANIONS						Analyst: BRM
Chloride	11	7.5		mg/Kg	5	4/5/2012 4:08:43 PM

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1204090

Date Reported: 4/9/2012

CLIENT: Blagg Engineering

Client Sample ID: Cell 12B

Project: JFJ Landfarm Quarterly

Collection Date: 3/29/2012 8:45:00 AM

Lab ID: 1204090-008

Matrix: SOIL

Received Date: 4/3/2012 10:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	4/5/2012 5:06:50 PM
Surr: DNOP	99.7	77.4-131		%REC	1	4/5/2012 5:06:50 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/6/2012 12:31:18 PM
Surr: BFB	93.1	69.7-121		%REC	1	4/6/2012 12:31:18 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	4/6/2012 12:31:18 PM
Toluene	ND	0.050		mg/Kg	1	4/6/2012 12:31:18 PM
Ethylbenzene	ND	0.050		mg/Kg	1	4/6/2012 12:31:18 PM
Xylenes, Total	ND	0.10		mg/Kg	1	4/6/2012 12:31:18 PM
Surr: 4-Bromofluorobenzene	89.0	80-120		%REC	1	4/6/2012 12:31:18 PM
EPA METHOD 300.0: ANIONS						Analyst: BRM
Chloride	12	7.5		mg/Kg	5	4/5/2012 4:33:32 PM

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1204090

Date Reported: 4/9/2012

CLIENT: Blagg Engineering

Client Sample ID: Cell 13F

Project: JFJ Landfarm Quarterly

Collection Date: 3/29/2012 9:00:00 AM

Lab ID: 1204090-009

Matrix: SOIL

Received Date: 4/3/2012 10:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	11	10		mg/Kg	1	4/5/2012 5:28:10 PM
Surr: DNOP	102	77.4-131		%REC	1	4/5/2012 5:28:10 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/6/2012 1:00:02 PM
Surr: BFB	91.9	69.7-121		%REC	1	4/6/2012 1:00:02 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.049		mg/Kg	1	4/6/2012 1:00:02 PM
Toluene	ND	0.049		mg/Kg	1	4/6/2012 1:00:02 PM
Ethylbenzene	ND	0.049		mg/Kg	1	4/6/2012 1:00:02 PM
Xylenes, Total	ND	0.097		mg/Kg	1	4/6/2012 1:00:02 PM
Surr: 4-Bromofluorobenzene	88.5	80-120		%REC	1	4/6/2012 1:00:02 PM
EPA METHOD 300.0: ANIONS						Analyst: BRM
Chloride	ND	7.5		mg/Kg	5	4/5/2012 5:23:10 PM

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1204090

09-Apr-12

Client: Blagg Engineering
Project: JFJ Landfarm Quarterly

Sample ID	MB-1388	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	1388	RunNo:	1948					
Prep Date:	4/4/2012	Analysis Date:	4/5/2012	SeqNo:	54238	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-1388	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	1388	RunNo:	1948					
Prep Date:	4/4/2012	Analysis Date:	4/5/2012	SeqNo:	54239	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.0	90	110			

Sample ID	1204090-003AMS	SampType:	MS	TestCode:	EPA Method 300.0: Anions					
Client ID:	Cell 4E	Batch ID:	1388	RunNo:	1948					
Prep Date:	4/4/2012	Analysis Date:	4/5/2012	SeqNo:	54246	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	16	7.5	15.00	3.900	82.6	74.6	118			

Sample ID	1204090-003AMSD	SampType:	MSD	TestCode:	EPA Method 300.0: Anions					
Client ID:	Cell 4E	Batch ID:	1388	RunNo:	1948					
Prep Date:	4/4/2012	Analysis Date:	4/5/2012	SeqNo:	54247	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	16	7.5	15.00	3.900	83.9	74.6	118	1.18	20	

Qualifiers:

*X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1204090

09-Apr-12

Client: Blagg Engineering
Project: JFJ Landfarm Quarterly

Sample ID	MB-1383	SampType:	MBLK	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	PBS	Batch ID:	1383	RunNo:	1917					
Prep Date:	4/4/2012	Analysis Date:	4/5/2012	SeqNo:	53685	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	8.7		10.00		86.8	77.4	131			

Sample ID	LCS-1383	SampType:	LCS	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	1383	RunNo:	1917					
Prep Date:	4/4/2012	Analysis Date:	4/5/2012	SeqNo:	53686	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	40	10	50.00	0	80.1	62.7	139			
Surr: DNOP	5.4		5.000		108	77.4	131			

Sample ID	1204090-001AMS	SampType:	MS	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	Cell 2H	Batch ID:	1383	RunNo:	1917					
Prep Date:	4/4/2012	Analysis Date:	4/5/2012	SeqNo:	53976	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	38	9.8	48.92	0	77.3	57.2	146			
Surr: DNOP	3.3		4.892		66.9	77.4	131			S

Sample ID	1204090-001AMSD	SampType:	MSD	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	Cell 2H	Batch ID:	1383	RunNo:	1917					
Prep Date:	4/4/2012	Analysis Date:	4/5/2012	SeqNo:	53983	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	38	9.7	48.64	0	78.4	57.2	146	0.818	26.7	
Surr: DNOP	2.7		4.864		55.9	77.4	131	0	0	S

Qualifiers:

*X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1204090

09-Apr-12

Client: Blagg Engineering
Project: JFJ Landfarm Quarterly

Sample ID	MB-1380	SampType:	MBLK	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	PBS	Batch ID:	1380	RunNo:	1936					
Prep Date:	4/4/2012	Analysis Date:	4/6/2012	SeqNo:	54558	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	940		1,000		94.4	69.7	121			

Sample ID	LCS-1380	SampType:	LCS	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	LCSS	Batch ID:	1380	RunNo:	1936					
Prep Date:	4/4/2012	Analysis Date:	4/6/2012	SeqNo:	54560	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	30	5.0	25.00	0	118	98.5	133			
Surr: BFB	1,000		1,000		103	69.7	121			

Sample ID	1204090-001AMS	SampType:	MS	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	Cell 2H	Batch ID:	1380	RunNo:	1936					
Prep Date:	4/4/2012	Analysis Date:	4/6/2012	SeqNo:	54582	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	4.8	23.85	0	121	85.4	147			
Surr: BFB	980		954.2		103	69.7	121			

Sample ID	1204090-001AMSD	SampType:	MSD	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	Cell 2H	Batch ID:	1380	RunNo:	1936					
Prep Date:	4/4/2012	Analysis Date:	4/6/2012	SeqNo:	54583	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	4.7	23.34	0	125	85.4	147	0.691	19.2	
Surr: BFB	980		933.7		104	69.7	121	0	0	

Qualifiers:

*X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1204090

09-Apr-12

Client: Blagg Engineering
Project: JFJ Landfarm Quarterly

Sample ID	MB-1380	SampType:	MBLK		TestCode:	EPA Method 8021B: Volatiles				
Client ID:	PBS	Batch ID:	1380		RunNo:	1937				
Prep Date:	4/4/2012	Analysis Date:	4/6/2012		SeqNo:	54587		Units:	mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.91		1.000		90.7	80	120			

Sample ID	LCS-1380	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	1380	RunNo:	1937					
Prep Date:	4/4/2012	Analysis Date:	4/6/2012	SeqNo:	54590	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.050	1.000	0	95.5	83.3	107			
Toluene	0.96	0.050	1.000	0	96.1	74.3	115			
Ethylbenzene	0.96	0.050	1.000	0	95.6	80.9	122			
Xylenes, Total	2.9	0.10	3.000	0	96.8	85.2	123			
Surr: 4-Bromofluorobenzene	0.94		1.000		94.3	80	120			

Sample ID	1204091-001AMS	SampType:	MS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	BatchQC	Batch ID:	1380	RunNo:	1974					
Prep Date:	4/4/2012	Analysis Date:	4/6/2012	SeqNo:	55046	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.86	0.047	0.9416	0	90.9	67.2	113			
Toluene	0.89	0.047	0.9416	0	94.1	62.1	116			
Ethylbenzene	0.89	0.047	0.9416	0	94.9	67.9	127			
Xylenes, Total	2.7	0.094	2.825	0	95.2	60.6	134			
Surr: 4-Bromofluorobenzene	0.87		0.9416		92.6	80	120			

Sample ID	1204091-001AMSD	SampType:	MSD	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	BatchQC	Batch ID:	1380	RunNo:	1974					
Prep Date:	4/4/2012	Analysis Date:	4/6/2012	SeqNo:	55047	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.82	0.047	0.9425	0	87.5	67.2	113	3.72	14.3	
Toluene	0.85	0.047	0.9425	0	90.6	62.1	116	3.72	15.9	
Ethylbenzene	0.86	0.047	0.9425	0	91.6	67.9	127	3.39	14.4	
Xylenes, Total	2.6	0.094	2.828	0	92.3	60.6	134	3.04	12.6	
Surr: 4-Bromofluorobenzene	0.86		0.9425		91.3	80	120	0	0	

Qualifiers:

*X Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
RL Reporting Detection Limit



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87105
TEL: 505-345-3975 FAX: 505-345-4101
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: **BLAGG** Work Order Number: **1204090**
Received by/date: LM 04/03/12
Logged By: **Anne Thorne** 4/3/2012 10:30:00 AM *Anne Thorne*
Completed By: **Anne Thorne** 4/3/2012 *Anne Thorne*
Reviewed By: *[Signature]* 04/03/12

Chain of Custody

1. Were seals intact? Yes ☐ No ☐ Not Present ☒
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? Courier

Log In

4. Coolers are present? (see 19. for cooler specific information) Yes ☒ No ☐ NA ☐
5. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
6. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
7. Sample(s) in proper container(s)? Yes ☒ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
10. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
11. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
12. Were any sample containers received broken? Yes ☐ No ☒
13. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
14. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
15. Is it clear what analyses were requested? Yes ☒ No ☐
16. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:	_____	Date	_____
By Whom:	_____	Via:	☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:	_____		
Client Instructions:	_____		

18. Additional remarks:

19. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.3	Good	Yes			

Chain-of-Custody Record

Client: BLAGG ENGINEERING INC

Mailing Address: P.O. Box 87
Bloomfield, NM 87413

Phone #: 505-632-1199

email or Fax#:

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

☒ Standard Accreditation

☐ NELAP ☐ Other

☐ EDD (Type)

Turn-Around Time:

☒ Standard ☐ Rush

Project Name:

JFJ LANDFARM - QUANTILLY

Project #:

Project Manager:

J. Blagg

Sampler: J. Blagg

Date Time Matrix Sample Request ID

Container Type and #

Preservative Type

3/29/12	0930	SOIL	CELL 2H	4oz x 1	COOL	-001
"	0955	"	CELL 3A	"	"	-002
"	1020	"	CELL 4E	"	"	-003
"	0705	"	CELL 7G	"	"	-004
"	0735	"	CELL 8G	"	"	-005
"	0810	"	CELL 9H	"	"	-006
"	0830	"	CELL 11A	"	"	-007
"	0845	"	CELL 12B	"	"	-008
"	0900	"	CELL 13F	"	"	-009

Relinquished by:

Received by:

Date Time

J. Blagg 4/3/12 0902

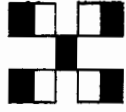
Relinquished by:

Received by:

Date Time

Christine Walters 4/12/12 1030

Remarks: GRO + DRO ON 8015 B



**HALL ENVIRONMENTAL,
ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

BTX + MTBE + TPH (Gas only)	BTX + MTBE + TPH (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PMA or PAH)	RCRA 8 Metals	Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	CHLORIDE	Air Bubbles (Y or N)
X	X	X	X	X	X	X	X	X	X	X	
X	X	X	X	X	X	X	X	X	X	X	
X	X	X	X	X	X	X	X	X	X	X	
X	X	X	X	X	X	X	X	X	X	X	
X	X	X	X	X	X	X	X	X	X	X	
X	X	X	X	X	X	X	X	X	X	X	
X	X	X	X	X	X	X	X	X	X	X	
X	X	X	X	X	X	X	X	X	X	X	
X	X	X	X	X	X	X	X	X	X	X	
X	X	X	X	X	X	X	X	X	X	X	

State of New Mexico
Energy, Minerals and Natural Resources Department

Susana Martinez
Governor

John Bemis
Cabinet Secretary

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

Jami Bailey
Division Director
Oil Conservation Division



May 15, 2012

Ms. Marcella Marquez
JFJ Landfarm, L.L.C.
Industrial Ecosystems Inc.
Soil Reclamation Center
P.O. Box 2043
Farmington, New Mexico 87499

RE: Clarification Regarding Request for Approval of On-Site Disposition of Remediated Soils
JFJ Landfarm, LLC - Industrial Ecosystems Inc.
JFJ Landfarm – Permit # NM1-010-B
Location: NW/4 SE/4 of Section 2, Township 29 North, Range 12 West, NMPM,
San Juan County, New Mexico

Dear Ms. Marquez:

The Oil Conservation Division (OCD) has received JFJ Landfarm, LLC's (JFJ) inquiry, dated May 1, 2012 and emailed May 7, 2012, regarding OCD's request for a map illustrating the on-site disposition of remediated soils from the OCD permitted landfarm (Surface Waste Management Facility Permit # NM-1-0010B) to "build up" the area north of the office/shop building on the existing facility property boundary and discussion regarding the consideration of the age and use of laboratory data. OCD hopes that the following information will resolve any misunderstandings.

OCD requested the map so JFJ could properly document where treated soils will be reused within the permitted facility boundary. This information will clarify which soils will require testing, pursuant to 19.15.36.13.F NMAC, at the time of closure and which soils have already been approved by OCD for reuse within the facility boundary for site improvements. Such documentation will benefit JFJ at closure of the facility.

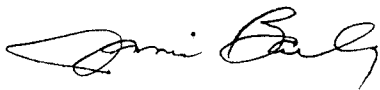
OCD apologizes for any misunderstandings regarding the use of laboratory data. Please be advised with respect to the use of laboratory data, OCD assesses laboratory data on a case-by-case basis. As previously discussed, the use of all data is not always appropriate. A good example is the one proposed in your May 1, 2012 letter regarding the use of data from 2007. If such data was presented in a request, OCD would verify that the data had not been utilized for some other type of approval. If OCD had approved the reuse of the biopile, based on the 2007

Ms. Marquez
JFJ Landfarm, LLC
Permit NM1-010-B
May 15, 2012
Page 2 of 2

data, for the stabilization and/or solidification (Condition #17 of the Landfarm And Composting Operations section of JFJ's February 3, 2003 permit) of incoming drilling mud and tank bottoms and sludge and such stabilization and/or solidification activities had occurred, then the use of 2007 data would not be appropriate for future request.

If there are any questions regarding this matter, please do not hesitate to contact Mr. Brad A. Jones of my staff at (505) 476-3487 or brad.a.jones@state.nm.us.

Sincerely,

A handwritten signature in black ink, appearing to read "Jami Bailey", with a stylized, cursive script.

Jami Bailey
Director

JB/baj

cc: OCD District III Office, Aztec



**Industrial Ecosystems Inc.
Soil Reclamation Center**

P.O. Box 2043
Farmington, NM 87499

Phone: (505) 632-1782
Fax: (505) 632-1876

#49 CR 3150
Aztec, NM 87410

May 1, 2012

NM Oil Conservation Division
Environmental Bureau
1220 S. St. Francis Drive
Santa Fe, NM 87505
Attn: Brad Jones

Dear Brad:

On 04/10/12 I submitted a request to approve biopiles for reuse along with the corresponding analytical results. You contacted me via telephone to request missing QA/QI reports along with a map of the facility showing the area that the remediated soils were to be placed. During this conversation you also stated that in the future we would need to 1) submit a map indicating the area(s) that we want to place remediated soils on IEI owned property and 2) that we can no longer use analytical reports that are more than two (2) years old. When I voiced my concerns over these new requests you stated that they are something the Division Director is requiring.

We have some questions/concerns regarding the analytical results being more than two years old. For example if we tested for BTEX in 2007 and they show as ND (non-detect), you are now requiring that we retest these constituents again because the test results are over 2 years old?

We would like to request that that these type of requirements/changes be put in writing so that we will have record of it to keep with our permit. Please feel free to do so by replying to emails or by mail.

Respectfully,

A handwritten signature in cursive script that reads 'Marcella Marquez'. The signature is written in dark ink and is positioned above the printed name and title.

Marcella Marquez
HSE Administrator

xc: Jamie Bailey, Division Director

BLAGG ENGINEERING, INC.

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

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

USPS CERTIFIED
7007 0220 0004 3556 7783

January 27, 2012

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

RECEIVED OCD
2012 JAN 31 P 1:25

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

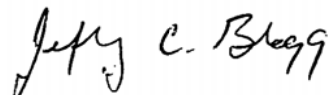
Dear Mr. Jones:

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 28/29, 2011.

Sampling protocol included collection of native soils below the treatment zone. A sample spade and 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, 3f, 4f, 7b, 8a, 9c, 11h, 12g and 13h (Figure 1). All testing found total petroleum hydrocarbons, BTEX, and chloride within permit limits.

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.

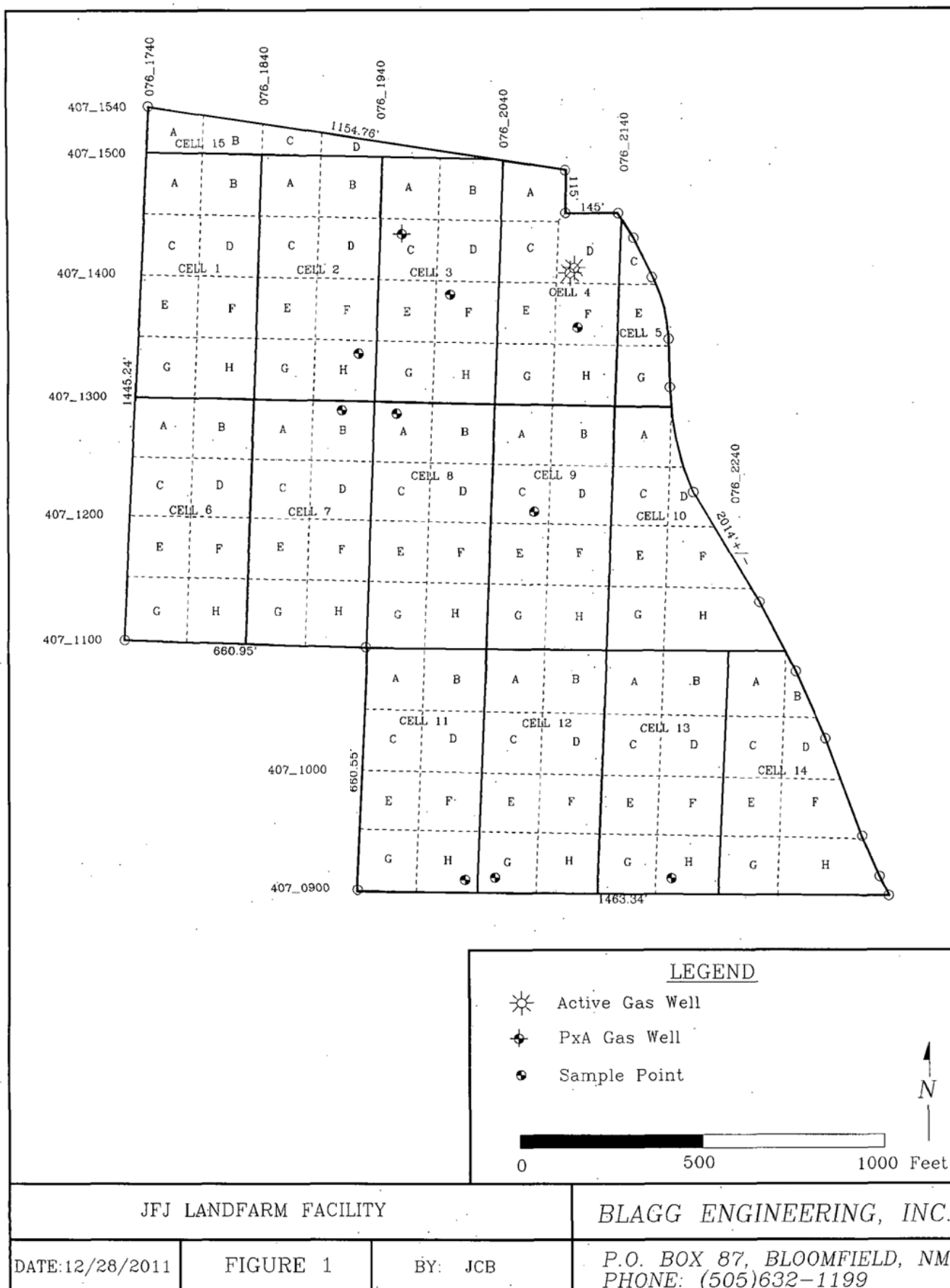
Respectfully submitted:
Blagg Engineering, Inc.



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, January 10, 2012

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

TEL: (505) 632-1199

FAX (505) 632-3903

RE: JFJ Landfarm

Order No.: 1112A18

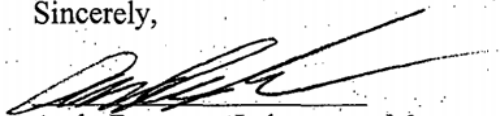
Dear Jeff Blagg:

Hall Environmental Analysis Laboratory, Inc. received 9 sample(s) on 12/30/2011 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. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

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

Chain-of-Custody Record

Client: **BLAC ENGINEERING, INC**

Mailing Address: **PO Box 97**

Bloomfield, NM 87413

Phone #: **505-632-4499**

Email or Fax#:

QA/QC Package:

☒ Standard ☐ Level 4 (Full Validation)

Accreditation

☐ NELAP ☐ Other

☐ EDD (Type)

Turn-Around Time:

☒ Standard ☐ Rush

Project Name:

JFT LAMFAAM

Project #:

Project Manager:

J. Brack

Sampler: **J. Brack**

On-site: ☒ Yes ☐ No

Sample Temperature: **11.35**

Container Type and #

Preservative Type

HEAT NO

11/24/18

BTEX + MTBE + TMB's (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, NO ₃ , NO ₂ , PO ₄ , SO ₄)	
8081 Pesticides / 8082 PCB's	
8260B (VOA)	
8270 (Semi-VOA)	

CHLORIDE

Air Bubbles (Y or N)

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAT NO	BTEX + MTBE + TMB's (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, NO ₃ , NO ₂ , PO ₄ , SO ₄)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	CHLORIDE	Air Bubbles (Y or N)
2/23/11	1400	Soil	CELL 4E	4 oz x 1	Cell	1	X		X									X	
"	1420	"	CELL 3F	"	"	2	X		X									X	
"	1435	"	CELL 2H	"	"	3	X		X									X	
"	1450	"	CELL 7B	"	"	4	X		X									X	
2/24/11	0740	"	CELL 8A	"	"	5	X		X									X	
"	0755	"	CELL 9C	"	"	6	X		X									X	
"	0820	"	CELL 11H	"	"	7	X		X									X	
"	0855	"	CELL 12G	"	"	8	X		X									X	
"	0930	"	CELL 13H	"	"	9	X		X									X	

Remarks: **620 v 620 on 8015B**

Date: **2/29/11** Time: **1053** Relinquished by: **John Bladen**

Received by: **John Bladen** Date: **2/29/11** Time: **1053**

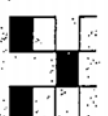
Date: **2/29/11** Time: **1053** Relinquished by: **John Bladen**

Received by: **John Bladen** Date: **2/29/11** Time: **1053**

Date: **2/29/11** Time: **1053** Relinquished by: **John Bladen**

Received by: **John Bladen** Date: **2/29/11** Time: **1053**

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



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Jan-12

Analytical Report

CLIENT: Blagg Engineering

Client Sample ID: Cell 4F

Lab Order: 1112A18

Collection Date: 12/28/2011 2:00:00 PM

Project: JFJ Landfarm

Date Received: 12/30/2011

Lab ID: 1112A18-01

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	1/4/2012 9:56:12 AM
Surr: DNOP	97.0	77.4-131		%REC	1	1/4/2012 9:56:12 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/4/2012 3:18:14 PM
Surr: BFB	78.0	69.7-121		%REC	1	1/4/2012 3:18:14 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.049		mg/Kg	1	1/4/2012 3:03:52 AM
Toluene	ND	0.049		mg/Kg	1	1/4/2012 3:03:52 AM
Ethylbenzene	ND	0.049		mg/Kg	1	1/4/2012 3:03:52 AM
Xylenes, Total	ND	0.098		mg/Kg	1	1/4/2012 3:03:52 AM
Surr: 4-Bromofluorobenzene	105	80-120		%REC	1	1/4/2012 3:03:52 AM
EPA METHOD 300.0: ANIONS						Analyst: BRM
Chloride	ND	1.5		mg/Kg	1	1/5/2012 1:54:45 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: 10-Jan-12

Analytical Report

CLIENT: Blagg Engineering

Client Sample ID: Cell-3F

Lab Order: 1112A18

Collection Date: 12/28/2011 2:20:00 PM

Project: JFJ Landfarm

Date Received: 12/30/2011

Lab ID: 1112A18-02

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	1/4/2012 11:38:37 AM
Surr: DNOP	105	77.4-131		%REC	1	1/4/2012 11:38:37 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/4/2012 3:34:10 AM
Surr: BFB	111	69.7-121		%REC	1	1/4/2012 3:34:10 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.049		mg/Kg	1	1/4/2012 3:34:10 AM
Toluene	ND	0.049		mg/Kg	1	1/4/2012 3:34:10 AM
Ethylbenzene	ND	0.049		mg/Kg	1	1/4/2012 3:34:10 AM
Xylenes, Total	ND	0.098		mg/Kg	1	1/4/2012 3:34:10 AM
Surr: 4-Bromofluorobenzene	106	80-120		%REC	1	1/4/2012 3:34:10 AM
EPA METHOD 300.0: ANIONS						Analyst: BRM
Chloride	ND	1.5		mg/Kg	1	1/5/2012 2:29:35 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

Page 2 of 9

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Jan-12

Analytical Report

CLIENT: Blagg Engineering

Client Sample ID: Cell-2H

Lab Order: 1112A18

Collection Date: 12/28/2011 2:35:00 PM

Project: JFJ Landfarm

Date Received: 12/30/2011

Lab ID: 1112A18-03

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	1/4/2012 12:46:56 PM
Surr: DNOP	114	77.4-131		%REC	1	1/4/2012 12:46:56 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/4/2012 4:04:22 AM
Surr: BFB	92.7	69.7-121		%REC	1	1/4/2012 4:04:22 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.048		mg/Kg	1	1/4/2012 4:04:22 AM
Toluene	ND	0.048		mg/Kg	1	1/4/2012 4:04:22 AM
Ethylbenzene	ND	0.048		mg/Kg	1	1/4/2012 4:04:22 AM
Xylenes, Total	ND	0.096		mg/Kg	1	1/4/2012 4:04:22 AM
Surr: 4-Bromofluorobenzene	93.7	80-120		%REC	1	1/4/2012 4:04:22 AM
EPA METHOD 300.0: ANIONS						Analyst: BRM
Chloride	ND	1.5		mg/Kg	1	1/5/2012 3:39:14 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

Page 3 of 9

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Jan-12

Analytical Report

CLIENT: Blagg-Engineering

Client Sample ID: Cell-7B

Lab Order: 1112A18

Collection Date: 12/28/2011 2:50:00 PM

Project: JFJ Landfarm

Date Received: 12/30/2011

Lab ID: 1112A18-04

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	1/4/2012 1:21:05 PM
Surr: DNOP	117	77.4-131		%REC	1	1/4/2012 1:21:05 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	1/4/2012 4:34:24 AM
Surr: BFB	81.7	69.7-121		%REC	1	1/4/2012 4:34:24 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.047		mg/Kg	1	1/4/2012 4:34:24 AM
Toluene	ND	0.047		mg/Kg	1	1/4/2012 4:34:24 AM
Ethylbenzene	ND	0.047		mg/Kg	1	1/4/2012 4:34:24 AM
Xylenes, Total	ND	0.093		mg/Kg	1	1/4/2012 4:34:24 AM
Surr: 4-Bromofluorobenzene	82.8	80-120		%REC	1	1/4/2012 4:34:24 AM
EPA METHOD 300.0: ANIONS						Analyst: BRM
Chloride	ND	1.5		mg/Kg	1	1/5/2012 4:48:52 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

Page 4 of 9

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Jan-12

Analytical Report**CLIENT:** Blagg-Engineering**Client Sample ID:** Cell-8A**Lab Order:** 1112A18**Collection Date:** 12/29/2011 7:40:00 AM**Project:** JFJ Landfarm**Date Received:** 12/30/2011**Lab ID:** 1112A18-05**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	1/4/2012 1:54:56 PM
Surr: DNOP	126	77.4-131		%REC	1	1/4/2012 1:54:56 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/4/2012 5:04:26 AM
Surr: BFB	99.2	69.7-121		%REC	1	1/4/2012 5:04:26 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.049		mg/Kg	1	1/4/2012 5:04:26 AM
Toluene	ND	0.049		mg/Kg	1	1/4/2012 5:04:26 AM
Ethylbenzene	ND	0.049		mg/Kg	1	1/4/2012 5:04:26 AM
Xylenes, Total	ND	0.099		mg/Kg	1	1/4/2012 5:04:26 AM
Surr: 4-Bromofluorobenzene	102	80-120		%REC	1	1/4/2012 5:04:26 AM
EPA METHOD 300.0: ANIONS						Analyst: BRM
Chloride	ND	1.5		mg/Kg	1	1/5/2012 5:23:41 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: 10-Jan-12

Analytical Report

CLIENT: Blagg Engineering

Client Sample ID: Cell 9C

Lab Order: 1112A18

Collection Date: 12/29/2011 7:55:00 AM

Project: JFJ Landfarm

Date Received: 12/30/2011

Lab ID: 1112A18-06

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	1/4/2012 2:29:07 PM
Surr: DNOP	82.0	77.4-131		%REC	1	1/4/2012 2:29:07 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/4/2012 5:34:30 AM
Surr: BFB	92.4	69.7-121		%REC	1	1/4/2012 5:34:30 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.049		mg/Kg	1	1/4/2012 5:34:30 AM
Toluene	ND	0.049		mg/Kg	1	1/4/2012 5:34:30 AM
Ethylbenzene	ND	0.049		mg/Kg	1	1/4/2012 5:34:30 AM
Xylenes, Total	ND	0.097		mg/Kg	1	1/4/2012 5:34:30 AM
Surr: 4-Bromofluorobenzene	94.2	80-120		%REC	1	1/4/2012 5:34:30 AM
EPA METHOD 300.0: ANIONS						Analyst: BRM
Chloride	ND	1.5		mg/Kg	1	1/5/2012 5:58:29 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

Page 6 of 9

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Jan-12

Analytical Report

CLIENT: Blagg Engineering

Client Sample ID: Cell-1-H

Lab Order: 1112A18

Collection Date: 12/29/2011 8:20:00 AM

Project: JFJ Landfarm

Date Received: 12/30/2011

Lab ID: 1112A18-07

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	1/4/2012 3:03:14 PM
Surr: DNOP	95.3	77.4-131		%REC	1	1/4/2012 3:03:14 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/4/2012 6:04:30 AM
Surr: BFB	77.7	69.7-121		%REC	1	1/4/2012 6:04:30 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.050		mg/Kg	1	1/4/2012 6:04:30 AM
Toluene	ND	0.050		mg/Kg	1	1/4/2012 6:04:30 AM
Ethylbenzene	ND	0.050		mg/Kg	1	1/4/2012 6:04:30 AM
Xylenes, Total	ND	0.10		mg/Kg	1	1/4/2012 6:04:30 AM
Surr: 4-Bromofluorobenzene	81.6	80-120		%REC	1	1/4/2012 6:04:30 AM
EPA METHOD 300.0: ANIONS						Analyst: BRM
Chloride	ND	1.5		mg/Kg	1	1/5/2012 6:33:19 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

Page 7 of 9

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Jan-12

Analytical Report

CLIENT: Blagg-Engineering

Client Sample ID: Cell-12G

Lab Order: 1112A18

Collection Date: 12/29/2011 8:55:00 AM

Project: JFJ Landfarm

Date Received: 12/30/2011

Lab ID: 1112A18-08

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	1/4/2012 3:37:06 PM
Surr: DNOP	86.7	77.4-131		%REC	1	1/4/2012 3:37:06 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/4/2012 6:34:43 AM
Surr: BFB	96.4	69.7-121		%REC	1	1/4/2012 6:34:43 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.048		mg/Kg	1	1/4/2012 6:34:43 AM
Toluene	ND	0.048		mg/Kg	1	1/4/2012 6:34:43 AM
Ethylbenzene	ND	0.048		mg/Kg	1	1/4/2012 6:34:43 AM
Xylenes, Total	ND	0.095		mg/Kg	1	1/4/2012 6:34:43 AM
Surr: 4-Bromofluorobenzene	97.9	80-120		%REC	1	1/4/2012 6:34:43 AM
EPA METHOD 300.0: ANIONS						Analyst: BRM
Chloride	ND	1.5		mg/Kg	1	1/5/2012 7:08:07 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

Page 8 of 9

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Jan-12

Analytical Report

CLIENT: Blagg-Engineering

Client Sample ID: Cell-13H

Lab Order: 1112A18

Collection Date: 12/29/2011 9:30:00 AM

Project: JFJ Landfarm

Date Received: 12/30/2011

Lab ID: 1112A18-09

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	1/4/2012 4:11:29 PM
Surr: DNOP	85.8	77.4-131		%REC	1	1/4/2012 4:11:29 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	1/4/2012 7:04:47 AM
Surr: BFB	92.3	69.7-121		%REC	1	1/4/2012 7:04:47 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.046		mg/Kg	1	1/4/2012 7:04:47 AM
Toluene	ND	0.046		mg/Kg	1	1/4/2012 7:04:47 AM
Ethylbenzene	ND	0.046		mg/Kg	1	1/4/2012 7:04:47 AM
Xylenes, Total	ND	0.093		mg/Kg	1	1/4/2012 7:04:47 AM
Surr: 4-Bromofluorobenzene	94.3	80-120		%REC	1	1/4/2012 7:04:47 AM
EPA METHOD 300.0: ANIONS						Analyst: BRM
Chloride	ND	1.5		mg/Kg	1	1/5/2012 8:17:47 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

Page 9 of 9

QA/QC SUMMARY REPORT

Client: Blagg Engineering
Project: JFJ Landfarm

Work Order: 1112A18

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 300.0: Anions											
Sample ID: 1112A18-02AMSD		<i>MSD</i>									
Chloride	13.05	mg/Kg	1.5	15	0	87.0	74.6	118	11.6	20	
Sample ID: MB-29936		<i>MBLK</i>									
Chloride	ND	mg/Kg	1.5								
Sample ID: LCS-29936		<i>LCS</i>									
Chloride	13.75	mg/Kg	1.5	15	0	91.7	90	110			
Sample ID: 1112A18-02AMS		<i>MS</i>									
Chloride	11.62	mg/Kg	1.5	15	0	77.5	74.6	118			
Method: EPA Method 8015B: Diesel Range Organics											
Sample ID: 1112A18-01AMSD		<i>MSD</i>									
Diesel Range Organics (DRO)	31.24	mg/Kg	9.8	49.21	0	63.5	57.2	146	14.2	26.7	
Sample ID: MB-29929		<i>MBLK</i>									
Diesel Range Organics (DRO)	ND	mg/Kg	10								
Sample ID: LCS-29929		<i>LCS</i>									
Diesel Range Organics (DRO)	42.70	mg/Kg	10	50	0	85.4	62.7	139			
Sample ID: 1112A18-01AMS		<i>MS</i>									
Diesel Range Organics (DRO)	36.03	mg/Kg	9.8	48.88	0	73.7	57.2	146			
Method: EPA Method 8015B: Gasoline Range											
Sample ID: MB-29921		<i>MBLK</i>									
Gasoline Range Organics (GRO)	ND	mg/Kg	5.0								
Sample ID: LCS-29921		<i>LCS</i>									
Gasoline Range Organics (GRO)	28.59	mg/Kg	5.0	25	0	114	86.4	132			
Method: EPA Method 8021B: Volatiles											
Sample ID: MB-29921		<i>MBLK</i>									
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-29921		<i>LCS</i>									
Benzene	1.021	mg/Kg	0.050	1	0.0047	102	80	120			
Toluene	0.9809	mg/Kg	0.050	1	0.0067	97.4	80	120			
Ethylbenzene	1.044	mg/Kg	0.050	1	0.0104	103	80	120			
Xylenes, Total	3.231	mg/Kg	0.10	3	0.0232	107	80	120			

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name **BLAGG**

Date Received:

12/30/2011

Work Order Number **1112A18**

Received by: **AMG**

Checklist completed by:

Signature

Michelle C...

Date

12/30/11

Sample ID labels checked by:

Initials

X / AMG

Matrix:

Carrier name: **FedEx**

Shipping container/cooler in good condition?

Yes ☒

No ☐

Not Present ☐

Custody seals intact on shipping container/cooler?

Yes ☒

No ☐

Not Present ☐

Not Shipped ☐

Custody seals intact on sample bottles?

Yes ☐

No ☐

N/A ☒

Chain of custody present?

Yes ☒

No ☐

Chain of custody signed when relinquished and received?

Yes ☒

No ☐

Chain of custody agrees with sample labels?

Yes ☒

No ☐

Samples in proper container/bottle?

Yes ☒

No ☐

Sample containers intact?

Yes ☒

No ☐

Sufficient sample volume for indicated test?

Yes ☒

No ☐

All samples received within holding time?

Yes ☒

No ☐

Water - VOA vials have zero headspace?

No VOA vials submitted ☒

Yes ☐

No ☐

Water - 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?

1.3°

<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

CERTIFIED 7007 0220 0004 3556 7769
201 NOV -7 P 11:25

November 3, 2011

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

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

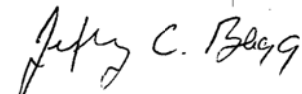
Dear Mr. Jones:

On behalf of JFJ Landfarm L.L.C., Blagg Engineering, Inc. (BEI) is submitting quarterly treatment zone monitoring test results for the JFJ Waste Management Facility pursuant to Permit NM-01-0010B. This report is for sampling conducted on September 27, 2011.

Sampling protocol included collection of native soils below the treatment zone. A sample spade and 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, RCRA 8 Metals and general cation/anion analysis. Samples were collected from active cell units 2a, 3d, 4a, 7f, 8c, 9a, 11d, 12f and 13e (Figure 1). All testing found total petroleum hydrocarbons, BTEX, chloride and metals within permit limits.

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.

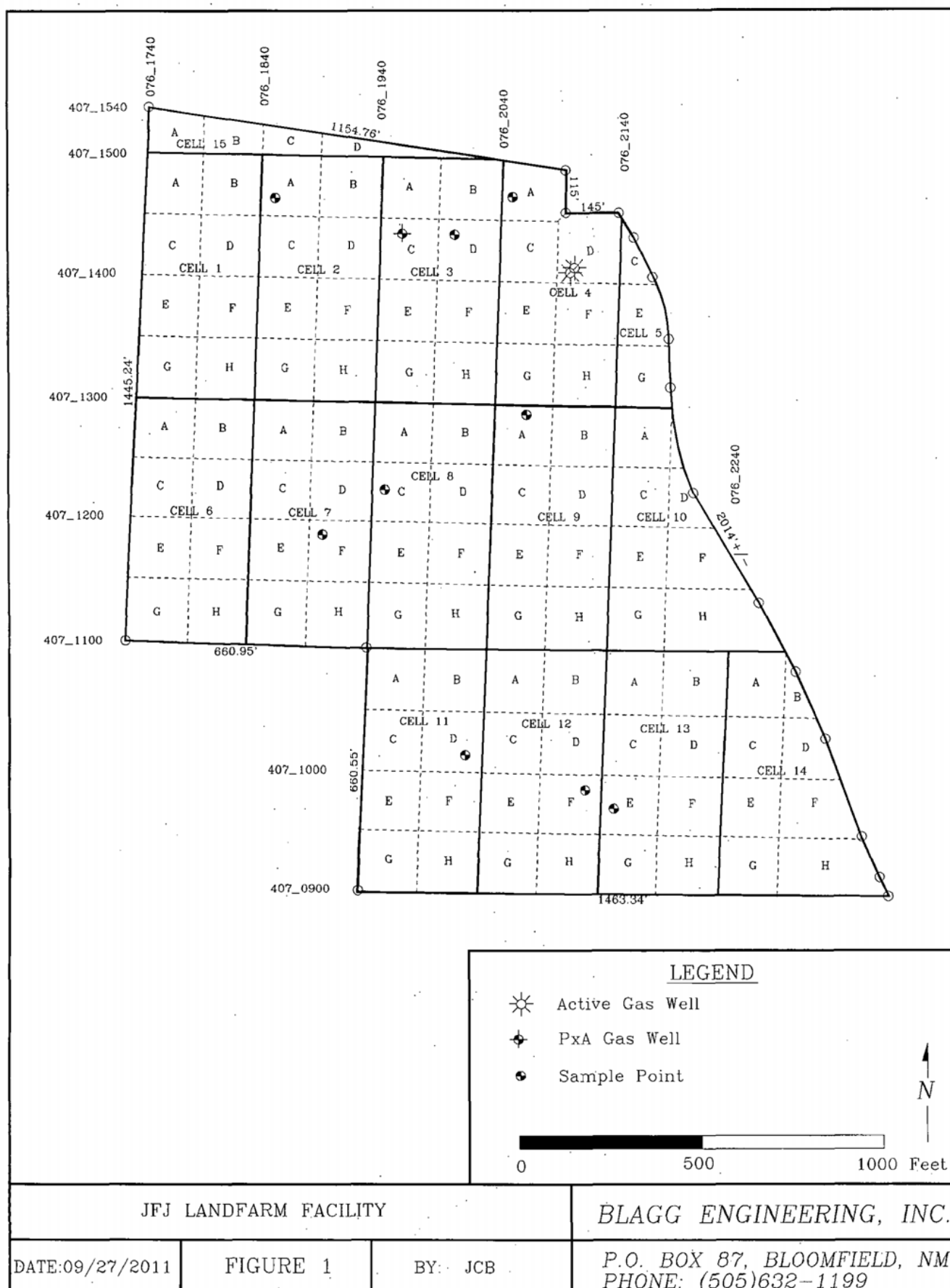
Respectfully submitted:
Blagg Engineering, Inc.



Jeffrey C. Blagg, P.E.
President

Attachments: Site Diagram
Analytical Test Reports

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





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

October 28, 2011

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

RE: JFJ LF

Order No.: 1110002

Dear Jeff Blagg:

Hall Environmental Analysis Laboratory received 9 sample(s) on 9/30/2011 for the analyses presented in the following report.

There were no problems with the analytical events associated with this report unless noted in the Case Narrative. Analytical results designated with a "J" qualifier are estimated and represent a detection above the Method Detection Limit (MDL) and less than the Reporting Limit (PQL). These analytes are not reviewed nor narrated as to whether they are laboratory artifacts.

Quality control data is within laboratory defined or method specified acceptance limits except if noted.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Original

Page 1 of 25

Chain-of-Custody Record

Client: BLAKE ENGINEERING INC.

Mailing Address: P.O. Box 87

BLAUMFELD, NM 87413

Phone #: 505-632-1199

Email or Fax#:

QA/QC Package:

☒ Standard ☐ Level 4 (Full Validation)

Accreditation

☐ NELAP ☐ Other

☐ EDD (Type)

Turn-Around Time:

☒ Standard ☐ Rush

Project Name:

JFJ LF

Project #:

Project Manager:

JEFF BLAKE

Sampler: JEFF BLAKE

Sample Temperature: 10°C

Container Type and #

Preservative Type

HEAT NO.

ANALYST

DATE

TIME

REMARKS

DATE

TIME

REMARKS

DATE

TIME

REMARKS

DATE

TIME

REMARKS

DATE

TIME

REMARKS

DATE

TIME

REMARKS



**HALL ENVIRONMENTAL
ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

☒	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, NO ₃ , NO ₂ , PO ₄ , SO ₄)
☒	8081 Pesticides / 8082 PCB's
☒	8260B (VOA)
☒	8270 (Semi-VOA)
☒	CATIONS/ANIONS
☒	Air Bubbles (Y or N)

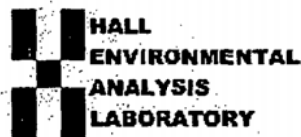
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAT NO.	ANALYST	DATE	TIME	REMARKS
7/20/11	0910	Soil	CELL 13E	4oz x 2	COOL	1				X
"	0920	"	CELL 12F	"	"	2				X
"	0940	"	CELL 11D	"	"	3				X
"	1000	"	CELL 7F	"	"	4				X
"	1025	"	CELL 8C	"	"	5				X
"	1050	"	CELL 9A	"	"	6				X
"	1100	"	CELL 4A	"	"	7				X
"	1110	"	CELL 2A	"	"	8				X
"	1145	"	CELL 3D	"	"	9				X

Remarks: GRO + DRO ON 8015

Relinquished by: Jeff Blake Date: 9/29/11 Time: 1315

Received by: Jeff Blake Date: 9/29/11 Time: 1315

Relinquished by: Jeff Blake Date: 9/29/11 Time: 1315



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

Analytical Report

WO#: 1110002

Date Reported: 10/28/2011

CLIENT: Blagg Engineering
Project: JFJ LF

Lab Order: 1110002

Lab ID: 1110002-001

Collection Date: 9/27/2011 9:10:00 AM

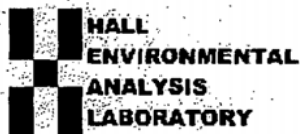
Client Sample ID: Cell 13E

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	10/5/2011 3:46:54 PM
Surr: DNOP	117	81.8-129		%REC	1	10/5/2011 3:46:54 PM
EPA METHOD 8015B: GASOLINE RANGE						SW5035 Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/5/2011 4:29:46 PM
Surr: BFB	94.1	89.7-125		%REC	1	10/5/2011 4:29:46 PM
EPA METHOD 8021B: VOLATILES						SW5035 Analyst: RAA
Benzene	ND	0.049		mg/Kg	1	10/5/2011 4:29:46 PM
Toluene	ND	0.049		mg/Kg	1	10/5/2011 4:29:46 PM
Ethylbenzene	ND	0.049		mg/Kg	1	10/5/2011 4:29:46 PM
Xylenes, Total	ND	0.097		mg/Kg	1	10/5/2011 4:29:46 PM
Surr: 4-Bromofluorobenzene	100	85.3-139		%REC	1	10/5/2011 4:29:46 PM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Fluoride	ND	1.5		mg/Kg	5	10/10/2011 12:35:44 PM
Chloride	ND	7.5		mg/Kg	5	10/10/2011 12:35:44 PM
Nitrogen, Nitrite (As N)	ND	1.5		mg/Kg	5	10/10/2011 12:35:44 PM
Bromide	ND	7.5		mg/Kg	5	10/10/2011 12:35:44 PM
Nitrogen, Nitrate (As N)	ND	1.5		mg/Kg	5	10/10/2011 12:35:44 PM
Phosphorus, Orthophosphate (As P)	ND	7.5		mg/Kg	5	10/10/2011 12:35:44 PM
Sulfate	ND	7.5		mg/Kg	5	10/10/2011 12:35:44 PM
RCRA 8 METALS (TOTALS)						SW7471 Analyst: ELS
Mercury	ND	0.033		ug/L	1	10/10/2011 11:48:55 AM
RCRA 8 METALS (TOTALS)						Analyst: ELS
Arsenic	ND	12		mg/L	5	10/12/2011 9:30:23 AM
Barium	30	0.50		mg/L	5	10/12/2011 9:30:23 AM
Cadmium	ND	0.50		mg/L	5	10/12/2011 9:30:23 AM
Calcium	2,500	500		mg/L	20	10/18/2011 1:36:21 PM
Chromium	2.8	1.5		mg/L	5	10/12/2011 9:30:23 AM
Lead	3.0	1.2		mg/L	5	10/12/2011 9:30:23 AM
Magnesium	1,600	500		mg/L	20	10/18/2011 1:36:21 PM
Potassium	ND	1,000		mg/L	20	10/18/2011 1:36:21 PM

Qualifiers: *X Value exceeds Maximum Contaminant Level.
D Dilution was required.
H Holding times for preparation or analysis exceeded
N Tentatively identified compounds
P Second column confirmation exceeds

C Value is below Minimum Compound Limit.
E Value above quantitation range
M Manual Integration used to determine area response
ND Not Detected at the Reporting Limit
PL Permit Limit



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87106
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Analytical Report

WO#: 1110002

Date Reported: 10/28/2011

CLIENT: Blagg Engineering

Lab Order: 1110002

Project: JFJ LF

RCRA 8 METALS (TOTALS)

Analyst: ELS

Selenium	ND	12	mg/L	5	10/12/2011 9:30:23 AM
Silver	ND	1.2	mg/L	5	10/12/2011 9:30:23 AM
Sodium	ND	500	mg/L	20	10/18/2011 1:36:21 PM

Qualifiers: *X Value exceeds Maximum Contaminant Level.
D Dilution was required.
H Holding times for preparation or analysis exceeded
N Tentatively identified compounds
P Second column confirmation exceeds

C Value is below Minimum Compound Limit.
E Value above quantitation range
M Manual Integration used to determine area response
ND Not Detected at the Reporting Limit
PL Permit Limit



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

Analytical Report

WO#: 1110002

Date Reported: 10/28/2011

CLIENT: Blagg Engineering
Project: JFJ LF

Lab Order: 1110002

Lab ID: 1110002-002

Collection Date: 9/27/2011 9:20:00 AM

Client Sample ID: Cell 12F

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	10/5/2011 5:29:59 PM
Surr: DNOP	112	81.8-129		%REC	1	10/5/2011 5:29:59 PM
EPA METHOD 8015B: GASOLINE RANGE						SW5035 Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/5/2011 4:58:40 PM
Surr: BFB	94.6	89.7-125		%REC	1	10/5/2011 4:58:40 PM
EPA METHOD 8021B: VOLATILES						SW5035 Analyst: RAA
Benzene	ND	0.048		mg/Kg	1	10/5/2011 4:58:40 PM
Toluene	ND	0.048		mg/Kg	1	10/5/2011 4:58:40 PM
Ethylbenzene	ND	0.048		mg/Kg	1	10/5/2011 4:58:40 PM
Xylenes, Total	ND	0.096		mg/Kg	1	10/5/2011 4:58:40 PM
Surr: 4-Bromofluorobenzene	99.6	85.3-139		%REC	1	10/5/2011 4:58:40 PM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Fluoride	3.5	1.5		mg/Kg	5	10/10/2011 1:27:56 PM
Chloride	ND	7.5		mg/Kg	5	10/10/2011 1:27:56 PM
Nitrogen, Nitrite (As N)	ND	1.5		mg/Kg	5	10/10/2011 1:27:56 PM
Bromide	ND	7.5		mg/Kg	5	10/10/2011 1:27:56 PM
Nitrogen, Nitrate (As N)	ND	1.5		mg/Kg	5	10/10/2011 1:27:56 PM
Phosphorus, Orthophosphate (As P)	ND	7.5		mg/Kg	5	10/10/2011 1:27:56 PM
Sulfate	ND	7.5		mg/Kg	5	10/10/2011 1:27:56 PM
RCRA 8 METALS (TOTALS)						SW7471 Analyst: ELS
Mercury	ND	0.033		ug/L	1	10/10/2011 11:50:41 AM
RCRA 8 METALS (TOTALS)						Analyst: ELS
Arsenic	ND	12		mg/L	5	10/12/2011 9:39:14 AM
Barium	57	0.50		mg/L	5	10/12/2011 9:39:14 AM
Cadmium	ND	0.50		mg/L	5	10/12/2011 9:39:14 AM
Calcium	1,800	250		mg/L	10	10/12/2011 10:07:23 AM
Chromium	2.3	1.5		mg/L	5	10/12/2011 9:39:14 AM
Lead	3.0	1.2		mg/L	5	10/12/2011 9:39:14 AM
Magnesium	940	250		mg/L	10	10/12/2011 10:07:23 AM
Potassium	ND	500		mg/L	10	10/12/2011 10:07:23 AM

Qualifiers: */X Value exceeds Maximum Contaminant Level.

D Dilution was required.

H Holding times for preparation or analysis exceeded

N Tentatively identified compounds

P Second column confirmation exceeds

C Value is below Minimum Compound Limit.

E Value above quantitation range

M Manual Integration used to determine area response

ND Not Detected at the Reporting Limit

PL Permit Limit



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

Analytical Report

WO#: 1110002
Date Reported: 10/28/2011

CLIENT: Blagg Engineering
Project: JFJ LF

Lab Order: 1110002

RCRA 8 METALS (TOTALS)

Analyst: ELS

Selenium	ND	12	mg/L	5	10/12/2011 9:39:14 AM
Silver	ND	1.2	mg/L	5	10/12/2011 9:39:14 AM
Sodium	ND	250	mg/L	10	10/12/2011 10:07:23 AM

Qualifiers:	*X	Value exceeds Maximum Contaminant Level.	C	Value is below Minimum Compound Limit.
	D	Dilution was required.	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
	N	Tentatively identified compounds	ND	Not Detected at the Reporting Limit
	P	Second column confirmation exceeds	PL	Permit Limit



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

Analytical Report

WO#: 1110002

Date Reported: 10/28/2011

CLIENT: Blagg Engineering

Lab Order: 1110002

Project: JFJ LF

Lab ID: 1110002-003

Collection Date: 9/27/2011 9:40:00 AM

Client Sample ID: Cell 11D

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/5/2011 6:04:22 PM
Surr: DNOP	113	81.8-129		%REC	1	10/5/2011 6:04:22 PM
EPA METHOD 8015B: GASOLINE RANGE						SW5035 Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/5/2011 5:27:28 PM
Surr: BFB	94.7	89.7-125		%REC	1	10/5/2011 5:27:28 PM
EPA METHOD 8021B: VOLATILES						SW5035 Analyst: RAA
Benzene	ND	0.047		mg/Kg	1	10/5/2011 5:27:28 PM
Toluene	ND	0.047		mg/Kg	1	10/5/2011 5:27:28 PM
Ethylbenzene	ND	0.047		mg/Kg	1	10/5/2011 5:27:28 PM
Xylenes, Total	ND	0.094		mg/Kg	1	10/5/2011 5:27:28 PM
Surr: 4-Bromofluorobenzene	101	85.3-139		%REC	1	10/5/2011 5:27:28 PM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Fluoride	ND	1.5		mg/Kg	5	10/10/2011 1:45:21 PM
Chloride	ND	7.5		mg/Kg	5	10/10/2011 1:45:21 PM
Nitrogen, Nitrite (As N)	ND	1.5		mg/Kg	5	10/10/2011 1:45:21 PM
Bromide	ND	7.5		mg/Kg	5	10/10/2011 1:45:21 PM
Nitrogen, Nitrate (As N)	ND	1.5		mg/Kg	5	10/10/2011 1:45:21 PM
Phosphorus, Orthophosphate (As P)	ND	7.5		mg/Kg	5	10/10/2011 1:45:21 PM
Sulfate	ND	7.5		mg/Kg	5	10/10/2011 1:45:21 PM
RCRA 8 METALS (TOTALS)						SW7471 Analyst: ELS
Mercury	ND	0.033		ug/L	1	10/10/2011 11:52:27 AM
RCRA 8 METALS (TOTALS)						Analyst: ELS
Arsenic	ND	25		mg/L	10	10/12/2011 10:15:04 AM
Barium	39	1.0		mg/L	10	10/12/2011 10:15:04 AM
Cadmium	ND	1.0		mg/L	10	10/12/2011 10:15:04 AM
Calcium	2,500	500		mg/L	20	10/18/2011 1:43:15 PM
Chromium	3.1	3.0		mg/L	10	10/12/2011 10:15:04 AM
Lead	ND	2.5		mg/L	10	10/12/2011 10:15:04 AM
Magnesium	1,700	500		mg/L	20	10/18/2011 1:43:15 PM
Potassium	ND	1,000		mg/L	20	10/18/2011 1:43:15 PM

Qualifiers: *X Value exceeds Maximum Contaminant Level.
D Dilution was required.
H Holding times for preparation or analysis exceeded.
N Tentatively identified compounds
P Second column confirmation exceeds

C Value is below Minimum Compound Limit.
E Value above quantitation range
M Manual Integration used to determine area response
ND Not Detected at the Reporting Limit
PL Permit Limit



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4901 Hawkins NE
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TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Analytical Report

WO#: 1110002

Date Reported: 10/28/2011

CLIENT: Blagg Engineering

Lab Order: 1110002

Project: JFJ LF

RCRA 8-METALS (TOTALS)

Analyst: ELS

Selenium	ND	25	mg/L	10	10/12/2011 10:15:04 AM
Silver	ND	2.5	mg/L	10	10/12/2011 10:15:04 AM
Sodium	ND	500	mg/L	20	10/18/2011 1:43:15 PM

Qualifiers: *X Value exceeds Maximum Contaminant Level.

D Dilution was required.

H Holding times for preparation or analysis exceeded

N Tentatively identified compounds

P Second column confirmation exceeds

C Value is below Minimum Compound Limit.

E Value above quantitation range

M Manual Integration used to determine area response

ND Not Detected at the Reporting Limit

PL Permit Limit



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Website: www.hallenvironmental.com

Analytical Report

WO#: 1110002

Date Reported: 10/28/2011

CLIENT: Blagg Engineering

Lab Order: 1110002

Project: JFJ LF

Lab ID: 1110002-004

Collection Date: 9/27/2011 10:00:00 AM

Client Sample ID: Cell 7F

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	22	10		mg/Kg	1	10/5/2011 6:38:31 PM
Surr: DNOP	106	81.8-129		%REC	1	10/5/2011 6:38:31 PM
EPA METHOD 8015B: GASOLINE RANGE						SW5035 Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/5/2011 5:56:17 PM
Surr: BFB	94.7	89.7-125		%REC	1	10/5/2011 5:56:17 PM
EPA METHOD 8021B: VOLATILES						SW5035 Analyst: RAA
Benzene	ND	0.047		mg/Kg	1	10/5/2011 5:56:17 PM
Toluene	ND	0.047		mg/Kg	1	10/5/2011 5:56:17 PM
Ethylbenzene	ND	0.047		mg/Kg	1	10/5/2011 5:56:17 PM
Xylenes, Total	ND	0.094		mg/Kg	1	10/5/2011 5:56:17 PM
Surr: 4-Bromofluorobenzene	102	85.3-139		%REC	1	10/5/2011 5:56:17 PM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Fluoride	4.6	0.30		mg/Kg	1	10/10/2011 2:02:46 PM
Chloride	ND	1.5		mg/Kg	1	10/10/2011 2:02:46 PM
Nitrogen, Nitrite (As N)	ND	0.30		mg/Kg	1	10/10/2011 2:02:46 PM
Bromide	ND	1.5		mg/Kg	1	10/10/2011 2:02:46 PM
Nitrogen, Nitrate (As N)	0.37	0.30		mg/Kg	1	10/10/2011 2:02:46 PM
Phosphorus, Orthophosphate (As P)	ND	1.5		mg/Kg	1	10/10/2011 2:02:46 PM
Sulfate	4,600	75		mg/Kg	50	10/10/2011 9:52:53 PM
RCRA 8 METALS (TOTALS)						SW7471 Analyst: ELS
Mercury	ND	0.033		ug/L	1	10/10/2011 11:54:13 AM
RCRA 8 METALS (TOTALS)						Analyst: ELS
Arsenic	ND	2.5		mg/L	1	10/12/2011 9:11:17 AM
Barium	7.8	0.10		mg/L	1	10/12/2011 9:11:17 AM
Cadmium	ND	0.10		mg/L	1	10/12/2011 9:11:17 AM
Chromium	1.7	0.30		mg/L	1	10/12/2011 9:11:17 AM
Lead	2.5	0.25		mg/L	1	10/12/2011 9:11:17 AM
Selenium	ND	2.5		mg/L	1	10/12/2011 9:11:17 AM
Silver	ND	0.25		mg/L	1	10/12/2011 9:11:17 AM
Calcium	21,000	250		mg/L	10	10/12/2011 10:16:53 AM

Qualifiers: */X Value exceeds Maximum Contaminant Level.

D Dilution was required.

H Holding times for preparation or analysis exceeded

N Tentatively identified compounds

P Second column confirmation exceeds

C Value is below Minimum Compound Limit.

E Value above quantitation range

M Manual Integration used to determine area response

ND Not Detected at the Reporting Limit

PL Permit Limit



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Website: www.hallenvironmental.com

Analytical Report

WO#: 1110002

Date Reported: 10/28/2011

CLIENT: Blagg Engineering

Lab Order: 1110002

Project: JFJ LF

RCRA 8 METALS (TOTALS)

Analyst: ELS

Magnesium	960	250	mg/L	10	10/12/2011 10:16:53 AM
Potassium	ND	500	mg/L	10	10/12/2011 10:16:53 AM
Sodium	ND	250	mg/L	10	10/12/2011 10:16:53 AM

Qualifiers: *X Value exceeds Maximum Contaminant Level.

D Dilution was required.

H Holding times for preparation or analysis exceeded

N Tentatively identified compounds

P Second column confirmation exceeds

C Value is below Minimum Compound Limit.

E Value above quantitation range

M Manual Integration used to determine area response

ND Not Detected at the Reporting Limit

PL Permit Limit



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Analytical Report

WO#: 1110002

Date Reported: 10/28/2011

CLIENT: Blagg Engineering
Project: JFJ LF

Lab Order: 1110002

Lab ID: 1110002-005

Collection Date: 9/27/2011 10:25:00 AM

Client Sample ID: Cell 8C

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/5/2011 7:12:40 PM
Surr: DNOP	110	81.8-129		%REC	1	10/5/2011 7:12:40 PM
EPA METHOD 8015B: GASOLINE RANGE						SW5035 Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	10/5/2011 6:25:06 PM
Surr: BFB	94.3	89.7-125		%REC	1	10/5/2011 6:25:06 PM
EPA METHOD 8021B: VOLATILES						SW5035 Analyst: RAA
Benzene	ND	0.046		mg/Kg	1	10/5/2011 6:25:06 PM
Toluene	ND	0.046		mg/Kg	1	10/5/2011 6:25:06 PM
Ethylbenzene	ND	0.046		mg/Kg	1	10/5/2011 6:25:06 PM
Xylenes, Total	ND	0.093		mg/Kg	1	10/5/2011 6:25:06 PM
Surr: 4-Bromofluorobenzene	98.9	85.3-139		%REC	1	10/5/2011 6:25:06 PM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Fluoride	0.77	0.30		mg/Kg	1	10/10/2011 2:55:01 PM
Chloride	ND	1.5		mg/Kg	1	10/10/2011 2:55:01 PM
Nitrogen, Nitrite (As N)	ND	0.30		mg/Kg	1	10/10/2011 2:55:01 PM
Bromide	ND	1.5		mg/Kg	1	10/10/2011 2:55:01 PM
Nitrogen, Nitrate (As N)	1.1	0.30		mg/Kg	1	10/10/2011 2:55:01 PM
Phosphorus, Orthophosphate (As P)	ND	1.5		mg/Kg	1	10/10/2011 2:55:01 PM
Sulfate	4,600	75		mg/Kg	50	10/10/2011 10:10:18 PM
RCRA 8 METALS (TOTALS)						SW7471 Analyst: ELS
Mercury	ND	0.033		ug/L	1	10/10/2011 11:59:34 AM
RCRA 8 METALS (TOTALS)						Analyst: ELS
Arsenic	ND	2.5		mg/L	1	10/12/2011 9:13:25 AM
Barium	7.8	0.10		mg/L	1	10/12/2011 9:13:25 AM
Cadmium	ND	0.10		mg/L	1	10/12/2011 9:13:25 AM
Chromium	1.2	0.30		mg/L	1	10/12/2011 9:13:25 AM
Lead	1.5	0.25		mg/L	1	10/12/2011 9:13:25 AM
Magnesium	750	25		mg/L	1	10/12/2011 9:13:25 AM
Potassium	300	50		mg/L	1	10/12/2011 9:13:25 AM
Selenium	ND	2.5		mg/L	1	10/12/2011 9:13:25 AM

Qualifiers: *X Value exceeds Maximum Contaminant Level.
D Dilution was required.
H Holding times for preparation or analysis exceeded
N Tentatively identified compounds
P Second column confirmation exceeds

C Value is below Minimum Compound Limit.
E Value above quantitation range
M Manual Integration used to determine area response
ND Not Detected at the Reporting Limit
PL Permit Limit



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Analytical Report

WO#: 1110002

Date Reported: 10/28/2011

CLIENT: Blagg Engineering

Lab Order: 1110002

Project: JFJ LF

RCRA 8 METALS (TOTALS)

Analyst: ELS

Silver	ND	0.25	mg/L	1	10/12/2011 9:13:25 AM
Sodium	ND	25	mg/L	1	10/12/2011 9:13:25 AM
Calcium	46,000	250	mg/L	10	10/12/2011 9:51:02 AM

Qualifiers: */X Value exceeds Maximum Contaminant Level.

D Dilution was required.

H Holding times for preparation or analysis exceeded

N Tentatively identified compounds

P Second column confirmation exceeds

C Value is below Minimum Compound Limit.

E Value above quantitation range

M Manual Integration used to determine area response

ND Not Detected at the Reporting Limit

PL Permit Limit



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Website: www.hallenvironmental.com

Analytical Report

WO#: 1110002

Date Reported: 10/28/2011

CLIENT: Blagg Engineering
Project: JFJ LF

Lab Order: 1110002

Lab ID: 1110002-006

Collection Date: 9/27/2011 10:50:00 AM

Client Sample ID: Cell 9A

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	14	10		mg/Kg	1	10/5/2011 7:46:49 PM
Surr: DNOP	112	81.8-129		%REC	1	10/5/2011 7:46:49 PM
EPA METHOD 8015B: GASOLINE RANGE						SW5035 Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/5/2011 6:53:53 PM
Surr: BFB	93.8	89.7-125		%REC	1	10/5/2011 6:53:53 PM
EPA METHOD 8021B: VOLATILES						SW5035 Analyst: RAA
Benzene	ND	0.048		mg/Kg	1	10/5/2011 6:53:53 PM
Toluene	ND	0.048		mg/Kg	1	10/5/2011 6:53:53 PM
Ethylbenzene	ND	0.048		mg/Kg	1	10/5/2011 6:53:53 PM
Xylenes, Total	ND	0.096		mg/Kg	1	10/5/2011 6:53:53 PM
Surr: 4-Bromofluorobenzene	97.1	85.3-139		%REC	1	10/5/2011 6:53:53 PM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Fluoride	2.9	0.30		mg/Kg	1	10/10/2011 3:12:26 PM
Chloride	ND	1.5		mg/Kg	1	10/10/2011 3:12:26 PM
Nitrogen, Nitrite (As N)	ND	0.30		mg/Kg	1	10/10/2011 3:12:26 PM
Bromide	ND	1.5		mg/Kg	1	10/10/2011 3:12:26 PM
Nitrogen, Nitrate (As N)	0.75	0.30		mg/Kg	1	10/10/2011 3:12:26 PM
Phosphorus, Orthophosphate (As P)	ND	1.5		mg/Kg	1	10/10/2011 3:12:26 PM
Sulfate	4,800	75		mg/Kg	50	10/10/2011 10:27:43 PM
RCRA 8 METALS (TOTALS)						SW7471 Analyst: ELS
Mercury	ND	0.033		ug/L	1	10/10/2011 12:01:24 PM
RCRA 8 METALS (TOTALS)						Analyst: RAG
Arsenic	ND	50		mg/L	20	10/18/2011 1:45:00 PM
Barium	160	2.0		mg/L	20	10/18/2011 1:45:00 PM
Cadmium	ND	2.0		mg/L	20	10/18/2011 1:45:00 PM
Calcium	32,000	500		mg/L	20	10/18/2011 1:45:00 PM
Chromium	ND	6.0		mg/L	20	10/18/2011 1:45:00 PM
Lead	5.2	5.0		mg/L	20	10/18/2011 1:45:00 PM
Magnesium	1,800	500		mg/L	20	10/18/2011 1:45:00 PM
Potassium	1,300	1,000		mg/L	20	10/18/2011 1:45:00 PM

Qualifiers: */X Value exceeds Maximum Contaminant Level.

D Dilution was required.

H Holding times for preparation or analysis exceeded.

N Tentatively identified compounds

P Second column confirmation exceeds

C Value is below Minimum Compound Limit.

E Value above quantitation range

M Manual Integration used to determine area response

ND Not Detected at the Reporting Limit

PL Permit Limit



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Analytical Report

WO#: 1110002

Date Reported: 10/28/2011

CLIENT: Blagg Engineering

Lab Order: 1110002

Project: JFJ LF

RCRA 8 METALS (TOTALS)

Analyst: RAG

Selenium	ND	50	mg/L	20	10/18/2011 1:45:00 PM
Silver	ND	5.0	mg/L	20	10/18/2011 1:45:00 PM
Sodium	ND	500	mg/L	20	10/18/2011 1:45:00 PM

Qualifiers: */X Value exceeds Maximum Contaminant Level.

D Dilution was required.

H Holding times for preparation or analysis exceeded

N Tentatively identified compounds

P Second column confirmation exceeds

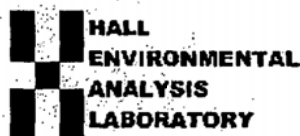
C Value is below Minimum Compound Limit.

E Value above quantitation range

M Manual Integration used to determine area response

ND Not Detected at the Reporting Limit

PL Permit Limit



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Website: www.hallenvironmental.com

Analytical Report

WO#: 1110002

Date Reported: 10/28/2011

CLIENT: Blagg Engineering
Project: JFJ LF

Lab Order: 1110002

Lab ID: 1110002-007

Collection Date: 9/27/2011 11:00:00 AM

Client Sample ID: Cell 4A

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/5/2011 8:20:25 PM
Surr: DNOP	105	81.8-129		%REC	1	10/5/2011 8:20:25 PM
EPA METHOD 8015B: GASOLINE RANGE						SW5035 Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/5/2011 7:22:46 PM
Surr: BFB	94.5	89.7-125		%REC	1	10/5/2011 7:22:46 PM
EPA METHOD 8021B: VOLATILES						SW5035 Analyst: RAA
Benzene	ND	0.049		mg/Kg	1	10/5/2011 7:22:46 PM
Toluene	ND	0.049		mg/Kg	1	10/5/2011 7:22:46 PM
Ethylbenzene	ND	0.049		mg/Kg	1	10/5/2011 7:22:46 PM
Xylenes, Total	ND	0.098		mg/Kg	1	10/5/2011 7:22:46 PM
Surr: 4-Bromofluorobenzene	99.8	85.3-139		%REC	1	10/5/2011 7:22:46 PM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Fluoride	4.3	0.30		mg/Kg	1	10/10/2011 3:29:50 PM
Chloride	1.8	1.5		mg/Kg	1	10/10/2011 3:29:50 PM
Nitrogen, Nitrite (As N)	ND	0.30		mg/Kg	1	10/10/2011 3:29:50 PM
Bromide	ND	1.5		mg/Kg	1	10/10/2011 3:29:50 PM
Nitrogen, Nitrate (As N)	0.70	0.30		mg/Kg	1	10/10/2011 3:29:50 PM
Phosphorus, Orthophosphate (As P)	ND	1.5		mg/Kg	1	10/10/2011 3:29:50 PM
Sulfate	4,700	75		mg/Kg	50	10/10/2011 10:45:07 PM
RCRA 8 METALS (TOTALS)						SW7471 Analyst: ELS
Mercury	ND	0.033		ug/L	1	10/10/2011 12:07:11 PM
RCRA 8 METALS (TOTALS)						Analyst: ELS
Arsenic	ND	12		mg/L	5	10/12/2011 9:54:54 AM
Barium	8.1	0.50		mg/L	5	10/12/2011 9:54:54 AM
Cadmium	ND	0.50		mg/L	5	10/12/2011 9:54:54 AM
Calcium	13,000	250		mg/L	10	10/12/2011 10:20:36 AM
Chromium	2.6	1.5		mg/L	5	10/12/2011 9:54:54 AM
Lead	2.0	1.2		mg/L	5	10/12/2011 9:54:54 AM
Magnesium	1,800	250		mg/L	10	10/12/2011 10:20:36 AM
Potassium	ND	500		mg/L	10	10/12/2011 10:20:36 AM

Qualifiers: */X Value exceeds Maximum Contaminant Level.

D Dilution was required.

H Holding times for preparation or analysis exceeded.

N Tentatively identified compounds

P Second column confirmation exceeds

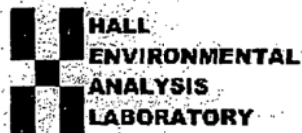
C Value is below Minimum Compound Limit.

E Value above quantitation range

M Manual Integration used to determine area response

ND Not Detected at the Reporting Limit

PL Permit Limit



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Analytical Report

WO#: 1110002
Date Reported: 10/28/2011

CLIENT: Blagg Engineering
Project: JFJ LF

Lab Order: 1110002

RCRA 8 METALS (TOTALS)

Analyst: ELS

Selenium	ND	12	mg/L	5	10/12/2011 9:54:54 AM
Silver	ND	1.2	mg/L	5	10/12/2011 9:54:54 AM
Sodium	ND	250	mg/L	10	10/12/2011 10:20:36 AM

Qualifiers: * / X Value exceeds Maximum Contaminant Level.
D Dilution was required.
H Holding times for preparation or analysis exceeded
N Tentatively identified compounds
P Second column confirmation exceeds

C Value is below Minimum Compound Limit.
E Value above quantitation range
M Manual Integration used to determine area response
ND Not Detected at the Reporting Limit
PL Permit Limit



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Analytical Report

WO#: 1110002

Date Reported: 10/28/2011

CLIENT: Blagg Engineering
Project: JFJ LF

Lab Order: 1110002

Lab ID: 1110002-008

Collection Date: 9/27/2011 11:10:00 AM

Client Sample ID: Cell 2A

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	10/5/2011 9:28:11 PM
Surr: DNOP	109	81.8-129		%REC	1	10/5/2011 9:28:11 PM
EPA METHOD 8015B: GASOLINE RANGE						SW5035 Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/5/2011 7:51:37 PM
Surr: BFB	93.7	89.7-125		%REC	1	10/5/2011 7:51:37 PM
EPA METHOD 8021B: VOLATILES						SW5035 Analyst: RAA
Benzene	ND	0.048		mg/Kg	1	10/5/2011 7:51:37 PM
Toluene	ND	0.048		mg/Kg	1	10/5/2011 7:51:37 PM
Ethylbenzene	ND	0.048		mg/Kg	1	10/5/2011 7:51:37 PM
Xylenes, Total	ND	0.096		mg/Kg	1	10/5/2011 7:51:37 PM
Surr: 4-Bromofluorobenzene	98.8	85.3-139		%REC	1	10/5/2011 7:51:37 PM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Fluoride	0.36	0.30		mg/Kg	1	10/10/2011 3:47:14 PM
Chloride	ND	1.5		mg/Kg	1	10/10/2011 3:47:14 PM
Nitrogen, Nitrite (As N)	ND	0.30		mg/Kg	1	10/10/2011 3:47:14 PM
Bromide	ND	1.5		mg/Kg	1	10/10/2011 3:47:14 PM
Nitrogen, Nitrate (As N)	0.72	0.30		mg/Kg	1	10/10/2011 3:47:14 PM
Phosphorus, Orthophosphate (As P)	ND	1.5		mg/Kg	1	10/10/2011 3:47:14 PM
Sulfate	8.3	1.5		mg/Kg	1	10/10/2011 3:47:14 PM
RCRA 8 METALS (TOTALS)						SW7471 Analyst: ELS
Mercury	ND	0.033		ug/L	1	10/10/2011 12:09:01 PM
RCRA 8 METALS (TOTALS)						Analyst: ELS
Arsenic	ND	25		mg/L	10	10/12/2011 10:22:22 AM
Barium	37	1.0		mg/L	10	10/12/2011 10:22:22 AM
Cadmium	ND	1.0		mg/L	10	10/12/2011 10:22:22 AM
Calcium	2,300	500		mg/L	20	10/18/2011 1:46:47 PM
Chromium	3.0	3.0		mg/L	10	10/12/2011 10:22:22 AM
Lead	ND	2.5		mg/L	10	10/12/2011 10:22:22 AM
Magnesium	1,600	500		mg/L	20	10/18/2011 1:46:47 PM
Potassium	ND	1,000		mg/L	20	10/18/2011 1:46:47 PM

Qualifiers: *X Value exceeds Maximum Contaminant Level.
D Dilution was required.
H Holding times for preparation or analysis exceeded
N Tentatively identified compounds
P Second column confirmation exceeds

C Value is below Minimum Compound Limit.
E Value above quantitation range
M Manual Integration used to determine area response
ND Not Detected at the Reporting Limit
PL Permit Limit



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

Analytical Report

WO#: 1110002
Date Reported: 10/28/2011

CLIENT: Blagg Engineering
Project: JFJ LF

Lab Order: 1110002

RCRA 8 METALS (TOTALS)

Analyst: ELS

Selenium	ND	25	mg/L	10	10/12/2011 10:22:22 AM
Silver	ND	2.5	mg/L	10	10/12/2011 10:22:22 AM
Sodium	ND	500	mg/L	20	10/18/2011 1:46:47 PM

Qualifiers: */X Value exceeds Maximum Contaminant Level.
D Dilution was required.
H Holding times for preparation or analysis exceeded
N Tentatively identified compounds
P Second column confirmation exceeds

C Value is below Minimum Compound Limit.
E Value above quantitation range
M Manual Integration used to determine area response
ND Not Detected at the Reporting Limit
PL Permit Limit



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Analytical Report

WO#: 1110002

Date Reported: 10/28/2011

CLIENT: Blagg Engineering
Project: JFJ LF

Lab Order: 1110002

Lab ID: 1110002-009

Collection Date: 9/27/2011 11:45:00 AM

Client Sample ID: Cell 3D

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	10/5/2011 10:02:04 PM
Surr: DNOP	106	81.8-129		%REC	1	10/5/2011 10:02:04 PM
EPA METHOD 8015B: GASOLINE RANGE						SW5035 Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/5/2011 8:20:27 PM
Surr: BFB	94.1	89.7-125		%REC	1	10/5/2011 8:20:27 PM
EPA METHOD 8021B: VOLATILES						SW5035 Analyst: RAA
Benzene	ND	0.047		mg/Kg	1	10/5/2011 8:20:27 PM
Toluene	ND	0.047		mg/Kg	1	10/5/2011 8:20:27 PM
Ethylbenzene	ND	0.047		mg/Kg	1	10/5/2011 8:20:27 PM
Xylenes, Total	ND	0.093		mg/Kg	1	10/5/2011 8:20:27 PM
Surr: 4-Bromofluorobenzene	100	85.3-139		%REC	1	10/5/2011 8:20:27 PM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Fluoride	4.6	0.30		mg/Kg	1	10/10/2011 12:00:54 PM
Chloride	ND	1.5		mg/Kg	1	10/10/2011 12:00:54 PM
Nitrogen, Nitrite (As N)	ND	0.30		mg/Kg	1	10/10/2011 12:00:54 PM
Bromide	ND	1.5		mg/Kg	1	10/10/2011 12:00:54 PM
Nitrogen, Nitrate (As N)	ND	0.30		mg/Kg	1	10/10/2011 12:00:54 PM
Phosphorus, Orthophosphate (As P)	ND	1.5		mg/Kg	1	10/10/2011 12:00:54 PM
Sulfate	970	30		mg/Kg	20	10/10/2011 9:00:39 PM
RCRA 8 METALS (TOTALS)						SW7471 Analyst: ELS
Mercury	ND	0.033		ug/L	1	10/10/2011 12:10:51 PM
RCRA 8 METALS (TOTALS)						Analyst: ELS
Arsenic	ND	25		mg/L	10	10/12/2011 10:24:09 AM
Barium	5.8	1.0		mg/L	10	10/12/2011 10:24:09 AM
Cadmium	ND	1.0		mg/L	10	10/12/2011 10:24:09 AM
Calcium	2,900	250		mg/L	10	10/12/2011 10:24:09 AM
Chromium	3.0	3.0		mg/L	10	10/12/2011 10:24:09 AM
Lead	ND	2.5		mg/L	10	10/12/2011 10:24:09 AM
Magnesium	1,200	250		mg/L	10	10/12/2011 10:24:09 AM
Potassium	ND	500		mg/L	10	10/12/2011 10:24:09 AM

Qualifiers: */X Value exceeds Maximum Contaminant Level.

D Dilution was required.

H Holding times for preparation or analysis exceeded

N Tentatively identified compounds

P Second column confirmation exceeds

C Value is below Minimum Compound Limit.

E Value above quantitation range

M Manual Integration used to determine area response

ND Not Detected at the Reporting Limit

PL Permit Limit



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Analytical Report

WO#: 1110002
Date Reported: 10/28/2011

CLIENT: Blagg Engineering
Project: JFJ LF

Lab Order: 1110002

RCRA 8 METALS (TOTALS)

Analyst: ELS

Selenium	ND	25	mg/L	10	10/12/2011 10:24:09 AM
Silver	ND	2.5	mg/L	10	10/12/2011 10:24:09 AM
Sodium	ND	250	mg/L	10	10/12/2011 10:24:09 AM

Qualifiers: *X Value exceeds Maximum Contaminant Level.

D Dilution was required.

H Holding times for preparation or analysis exceeded

N Tentatively identified compounds

P Second column confirmation exceeds

C Value is below Minimum Compound Limit.

E Value above quantitation range

M Manual Integration used to determine area response

ND Not Detected at the Reporting Limit

PL Permit Limit



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QC SUMMARY REPORT

WO#: 1110002
28-Oct-11

Client: Blagg Engineering
Project: JFJ LF

TestCode: 8015DRO_S

Sample ID	MB-21	Samp Type: MBLK	TestCode: 8015DRO_S	Units: mg/Kg	Prep Date: 10/4/2011	RunNo: 36
Client ID	PBS	Batch ID: 21	TestNo: SW8015		Analysis Date: 10/5/2011	SeqNo: 1439
Analyte		Result	POL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Diesel Range Organics (DRO)
Surr: DNOP
ND
11
10.00
106
81.8
129

Sample ID	LCS-21	Samp Type: LCS	TestCode: 8015DRO_S	Units: mg/Kg	Prep Date: 10/4/2011	RunNo: 36
Client ID	LCSS	Batch ID: 21	TestNo: SW8015		Analysis Date: 10/5/2011	SeqNo: 1441
Analyte		Result	POL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Diesel Range Organics (DRO)
Surr: DNOP
59
5.5
10
50.00
5.000
0
117
66.2
120
110
81.8
129

Qualifiers:

*X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank	C	Value is below Minimum Compound Limit
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
M	Manual integration used to determine area response	ND	Not Detected at the Reporting Limit	P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits				

Original



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QC SUMMARY REPORT

WO#: 1110002
28-Oct-11

Client: Blagg Engineering
Project: JFJ LF

TestCode: 8015GRO_S

Sample ID	MB-20	Sample Type	MBLK	TestCode	8015GRO_S	Units	mg/Kg	Prep Date	10/4/2011	RunNo	37			
Client ID	PBS	Batch ID	20	TestNo	SW8015	SW5035		Analysis Date	10/5/2011	SeqNo	1471			
Analyte		Result		POL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline Range Organics (GRO)
Surr: BFB
ND
5.0
1,000
0
0
0
92.0
89.7
125

Sample ID	LCS-20	Sample Type	LCS	Test Code	8015GRO_S	Units	mg/Kg	Prep Date	10/4/2011	Run No	37			
Client ID	LCSS	Batch ID	20	Test No	SW8015	SW5035		Analysis Date	10/5/2011	Seq No	1475			
Analyte		Result		POL	SPK value	SPK Ref Val		%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Gasoline Range Organics (GRO)
Surr: BFB
29
5.0
1,000
0
116
88.8
124
100
89.7
125

Qualifiers:

*X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank	C	Value is below Minimum Compound Limit
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
M	Manual integration used to determine area response	ND	Not Detected at the Reporting Limit	P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits				



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QC SUMMARY REPORT

W/O#: 1110002
28-Oct-11

Client: Blegg Engineering
Project: JFJ LF

TestCode: 8021BTX_S

Sample ID: MB-20	Sample Type: MBLK	TestCode: 8021BTX_S	Units: mg/Kg	Prep Date: 10/4/2011	RunNo: 37
Client ID: PBS	Batch ID: 20	TestNo: SW8021	SW5035	Analysis Date: 10/5/2011	SeqNo: 1455
Analyte	Result	POL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Benzene	ND	0.050			
Toluene	ND	0.050			
Ethylbenzene	ND	0.050			
Xylenes, Total	ND	0.10			
Surr: 4-Bromofluorobenzene	0.97		1.000		96.6 85.3 139

Sample ID: LCS-20	Sample Type: LCS	TestCode: 8021BTX_S	Units: mg/Kg	Prep Date: 10/4/2011	RunNo: 37
Client ID: LCSS	Batch ID: 20	TestNo: SW8021	SW5035	Analysis Date: 10/5/2011	SeqNo: 1459
Analyte	Result	POL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Benzene	0.97	0.050	1.000	0.01631	95.6 83.3 107
Toluene	0.97	0.050	1.000	0.01321	96.2 74.3 115
Ethylbenzene	0.99	0.050	1.000	0.01422	97.6 80.9 122
Xylenes, Total	3.0	0.10	3.000	0.04451	96.9 85.2 123
Surr: 4-Bromofluorobenzene	0.99		1.000		99.4 85.3 139

Qualifiers:

*X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank	C	Value is below Minimum Compound Limit
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit	P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits				



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QC SUMMARY REPORT

WO#: 1110002
28-Oct-11

Client: Biagg Engineering
Project: JFJ LF

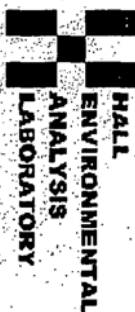
TestCode: HG_CTS

Sample ID	MB-26	Sample Type	MBLK	Test Code	HG_CTS	Units	ug/L	Prep Date	10/10/2011	Run No	54			
Client ID	PBS	Batch ID	26	Test No	SW7471	SW7471		Analysis Date	10/10/2011	Seq No	2581			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Mercury		ND		0.033										

Sample ID	LCS-26	Sample Type	LCS	TestCode	HG_CTS	Units	ug/L	Prep Date	10/10/2011	RunNo	54			
Client ID	LCSS	Batch ID	26	TestNo	SW7471	SW7471		Analysis Date	10/10/2011	SeqNo	2582			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury		0.15		0.033	0.1667	0		90.4	80	120				

Qualifiers:

*X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank	C	Value is below Minimum Compound Limit
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit	P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits				



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QC SUMMARY REPORT

WO#: 1110002

28-Oct-11

Client: Blagg Engineering
Project: JFJLF

TestCode: Metals Soil

Sample ID	MB-25	Sample Type	MBLK	TestCode	METALS_SOI	Units	mg/L	Prep Date	10/9/2011	RunNo	52
Client ID	PBS	Batch ID	25	TestNo	SW6010B			Analysis Date	10/12/2011	SeqNo	2511
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual

Arsenic	ND	2.5									
Barium	ND	0.10									
Cadmium	ND	0.10									
Calcium	ND	25									
Chromium	ND	0.30									
Lead	ND	0.25									
Magnesium	ND	25									
Potassium	ND	50									
Selenium	ND	2.5									
Silver	ND	0.25									
Sodium	ND	25									

Sample ID	LCS-25	Sample Type	LCS	TestCode	METALS_SOI	Units	mg/L	Prep Date	10/9/2011	RunNo	52
Client ID	LCSS	Batch ID	25	TestNo	SW6010B			Analysis Date	10/12/2011	SeqNo	2512
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual

Arsenic	25	2.5	25.00	0	99.8	80	120				
Barium	25	0.10	25.00	0	100	80	120				
Cadmium	25	0.10	25.00	0	100	80	120				
Calcium	2,600	25	2,500	0	104	80	120				
Chromium	25	0.30	25.00	0	101	80	120				
Lead	25	0.25	25.00	0	98.6	80	120				
Magnesium	2,500	25	2,500	0	102	80	120				
Potassium	2,400	50	2,500	0	97.1	80	120				
Selenium	24	2.5	25.00	0	97.6	80	120				

Qualifiers:

*X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank	C	Value is below Minimum Compound Limit
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit	P	Second column confirmation exceeds
PL	Parent Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits				

Original



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QC SUMMARY REPORT

WO#: 1110002
28-Oct-11

Client: Biagg Engineering
Project: JFJ LF

TestCode: Metals Soil

Sample ID	LCS-25	Sample Type	LCS	TestCode	METALS_SOI	Units	mg/L	Prep Date	10/9/2011	RunNo	52
Client ID	LCSS	Batch ID	25	TestNo	SW6010B			Analysis Date	10/12/2011	SeqNo	2512
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD RPDLimit Qual

Silver	5.0	0.25	5,000	0	99.6	80	120
Sodium	2,500	25	2,500	0	99.2	80	120

Qualifiers:

*X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank	C	Value is below Minimum Compound Limit
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
M	Manual Integration used to determine area response	ND	Not Detected at the Reporting Limit	P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits				



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Sample Receipt Checklist

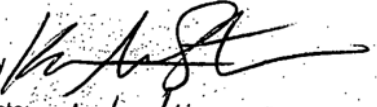
Client Name: BLAGG

Date and Time Received 9/30/2011 1:00:00 PM

Work Order Number: 1110002

RcptNo: 1

Received by: Andy Freeman

Completed by: 

Reviewed by: MG

Completed Date: 10/3/11

Reviewed Date: 10/3/11

Carrier name: UPS

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 ☐

Not Present ☐

Are matrices correctly identified on Chain of custody?

Yes ☒

No ☐

Is it clear what analyses were requested?

Yes ☒

No ☐

Custody seals intact on sample bottles?

Yes ☐

No ☐

Not Present ☒

Samples in proper container/bottle?

Yes ☒

No ☐

Were correct preservatives used and noted?

Yes ☒

No ☐

Sample containers intact?

Yes ☒

No ☐

Sufficient sample volume for indicated test?

Yes ☒

No ☐

Were container labels complete (ID, Pres, Date)?

Yes ☒

No ☐

All samples received within holding time?

Yes ☒

No ☐

Was an attempt made to cool the samples?

Yes ☒

No ☐

All samples received at a temp. of $> 0^{\circ}\text{C}$ to 6.0°C ?

Yes ☒

No ☐

Response when temperature is outside of range:

Preservative added to bottles:

Sample Temp. taken and recorded upon receipt?

Yes ☒

No ☐

4.5 To $^{\circ}\text{C}$

Water - Were bubbles absent in VOC vials?

Yes ☐

No ☐

No Vials ☒

Water - Was there Chlorine Present?

Yes ☐

No ☐

NA ☒

Water - pH acceptable upon receipt?

Yes ☐

No ☐

No Water ☒

Are Samples considered acceptable?

Yes ☒

No ☐

Custody Seals present?

Yes ☐

No ☒

Traffic Report or Packing Lists present?

Yes ☐

No ☒

Airbill or Sticker?

Air Bill ☒

Sticker ☐

Not Present ☐

Airbill No:

Sample Tags Present?

Yes ☐

No ☒

Sample Tags Listed on COC?

Yes ☐

No ☒

Tag Numbers:

Sample Condition?

Intact ☒

Broken ☐

Leaking ☐

Case Number:

SDG:

SAS:

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section below



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Sample Receipt Checklist

Client Contacted? ☐ Yes ☒ No ☐ NA Person Contacted: _____ Comments: _____
Contact Mode: ☐ Phone: ☐ Fax: ☐ Email: ☐ In Person: _____
Client Instructions: _____
Date Contacted: _____ Contacted By: _____
Regarding: _____
CorrectiveAction: _____

BLAGG ENGINEERING, INC.

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

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

USPS CERTIFIED

7007 0220 0004 3556 7752

June 28, 2011

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

RECEIVED OCD
2011 JUN 29 AM 11:12

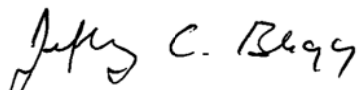
Dear Mr. Jones:

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 17, 2011.

Sampling protocol included collection of native soils below the treatment zone. A sample spade and 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 2e, 3c, 4g, 7g, 8d, 9d, 11h, 12h and 13g (Figure 1). All testing found total petroleum hydrocarbons, BTEX and chloride within permit limits.

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.

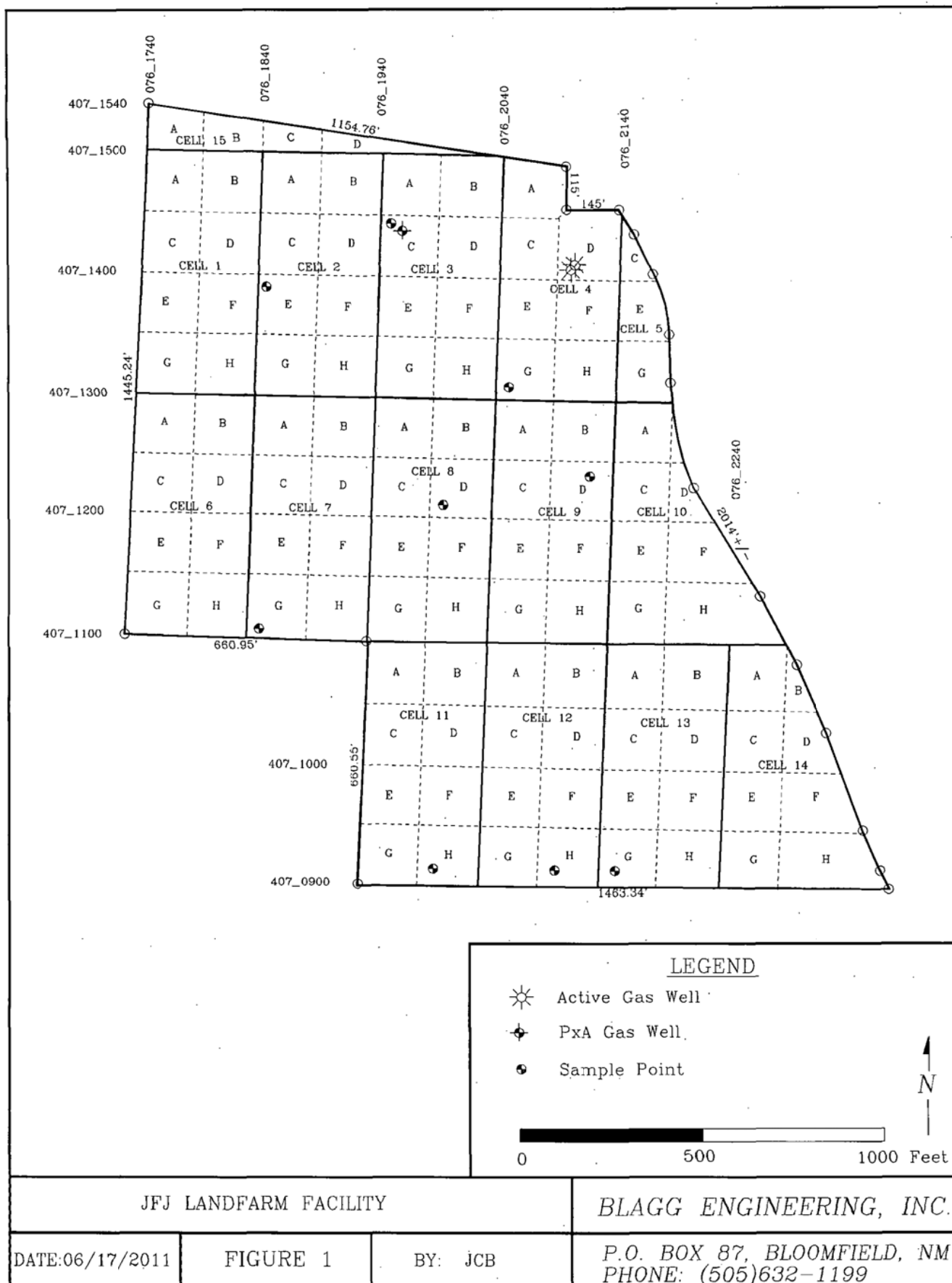
Respectfully submitted:
Blagg Engineering, Inc.



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

5997

Client: BLAKE ENGINEERING INC.				Project Name / Location: JFS LANDFARM QUAPABELL				ANALYSIS / PARAMETERS													
Client Address: PO Box 87 NM				Sampler Name: JEFF BLAKE																	
Client Phone No.: 505-632-1199				Client No.: 94034-0011																	
Sample No./ Identification	Sample Date	Sample Time	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)	CHLORIDE	Sample Cool	Sample Intact			
CELL 136	6/17/2011	1235	58588	Soil Aqueous	1 x 4 oz		X	X								X	Y	Y			
CELL 12H	"	1255	58589	Soil Aqueous	"		X	X								X					
CELL 11H	"	1315	58590	Soil Aqueous	"		X	X								X					
CELL 76	"	1335	58591	Soil Aqueous	"		X	X								X					
CELL 8D	"	1400	58592	Soil Aqueous	"		X	X								X					
CELL 9D	"	1430	58593	Soil Aqueous	"		X	X								X					
CELL 46	"	1505	58594	Soil Aqueous	"		X	X								X					
CELL 3C	"	1535	58595	Soil Aqueous	"		X	X								X					
CELL 2E	"	1606	58596	Soil Aqueous	"		X	X								X					
Relinquished by: (Signature) <i>Jeff Blake</i>				Date: <i>6/21/2011</i>				Time: <i>0822</i>				Received by: (Signature) <i>Deane Thorne</i>				Date: <i>6/21/11</i>				Time: <i>0822</i>	
Relinquished by: (Signature)												Received by: (Signature)									

ENVIROTECH INC.

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

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

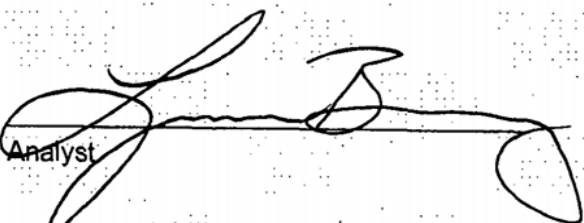
Client:	Blagg Engineering, Inc.	Project #:	94034-0011
Sample ID:	Cell 13G	Date Reported:	06-22-11
Laboratory Number:	58588	Sampled:	06-17-11
Chain of Custody No:	5997	Date Received:	06-21-11
Sample Matrix:	Soil	Date Extracted:	06-21-11
Preservative:	Cool	Date Analyzed:	06-21-11
Condition:	Intact	Analysis Requested:	8015 TPH

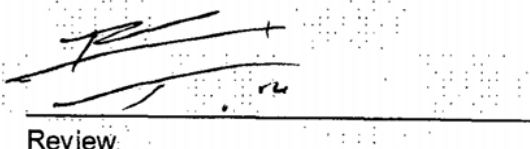
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	0.9	0.1
Total Petroleum Hydrocarbons	0.9	

ND - Parameter not 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 Land Farm Quarterly


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Review



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

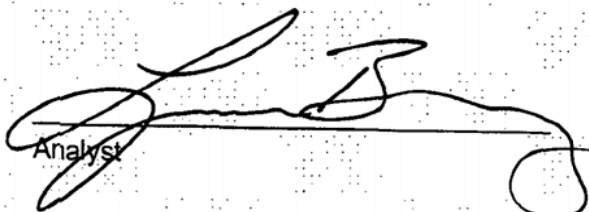
Client:	Blagg Engineering, Inc.	Project #:	94034-0011
Sample ID:	Cell 12H	Date Reported:	06-22-11
Laboratory Number:	58589	Sampled:	06-17-11
Chain of Custody No:	5997	Date Received:	06-21-11
Sample Matrix:	Soil	Date Extracted:	06-21-11
Preservative:	Cool	Date Analyzed:	06-21-11
Condition:	Intact	Analysis Requested:	8015 TPH

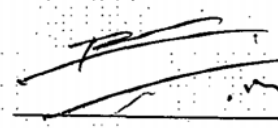
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	

ND - Parameter not 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 Land Farm Quarterly**


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Review



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

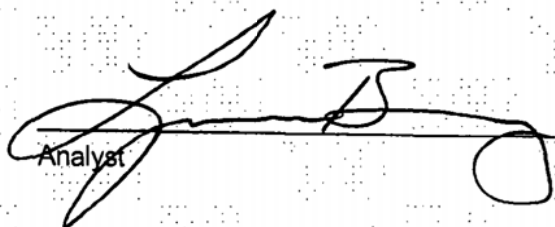
Client:	Blagg Engineering, Inc.	Project #:	94034-0011
Sample ID:	Cell 11H	Date Reported:	06-22-11
Laboratory Number:	58590	Sampled:	06-17-11
Chain of Custody No:	5997	Date Received:	06-21-11
Sample Matrix:	Soil	Date Extracted:	06-21-11
Preservative:	Cool	Date Analyzed:	06-21-11
Condition:	Intact	Analysis Requested:	8015 TPH

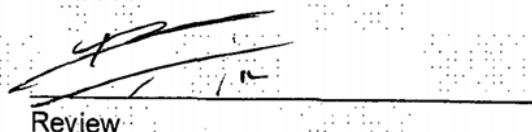
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	

ND - Parameter not 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 Land Farm Quarterly**


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

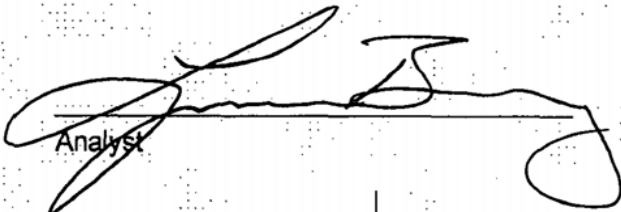
Client:	Blagg Engineering, Inc.	Project #:	94034-0011
Sample ID:	Cell 7G	Date Reported:	06-22-11
Laboratory Number:	58591	Sampled:	06-17-11
Chain of Custody No:	5997	Date Received:	06-21-11
Sample Matrix:	Soil	Date Extracted:	06-21-11
Preservative:	Cool	Date Analyzed:	06-21-11
Condition:	Intact	Analysis Requested:	8015 TPH

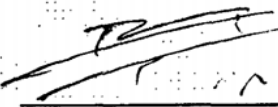
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	

ND - Parameter not 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 Land Farm Quarterly**


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

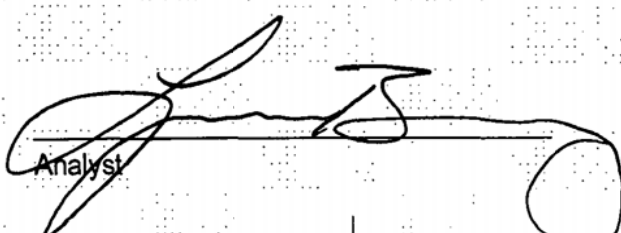
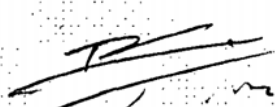
Client:	Blagg Engineering, Inc.	Project #:	94034-0011
Sample ID:	Cell 8D	Date Reported:	06-22-11
Laboratory Number:	58592	Sampled:	06-17-11
Chain of Custody No:	5997	Date Received:	06-21-11
Sample Matrix:	Soil	Date Extracted:	06-21-11
Preservative:	Cool	Date Analyzed:	06-21-11
Condition:	Intact	Analysis 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	

ND - Parameter not 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 Land Farm Quarterly


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Review

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

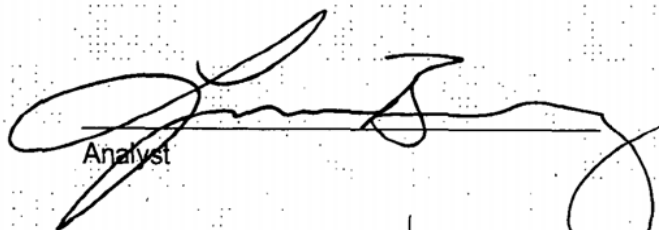
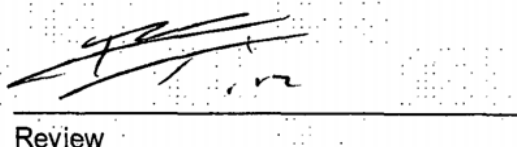
Client:	Blagg Engineering, Inc.	Project #:	94034-0011
Sample ID:	Cell 9D	Date Reported:	06-22-11
Laboratory Number:	58593	Sampled:	06-17-11
Chain of Custody No:	5997	Date Received:	06-21-11
Sample Matrix:	Soil	Date Extracted:	06-21-11
Preservative:	Cool	Date Analyzed:	06-21-11
Condition:	Intact	Analysis 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	

ND - Parameter not 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 Land Farm Quarterly**


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

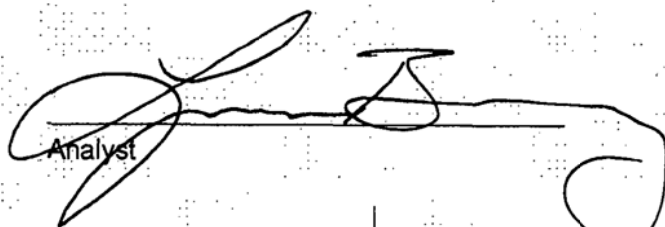
Client:	Blagg Engineering, Inc.	Project #:	94034-0011
Sample ID:	Cell 4G	Date Reported:	06-22-11
Laboratory Number:	58594	Sampled:	06-17-11
Chain of Custody No:	5997	Date Received:	06-21-11
Sample Matrix:	Soil	Date Extracted:	06-21-11
Preservative:	Cool	Date Analyzed:	06-21-11
Condition:	Intact	Analysis Requested:	8015 TPH

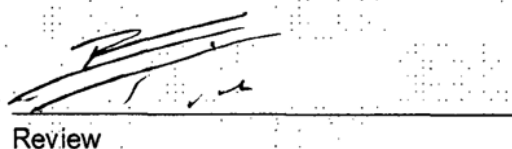
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	1.2	0.1
Total Petroleum Hydrocarbons	1.2	

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 Land Farm Quarterly**


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

Client:	Blagg Engineering, Inc.	Project #:	94034-0011
Sample ID:	Cell 3C	Date Reported:	06-22-11
Laboratory Number:	58595	Sampled:	06-17-11
Chain of Custody No:	5997	Date Received:	06-21-11
Sample Matrix:	Soil	Date Extracted:	06-21-11
Preservative:	Cool	Date Analyzed:	06-21-11
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)	0.3	0.1
Total Petroleum Hydrocarbons	0.3	

ND - Parameter not 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 Land Farm Quarterly**

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

Client:	Blagg Engineering, Inc.	Project #:	94034-0011
Sample ID:	Cell 2E	Date Reported:	06-22-11
Laboratory Number:	58596	Sampled:	06-17-11
Chain of Custody No:	5997	Date Received:	06-21-11
Sample Matrix:	Soil	Date Extracted:	06-21-11
Preservative:	Cool	Date Analyzed:	06-21-11
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)	1.3	0.1
Total Petroleum Hydrocarbons	1.3	

ND - Parameter not 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 Land Farm Quarterly**

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Review

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

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	06-21-11 QA/QC	Date Reported:	06-22-11
Laboratory Number:	58586	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	06-21-11
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF	C-Cal RF	% Difference	Accept Range
Gasoline Range C5 - C10	06/21/11	9.996E+02	1.000E+03	0.04%	0 - 15%
Diesel Range C10 - C28	06/21/11	9.996E+02	1.000E+03	0.04%	0 - 15%

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	4.6	0.2
Diesel Range C10 - C28	2.1	0.1

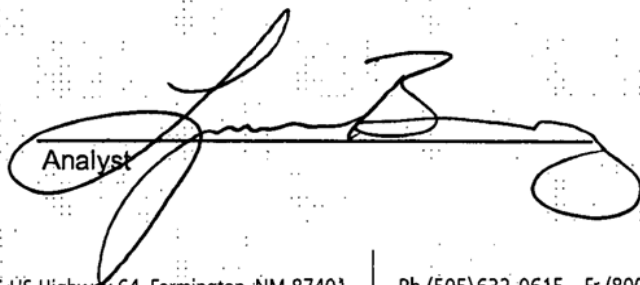
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Range
Gasoline Range C5 - C10	ND	ND	0.00%	0 - 30%
Diesel Range C10 - C28	ND	ND	0.00%	0 - 30%

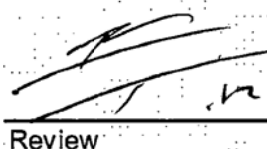
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept Range
Gasoline Range C5 - C10	ND	250	251	100%	75 - 125%
Diesel Range C10 - C28	ND	250	252	101%	75 - 125%

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 58586-58596

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EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client: Blagg Engineering, Inc.
Sample ID: Cell 13G
Laboratory Number: 58588
Chain of Custody: 5997
Sample Matrix: Soil
Preservative: Cool
Condition: Intact

Project #: 94034-0011
Date Reported: 06-22-11
Date Sampled: 06-17-11
Date Received: 06-21-11
Date Analyzed: 06-21-11
Date Extracted: 06-21-11
Analysis Requested: BTEX
Dilution: 10

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	0.9
Toluene	1.1	1.0
Ethylbenzene	ND	1.0
p,m-Xylene	1.5	1.2
o-Xylene	ND	0.9
Total BTEX	2.6	

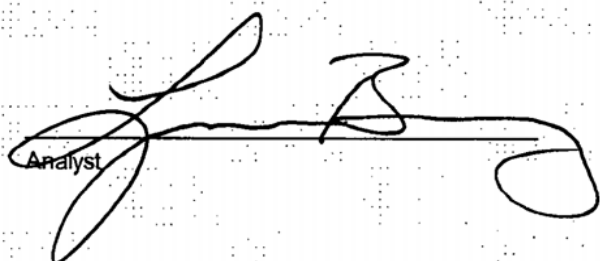
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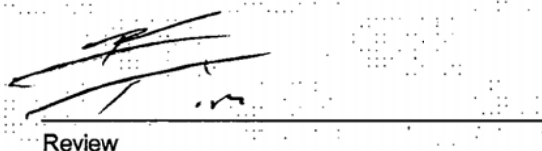
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	94.7 %
	1,4-difluorobenzene	104 %
	Bromochlorobenzene	83.6 %

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 Land Farm Quarterly


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EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client: Blagg Engineering, Inc.
Sample ID: Cell 12H
Laboratory Number: 58589
Chain of Custody: 5997
Sample Matrix: Soil
Preservative: Cool
Condition: Intact

Project #: 94034-0011
Date Reported: 06-22-11
Date Sampled: 06-17-11
Date Received: 06-21-11
Date Analyzed: 06-21-11
Date Extracted: 06-21-11
Analysis Requested: BTEX
Dilution: 10

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	0.9
Toluene	1.7	1.0
Ethylbenzene	ND	1.0
p,m-Xylene	3.0	1.2
o-Xylene	1.3	0.9
Total BTEX	6.0	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	89.2 %
	1,4-difluorobenzene	95.8 %
	Bromochlorobenzene	98.8 %

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 Land Farm Quarterly

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Review



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EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client: Blagg Engineering, Inc.
Sample ID: Cell 11H
Laboratory Number: 58590
Chain of Custody: 5997
Sample Matrix: Soil
Preservative: Cool
Condition: Intact

Project #: 94034-0011
Date Reported: 06-22-11
Date Sampled: 06-17-11
Date Received: 06-21-11
Date Analyzed: 06-21-11
Date Extracted: 06-21-11
Analysis Requested: BTEX
Dilution: 10

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	0.9
Toluene	2.6	1.0
Ethylbenzene	ND	1.0
p,m-Xylene	4.9	1.2
o-Xylene	1.3	0.9
Total BTEX	8.8	

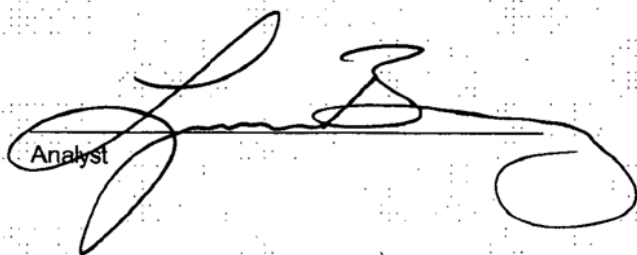
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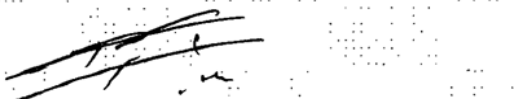
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	92.6 %
	1,4-difluorobenzene	100 %
	Bromochlorobenzene	97.3 %

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 Land Farm Quarterly


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EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client: Blagg Engineering, Inc.
Sample ID: Cell 7G
Laboratory Number: 58591
Chain of Custody: 5997
Sample Matrix: Soil
Preservative: Cool
Condition: Intact

Project #: 94034-0011
Date Reported: 06-22-11
Date Sampled: 06-17-11
Date Received: 06-21-11
Date Analyzed: 06-21-11
Date Extracted: 06-21-11
Analysis Requested: BTEX
Dilution: 10

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	0.9
Toluene	1.6	1.0
Ethylbenzene	ND	1.0
p,m-Xylene	2.5	1.2
o-Xylene	1.4	0.9
Total BTEX	5.5	

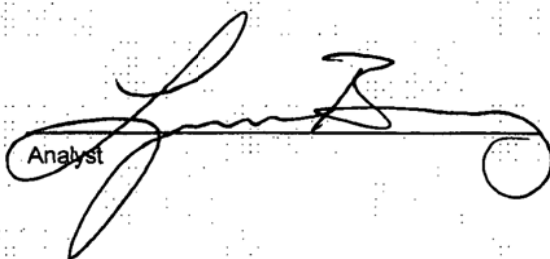
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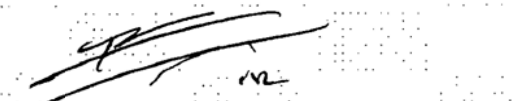
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	97.1 %
	1,4-difluorobenzene	104 %
	Bromochlorobenzene	102 %

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 Land Farm Quarterly


Analyst


Review

Client: Blagg Engineering, Inc.
Sample ID: Cell 8D
Laboratory Number: 58592
Chain of Custody: 5997
Sample Matrix: Soil
Preservative: Cool
Condition: Intact

Project #: 94034-0011
Date Reported: 06-22-11
Date Sampled: 06-17-11
Date Received: 06-21-11
Date Analyzed: 06-21-11
Date Extracted: 06-21-11
Analysis Requested: BTEX
Dilution: 10

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	0.9
Toluene	1.5	1.0
Ethylbenzene	ND	1.0
p,m-Xylene	2.0	1.2
o-Xylene	1.0	0.9
Total BTEX	4.5	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	90.3 %
	1,4-difluorobenzene	97.0 %
	Bromochlorobenzene	107 %

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 Land Farm Quarterly

Analyst

Review



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EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client: Blagg Engineering, Inc.
Sample ID: Cell 9D
Laboratory Number: 58593
Chain of Custody: 5997
Sample Matrix: Soil
Preservative: Cool
Condition: Intact

Project #: 94034-0011
Date Reported: 06-22-11
Date Sampled: 06-17-11
Date Received: 06-21-11
Date Analyzed: 06-21-11
Date Extracted: 06-21-11
Analysis Requested: BTEX
Dilution: 10

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	

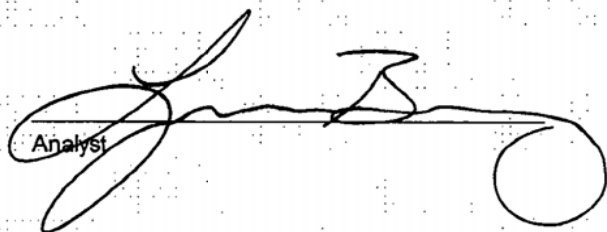
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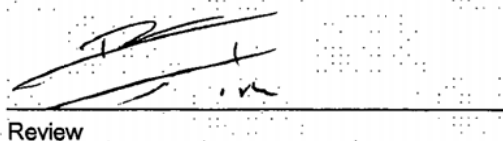
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	89.6 %
	1,4-difluorobenzene	96.7 %
	Bromochlorobenzene	103 %

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 Land Farm Quarterly


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Review



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**EPA METHOD 8021
AROMATIC VOLATILE ORGANICS**

Client: Blagg Engineering, Inc.
Sample ID: Cell 4G
Laboratory Number: 58594
Chain of Custody: 5997
Sample Matrix: Soil
Preservative: Cool
Condition: Intact

Project #: 94034-0011
Date Reported: 06-22-11
Date Sampled: 06-17-11
Date Received: 06-21-11
Date Analyzed: 06-21-11
Date Extracted: 06-21-11
Analysis Requested: BTEX
Dilution: 10

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	

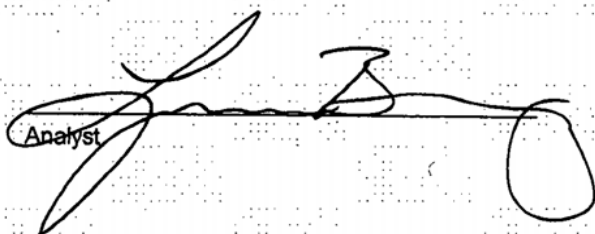
ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	89.6 %
	1,4-difluorobenzene	96.1 %
	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 Land Farm Quarterly


Analyst



Review



envirotech

Analytical Laboratory

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client: Blagg Engineering, Inc.
Sample ID: Cell 3C
Laboratory Number: 58595
Chain of Custody: 5997
Sample Matrix: Soil
Preservative: Cool
Condition: Intact

Project #: 94034-0011
Date Reported: 06-22-11
Date Sampled: 06-17-11
Date Received: 06-21-11
Date Analyzed: 06-21-11
Date Extracted: 06-21-11
Analysis Requested: BTEX
Dilution: 10

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	

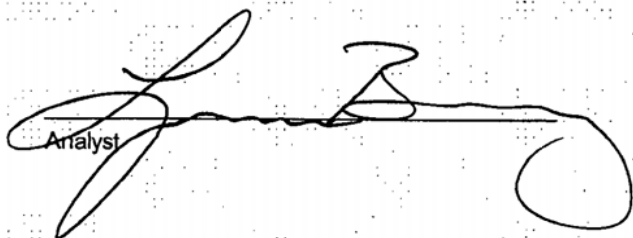
ND - Parameter not detected at the stated detection limit.

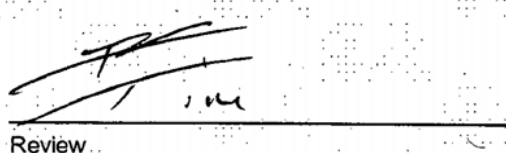
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	91.8 %
	1,4-difluorobenzene	99.1 %
	Bromochlorobenzene	110 %

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 Land Farm Quarterly

Analyst 

Review 

Client: Blagg Engineering, Inc.
Sample ID: Cell 2E
Laboratory Number: 58596
Chain of Custody: 5997
Sample Matrix: Soil
Preservative: Cool
Condition: Intact

Project #: 94034-0011
Date Reported: 06-22-11
Date Sampled: 06-17-11
Date Received: 06-21-11
Date Analyzed: 06-21-11
Date Extracted: 06-21-11
Analysis Requested: BTEX
Dilution: 10

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	

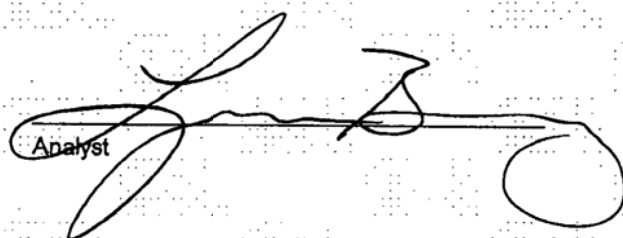
ND - Parameter not detected at the stated detection limit.

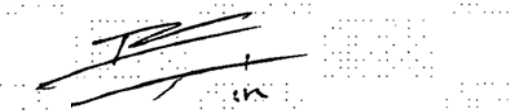
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	96.0 %
	1,4-difluorobenzene	105 %
	Bromochlorobenzene	114 %

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 Land Farm Quarterly


Analyst


Review

**envirotech**

Analytical Laboratory

**EPA METHOD 8021
AROMATIC VOLATILE ORGANICS**

Client:	N/A	Project #:	N/A
Sample ID:	0621BBLK QA/QC	Date Reported:	06-22-11
Laboratory Number:	58586	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	06-21-11
Condition:	N/A	Analysis:	BTEX
		Dilution:	10

Calibration and Detection Limits (ug/L)	I-Cal RF	C-Cal RF	%Diff	Blank Conc	Detect Limit
		Accept Range 0 - 15%			
Benzene	3.9464E+006	3.9543E+006	0.2%	ND	0.1
Toluene	4.0582E+006	4.0663E+006	0.2%	ND	0.1
Ethylbenzene	3.6105E+006	3.6178E+006	0.2%	ND	0.1
p,m-Xylene	9.8902E+006	9.9101E+006	0.2%	ND	0.1
o-Xylene	3.3503E+006	3.3571E+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	1.9	2.0	5.3%	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	500	496	99.2%	39 - 150
Toluene	1.9	500	496	98.9%	46 - 148
Ethylbenzene	ND	500	490	98.0%	32 - 160
p,m-Xylene	ND	1000	993	99.3%	46 - 148
o-Xylene	ND	500	493	98.7%	46 - 148

ND - Parameter not detected at the stated detection limit.

Dilution: Spike and spiked sample concentration represent a dilution proportional to sample dilution.

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 58586-58596

Analyst

Review



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Analytical Laboratory

Chloride

Client:	Blagg Engineering, Inc.	Project #:	94034-0011
Sample ID:	Cell 13G	Date Reported:	06/22/11
Lab ID#:	58588	Date Sampled:	06/17/11
Sample Matrix:	Soil	Date Received:	06/21/11
Preservative:	Cool	Date Analyzed:	06/22/11
Condition:	Intact	Chain of Custody:	5997

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 Land Farm Quarterly

Analyst

Review



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Analytical Laboratory

Chloride

Client:	Blagg Engineering, Inc.	Project #:	94034-0011
Sample ID:	Cell 12H	Date Reported:	06/22/11
Lab ID#:	58589	Date Sampled:	06/17/11
Sample Matrix:	Soil	Date Received:	06/21/11
Preservative:	Cool	Date Analyzed:	06/22/11
Condition:	Intact	Chain of Custody:	5997

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 Land Farm Quarterly

Analyst

Review



Client:	Blagg Engineering, Inc.	Project #:	94034-0011
Sample ID:	Cell 11H	Date Reported:	06/22/11
Lab ID#:	58590	Date Sampled:	06/17/11
Sample Matrix:	Soil	Date Received:	06/21/11
Preservative:	Cool	Date Analyzed:	06/22/11
Condition:	Intact	Chain of Custody:	5997

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:

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Review



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Analytical Laboratory

Chloride

Client:	Blagg Engineering, Inc.	Project #:	94034-0011
Sample ID:	Cell 7G	Date Reported:	06/22/11
Lab ID#:	58591	Date Sampled:	06/17/11
Sample Matrix:	Soil	Date Received:	06/21/11
Preservative:	Cool	Date Analyzed:	06/22/11
Condition:	Intact	Chain of Custody:	5997

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:

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Analyst

Review



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Analytical Laboratory

Chloride

Client:	Blagg Engineering, Inc.	Project #:	94034-0011
Sample ID:	Cell 8D	Date Reported:	06/22/11
Lab ID#:	58592	Date Sampled:	06/17/11
Sample Matrix:	Soil	Date Received:	06/21/11
Preservative:	Cool	Date Analyzed:	06/22/11
Condition:	Intact	Chain of Custody:	5997

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:

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Chloride

Client:	Blagg Engineering, Inc.	Project #:	94034-0011
Sample ID:	Cell 9D	Date Reported:	06/22/11
Lab ID#:	58593	Date Sampled:	06/17/11
Sample Matrix:	Soil	Date Received:	06/21/11
Preservative:	Cool	Date Analyzed:	06/22/11
Condition:	Intact	Chain of Custody:	5997

Parameter	Concentration (mg/Kg)
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Total Chloride

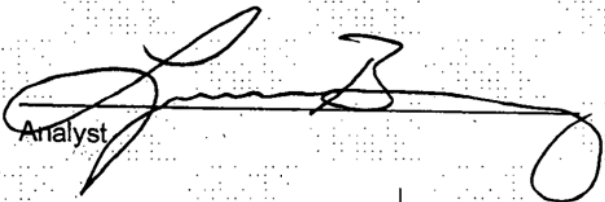
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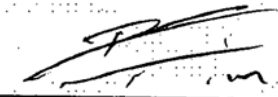
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U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th-ed., 1992.

Comments:

JFJ Land Farm Quarterly


Analyst


Review



Client:	Blagg Engineering, Inc.	Project #:	94034-0011
Sample ID:	Cell 4G	Date Reported:	06/22/11
Lab ID#:	58594	Date Sampled:	06/17/11
Sample Matrix:	Soil	Date Received:	06/21/11
Preservative:	Cool	Date Analyzed:	06/22/11
Condition:	Intact	Chain of Custody:	5997

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:

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Analytical Laboratory

Chloride

Client:	Blagg Engineering, Inc.	Project #:	94034-0011
Sample ID:	Cell 3C	Date Reported:	06/22/11
Lab ID#:	58595	Date Sampled:	06/17/11
Sample Matrix:	Soil	Date Received:	06/21/11
Preservative:	Cool	Date Analyzed:	06/22/11
Condition:	Intact	Chain of Custody:	5997

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:

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Review



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Analytical Laboratory

Chloride

Client:	Blagg Engineering, Inc.	Project #:	94034-0011
Sample ID:	Cell 2E	Date Reported:	06/22/11
Lab ID#:	58596	Date Sampled:	06/17/11
Sample Matrix:	Soil	Date Received:	06/21/11
Preservative:	Cool	Date Analyzed:	06/22/11
Condition:	Intact	Chain of Custody:	5997

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

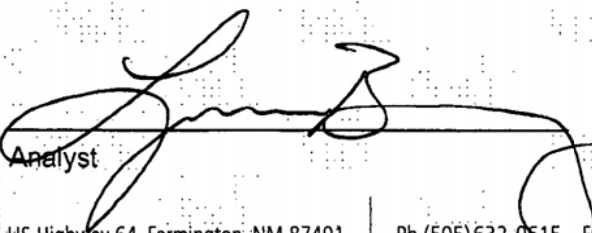
Total Chloride	70
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Reference:

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 Land Farm Quarterly


Analyst


Review

BLAGG ENGINEERING, INC.

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

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

2011 APR 25 A 11:19

April 22, 2011

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

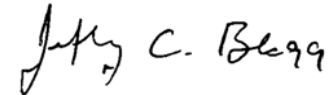
Dear Mr. Jones:

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 25, 2011.

Sampling protocol included collection of native soils below the treatment zone. A trackhoe 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 2c, 3a, 4h, 7c, 8g, 9g, 11g, 12c and 13c (Figure 1). All testing found total petroleum hydrocarbons were within permit limits (100 mg/Kg), non-detect on BTEX analysis and below 100 mg/Kg on chloride testing.

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.

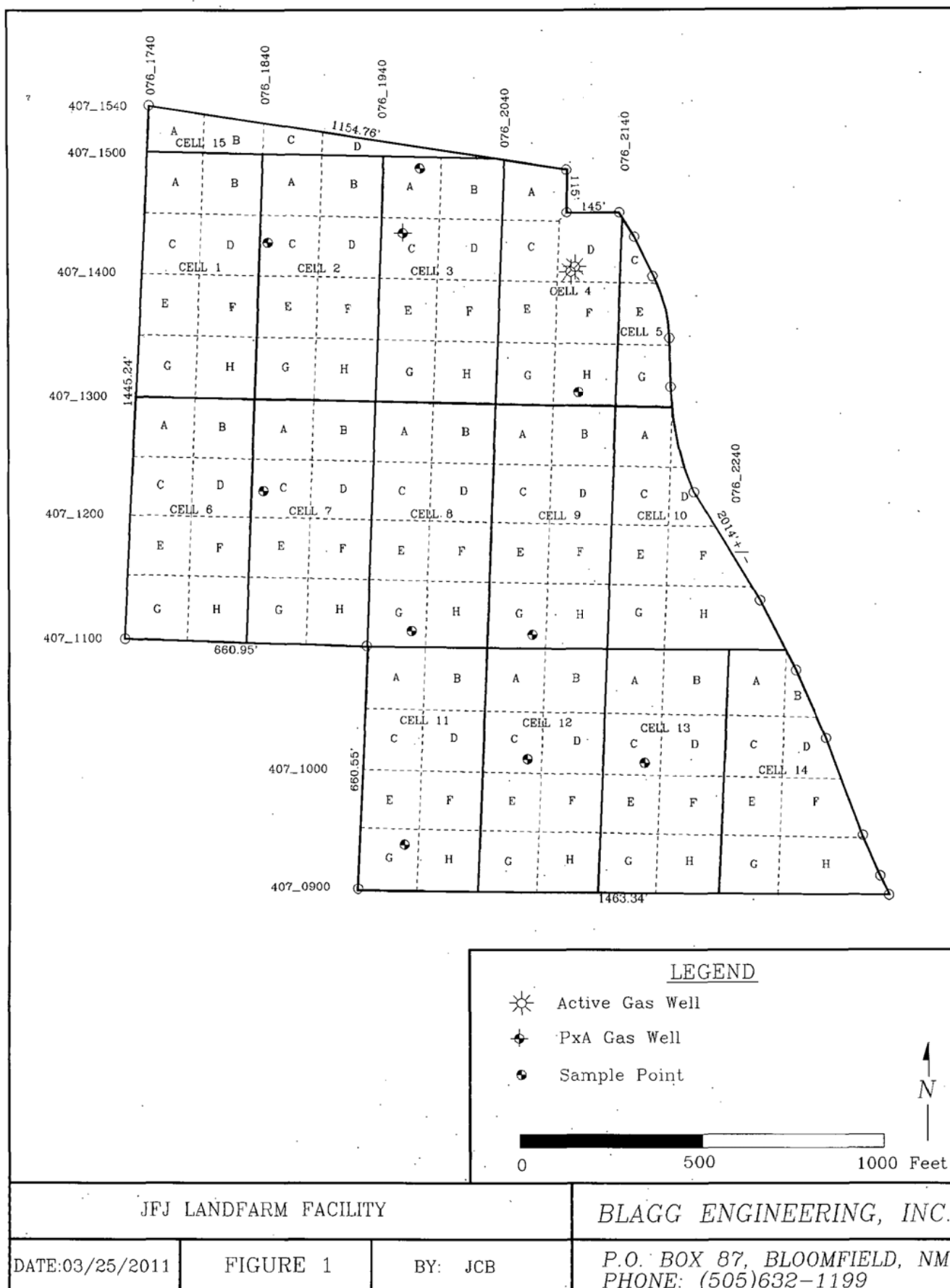
Respectfully submitted:
Blagg Engineering, Inc.



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, April 05, 2011

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

TEL: (505) 632-1199

FAX (505) 632-3903

RE: JFJ Landfarm

Order No.: 1103A79

Dear Jeff Blagg:

Hall Environmental Analysis Laboratory, Inc. received 9 sample(s) on 3/29/2011 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



Chain-of-Custody Record

Client: BELLEC ENGINEERING INC.

Mailing Address: P.O. Box 87
Bloomfield, NM 87413

Phone #: 505-632-1199

email or Fax#:

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

Accreditation: ☐ NELAP ☐ Other

☐ EDD (Type)

Turn-Around Time:

☒ Standard ☐ Rush

Project Name:

JFJ Landfill

Project #:

Project Manager:

J. Blace

Sampler: J. Blace

On-site: ☒ Yes ☐ No

Sample Temperature: 40.4

Container Type and #

Preservative Type

HEAL NO. 1105479

4oz x 1

COOL

1

2

3

4

5

6

7

8

9

10

11

12

13

Received by:

Christine L. Blace

Date: 3/28/11 Time: 1103

Date: 3/29/11 Time: 1043

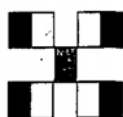
Relinquished by:

Christine L. Blace

Date: 3/28/11 Time: 1103

Date: 3/29/11 Time: 1043

Remarks:



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

BTEX + MTBE + TMB's (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, NO ₃ , NO ₂ , PO ₄ , SO ₄)	
8081 Pesticides / 8082 PCB's	
8260B (VOA)	
8270 (Semi-VOA)	
CHLORIDE	
Air Bubbles (Y or N)	

Hall Environmental Analysis Laboratory, Inc.

Date: 05-Apr-11

CLIENT: Blagg Engineering
Lab Order: 1103A79
Project: JFJ Landfarm
Lab ID: 1103A79-01

Client Sample ID: Cell 11G
Collection Date: 3/25/2011 8:20:00 AM
Date Received: 3/29/2011
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JB
Diesel Range Organics (DRO)	20	10		mg/Kg	1	4/3/2011 3:59:21 AM
Surr: DNOP	102	81.8-129		%REC	1	4/3/2011 3:59:21 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/2/2011 7:44:00 AM
Surr: BFB	98.4	89.7-125		%REC	1	4/2/2011 7:44:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	4/2/2011 7:44:00 AM
Toluene	ND	0.050		mg/Kg	1	4/2/2011 7:44:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	4/2/2011 7:44:00 AM
Xylenes, Total	ND	0.10		mg/Kg	1	4/2/2011 7:44:00 AM
Surr: 4-Bromofluorobenzene	113	85.3-139		%REC	1	4/2/2011 7:44:00 AM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Chloride	ND	7.5		mg/Kg	5	4/2/2011 12:35:55 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: 05-Apr-11

CLIENT: Blagg Engineering
Lab Order: 1103A79
Project: JFJ Landfarm
Lab ID: 1103A79-02

Client Sample ID: Cell 12C
Collection Date: 3/25/2011 8:30:00 AM
Date Received: 3/29/2011
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	4/3/2011 4:33:27 AM
Surr: DNOP	98.9	81.8-129		%REC	1	4/3/2011 4:33:27 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/2/2011 8:13:59 AM
Surr: BFB	99.0	89.7-125		%REC	1	4/2/2011 8:13:59 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	4/2/2011 8:13:59 AM
Toluene	ND	0.050		mg/Kg	1	4/2/2011 8:13:59 AM
Ethylbenzene	ND	0.050		mg/Kg	1	4/2/2011 8:13:59 AM
Xylenes, Total	ND	0.10		mg/Kg	1	4/2/2011 8:13:59 AM
Surr: 4-Bromofluorobenzene	112	85.3-139		%REC	1	4/2/2011 8:13:59 AM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Chloride	ND	7.5		mg/Kg	5	4/2/2011 1:45:34 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: 05-Apr-11

CLIENT: Blagg Engineering
Lab Order: 1103A79
Project: JFJ Landfarm
Lab ID: 1103A79-03

Client Sample ID: Cell 13C
Collection Date: 3/25/2011 8:45:00 AM
Date Received: 3/29/2011
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	4/3/2011 5:07:36 AM
Surr: DNOP	96.9	81.8-129		%REC	1	4/3/2011 5:07:36 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/2/2011 8:43:57 AM
Surr: BFB	102	89.7-125		%REC	1	4/2/2011 8:43:57 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	4/2/2011 8:43:57 AM
Toluene	ND	0.050		mg/Kg	1	4/2/2011 8:43:57 AM
Ethylbenzene	ND	0.050		mg/Kg	1	4/2/2011 8:43:57 AM
Xylenes, Total	ND	0.10		mg/Kg	1	4/2/2011 8:43:57 AM
Surr: 4-Bromofluorobenzene	114	85.3-139		%REC	1	4/2/2011 8:43:57 AM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Chloride	ND	1.5		mg/Kg	1	4/2/2011 2:55:13 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: 05-Apr-11

CLIENT: Blagg Engineering
Lab Order: 1103A79
Project: JFJ Landfarm
Lab ID: 1103A79-04

Client Sample ID: Cell 9G
Collection Date: 3/25/2011 9:00:00 AM
Date Received: 3/29/2011
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	4/3/2011 5:41:42 AM
Surr: DNOP	96.1	81.8-129		%REC	1	4/3/2011 5:41:42 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/2/2011 9:13:54 AM
Surr: BFB	97.4	89.7-125		%REC	1	4/2/2011 9:13:54 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	4/2/2011 9:13:54 AM
Toluene	ND	0.050		mg/Kg	1	4/2/2011 9:13:54 AM
Ethylbenzene	ND	0.050		mg/Kg	1	4/2/2011 9:13:54 AM
Xylenes, Total	ND	0.10		mg/Kg	1	4/2/2011 9:13:54 AM
Surr: 4-Bromofluorobenzene	110	85.3-139		%REC	1	4/2/2011 9:13:54 AM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Chloride	7.8	1.5		mg/Kg	1	4/3/2011 5:25:51 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: 05-Apr-11

CLIENT: Blagg Engineering
Lab Order: 1103A79
Project: JFJ Landfarm
Lab ID: 1103A79-05

Client Sample ID: Cell 8G
Collection Date: 3/25/2011 9:12:00 AM
Date Received: 3/29/2011
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	4/3/2011 6:15:50 AM
Surr: DNOP	82.5	81.8-129		%REC	1	4/3/2011 6:15:50 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/2/2011 9:43:50 AM
Surr: BFB	96.5	89.7-125		%REC	1	4/2/2011 9:43:50 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	4/2/2011 9:43:50 AM
Toluene	ND	0.050		mg/Kg	1	4/2/2011 9:43:50 AM
Ethylbenzene	ND	0.050		mg/Kg	1	4/2/2011 9:43:50 AM
Xylenes, Total	ND	0.10		mg/Kg	1	4/2/2011 9:43:50 AM
Surr: 4-Bromofluorobenzene	108	85.3-139		%REC	1	4/2/2011 9:43:50 AM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Chloride	ND	1.5		mg/Kg	1	4/3/2011 3:23:58 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: 05-Apr-11

CLIENT: Blagg Engineering
Lab Order: 1103A79
Project: JFJ Landfarm
Lab ID: 1103A79-06

Client Sample ID: Cell 7C
Collection Date: 3/25/2011 9:25:00 AM
Date Received: 3/29/2011
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	4/3/2011 7:24:22 AM
Surr: DNOP	93.4	81.8-129		%REC	1	4/3/2011 7:24:22 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/2/2011 10:13:53 AM
Surr: BFB	101	89.7-125		%REC	1	4/2/2011 10:13:53 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	4/2/2011 10:13:53 AM
Toluene	ND	0.050		mg/Kg	1	4/2/2011 10:13:53 AM
Ethylbenzene	ND	0.050		mg/Kg	1	4/2/2011 10:13:53 AM
Xylenes, Total	ND	0.10		mg/Kg	1	4/2/2011 10:13:53 AM
Surr: 4-Bromofluorobenzene	114	85.3-139		%REC	1	4/2/2011 10:13:53 AM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Chloride	ND	1.5		mg/Kg	1	4/3/2011 6:35:30 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: 05-Apr-11

CLIENT: Blagg Engineering
Lab Order: 1103A79
Project: JFJ Landfarm
Lab ID: 1103A79-07

Client Sample ID: Cell 2C
Collection Date: 3/25/2011 9:45:00 AM
Date Received: 3/29/2011
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	4/3/2011 7:58:32 AM
Surr: DNOP	95.3	81.8-129		%REC	1	4/3/2011 7:58:32 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/2/2011 10:43:53 AM
Surr: BFB	98.3	89.7-125		%REC	1	4/2/2011 10:43:53 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	4/2/2011 10:43:53 AM
Toluene	ND	0.050		mg/Kg	1	4/2/2011 10:43:53 AM
Ethylbenzene	ND	0.050		mg/Kg	1	4/2/2011 10:43:53 AM
Xylenes, Total	ND	0.10		mg/Kg	1	4/2/2011 10:43:53 AM
Surr: 4-Bromofluorobenzene	111	85.3-139		%REC	1	4/2/2011 10:43:53 AM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Chloride	ND	1.5		mg/Kg	1	4/3/2011 8:19:58 AM

Qualifiers:

* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
E Estimated value	H Holding times for preparation or analysis exceeded
J Analyte detected below quantitation limits	MCL Maximum Contaminant Level
NC Non-Chlorinated	ND Not Detected at the Reporting Limit
PQL Practical Quantitation Limit	S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 05-Apr-11

CLIENT: Blagg Engineering

Client Sample ID: Cell 3A

Lab Order: 1103A79

Collection Date: 3/25/2011 10:00:00 AM

Project: JFJ Landfarm

Date Received: 3/29/2011

Lab ID: 1103A79-08

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	4/3/2011 8:32:39 AM
Surr: DNOP	98.8	81.8-129		%REC	1	4/3/2011 8:32:39 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/2/2011 11:13:53 AM
Surr: BFB	98.0	89.7-125		%REC	1	4/2/2011 11:13:53 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	4/2/2011 11:13:53 AM
Toluene	ND	0.050		mg/Kg	1	4/2/2011 11:13:53 AM
Ethylbenzene	ND	0.050		mg/Kg	1	4/2/2011 11:13:53 AM
Xylenes, Total	ND	0.10		mg/Kg	1	4/2/2011 11:13:53 AM
Surr: 4-Bromofluorobenzene	111	85.3-139		%REC	1	4/2/2011 11:13:53 AM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Chloride	ND	1.5		mg/Kg	1	4/3/2011 8:37:24 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: 05-Apr-11

CLIENT: Blagg Engineering
Lab Order: 1103A79
Project: JFJ Landfarm
Lab ID: 1103A79-09

Client Sample ID: Cell 4H
Collection Date: 3/25/2011 10:25:00 AM
Date Received: 3/29/2011
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	4/3/2011 9:06:49 AM
Surr: DNOP	95.9	81.8-129		%REC	1	4/3/2011 9:06:49 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/2/2011 11:43:57 AM
Surr: BFB	100	89.7-125		%REC	1	4/2/2011 11:43:57 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	4/2/2011 11:43:57 AM
Toluene	ND	0.050		mg/Kg	1	4/2/2011 11:43:57 AM
Ethylbenzene	ND	0.050		mg/Kg	1	4/2/2011 11:43:57 AM
Xylenes, Total	ND	0.10		mg/Kg	1	4/2/2011 11:43:57 AM
Surr: 4-Bromofluorobenzene	115	85.3-139		%REC	1	4/2/2011 11:43:57 AM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Chloride	ND	1.5		mg/Kg	1	4/3/2011 9:12:14 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

QA/QC SUMMARY REPORT

Client: Blagg Engineering
Project: JFJ Landfarm

Work Order: 1103A79

Analyte	Result	Units	PQL	SPK Va.	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 300.0: Anions											
Sample ID: 1103A79-01AMSD		MSD				Batch ID: 26214	Analysis Date: 4/2/2011 1:10:44 PM				
Chloride	14.48	mg/Kg	7.5	15	0	96.6	53.9	146	0.913	20	
Sample ID: 1103A79-04AMSD		MSD				Batch ID: 26223	Analysis Date: 4/3/2011 6:00:41 AM				
Chloride	20.81	mg/Kg	1.5	15	7.755	87.0	53.9	146	2.42	20	
Sample ID: MB-26214		MBLK				Batch ID: 26214	Analysis Date: 4/2/2011 12:01:05 PM				
Chloride	ND	mg/Kg	1.5								
Sample ID: MB-26223		MBLK				Batch ID: 26223	Analysis Date: 4/3/2011 4:51:02 AM				
Chloride	ND	mg/Kg	1.5								
Sample ID: LCS-26214		LCS				Batch ID: 26214	Analysis Date: 4/2/2011 12:18:30 PM				
Chloride	14.20	mg/Kg	1.5	15	0	94.6	90	110			
Sample ID: LCS-26223		LCS				Batch ID: 26223	Analysis Date: 4/3/2011 5:08:26 AM				
Chloride	14.51	mg/Kg	1.5	15	0	96.7	90	110			
Sample ID: 1103A79-01AMS		MS				Batch ID: 26214	Analysis Date: 4/2/2011 12:53:19 PM				
Chloride	14.62	mg/Kg	7.5	15	0	97.4	53.9	146			
Sample ID: 1103A79-04AMS		MS				Batch ID: 26223	Analysis Date: 4/3/2011 5:43:16 AM				
Chloride	21.32	mg/Kg	1.5	15	7.755	90.4	53.9	146			

Method: EPA Method 8015B: Diesel Range Organics

Sample ID: MB-26192		MBLK				Batch ID: 26192	Analysis Date: 4/2/2011 3:28:02 PM				
Diesel Range Organics (DRO)	ND	mg/Kg	10								
Sample ID: LCS-26192		LCS				Batch ID: 26192	Analysis Date: 4/2/2011 4:02:09 PM				
Diesel Range Organics (DRO)	47.17	mg/Kg	10	50	0	94.3	66.2	120			
Sample ID: LCSD-26192		LCSD				Batch ID: 26192	Analysis Date: 4/2/2011 4:36:15 PM				
Diesel Range Organics (DRO)	49.00	mg/Kg	10	50	0	98.0	66.2	120	3.80	14.3	

Method: EPA Method 8015B: Gasoline Range

Sample ID: 1103A79-01AMSD		MSD				Batch ID: 26188	Analysis Date: 4/2/2011 4:13:26 AM				
Gasoline Range Organics (GRO)	25.80	mg/Kg	5.0	25	0	103	57.7	165	11.3	15.5	
Sample ID: MB-26188		MBLK				Batch ID: 26188	Analysis Date: 4/2/2011 5:13:44 AM				
Gasoline Range Organics (GRO)	ND	mg/Kg	5.0								
Sample ID: LCS-26188		LCS				Batch ID: 26188	Analysis Date: 4/2/2011 4:43:36 AM				
Gasoline Range Organics (GRO)	25.25	mg/Kg	5.0	25	0	101	88.8	124			
Sample ID: 1103A79-01AMS		MS				Batch ID: 26188	Analysis Date: 4/2/2011 3:43:28 AM				
Gasoline Range Organics (GRO)	23.05	mg/Kg	5.0	25	0	92.2	57.7	165			

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: 1103A79

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

Sample ID: MB-26188

MBLK

Batch ID: 26188 Analysis Date: 4/2/2011 5:13:44 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-26188

LCS

Batch ID: 26188 Analysis Date: 4/2/2011 3:13:28 AM

Benzene	0.9956	mg/Kg	0.050	1	0.018	97.8	83.3	107
Toluene	0.8920	mg/Kg	0.050	1	0.0083	88.4	74.3	115
Ethylbenzene	0.9153	mg/Kg	0.050	1	0	91.5	80.9	122
Xylenes, Total	2.813	mg/Kg	0.10	3	0	93.8	85.2	123

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:

3/29/2011

Work Order Number **1103A79**

Received by: **AMG**

Checklist completed by:

Signature

3/29/11

Date

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?

6.4°

<6° C Acceptable

If given sufficient time to cool.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____