

NM2 - _____3_____

**MONITORING
REPORTS
YEAR(S):**

_____2007_____

BLAGG ENGINEERING, INC.

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

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

SENT VIA CERTIFIED MAIL

October 31, 2007

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

Re: BP America Production Company
Crouch Mesa Waste Management Facility, Permit NM-02-003
Annual Report on Treatment Zone Monitoring

Dear Mr. Jones:

On behalf of BP America Production Company, Blagg Engineering, Inc. (BEI) is submitting 2007 annual treatment zone monitoring test results for the Crouch Mesa Waste Management Facility pursuant to Permit NM-02-003, dated November 25, 1998. This report is for the December 1, 2006 through November 30, 2007 reporting period. Treatment zone monitoring is conducted quarterly and test results are submitted annually to NMOCD. Analytical test results indicate the facility met standards with each sample event.

Sampling protocol specifies collection of subsurface samples in each cell from the native ground surface below the treatment zone during quarterly monitoring. Quarterly test procedures include total petroleum hydrocarbons (TPH) and benzene, toluene, ethyl-benzene and xylenes (BTEX). Heavy metals and major cations/anions are to be collected for at least one quarterly sample event. During this reporting period, metals and cations/anions were sampled on August 10, 2007.

The landfarm is presently configured into three (3) active cells, identified as Cell 1, Cell 2 and Cell 5 (Figure 1). The northeast portion of the facility (identified as 'unused cell') is used for equipment and materials storage only.

Attached are complete laboratory test reports for facility treatment zone monitoring. Presented in Table 1 on the following page is a summary of these quarterly laboratory test reports:

Table 1

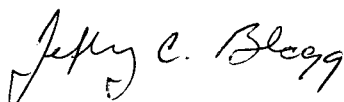
BP Crouch Mesa Waste Management Facility
2007 Annual Treatment Zone Monitoring Test Results

Treatment Cell Identification	TPH mg/Kg	Benz mg/Kg	BTEX mg/Kg	As mg/Kg	Ba mg/Kg	Cd mg/Kg	Cr mg/Kg	Pb mg/Kg	Hg mg/Kg	Se mg/Kg	Ag mg/Kg
<u>Cell No. 1</u>											
2/28/07	37.6	0.03	0.0018	--	--	--	--	--	--	--	--
5/04/07	ND	ND	0.0575	--	--	--	--	--	--	--	--
8/10/07	ND	0.0016	0.0146	0.096	1.91	ND	0.507	0.332	ND	ND	ND
10/03/07	ND	ND	ND	--	--	--	--	--	--	--	--
<u>Cell No. 2</u>											
2/28/07	ND	0.0098	0.006	--	--	--	--	--	--	--	--
5/04/07	ND	0.0058	0.0064	--	--	--	--	--	--	--	--
8/10/07	ND	0.0013	0.0138	0.046	2.31	ND	0.650	0.190	ND	ND	ND
10/03/07	ND	ND	ND	--	--	--	--	--	--	--	--
<u>Cell No. 5</u>											
2/28/07	ND	0.0098	0.0024	--	--	--	--	--	--	--	--
5/04/07	ND	0.0023	0.0182	--	--	--	--	--	--	--	--
8/10/07	ND	0.0014	0.0136	0.264	0.626	ND	0.647	0.390	ND	ND	ND
10/03/07	ND	ND	ND	--	--	--	--	--	--	--	--
REGULATORY STANDARD	100	10	50	5.0	100	1.0	5.0	5.0	0.2	1.0	5.0

ND = Not Detected

Questions or comments concerning the this transmittal may be directed to myself at (505)632-1199 or Larry Schlotterback with BP at (505)326-9200.

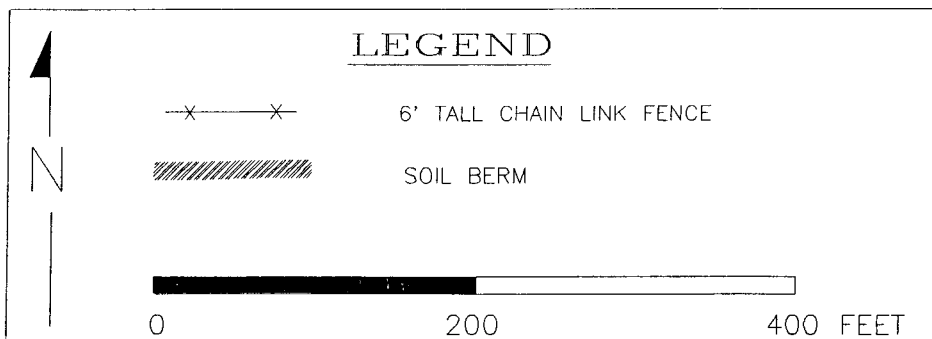
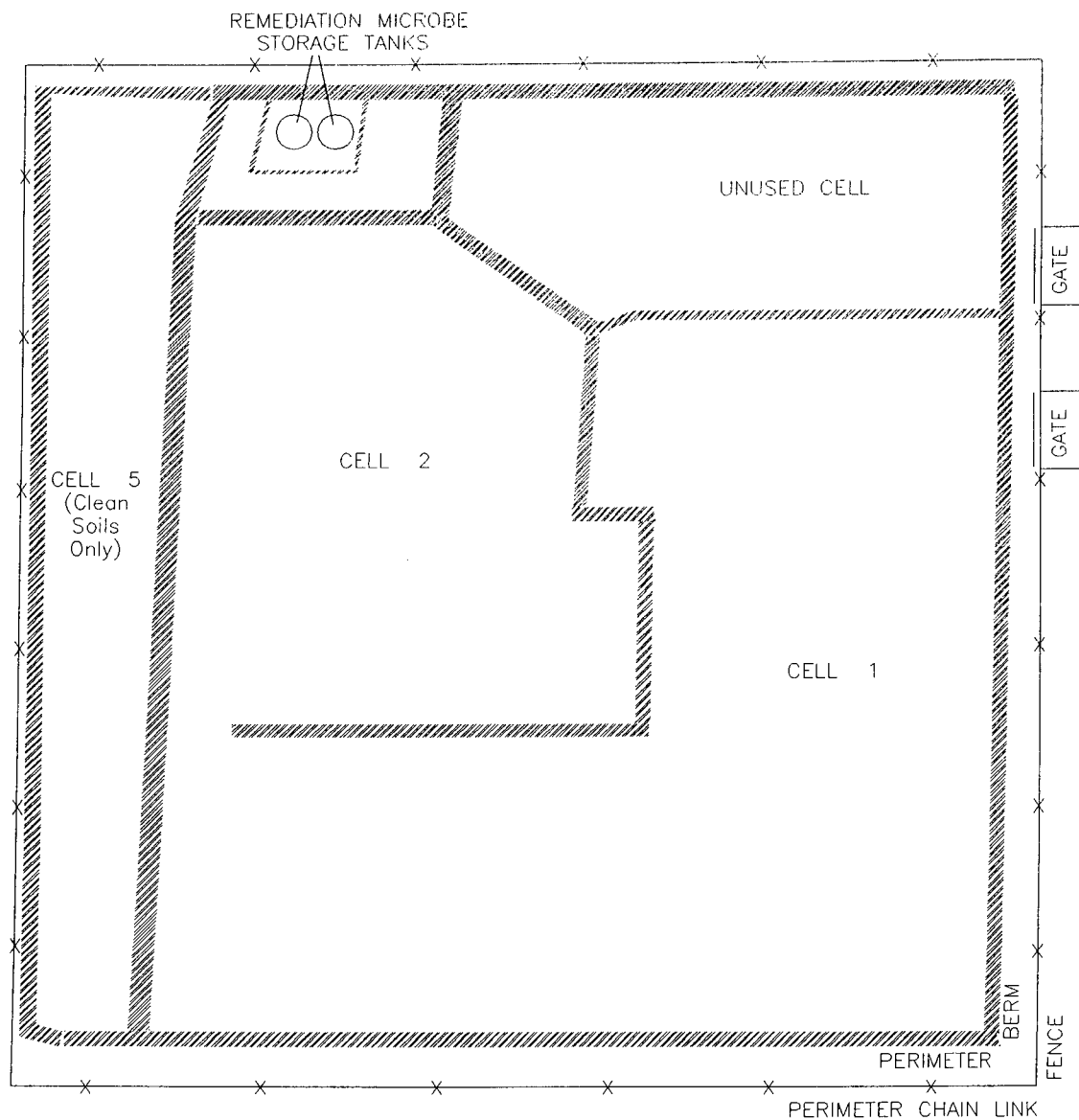
Respectfully submitted:
Blagg Engineering, Inc.



Jeffrey C. Blagg, P.E.
President

Attachments: Site Diagram
Soil Treatment Zone Monitoring Reports

cc: Brandon Powell, NMOCD Aztec District Office
Larry Schlotterback, BP San Juan Operations Center
Jake Hatcher, IEI Farmington



BP AMERICA PRODUCTION CO.
CROUCH MESA WASTE MGMT FAC
SW/4 SE/4 SEC 2 T29N R12W
SAN JUAN CO., NEW MEXICO

OCTOBER 2007

BLAGG ENGINEERING, INC.
CONSULTING ENGINEERING SERVICES

P.O. BOX 87
BLOOMFIELD, NEW MEXICO 87413

PHONE: (505) 632-1199

**SITE
SCHEMATIC**

FIGURE 1

DRWN BY:
JCB

CRMESA4

PROJ MGR:
JCB

2144

U.S. DEPARTMENT OF COMMERCE

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

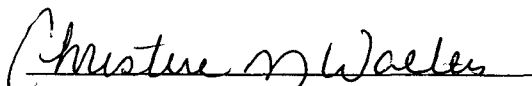
Client:	Blagg / BP	Project #:	94034-010
Sample ID:	Cell 1	Date Reported:	03-04-07
Laboratory Number:	40234	Date Sampled:	02-28-07
Chain of Custody No:	2144	Date Received:	02-28-07
Sample Matrix:	Soil	Date Extracted:	03-01-07
Preservative:	Cool	Date Analyzed:	03-02-07
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

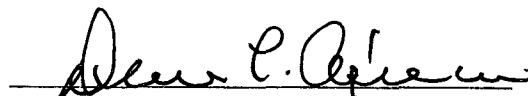
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	37.6	0.1
Total Petroleum Hydrocarbons	37.6	0.2

ND - Parameter not detected at the stated detection limit.

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

Comments: **Crouch Mesa L.F. 2' - 3'.**


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client: Blagg / BP
Sample ID: Cell 2
Laboratory Number: 40235
Chain of Custody No: 2144
Sample Matrix: Soil
Preservative: Cool
Condition: Cool and Intact

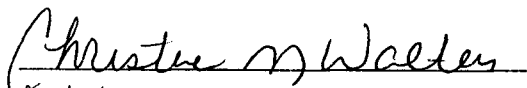
Project #: 94034-010
Date Reported: 03-04-07
Date Sampled: 02-28-07
Date Received: 02-28-07
Date Extracted: 03-01-07
Date Analyzed: 03-02-07
Analysis Requested: 8015 TPH

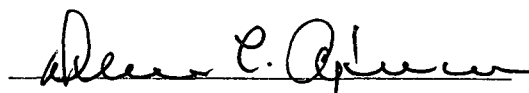
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

ND - Parameter not detected at the stated detection limit.

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

Comments: **Crouch Mesa L.F. 2' - 3'.**


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client: Blagg / BP
Sample ID: Cell 5
Laboratory Number: 40236
Chain of Custody No: 2144
Sample Matrix: Soil
Preservative: Cool
Condition: Cool and Intact

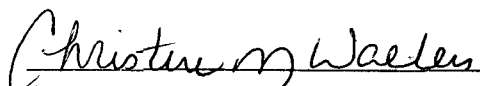
Project #: 94034-010
Date Reported: 03-04-07
Date Sampled: 02-28-07
Date Received: 02-28-07
Date Extracted: 03-01-07
Date Analyzed: 03-02-07
Analysis Requested: 8015 TPH

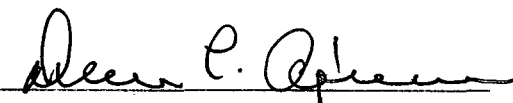
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

ND - Parameter not detected at the stated detection limit.

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

Comments: **Crouch Mesa L.F. 2' - 3'.**


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	03-02-07 QA/QC	Date Reported:	03-04-07
Laboratory Number:	40227	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	03-02-07
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF	C-Cal RF	% Difference	Accept Range
Gasoline Range C5 - C10	07-11-05	2.1258E+003	2.1279E+003	0.10%	0 - 15%
Diesel Range C10 - C28	07-11-05	2.8831E+003	2.8889E+003	0.20%	0 - 15%

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

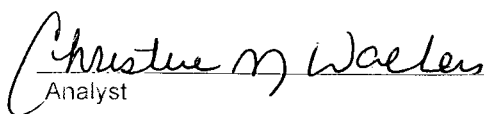
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept Range
Gasoline Range C5 - C10	ND	ND	0.0%	0 - 30%
Diesel Range C10 - C28	ND	ND	0.0%	0 - 30%

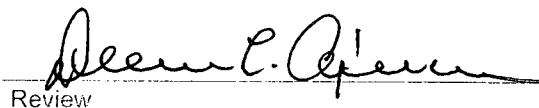
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept Range
Gasoline Range C5 - C10	ND	250	248	99.2%	75 - 125%
Diesel Range C10 - C28	ND	250	240	96.0%	75 - 125%

ND - Parameter not detected at the stated detection limit.

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

Comments: QA/QC for Samples 40227 - 40229, 42033 - 40236 and 40239 - 40240.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client: Blagg / BP
Sample ID: Cell 1
Laboratory Number: 40234
Chain of Custody: 2144
Sample Matrix: Soil
Preservative: Cool
Condition: Cool & Intact

Project #: 94034-010
Date Reported: 03-04-07
Date Sampled: 02-28-07
Date Received: 02-28-07
Date Analyzed: 03-02-07
Date Extracted: 03-01-07
Analysis Requested: BTEX

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

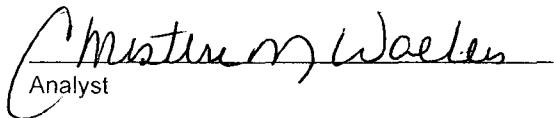
ND - Parameter not detected at the stated detection limit.

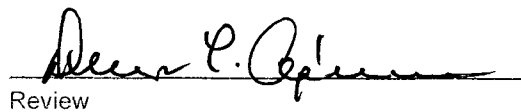
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	97.0 %
	1,4-difluorobenzene	97.0 %
	Bromochlorobenzene	97.0 %

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

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

Comments: Crouch Mesa L.F. 2' - 3'.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg / BP	Project #:	94034-010
Sample ID:	Cell 2	Date Reported:	03-04-07
Laboratory Number:	40235	Date Sampled:	02-28-07
Chain of Custody:	2144	Date Received:	02-28-07
Sample Matrix:	Soil	Date Analyzed:	03-02-07
Preservative:	Cool	Date Extracted:	03-01-07
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	1.8
Toluene	1.8	1.7
Ethylbenzene	ND	1.5
p,m-Xylene	4.2	2.2
o-Xylene	ND	1.0
Total BTEX	6.0	

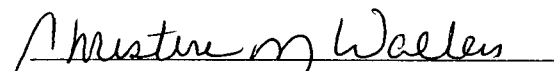
ND - Parameter not detected at the stated detection limit.

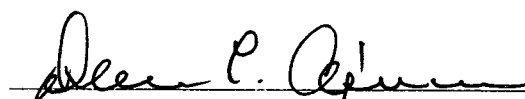
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	99.0 %
	1,4-difluorobenzene	99.0 %
	Bromochlorobenzene	99.0 %

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

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

Comments: Crouch Mesa L.F. 2' - 3'.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg / BP	Project #:	94034-010
Sample ID:	Cell 5	Date Reported:	03-04-07
Laboratory Number:	40236	Date Sampled:	02-28-07
Chain of Custody:	2144	Date Received:	02-28-07
Sample Matrix:	Soil	Date Analyzed:	03-02-07
Preservative:	Cool	Date Extracted:	03-01-07
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	1.8
Toluene	2.4	1.7
Ethylbenzene	ND	1.5
p,m-Xylene	ND	2.2
o-Xylene	ND	1.0
Total BTEX	2.4	

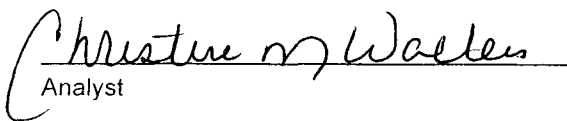
ND - Parameter not detected at the stated detection limit.

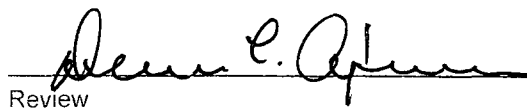
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	97.0 %
	1,4-difluorobenzene	97.0 %
	Bromochlorobenzene	97.0 %

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

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

Comments: Crouch Mesa L.F. 2' - 3'.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client: N/A
Sample ID: 03-02-BTEX QA/QC
Laboratory Number: 40227
Sample Matrix: Soil
Preservative: N/A
Condition: N/A

Project #: N/A
Date Reported: 03-04-07
Date Sampled: N/A
Date Received: N/A
Date Analyzed: 03-02-07
Analysis: BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF	C-Cal RF	%Diff.	Blank Conc.	Detect. Limit
		Accept Range 0 - 15%			
Benzene	3.0476E+007	3.0537E+007	0.2%	ND	0.2
Toluene	4.4468E+007	4.4557E+007	0.2%	ND	0.2
Ethylbenzene	2.3384E+007	2.3431E+007	0.2%	ND	0.2
p,m-Xylene	9.3061E+007	9.3247E+007	0.2%	ND	0.2
o-Xylene	3.9509E+007	3.9588E+007	0.2%	ND	0.1

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

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	50.0	49.8	99.6%	39 - 150
Toluene	ND	50.0	48.0	96.0%	46 - 148
Ethylbenzene	ND	50.0	47.0	94.0%	32 - 160
p,m-Xylene	ND	100	95.0	95.0%	46 - 148
o-Xylene	ND	50.0	49.0	98.0%	46 - 148

ND - Parameter not detected at the stated detection limit.

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

Comments: QA/QC for Samples 40227 - 40229, 40231, 40233 - 40236 and 40239 - 40240.

Analyst

Review

3402

san iuan reproduction 578-129

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client: Blagg / BP
Sample ID: Cell #1
Laboratory Number: 41401
Chain of Custody No: 2043
Sample Matrix: Soil
Preservative: Cool
Condition: Cool and Intact

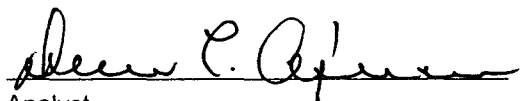
Project #: 94034-010
Date Reported: 05-09-07
Date Sampled: 05-04-07
Date Received: 05-07-07
Date Extracted: 05-08-07
Date Analyzed: 05-09-07
Analysis Requested: 8015 TPH

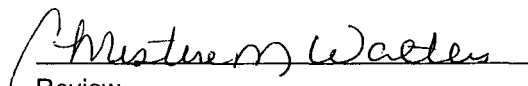
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

ND - Parameter not detected at the stated detection limit.

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

Comments: **Crouch Mesa L.F. 2'-3'**


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client: Blagg / BP
Sample ID: Cell #2
Laboratory Number: 41402
Chain of Custody No: 2043
Sample Matrix: Soil
Preservative: Cool
Condition: Cool and Intact

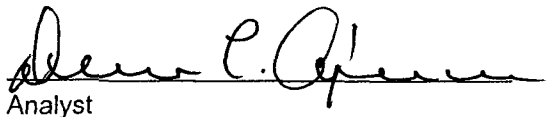
Project #: 94034-010
Date Reported: 05-09-07
Date Sampled: 05-04-07
Date Received: 05-07-07
Date Extracted: 05-08-07
Date Analyzed: 05-09-07
Analysis Requested: 8015 TPH

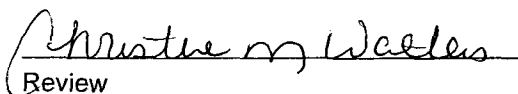
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

ND - Parameter not detected at the stated detection limit.

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

Comments: **Crouch Mesa L.F. 2'**


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

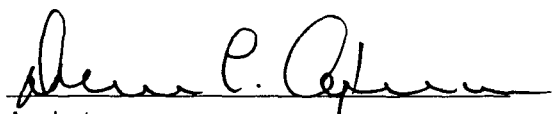
Client:	Blagg / BP	Project #:	94034-010
Sample ID:	Cell #5	Date Reported:	05-09-07
Laboratory Number:	41403	Date Sampled:	05-04-07
Chain of Custody No:	2043	Date Received:	05-07-07
Sample Matrix:	Soil	Date Extracted:	05-08-07
Preservative:	Cool	Date Analyzed:	05-09-07
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

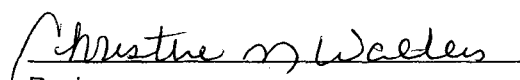
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

ND - Parameter not detected at the stated detection limit.

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

Comments: **Crouch Mesa L.F. 2'-3'**


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	05-09-07 QA/QC	Date Reported:	05-09-07
Laboratory Number:	41400	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	05-09-07
Condition:	N/A	Analysis Requested:	TPH

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

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

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

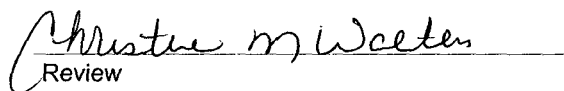
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept Range
Gasoline Range C5 - C10	ND	250	250	100.0%	75 - 125%
Diesel Range C10 - C28	ND	250	250	100.0%	75 - 125%

ND - Parameter not detected at the stated detection limit.

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

Comments: QA/QC for Samples 41400 - 41403


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg / BP	Project #:	94034-010
Sample ID:	Cell #1	Date Reported:	05-09-07
Laboratory Number:	41401	Date Sampled:	05-04-07
Chain of Custody:	2043	Date Received:	05-07-07
Sample Matrix:	Soil	Date Analyzed:	05-09-07
Preservative:	Cool	Date Extracted:	05-08-07
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	1.8
Toluene	12.0	1.7
Ethylbenzene	4.0	1.5
p,m-Xylene	35.0	2.2
o-Xylene	6.5	1.0
Total BTEX	57.5	

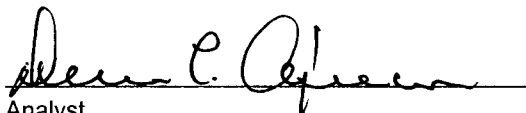
ND - Parameter not detected at the stated detection limit.

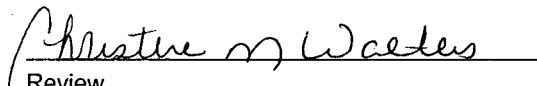
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	97.0 %
	1,4-difluorobenzene	97.0 %
	Bromochlorobenzene	97.0 %

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

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

Comments: Crouch mesa L.F. 2'-3'


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg / BP	Project #:	94034-010
Sample ID:	Cell #2	Date Reported:	05-09-07
Laboratory Number:	41402	Date Sampled:	05-04-07
Chain of Custody:	2043	Date Received:	05-07-07
Sample Matrix:	Soil	Date Analyzed:	05-09-07
Preservative:	Cool	Date Extracted:	05-08-07
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	1.8
Toluene	3.4	1.7
Ethylbenzene	ND	1.5
p,m-Xylene	3.0	2.2
o-Xylene	ND	1.0
Total BTEX	6.4	

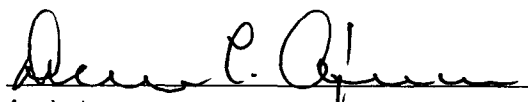
ND - Parameter not detected at the stated detection limit.

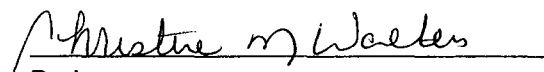
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	98.0 %
	1,4-difluorobenzene	98.0 %
	Bromochlorobenzene	98.0 %

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

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

Comments: Crouch mesa L.F. 2'


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg / BP	Project #:	94034-010
Sample ID:	Cell #5	Date Reported:	05-09-07
Laboratory Number:	41403	Date Sampled:	05-04-07
Chain of Custody:	2043	Date Received:	05-07-07
Sample Matrix:	Soil	Date Analyzed:	05-09-07
Preservative:	Cool	Date Extracted:	05-08-07
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	1.8
Toluene	2.7	1.7
Ethylbenzene	ND	1.5
p,m-Xylene	12.9	2.2
o-Xylene	2.6	1.0
Total BTEX	18.2	

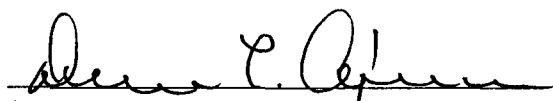
ND - Parameter not detected at the stated detection limit.

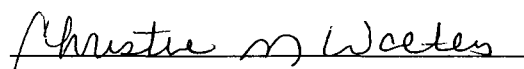
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	99.0 %
	1,4-difluorobenzene	99.0 %
	Bromochlorobenzene	99.0 %

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

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

Comments: Crouch mesa L.F. 2'-3'


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	05-09-BTEX QA/QC	Date Reported:	05-09-07
Laboratory Number:	41400	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	05-09-07
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF	C-Cal RF	%Diff	Blank Conc	Detect Limit
		Accept Range 0 - 15%			
Benzene	3.3697E+007	3.3764E+007	0.2%	ND	0.2
Toluene	3.2928E+007	3.2994E+007	0.2%	ND	0.2
Ethylbenzene	2.6820E+007	2.6874E+007	0.2%	ND	0.2
p,m-Xylene	5.3795E+007	5.3903E+007	0.2%	ND	0.2
o-Xylene	2.4314E+007	2.4363E+007	0.2%	ND	0.1

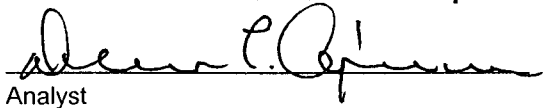
Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff	Accept Range	Detect Limit
Benzene	ND	ND	0.0%	0 - 30%	1.8
Toluene	1.9	1.8	5.3%	0 - 30%	1.7
Ethylbenzene	ND	ND	0.0%	0 - 30%	1.5
p,m-Xylene	4.1	4.0	2.4%	0 - 30%	2.2
o-Xylene	ND	ND	0.0%	0 - 30%	1.0

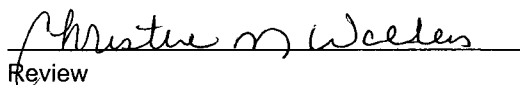
Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	50.0	49.9	99.8%	39 - 150
Toluene	1.9	50.0	51.8	99.8%	46 - 148
Ethylbenzene	ND	50.0	49.9	99.8%	32 - 160
p,m-Xylene	4.1	100	104	99.9%	46 - 148
o-Xylene	ND	50.0	50.0	100.0%	46 - 148

ND - Parameter not detected at the stated detection limit.

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

Comments: QA/QC for Samples 41400 - 41403, 41456 - 41458


Analyst


Review

NO
CO
F
NO

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

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client: Blagg / BP
Sample ID: Cell #1
Laboratory Number: 42724
Chain of Custody No: 3183
Sample Matrix: Soil
Preservative: Cool
Condition: Cool & Intact

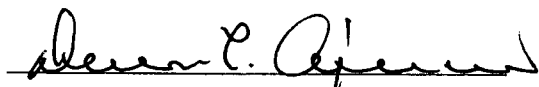
Project #: 94034-010
Date Reported: 08-15-07
Date Sampled: 08-10-07
Date Received: 08-13-07
Date Extracted: 08-13-07
Date Analyzed: 08-15-07
Analysis Requested: 8015 TPH

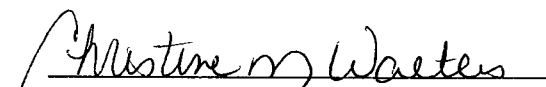
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

ND - Parameter not detected at the stated detection limit.

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

Comments: **Crouch Mesa L.F.**


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client: Blagg / BP
Sample ID: Cell #2
Laboratory Number: 42725
Chain of Custody No: 3183
Sample Matrix: Soil
Preservative: Cool
Condition: Cool & Intact

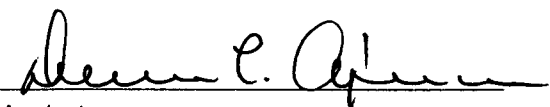
Project #: 94034-010
Date Reported: 08-15-07
Date Sampled: 08-10-07
Date Received: 08-13-07
Date Extracted: 08-13-07
Date Analyzed: 08-15-07
Analysis Requested: 8015 TPH

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

ND - Parameter not detected at the stated detection limit.

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

Comments: **Crouch Mesa L.F.**


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client: Blagg / BP
Sample ID: Cell #5
Laboratory Number: 42726
Chain of Custody No: 3183
Sample Matrix: Soil
Preservative: Cool
Condition: Cool & Intact

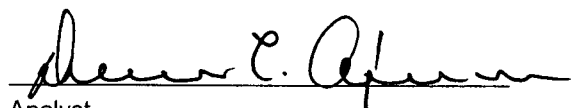
Project #: 94034-010
Date Reported: 08-15-07
Date Sampled: 08-10-07
Date Received: 08-13-07
Date Extracted: 08-13-07
Date Analyzed: 08-15-07
Analysis Requested: 8015 TPH

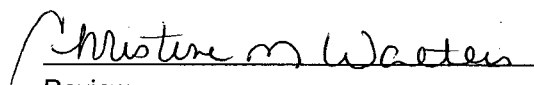
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

ND - Parameter not detected at the stated detection limit.

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

Comments: **Crouch Mesa L.F.**


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	08-15-07 QA/QC	Date Reported:	08-15-07
Laboratory Number:	42719	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	08-15-07
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF	C-Cal RF	% Difference	Accept. Range
Gasoline Range C5 - C10	05-07-07	9.9541E+002	9.9581E+002	0.04%	0 - 15%
Diesel Range C10 - C28	05-07-07	9.9214E+002	9.9254E+002	0.04%	0 - 15%

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

Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	19.5	19.4	0.5%	0 - 30%
Diesel Range C10 - C28	300	298	0.6%	0 - 30%

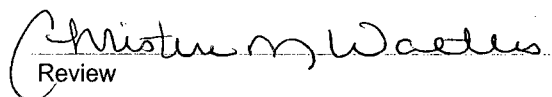
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	19.5	250	269	99.9%	75 - 125%
Diesel Range C10 - C28	300	250	549	99.9%	75 - 125%

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 42719 - 42722, 42724 - 42728, 42742


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client: Blagg / BP
Sample ID: Cell #1
Laboratory Number: 42724
Chain of Custody: 3183
Sample Matrix: Soil
Preservative: Cool
Condition: Cool & Intact

Project #: 94034-010
Date Reported: 08-15-07
Date Sampled: 08-10-07
Date Received: 08-13-07
Date Analyzed: 08-15-07
Date Extracted: 08-13-07
Analysis Requested: BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	1.6	0.9
Toluene	4.9	1.0
Ethylbenzene	1.7	1.0
p,m-Xylene	3.5	1.2
o-Xylene	2.9	0.9
Total BTEX	14.6	

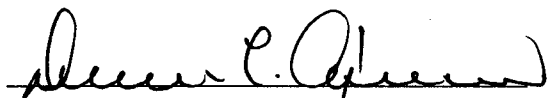
ND - Parameter not detected at the stated detection limit.

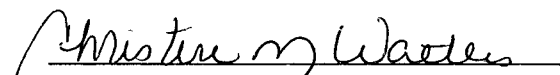
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	99.0 %
	1,4-difluorobenzene	99.0 %
	Bromochlorobenzene	99.0 %

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

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

Comments: Crouch Mesa L.F.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client: Blagg / BP
Sample ID: Cell #2
Laboratory Number: 42725
Chain of Custody: 3183
Sample Matrix: Soil
Preservative: Cool
Condition: Cool & Intact

Project #: 94034-010
Date Reported: 08-15-07
Date Sampled: 08-10-07
Date Received: 08-13-07
Date Analyzed: 08-15-07
Date Extracted: 08-13-07
Analysis Requested: BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	1.3	0.9
Toluene	6.7	1.0
Ethylbenzene	1.4	1.0
p,m-Xylene	1.9	1.2
o-Xylene	2.5	0.9
Total BTEX	13.8	

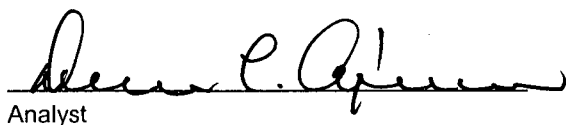
ND - Parameter not detected at the stated detection limit.

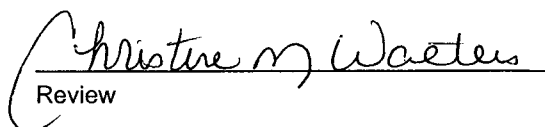
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	98.0 %
	1,4-difluorobenzene	98.0 %
	Bromochlorobenzene	98.0 %

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

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

Comments: Crouch Mesa L.F.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client: Blagg / BP
Sample ID: Cell #5
Laboratory Number: 42726
Chain of Custody: 3183
Sample Matrix: Soil
Preservative: Cool
Condition: Cool & Intact

Project #: 94034-010
Date Reported: 08-15-07
Date Sampled: 08-10-07
Date Received: 08-13-07
Date Analyzed: 08-15-07
Date Extracted: 08-13-07
Analysis Requested: BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	1.4	0.9
Toluene	5.1	1.0
Ethylbenzene	1.6	1.0
p,m-Xylene	2.7	1.2
o-Xylene	2.8	0.9
Total BTEX	13.6	

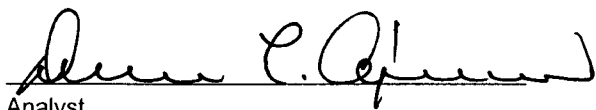
ND - Parameter not detected at the stated detection limit.

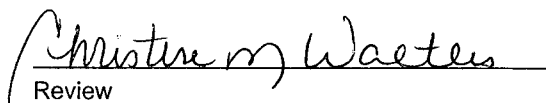
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	98.0 %
	1,4-difluorobenzene	98.0 %
	Bromochlorobenzene	98.0 %

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

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

Comments: Crouch Mesa L.F.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	08-15-BTEX QA/QC	Date Reported:	08-15-07
Laboratory Number:	42719	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	08-15-07
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF	C-Cal RF	%Diff	Blank Conc	Detect Limit
		Accept Range: 0 - 15%			
Benzene	1.1512E+008	1.1535E+008	0.2%	ND	0.1
Toluene	9.5457E+007	9.5648E+007	0.2%	ND	0.1
Ethylbenzene	7.2307E+007	7.2452E+007	0.2%	ND	0.1
p,m-Xylene	1.3806E+008	1.3834E+008	0.2%	ND	0.1
o-Xylene	6.6318E+007	6.6451E+007	0.2%	ND	0.1

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff	Accept Range	Detect Limit
Benzene	1.1	1.1	0.0%	0 - 30%	0.9
Toluene	13.4	13.3	0.7%	0 - 30%	1.0
Ethylbenzene	2.3	2.3	0.0%	0 - 30%	1.0
p,m-Xylene	25.9	25.8	0.4%	0 - 30%	1.2
o-Xylene	15.1	15.0	0.7%	0 - 30%	0.9

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	1.1	50.0	51.0	99.8%	39 - 150
Toluene	13.4	50.0	63.3	99.8%	46 - 148
Ethylbenzene	2.3	50.0	52.2	99.8%	32 - 160
p,m-Xylene	25.9	100	125	99.6%	46 - 148
o-Xylene	15.1	50.0	65.1	100.0%	46 - 148

ND - Parameter not detected at the stated detection limit.

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

Comments: QA/QC for Samples 42719, 42724 - 42728, 42732, 42742

Analyst

Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS

Client: Blagg / BP
Sample ID: Cell #1
Laboratory Number: 42724
Chain of Custody: 3183
Sample Matrix: Soil
Preservative: Cool
Condition: Intact

Project #: 94034-010
Date Reported: 08-15-07
Date Sampled: 08-10-07
Date Received: 08-13-07
Date Analyzed: 08-15-07
Date Digested: 08-13-07
Analysis Needed: Total Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Arsenic	0.096	0.001	5.0
Barium	1.91	0.001	100
Cadmium	ND	0.001	1.0
Chromium	0.507	0.001	5.0
Lead	0.332	0.001	5.0
Mercury	ND	0.001	0.2
Selenium	ND	0.001	1.0
Silver	ND	0.001	5.0

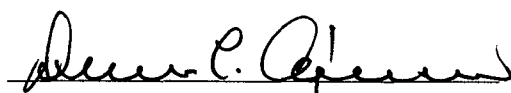
ND - Parameter not detected at the stated detection limit.

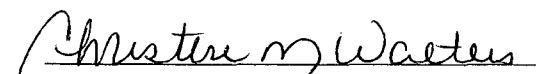
References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils.
SW-846, USEPA, December 1996.

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

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

Comments: **Crouch Mesa L.F.**


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS

Client: Blagg / BP
Sample ID: Cell #2
Laboratory Number: 42725
Chain of Custody: 3183
Sample Matrix: Soil
Preservative: Cool
Condition: Intact

Project #: 94034-010
Date Reported: 08-15-07
Date Sampled: 08-10-07
Date Received: 08-13-07
Date Analyzed: 08-15-07
Date Digested: 08-13-07
Analysis Needed: Total Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Arsenic	0.046	0.001	5.0
Barium	2.31	0.001	100
Cadmium	ND	0.001	1.0
Chromium	0.650	0.001	5.0
Lead	0.190	0.001	5.0
Mercury	ND	0.001	0.2
Selenium	ND	0.001	1.0
Silver	ND	0.001	5.0

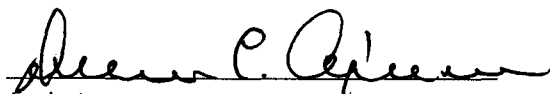
ND - Parameter not detected at the stated detection limit.

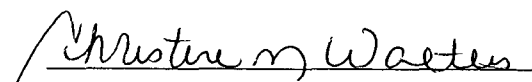
References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils.
SW-846, USEPA, December 1996.

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

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

Comments: **Crouch Mesa L.F.**


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS

Client: Blagg / BP
Sample ID: Cell #5
Laboratory Number: 42726
Chain of Custody: 3183
Sample Matrix: Soil
Preservative: Cool
Condition: Intact

Project #: 94034-010
Date Reported: 08-15-07
Date Sampled: 08-10-07
Date Received: 08-13-07
Date Analyzed: 08-15-07
Date Digested: 08-13-07
Analysis Needed: Total Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	TCLP Regulatory Level (mg/Kg)
Arsenic	0.264	0.001	5.0
Barium	0.626	0.001	100
Cadmium	ND	0.001	1.0
Chromium	0.647	0.001	5.0
Lead	0.390	0.001	5.0
Mercury	ND	0.001	0.2
Selenium	ND	0.001	1.0
Silver	ND	0.001	5.0

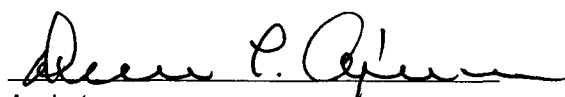
ND - Parameter not detected at the stated detection limit.

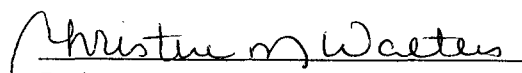
References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils.
SW-846, USEPA, December 1996.

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

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

Comments: **Crouch Mesa L.F.**


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS Quality Control / Quality Assurance Report

Client: QA/QC
Sample ID: 08-15 TM QA/AC
Laboratory Number: 42724
Sample Matrix: Soil
Analysis Requested: Total RCRA Metals
Condition: N/A

Project #: QA/QC
Date Reported: 08-15-07
Date Sampled: N/A
Date Received: N/A
Date Analyzed: 08-15-07
Date Digested: 08-13-07

Blank & Duplicate Conc. (mg/Kg)	Instrument Blank (mg/Kg)	Method Blank	Detection Limit	Sample	Duplicate	% Diff.	Acceptance Range
Arsenic	ND	ND	0.001	0.096	0.096	0.0%	0% - 30%
Barium	ND	ND	0.001	1.91	1.94	1.6%	0% - 30%
Cadmium	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Chromium	ND	ND	0.001	0.507	0.511	0.8%	0% - 30%
Lead	ND	ND	0.001	0.332	0.333	0.3%	0% - 30%
Mercury	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Selenium	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Silver	ND	ND	0.001	ND	ND	0.0%	0% - 30%

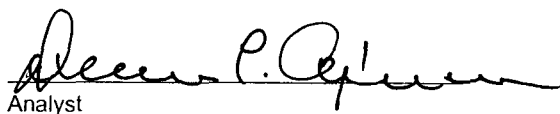
Spike Conc. (mg/Kg)	Spike Added	Sample	Spiked Sample	Percent Recovery	Acceptance Range
Arsenic	0.500	0.096	0.594	99.7%	80% - 120%
Barium	0.500	1.91	2.40	99.6%	80% - 120%
Cadmium	0.500	ND	0.499	99.8%	80% - 120%
Chromium	0.500	0.507	1.01	100.3%	80% - 120%
Lead	0.500	0.332	0.830	99.8%	80% - 120%
Mercury	0.500	ND	0.498	99.6%	80% - 120%
Selenium	0.500	ND	0.499	99.8%	80% - 120%
Silver	0.500	ND	0.500	100.0%	80% - 120%

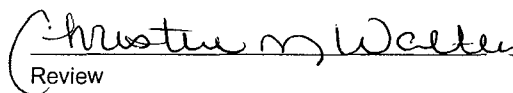
ND - Parameter not detected at the stated detection limit.

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

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

Comments: QA/QC for Samples 42724 - 42726, 42729


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client: Blagg / BP
Sample ID: Cell #1
Laboratory Number: 42724
Chain of Custody: 3183
Sample Matrix: Soil Extract
Preservative: Cool
Condition: Cool & Intact

Project #: 94034-010
Date Reported: 08-14-07
Date Sampled: 08-10-07
Date Received: 08-13-07
Date Extracted: 08-13-07
Date Analyzed: 08-14-07

Parameter	Analytical Result	Units
pH	7.66	s.u.
Conductivity @ 25° C	236	umhos/cm
Total Dissolved Solids @ 180C	156	mg/L
Total Dissolved Solids (Calc)	153	mg/L
SAR	5.6	ratio
Total Alkalinity as CaCO3	53.0	mg/L
Total Hardness as CaCO3	13.4	mg/L

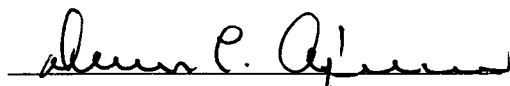
Bicarbonate as HCO3	53.0	mg/L	0.87	meq/L
Carbonate as CO3	<0.1	mg/L	0.00	meq/L
Hydroxide as OH	<0.1	mg/L	0.00	meq/L
Nitrate Nitrogen	0.96	mg/L	0.02	meq/L
Nitrite Nitrogen	<0.01	mg/L	0.00	meq/L
Chloride	1.14	mg/L	0.03	meq/L
Fluoride	1.54	mg/L	0.08	meq/L
Phosphate	0.10	mg/L	0.00	meq/L
Sulfate	64.2	mg/L	1.34	meq/L
Iron	0.01	mg/L	0.00	meq/L
Calcium	3.68	mg/L	0.18	meq/L
Magnesium	1.02	mg/L	0.08	meq/L
Potassium	0.61	mg/L	0.02	meq/L
Sodium	47.2	mg/L	2.05	meq/L

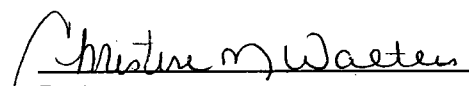
Cations	2.34	meq/L
Anions	2.34	meq/L

Cation/Anion Difference 0.02%

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

Comments: Crouch Mesa L.F.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

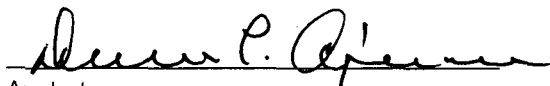
Client: Blagg / BP
Sample ID: Cell #2
Laboratory Number: 42725
Chain of Custody: 3183
Sample Matrix: Soil Extract
Preservative: Cool
Condition: Cool & Intact

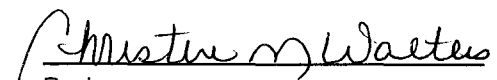
Project #: 94034-010
Date Reported: 08-14-07
Date Sampled: 08-10-07
Date Received: 08-13-07
Date Extracted: 08-13-07
Date Analyzed: 08-14-07

Parameter	Analytical Result	Units		
pH	7.88	s.u.		
Conductivity @ 25° C	1,880	umhos/cm		
Total Dissolved Solids @ 180C	1,230	mg/L		
Total Dissolved Solids (Calc)	1,200	mg/L		
SAR	9.2	ratio		
Total Alkalinity as CaCO3	22.4	mg/L		
Total Hardness as CaCO3	213	mg/L		
Bicarbonate as HCO3	22.4	mg/L	0.37	meq/L
Carbonate as CO3	<0.1	mg/L	0.00	meq/L
Hydroxide as OH	<0.1	mg/L	0.00	meq/L
Nitrate Nitrogen	2.85	mg/L	0.05	meq/L
Nitrite Nitrogen	<0.01	mg/L	0.00	meq/L
Chloride	93.8	mg/L	2.65	meq/L
Fluoride	1.51	mg/L	0.08	meq/L
Phosphate	0.16	mg/L	0.01	meq/L
Sulfate	710	mg/L	14.78	meq/L
Iron	<0.001	mg/L	0.00	meq/L
Calcium	37.2	mg/L	1.86	meq/L
Magnesium	29.4	mg/L	2.42	meq/L
Potassium	5.85	mg/L	0.15	meq/L
Sodium	310	mg/L	13.49	meq/L
Cations			17.91	meq/L
Anions			17.93	meq/L
Cation/Anion Difference			0.09%	

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

Comments: Crouch Mesa L.F.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

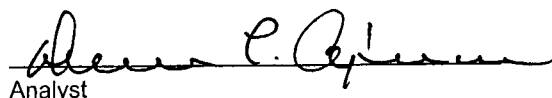
Client: Blagg / BP
Sample ID: Cell #5
Laboratory Number: 42726
Chain of Custody: 3183
Sample Matrix: Soil Extract
Preservative: Cool
Condition: Cool & Intact

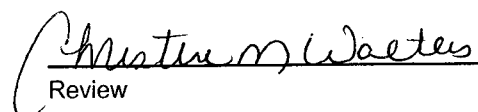
Project #: 94034-010
Date Reported: 08-14-07
Date Sampled: 08-10-07
Date Received: 08-13-07
Date Extracted: 08-13-07
Date Analyzed: 08-14-07

Parameter	Analytical Result	Units		
pH	7.73	s.u.		
Conductivity @ 25° C	1,740	umhos/cm		
Total Dissolved Solids @ 180C	1,110	mg/L		
Total Dissolved Solids (Calc)	1,090	mg/L		
SAR	3.3	ratio		
Total Alkalinity as CaCO3	14.6	mg/L		
Total Hardness as CaCO3	435	mg/L		
Bicarbonate as HCO3	14.6	mg/L	0.24	meq/L
Carbonate as CO3	<0.1	mg/L	0.00	meq/L
Hydroxide as OH	<0.1	mg/L	0.00	meq/L
Nitrate Nitrogen	0.98	mg/L	0.02	meq/L
Nitrite Nitrogen	<0.01	mg/L	0.00	meq/L
Chloride	128	mg/L	3.61	meq/L
Fluoride	1.62	mg/L	0.09	meq/L
Phosphate	0.27	mg/L	0.01	meq/L
Sulfate	594	mg/L	12.37	meq/L
Iron	<0.001	mg/L	0.00	meq/L
Calcium	154	mg/L	7.68	meq/L
Magnesium	12.3	mg/L	1.01	meq/L
Potassium	26.8	mg/L	0.69	meq/L
Sodium	160	mg/L	6.96	meq/L
Cations			16.34	meq/L
Anions			16.33	meq/L
Cation/Anion Difference			0.09%	

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

Comments: Crouch Mesa L.F.


Analyst


Review

347

[illegible]

ENVIROTECH INC.

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

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client: Blagg / BP
Sample ID: Cell #1
Laboratory Number: 43279
Chain of Custody No: 3477
Sample Matrix: Soil
Preservative: Cool
Condition: Cool & Intact

Project #: 94034-010
Date Reported: 10-08-07
Date Sampled: 10-03-07
Date Received: 10-05-07
Date Extracted: 10-05-07
Date Analyzed: 10-08-07
Analysis Requested: 8015 TPH

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

ND - Parameter not detected at the stated detection limit.

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

Comments: **Crouch Mesa L.F.**


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client: Blagg / BP
Sample ID: Cell #2
Laboratory Number: 43280
Chain of Custody No: 3477
Sample Matrix: Soil
Preservative: Cool
Condition: Cool & Intact

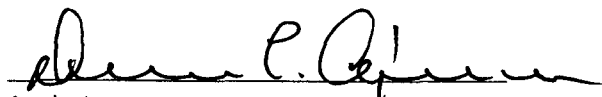
Project #: 94034-010
Date Reported: 10-08-07
Date Sampled: 10-03-07
Date Received: 10-05-07
Date Extracted: 10-05-07
Date Analyzed: 10-08-07
Analysis Requested: 8015 TPH

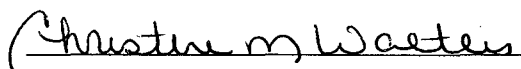
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

ND - Parameter not detected at the stated detection limit.

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

Comments: **Crouch Mesa L.F.**


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client: Blagg / BP
Sample ID: Cell #5
Laboratory Number: 43281
Chain of Custody No: 3477
Sample Matrix: Soil
Preservative: Cool
Condition: Cool & Intact

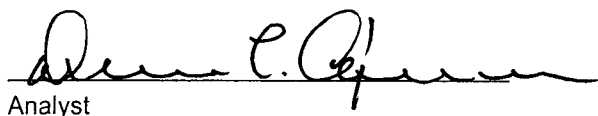
Project #: 94034-010
Date Reported: 10-08-07
Date Sampled: 10-03-07
Date Received: 10-05-07
Date Extracted: 10-05-07
Date Analyzed: 10-08-07
Analysis Requested: 8015 TPH

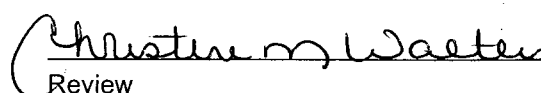
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

ND - Parameter not detected at the stated detection limit.

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

Comments: **Crouch Mesa L.F.**


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	10-08-07 QA/QC	Date Reported:	10-08-07
Laboratory Number:	43279	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	10-08-07
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF	C-Cal RF	% Difference	Accept. Range
Gasoline Range C5 - C10	05-07-07	9.9419E+002	9.9459E+002	0.04%	0 - 15%
Diesel Range C10 - C28	05-07-07	1.0095E+003	1.0099E+003	0.04%	0 - 15%

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

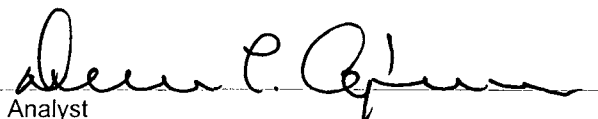
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	ND	ND	0.0%	0 - 30%
Diesel Range C10 - C28	ND	ND	0.0%	0 - 30%

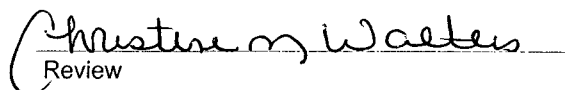
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	ND	250	250	100.0%	75 - 125%
Diesel Range C10 - C28	ND	250	250	100.0%	75 - 125%

ND - Parameter not detected at the stated detection limit.

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

Comments: QA/QC for Samples 43279 - 43288


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg / BP	Project #:	94034-010
Sample ID:	Cell #1	Date Reported:	10-08-07
Laboratory Number:	43279	Date Sampled:	10-03-07
Chain of Custody:	3477	Date Received:	10-05-07
Sample Matrix:	Soil	Date Analyzed:	10-08-07
Preservative:	Cool	Date Extracted:	10-05-07
Condition:	Cool & Intact	Analysis Requested:	BTEX

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

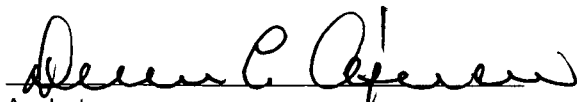
ND - Parameter not detected at the stated detection limit.

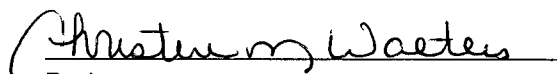
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	98.0 %
	1,4-difluorobenzene	98.0 %
	Bromochlorobenzene	98.0 %

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

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

Comments: Crouch Mesa L.F.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client: Blagg / BP
Sample ID: Cell #2
Laboratory Number: 43280
Chain of Custody: 3477
Sample Matrix: Soil
Preservative: Cool
Condition: Cool & Intact

Project #: 94034-010
Date Reported: 10-08-07
Date Sampled: 10-03-07
Date Received: 10-05-07
Date Analyzed: 10-08-07
Date Extracted: 10-05-07
Analysis Requested: BTEX

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

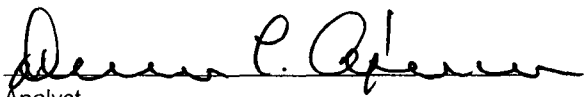
ND - Parameter not detected at the stated detection limit.

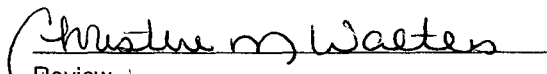
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	99.0 %
	1,4-difluorobenzene	99.0 %
	Bromochlorobenzene	99.0 %

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

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

Comments: Crouch Mesa L.F.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client: Blagg / BP
Sample ID: Cell #5
Laboratory Number: 43281
Chain of Custody: 3477
Sample Matrix: Soil
Preservative: Cool
Condition: Cool & Intact

Project #: 94034-010
Date Reported: 10-08-07
Date Sampled: 10-03-07
Date Received: 10-05-07
Date Analyzed: 10-08-07
Date Extracted: 10-05-07
Analysis Requested: BTEX

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

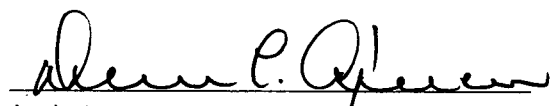
ND - Parameter not detected at the stated detection limit.

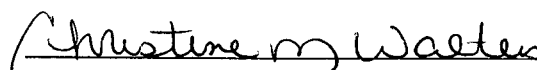
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	98.0 %
	1,4-difluorobenzene	98.0 %
	Bromochlorobenzene	98.0 %

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

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

Comments: Crouch Mesa L.F.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client: N/A
Sample ID: 10-08-BTEX QA/QC
Laboratory Number: 43279
Sample Matrix: Soil
Preservative: N/A
Condition: N/A

Project #: N/A
Date Reported: 10-08-07
Date Sampled: N/A
Date Received: N/A
Date Analyzed: 10-08-07
Analysis: BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF	C-Cal RF	%Diff	Blank Conc	Detect. Limit
		Accept Range 0 - 15%			
Benzene	1.1460E+008	1.1483E+008	0.2%	ND	0.1
Toluene	1.0057E+008	1.0077E+008	0.2%	ND	0.1
Ethylbenzene	7.6571E+007	7.6724E+007	0.2%	ND	0.1
p,m-Xylene	1.4957E+008	1.4987E+008	0.2%	ND	0.1
o-Xylene	7.0848E+007	7.0990E+007	0.2%	ND	0.1

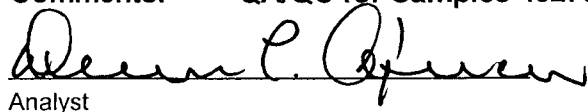
Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff	Accept Range	Detect. Limit
Benzene	ND	ND	0.0%	0 - 30%	0.9
Toluene	ND	ND	0.0%	0 - 30%	1.0
Ethylbenzene	ND	ND	0.0%	0 - 30%	1.0
p,m-Xylene	ND	ND	0.0%	0 - 30%	1.2
o-Xylene	ND	ND	0.0%	0 - 30%	0.9

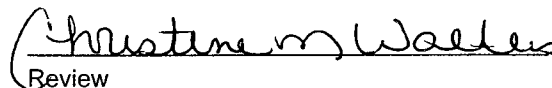
Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	50.0	49.9	99.8%	39 - 150
Toluene	ND	50.0	49.9	99.8%	46 - 148
Ethylbenzene	ND	50.0	49.9	99.8%	32 - 160
p,m-Xylene	ND	100	99.9	99.9%	46 - 148
o-Xylene	ND	50.0	49.9	99.8%	46 - 148

ND - Parameter not detected at the stated detection limit.

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

Comments: QA/QC for Samples 43279 - 43288


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

Chloride

Client:	Blagg / BP	Project #:	94034-010
Sample ID:	Cell #1	Date Reported:	10-08-07
Lab ID#:	43279	Date Sampled:	10-03-07
Sample Matrix:	Soil	Date Received:	10-05-07
Preservative:	Cool	Date Analyzed:	10-08-07
Condition:	Cool and Intact	Chain of Custody:	3477

Parameter

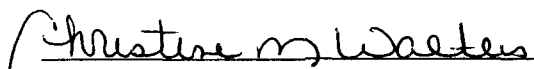
Concentration (mg/Kg)

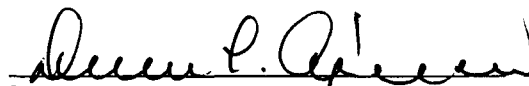
Total Chloride

46.0

Reference: Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: Crouch Mesa L.F.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

Chloride

Client: Blagg / BP
Sample ID: Cell #2
Lab ID#: 43280
Sample Matrix: Soil
Preservative: Cool
Condition: Cool and Intact

Project #: 94034-010
Date Reported: 10-08-07
Date Sampled: 10-03-07
Date Received: 10-05-07
Date Analyzed: 10-08-07
Chain of Custody: 3477

Parameter

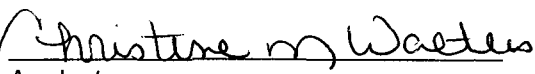
Concentration (mg/Kg)

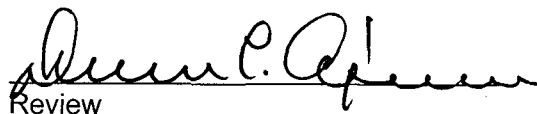
Total Chloride

66.0

Reference: Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: Crouch Mesa L.F.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

Chloride

Client: Blagg / BP
Sample ID: Cell #5
Lab ID#: 43281
Sample Matrix: Soil
Preservative: Cool
Condition: Cool and Intact

Project #: 94034-010
Date Reported: 10-08-07
Date Sampled: 10-03-07
Date Received: 10-05-07
Date Analyzed: 10-08-07
Chain of Custody: 3477

Parameter

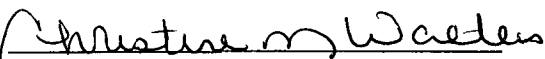
Concentration (mg/Kg)

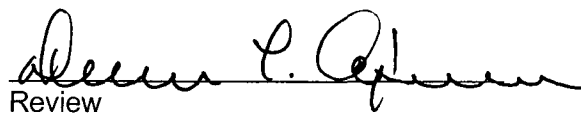
Total Chloride

64.0

Reference: Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: Crouch Mesa L.F.


Analyst


Review