

NM1-11

**Background Soil
Samples**

Date:

4Q 2001

1Q 2002

ENVIROTECH INC.

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

March 26, 2002

Mr. Denny Foust
State of New Mexico Oil Conservation Division
1000 Rio Brazos Rd
Aztec, New Mexico 87410

Dear Mr. Foust

Envirotech, Inc. respectfully submits background sampling results for Envirotech Soil Remediation Facility (ESRF), Landfarm # 2 Unit 5, Hilltop, New Mexico. Enclosed are the fourth quarter background samples for 2001 and first quarter background for 2002.

The following is a list of the cells samples all at a depth of 24"-36" below the treatment zone.

Fourth Quarter December 2001

Cells: O-12, O-18, T-18, V-13, Z-17 and EE-14

First Quarter March 2002

Cells: O-12, T-17, V-16, X-18, EE-17 and AA-15



Should you have any questions or require additional information, please do not hesitate to contact me at (505) 632-0615.

Respectfully submitted,
Envirotech, Inc.


Christine M. Walters
Laboratory Coordinator / Environmental Scientist

CMW/cmw

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METALS ANALYSIS



Client:	Envirotech, Inc.	Project #:	
Sample ID:	Cell O-12	Date Reported:	12-21-01
Laboratory Number:	21717	Date Sampled:	12-18-01
Chain of Custody:	8864	Date Received:	12-18-01
Sample Matrix:	Soil	Date Analyzed:	12-21-01
Preservative:	Cool	Date Digested:	12-21-01
Condition:	Cool & Intact	Analysis Needed:	RCRA Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	Regulatory Level (mg/Kg)
Arsenic	ND	0.001	5.0
Barium	0.855	0.001	100
Cadmium	ND	0.001	1.0
Chromium	0.160	0.001	5.0
Lead	0.191	0.001	5.0
Mercury	ND	0.001	0.2
Selenium	ND	0.001	1.0
Silver	ND	0.001	5.0

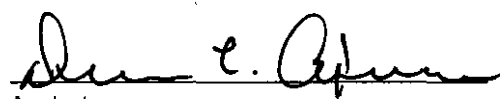
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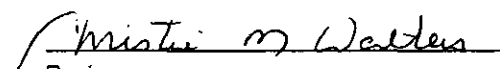
References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils.
SW-846, USEPA, December 1996.

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

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

Comments: Landfarm 2 Unit 5 Fourth Quarter Background.
24" - 36" below treatment zone.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS

Client:	Envirotech, Inc.	Project #:	91020-005
Sample ID:	Cell O-18	Date Reported:	12-21-01
Laboratory Number:	21718	Date Sampled:	12-18-01
Chain of Custody:	8864	Date Received:	12-18-01
Sample Matrix:	Soil	Date Analyzed:	12-21-01
Preservative:	Cool	Date Digested:	12-21-01
Condition:	Cool & Intact	Analysis Needed:	RCRA Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	Regulatory Level (mg/Kg)
Arsenic	0.024	0.001	5.0
Barium	8.68	0.001	100
Cadmium	0.022	0.001	1.0
Chromium	0.649	0.001	5.0
Lead	0.141	0.001	5.0
Mercury	0.003	0.001	0.2
Selenium	0.006	0.001	1.0
Silver	ND	0.001	5.0

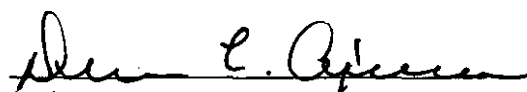
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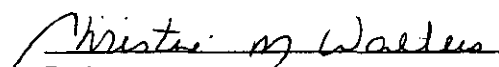
References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils.
SW-846, USEPA, December 1996.

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section 261.24, August 24, 1998.

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24" - 36" below treatment zone.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS

Client:	Envirotech, Inc.	Project #:	91020-005
Sample ID:	Cell T - 18	Date Reported:	12-21-01
Laboratory Number:	21719	Date Sampled:	12-18-01
Chain of Custody:	8864	Date Received:	12-18-01
Sample Matrix:	Soil	Date Analyzed:	12-21-01
Preservative:	Cool	Date Digested:	12-21-01
Condition:	Cool & Intact	Analysis Needed:	RCRA Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	Regulatory Level (mg/Kg)
Arsenic	ND	0.001	5.0
Barium	1.60	0.001	100
Cadmium	ND	0.001	1.0
Chromium	0.300	0.001	5.0
Lead	0.569	0.001	5.0
Mercury	ND	0.001	0.2
Selenium	ND	0.001	1.0
Silver	ND	0.001	5.0

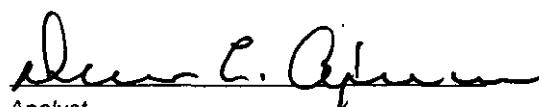
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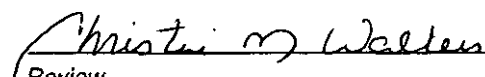
References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils.
SW-846, USEPA, December 1996.

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section 261.24, August 24, 1998.

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Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS

Client:	Envirotech, Inc.	Project #:	91020-005
Sample ID:	Cell V - 13	Date Reported:	12-21-01
Laboratory Number:	21720	Date Sampled:	12-18-01
Chain of Custody:	8864	Date Received:	12-18-01
Sample Matrix:	Soil	Date Analyzed:	12-21-01
Preservative:	Cool	Date Digested:	12-21-01
Condition:	Cool & Intact	Analysis Needed:	RCRA Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	Regulatory Level (mg/Kg)
Arsenic	ND	0.001	5.0
Barium	1.93	0.001	100
Cadmium	ND	0.001	1.0
Chromium	0.283	0.001	5.0
Lead	0.406	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.

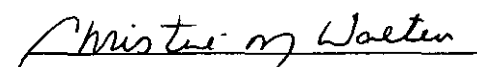
References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils.
SW-846, USEPA, December 1996.

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.

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24" - 36" below treatment zone.


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Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS

Client:	Envirotech, Inc.	Project #:	91020-005
Sample ID:	Cell Z - 17	Date Reported:	12-21-01
Laboratory Number:	21721	Date Sampled:	12-18-01
Chain of Custody:	8864	Date Received:	12-18-01
Sample Matrix:	Soil	Date Analyzed:	12-21-01
Preservative:	Cool	Date Digested:	12-21-01
Condition:	Cool & Intact	Analysis Needed:	RCRA Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	Regulatory Level (mg/Kg)
Arsenic	0.004	0.001	5.0
Barium	1.25	0.001	100
Cadmium	0.003	0.001	1.0
Chromium	0.291	0.001	5.0
Lead	0.409	0.001	5.0
Mercury	ND	0.001	0.2
Selenium	0.001	0.001	1.0
Silver	ND	0.001	5.0

ND - Parameter not detected at the stated detection limit.

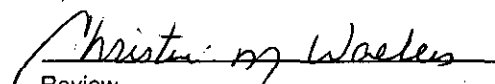
References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils.
SW-846, USEPA, December 1996.

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Spectroscopy, SW-846, USEPA, December 1996.

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS

Client:	Envirotech, Inc.	Project #:	91020-005
Sample ID:	Cell EE - 14	Date Reported:	12-21-01
Laboratory Number:	21722	Date Sampled:	12-18-01
Chain of Custody:	8864	Date Received:	12-18-01
Sample Matrix:	Soil	Date Analyzed:	12-21-01
Preservative:	Cool	Date Digested:	12-21-01
Condition:	Cool & Intact	Analysis Needed:	RCRA Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)	Regulatory Level (mg/Kg)
Arsenic	0.008	0.001	5.0
Barium	1.73	0.001	100
Cadmium	0.013	0.001	1.0
Chromium	0.496	0.001	5.0
Lead	0.851	0.001	5.0
Mercury	0.002	0.001	0.2
Selenium	0.003	0.001	1.0
Silver	ND	0.001	5.0

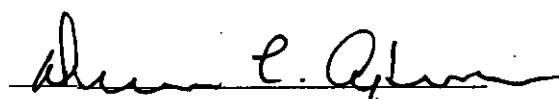
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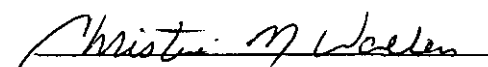
References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils.
SW-846, USEPA, December 1996.

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

Note: Regulatory Limits based on 40 CFR part 261 subpart C
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Analyst


Review

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS Quality Control / Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	12-21-TM QA/QC	Date Reported:	12-21-01
Laboratory Number:	21717	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	Total RCRA Metals	Date Analyzed:	12-21-01
Condition:	N/A	Date Digested:	12-21-01

Blank & Duplicate Conc. (mg/Kg)	Instrument Blank (mg/L)	Method Blank	Detection Limit	Sample	Duplicate	% Diff.	Acceptance Range
Arsenic	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Barium	ND	ND	0.001	0.855	0.853	0.2%	0% - 30%
Cadmium	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Chromium	ND	ND	0.001	0.160	0.158	1.3%	0% - 30%
Lead	ND	ND	0.001	0.191	0.189	1.0%	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%

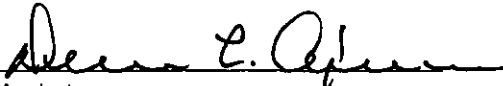
Spike Conc. (mg/Kg)	Spike Added	Sample	Spiked Sample	Percent Recovery	Acceptance Range
Arsenic	0.500	ND	0.498	99.6%	80% - 120%
Barium	0.500	0.855	1.34	98.9%	80% - 120%
Cadmium	0.500	ND	0.499	99.8%	80% - 120%
Chromium	0.500	0.160	0.657	99.5%	80% - 120%
Lead	0.500	0.191	0.688	99.6%	80% - 120%
Mercury	0.050	ND	0.049	98.0%	80% - 120%
Selenium	0.500	ND	0.497	99.4%	80% - 120%
Silver	0.500	ND	0.500	100.0%	80% - 120%

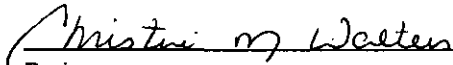
ND - Parameter not detected at the stated detection limit.

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 21717 - 21722.

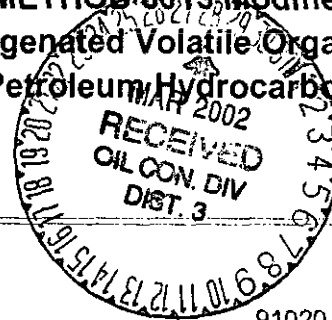

Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons



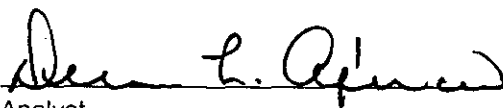
Client:	Envirotech, Inc.	Project #:	91020-005
Sample ID:	Cell O-12	Date Reported:	12-21-01
Laboratory Number:	21717	Date Sampled:	12-18-01
Chain of Custody No:	8864	Date Received:	12-18-01
Sample Matrix:	Soil	Date Extracted:	12-20-01
Preservative:	Cool	Date Analyzed:	12-20-01
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

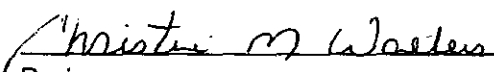
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

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: **Landfarm 2 Unit 5.**
Fourth Quarter Background 24" - 36" below treatment zone.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client:	Envirotech, Inc.	Project #:	91020-005
Sample ID:	Cell O-18	Date Reported:	12-21-01
Laboratory Number:	21718	Date Sampled:	12-18-01
Chain of Custody No:	8864	Date Received:	12-18-01
Sample Matrix:	Soil	Date Extracted:	12-20-01
Preservative:	Cool	Date Analyzed:	12-20-01
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: **Landfarm 2 Unit 5.**
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Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

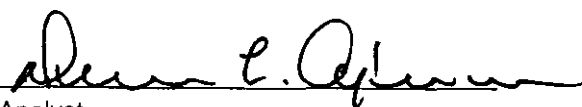
Client:	Envirotech, Inc.	Project #:	91020-005
Sample ID:	Cell T-18	Date Reported:	12-21-01
Laboratory Number:	21719	Date Sampled:	12-18-01
Chain of Custody No:	8864	Date Received:	12-18-01
Sample Matrix:	Soil	Date Extracted:	12-20-01
Preservative:	Cool	Date Analyzed:	12-20-01
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

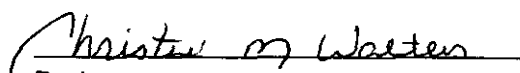
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

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.

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Fourth Quarter Background 24" - 36" below treatment zone.


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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client:	Envirotech, Inc.	Project #:	91020-005
Sample ID:	Cell V-13	Date Reported:	12-21-01
Laboratory Number:	21720	Date Sampled:	12-18-01
Chain of Custody No:	8864	Date Received:	12-18-01
Sample Matrix:	Soil	Date Extracted:	12-20-01
Preservative:	Cool	Date Analyzed:	12-20-01
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.

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Comments: Landfarm 2 Unit 5.
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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client:	Envirotech, Inc.	Project #:	91020-005
Sample ID:	Cell Z-17	Date Reported:	12-21-01
Laboratory Number:	21721	Date Sampled:	12-18-01
Chain of Custody No:	8864	Date Received:	12-18-01
Sample Matrix:	Soil	Date Extracted:	12-20-01
Preservative:	Cool	Date Analyzed:	12-20-01
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

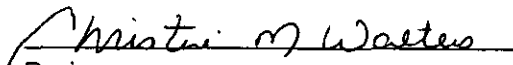
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

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.

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EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

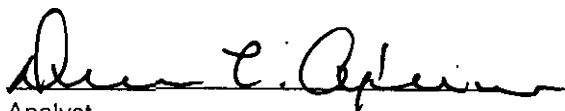
Client:	Envirotech, Inc.	Project #:	91020-005
Sample ID:	Cell EE-14	Date Reported:	12-21-01
Laboratory Number:	21722	Date Sampled:	12-18-01
Chain of Custody No:	8864	Date Received:	12-18-01
Sample Matrix:	Soil	Date Extracted:	12-20-01
Preservative:	Cool	Date Analyzed:	12-20-01
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

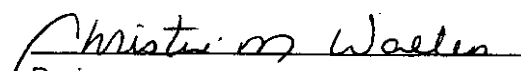
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

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: **Landfarm 2 Unit 5.**
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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	12-20-TPH QA/QC	Date Reported:	12-21-01
Laboratory Number:	21717	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	12-20-01
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF	C-Cal RF	% Difference	Accept Range
Gasoline Range C5 - C10	08-22-01	1.2571E-002	1.2559E-002	0.10%	0 - 15%
Diesel Range C10 - C28	08-22-01	8.3733E-003	8.3565E-003	0.20%	0 - 15%

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

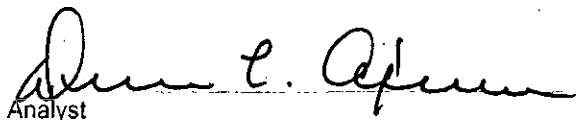
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept Range
Gasoline Range C5 - C10	ND	ND	0.0%	0 - 30%
Diesel Range C10 - C28	ND	ND	0.0%	0 - 30%

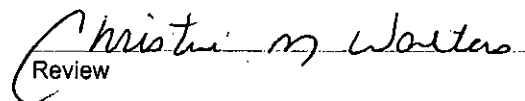
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept Range
Gasoline Range C5 - C10	ND	250	250	100.0%	75 - 125%
Diesel Range C10 - C28	ND	250	250	100.0%	75 - 125%

ND - Parameter not detected at the stated detection limit.

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

Comments: QA/QC for samples 21717 - 21722.


Analyst


Review

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

RECEIVED
OIL CON. DIV
DIST. 3
91020-005
12-21-01

Project #: 91020-005
Date Reported: 12-21-01
Date Sampled: 12-18-01
Date Received: 12-18-01
Date Analyzed: 12-20-01
Date Extracted: 12-20-01
Analysis Requested: BTEX

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

Comments: Landfarm 2 Unit 5.
Fourth Quarter Background 24" - 36" below treatment zone.

Christen M. Walters
Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Envirotech, Inc.	Project #:	91020-005
Sample ID:	Cell O-18	Date Reported:	12-21-01
Laboratory Number:	21718	Date Sampled:	12-18-01
Chain of Custody:	8864	Date Received:	12-18-01
Sample Matrix:	Soil	Date Analyzed:	12-20-01
Preservative:	Cool	Date Extracted:	12-20-01
Condition:	Cool & Intact	Analysis Requested:	BTEX

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

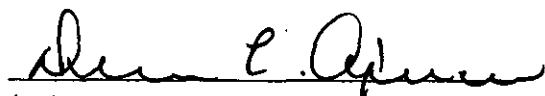
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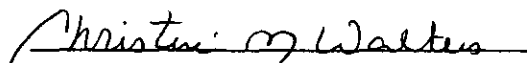
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	98 %
	1,4-difluorobenzene	98 %
	Bromochlorobenzene	98 %

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

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

Comments: Landfarm 2 Unit 5.
Fourth Quarter Background 24" - 36" below treatment zone.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Envirotech, Inc.	Project #:	91020-005
Sample ID:	Cell T-18	Date Reported:	12-21-01
Laboratory Number:	21719	Date Sampled:	12-18-01
Chain of Custody:	8864	Date Received:	12-18-01
Sample Matrix:	Soil	Date Analyzed:	12-20-01
Preservative:	Cool	Date Extracted:	12-20-01
Condition:	Cool & Intact	Analysis Requested:	BTEX

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

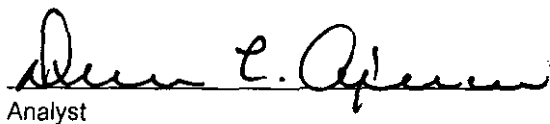
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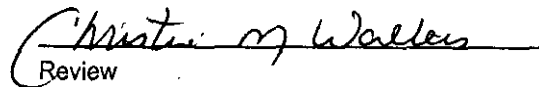
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	98 %
	1,4-difluorobenzene	98 %
	Bromochlorobenzene	98 %

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

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

Comments: Landfarm 2 Unit 5.
Fourth Quarter Background 24" - 36" below treatment zone.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Envirotech, Inc.	Project #:	91020-005
Sample ID:	Cell V-13	Date Reported:	12-21-01
Laboratory Number:	21720	Date Sampled:	12-18-01
Chain of Custody:	8864	Date Received:	12-18-01
Sample Matrix:	Soil	Date Analyzed:	12-20-01
Preservative:	Cool	Date Extracted:	12-20-01
Condition:	Cool & Intact	Analysis Requested:	BTEX

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

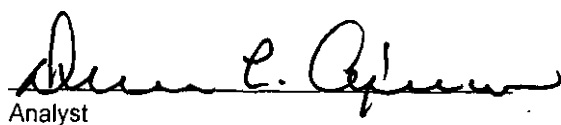
ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	98 %
	1,4-difluorobenzene	98 %
	Bromochlorobenzene	98 %

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

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

Comments: Landfarm 2 Unit 5.
Fourth Quarter Background 24" - 36" below treatment zone.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Envirotech, Inc.	Project #:	91020-005
Sample ID:	Cell Z-17	Date Reported:	12-21-01
Laboratory Number:	21721	Date Sampled:	12-18-01
Chain of Custody:	8864	Date Received:	12-18-01
Sample Matrix:	Soil	Date Analyzed:	12-20-01
Preservative:	Cool	Date Extracted:	12-20-01
Condition:	Cool & Intact	Analysis Requested:	BTEX

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

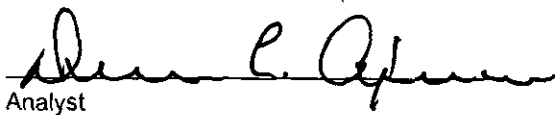
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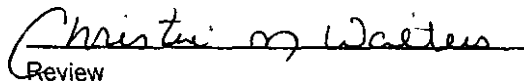
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	98 %
	1,4-difluorobenzene	98 %
	Bromochlorobenzene	98 %

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

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

Comments: Landfarm 2 Unit 5.
Fourth Quarter Background 24" - 36" below treatment zone.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Envirotech, Inc.	Project #:	91020-005
Sample ID:	Cell EE-14	Date Reported:	12-21-01
Laboratory Number:	21722	Date Sampled:	12-18-01
Chain of Custody:	8864	Date Received:	12-18-01
Sample Matrix:	Soil	Date Analyzed:	12-20-01
Preservative:	Cool	Date Extracted:	12-20-01
Condition:	Cool & Intact	Analysis Requested:	BTEX

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

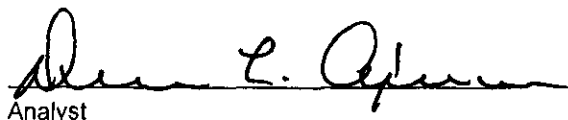
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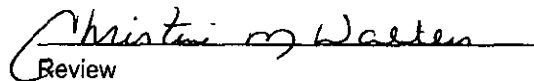
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	98 %
	1,4-difluorobenzene	98 %
	Bromochlorobenzene	98 %

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

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

Comments: Landfarm 2 Unit 5.
Fourth Quarter Background 24" - 36" below treatment zone.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	12-20-BTEX QA/QC	Date Reported:	12-21-01
Laboratory Number:	21717	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	12-20-01
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	1.7143E-001	1.7195E-001	0.3%	ND	0.2
Toluene	9.4693E-002	9.4883E-002	0.2%	ND	0.2
Ethylbenzene	1.2284E-001	1.2321E-001	0.3%	ND	0.2
p,m-Xylene	1.0810E-001	1.0843E-001	0.3%	ND	0.2
o-Xylene	9.2106E-002	9.2290E-002	0.2%	ND	0.1

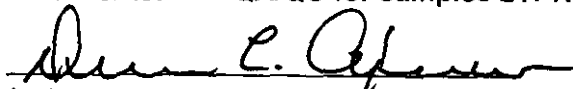
Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff	Accept Range	Detect. Limit
Benzene	ND	ND	0.0%	0 - 30%	1.8
Toluene	ND	ND	0.0%	0 - 30%	1.7
Ethylbenzene	ND	ND	0.0%	0 - 30%	1.5
p,m-Xylene	ND	ND	0.0%	0 - 30%	2.2
o-Xylene	ND	ND	0.0%	0 - 30%	1.0

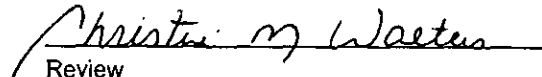
Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	50.0	49.9	99.8%	39 - 150
Toluene	ND	50.0	49.8	99.6%	46 - 148
Ethylbenzene	ND	50.0	49.8	99.6%	32 - 160
p,m-Xylene	ND	100	99.9	99.9%	46 - 148
o-Xylene	ND	50.0	49.9	99.8%	46 - 148

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 21717 - 21722.

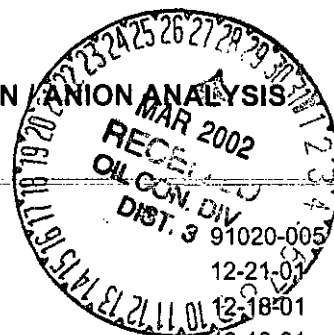

Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS



Client: Envirotech, Inc.
Sample ID: Cell O-12
Laboratory Number: 21717
Chain of Custody: 8864
Sample Matrix: Soil Extract
Preservative: Cool
Condition: Cool & Intact

Project #:
Date Reported: 12-21-01
Date Sampled: 12-18-01
Date Received: 12-18-01
Date Extracted: 12-19-01
Date Analyzed: 12-20-01

Parameter	Analytical Result	Units	Units
pH	8.70	s.u.	
Conductivity @ 25° C	33.2	umhos/cm	
Total Dissolved Solids @ 180C	24.0	mg/L	
Total Dissolved Solids (Calc)	23.3	mg/L	
SAR	1.0	ratio	
Total Alkalinity as CaCO3	14.0	mg/L	
Total Hardness as CaCO3	6.0	mg/L	
Bicarbonate as HCO3	14.0	mg/L	0.23 meq/L
Carbonate as CO3	<0.1	mg/L	0.00 meq/L
Hydroxide as OH	<0.1	mg/L	0.00 meq/L
Nitrate Nitrogen	0.4	mg/L	0.01 meq/L
Nitrite Nitrogen	0.004	mg/L	0.00 meq/L
Chloride	1.2	mg/L	0.03 meq/L
Fluoride	0.10	mg/L	0.01 meq/L
Phosphate	3.9	mg/L	0.12 meq/L
Sulfate	<0.1	mg/L	0.00 meq/L
Iron	0.002	mg/L	
Calcium	2.4	mg/L	0.12 meq/L
Magnesium	<0.01	mg/L	0.00 meq/L
Potassium	0.9	mg/L	0.02 meq/L
Sodium	5.9	mg/L	0.26 meq/L
Cations			0.40 meq/L
Anions			0.40 meq/L
Cation/Anion Difference			0.28%

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

Comments: Landfarm 2 Unit 5 Fourth Quarter Background.
24" - 36" below treatment zone.

Mister M. Walter
Analyst

Don E. O'Brien
Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

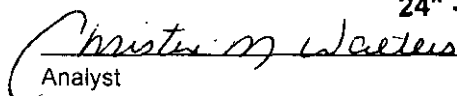
CATION / ANION ANALYSIS

Client:	Envirotech, Inc.	Project #:	91020-005
Sample ID:	Cell O-18	Date Reported:	12-21-01
Laboratory Number:	21718	Date Sampled:	12-18-01
Chain of Custody:	8864	Date Received:	12-18-01
Sample Matrix:	Soil Extract	Date Extracted:	12-19-01
Preservative:	Cool	Date Analyzed:	12-20-01
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		Units
pH	8.37	s.u.		
Conductivity @ 25° C	131	umhos/cm		
Total Dissolved Solids @ 180C	60.2	mg/L		
Total Dissolved Solids (Calc)	56.4	mg/L		
SAR	0.7	ratio		
Total Alkalinity as CaCO3	17.5	mg/L		
Total Hardness as CaCO3	31.0	mg/L		
Bicarbonate as HCO3	17.5	mg/L	0.29	meq/L
Carbonate as CO3	<0.1	mg/L	0.00	meq/L
Hydroxide as OH	<0.1	mg/L	0.00	meq/L
Nitrate Nitrogen	0.6	mg/L	0.01	meq/L
Nitrite Nitrogen	0.010	mg/L	0.00	meq/L
Chloride	24.0	mg/L	0.68	meq/L
Fluoride	0.08	mg/L	0.00	meq/L
Phosphate	0.7	mg/L	0.02	meq/L
Sulfate	<0.1	mg/L	0.00	meq/L
Iron	<0.001	mg/L		
Calcium	10.4	mg/L	0.52	meq/L
Magnesium	1.22	mg/L	0.10	meq/L
Potassium	0.2	mg/L	0.01	meq/L
Sodium	8.6	mg/L	0.37	meq/L
Cations			1.00	meq/L
Anions			1.00	meq/L
Cation/Anion Difference			0.15%	

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

Comments: Landfarm 2 Unit 5 Fourth Quarter Background.
24" - 36" below treatment zone.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

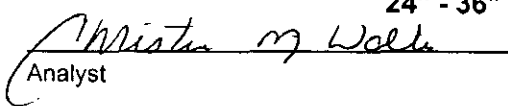
Client: Envirotech, Inc.
Sample ID: Cell T-18
Laboratory Number: 21719
Chain of Custody: 8864
Sample Matrix: Soil Extract
Preservative: Cool
Condition: Cool & Intact

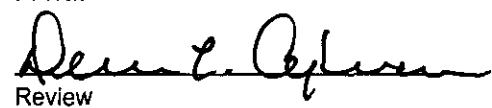
Project #: 91020-005
Date Reported: 12-21-01
Date Sampled: 12-18-01
Date Received: 12-18-01
Date Extracted: 12-19-01
Date Analyzed: 12-20-01

Parameter	Analytical Result	Units		Units
pH	8.68	s.u.		
Conductivity @ 25° C	98.0	umhos/cm		
Total Dissolved Solids @ 180C	50.0	mg/L		
Total Dissolved Solids (Calc)	49.3	mg/L		
SAR	1.8	ratio		
Total Alkalinity as CaCO3	16.0	mg/L		
Total Hardness as CaCO3	11.0	mg/L		
Bicarbonate as HCO3	16.0	mg/L	0.26	meq/L
Carbonate as CO3	<0.1	mg/L	0.00	meq/L
Hydroxide as OH	<0.1	mg/L	0.00	meq/L
Nitrate Nitrogen	0.7	mg/L	0.01	meq/L
Nitrite Nitrogen	0.007	mg/L	0.00	meq/L
Chloride	17.4	mg/L	0.49	meq/L
Fluoride	0.03	mg/L	0.00	meq/L
Phosphate	2.4	mg/L	0.08	meq/L
Sulfate	<0.1	mg/L	0.00	meq/L
Iron	0.018	mg/L		
Calcium	4.4	mg/L	0.22	meq/L
Magnesium	<0.01	mg/L	0.00	meq/L
Potassium	0.9	mg/L	0.02	meq/L
Sodium	13.8	mg/L	0.60	meq/L
Cations			0.84	meq/L
Anions			0.84	meq/L
Cation/Anion Difference			0.11%	

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

Comments: Landfarm 2 Unit 5 Fourth Quarter Background.
24" - 36" below treatment zone.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

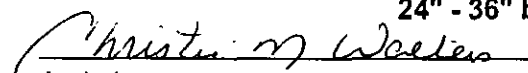
CATION / ANION ANALYSIS

Client:	Envirotech, Inc.	Project #:	91020-005
Sample ID:	Cell V-13	Date Reported:	12-21-01
Laboratory Number:	21720	Date Sampled:	12-18-01
Chain of Custody:	8864	Date Received:	12-18-01
Sample Matrix:	Soil Extract	Date Extracted:	12-19-01
Preservative:	Cool	Date Analyzed:	12-20-01
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		Units
pH	8.90	s.u.		
Conductivity @ 25° C	33.5	umhos/cm		
Total Dissolved Solids @ 180C	17.2	mg/L		
Total Dissolved Solids (Calc)	17.4	mg/L		
SAR	0.2	ratio		
Total Alkalinity as CaCO3	15.5	mg/L		
Total Hardness as CaCO3	10.5	mg/L		
Bicarbonate as HCO3	15.5	mg/L	0.25	meq/L
Carbonate as CO3	<0.1	mg/L	0.00	meq/L
Hydroxide as OH	<0.1	mg/L	0.00	meq/L
Nitrate Nitrogen	0.4	mg/L	0.01	meq/L
Nitrite Nitrogen	0.004	mg/L	0.00	meq/L
Chloride	0.2	mg/L	0.01	meq/L
Fluoride	<0.01	mg/L	0.00	meq/L
Phosphate	1.0	mg/L	0.03	meq/L
Sulfate	<0.1	mg/L	0.00	meq/L
Iron	<0.001	mg/L		
Calcium	4.2	mg/L	0.21	meq/L
Magnesium	<0.01	mg/L	0.00	meq/L
Potassium	0.4	mg/L	0.01	meq/L
Sodium	1.8	mg/L	0.08	meq/L
Cations			0.30	meq/L
Anions			0.30	meq/L
Cation/Anion Difference			0.10%	

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

Comments: Landfarm 2 Unit 5 Fourth Quarter Background.
24" - 36" below treatment zone.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

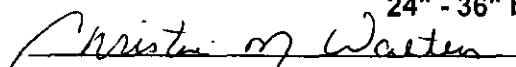
Client: Envirotech, Inc.
Sample ID: Cell Z-17
Laboratory Number: 21721
Chain of Custody: 8864
Sample Matrix: Soil Extract
Preservative: Cool
Condition: Cool & Intact

Project #: 91020-005
Date Reported: 12-21-01
Date Sampled: 12-18-01
Date Received: 12-18-01
Date Extracted: 12-19-01
Date Analyzed: 12-20-01

Parameter	Analytical Result	Units	Units
pH	8.91	s.u.	
Conductivity @ 25° C	27.2	umhos/cm	
Total Dissolved Solids @ 180C	14.8	mg/L	
Total Dissolved Solids (Calc)	19.2	mg/L	
SAR	0.4	ratio	
Total Alkalinity as CaCO3	17.5	mg/L	
Total Hardness as CaCO3	10.5	mg/L	
Bicarbonate as HCO3	17.5	mg/L	0.29 meq/L
Carbonate as CO3	<0.1	mg/L	0.00 meq/L
Hydroxide as OH	<0.1	mg/L	0.00 meq/L
Nitrate Nitrogen	0.3	mg/L	0.00 meq/L
Nitrite Nitrogen	0.001	mg/L	0.00 meq/L
Chloride	<0.1	mg/L	0.00 meq/L
Fluoride	0.36	mg/L	0.02 meq/L
Phosphate	0.8	mg/L	0.03 meq/L
Sulfate	<0.1	mg/L	0.00 meq/L
Iron	<0.001	mg/L	
Calcium	4.2	mg/L	0.21 meq/L
Magnesium	<0.01	mg/L	0.00 meq/L
Potassium	<0.1	mg/L	0.00 meq/L
Sodium	2.9	mg/L	0.13 meq/L
Cations			0.34 meq/L
Anions			0.34 meq/L
Cation/Anion Difference			0.05%

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

Comments: Landfarm 2 Unit 5 Fourth Quarter Background.
24" - 36" below treatment zone.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

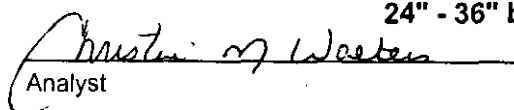
Client: Envirotech, Inc.
Sample ID: Cell EE-14
Laboratory Number: 21722
Chain of Custody: 8864
Sample Matrix: Soil Extract
Preservative: Cool
Condition: Cool & Intact

Project #: 91020-005
Date Reported: 12-21-01
Date Sampled: 12-18-01
Date Received: 12-18-01
Date Extracted: 12-19-01
Date Analyzed: 12-20-01

Parameter	Analytical Result	Units		Units
pH	8.85	s.u.		
Conductivity @ 25° C	51.7	umhos/cm		
Total Dissolved Solids @ 180C	25.6	mg/L		
Total Dissolved Solids (Calc)	22.1	mg/L		
SAR	0.3	ratio		
Total Alkalinity as CaCO ₃	17.5	mg/L		
Total Hardness as CaCO ₃	13.5	mg/L		
Bicarbonate as HCO ₃	17.5	mg/L	0.29	meq/L
Carbonate as CO ₃	<0.1	mg/L	0.00	meq/L
Hydroxide as OH	<0.1	mg/L	0.00	meq/L
Nitrate Nitrogen	0.6	mg/L	0.01	meq/L
Nitrite Nitrogen	0.002	mg/L	0.00	meq/L
Chloride	1.0	mg/L	0.03	meq/L
Fluoride	0.33	mg/L	0.02	meq/L
Phosphate	1.4	mg/L	0.04	meq/L
Sulfate	<0.1	mg/L	0.00	meq/L
Iron	0.008	mg/L		
Calcium	5.4	mg/L	0.27	meq/L
Magnesium	<0.01	mg/L	0.00	meq/L
Potassium	<0.1	mg/L	0.00	meq/L
Sodium	2.7	mg/L	0.12	meq/L
Cations			0.39	meq/L
Anions			0.39	meq/L
Cation/Anion Difference			0.14%	

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

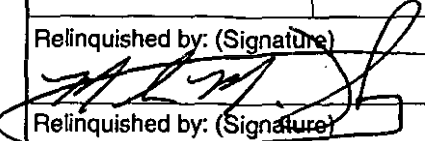
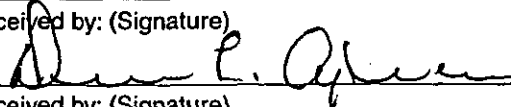
Comments: Landfarm 2 Unit 5 Fourth Quarter Background.
24" - 36" below treatment zone.


Analyst


Review

CHAIN OF CUSTODY RECORD

08864

Client / Project Name Envirotech Inc			Project Location Landform 2 Unit 5		ANALYSIS / PARAMETERS								
Sampler:			Client No. 91020--005		No. of Containers	RCRA metals	8015 TPH	BTEX	Cation/Anion			Remarks	
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix								24"-36"	
Cell 0-12	12-18-01	1015	21717	Soil	2	✓	✓	✓	✓			below treatment zone	
0-18	↓	1030	21718	↓	2	✓	✓	✓	✓				
T-18	↓	1100	21719		2	✓	✓	✓	✓			Fourth Quarter	
V-13	↓	1120	21720		2	✓	✓	✓	✓			Background	
Z-17	↓	1130	21721		2	✓	✓	✓	✓				
EE-14	↓	1150	21722	↓	2	✓	✓	✓	✓				
Relinquished by: (Signature) 			Date 12/18/01	Time 1545	Received by: (Signature) 			Date 12-18-01	Time 1545				
Relinquished by: (Signature)					Received by: (Signature)								
Relinquished by: (Signature)					Received by: (Signature)								
ENVIROTECH INC. 5796 U.S. Highway 64 Farmington, New Mexico 87401 (505) 632-0615										Sample Receipt			
											Y	N	N/A
										Received Intact	✓		
										Cool - Ice/Blue Ice	✓		

ENVIROTECH LABS

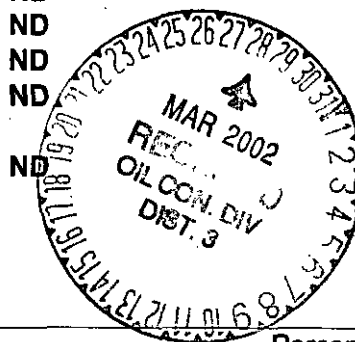
PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Envirotech	Project #:	91020-005
Sample ID:	Cell O 12	Date Reported:	03-14-02
Laboratory Number:	22234	Date Sampled:	03-11-02
Chain of Custody:	9843	Date Received:	03-11-02
Sample Matrix:	Soil	Date Analyzed:	03-14-02
Preservative:	Cool	Date Extracted:	03-12-02
Condition:	Cool & Intact	Analysis Requested:	BTEX

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

ND - Parameter not detected at the stated detection limit.



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

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

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

Comments: Landfarm 2 - 5, Hilltop, NM.
First Quarter 2002 Background Sample 24" - 36" Below Treatment Zone.

Deena L. Cepner
Analyst

Christina M. Walters
Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Envirotech	Project #:	91020-005
Sample ID:	Cell T 17	Date Reported:	03-14-02
Laboratory Number:	22235	Date Sampled:	03-11-02
Chain of Custody:	9843	Date Received:	03-11-02
Sample Matrix:	Soil	Date Analyzed:	03-14-02
Preservative:	Cool	Date Extracted:	03-12-02
Condition:	Cool & Intact	Analysis Requested:	BTEX

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

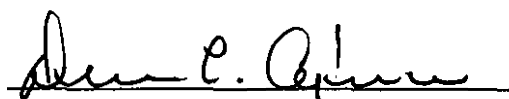
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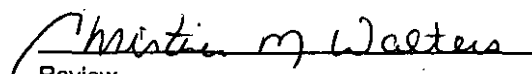
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	94 %
	1,4-difluorobenzene	94 %
	Bromochlorobenzene	94 %

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

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

Comments: Landfarm 2 - 5, Hilltop, NM.
First Quarter 2002 Background Sample 24" - 36" Below Treatment Zone.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Envirotech	Project #:	91020-005
Sample ID:	Cell V 16	Date Reported:	03-14-02
Laboratory Number:	22236	Date Sampled:	03-11-02
Chain of Custody:	9843	Date Received:	03-11-02
Sample Matrix:	Soil	Date Analyzed:	03-14-02
Preservative:	Cool	Date Extracted:	03-12-02
Condition:	Cool & Intact	Analysis Requested:	BTEX

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

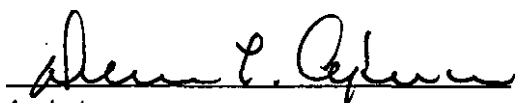
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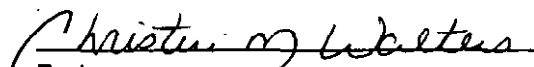
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	94 %
	1,4-difluorobenzene	94 %
	Bromochlorobenzene	94 %

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

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

Comments: Landfarm 2 - 5, Hilltop, NM.
First Quarter 2002 Background Sample 24" - 36" Below Treatment Zone.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Envirotech	Project #:	91020-005
Sample ID:	Cell X 18	Date Reported:	03-14-02
Laboratory Number:	22237	Date Sampled:	03-11-02
Chain of Custody:	9843	Date Received:	03-11-02
Sample Matrix:	Soil	Date Analyzed:	03-14-02
Preservative:	Cool	Date Extracted:	03-12-02
Condition:	Cool & Intact	Analysis Requested:	BTEX

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

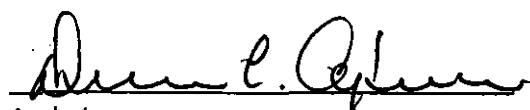
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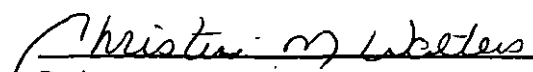
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	94 %
	1,4-difluorobenzene	94 %
	Bromochlorobenzene	94 %

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

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

Comments: Landfarm 2 - 5, Hilltop, NM.
First Quarter 2002 Background Sample 24" - 36" Below Treatment Zone.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Envirotech	Project #:	91020-005
Sample ID:	Cell EE 17	Date Reported:	03-14-02
Laboratory Number:	22238	Date Sampled:	03-11-02
Chain of Custody:	9843	Date Received:	03-11-02
Sample Matrix:	Soil	Date Analyzed:	03-14-02
Preservative:	Cool	Date Extracted:	03-12-02
Condition:	Cool & Intact	Analysis Requested:	BTEX

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

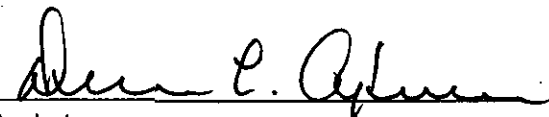
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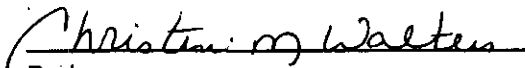
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	94 %
	1,4-difluorobenzene	94 %
	Bromochlorobenzene	94 %

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

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

Comments: Landfarm 2 - 5, Hilltop, NM.
First Quarter 2002 Background Sample 24" - 36" Below Treatment Zone.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Envirotech	Project #:	91020-005
Sample ID:	Cell AA 15	Date Reported:	03-14-02
Laboratory Number:	22239	Date Sampled:	03-11-02
Chain of Custody:	9843	Date Received:	03-11-02
Sample Matrix:	Soil	Date Analyzed:	03-14-02
Preservative:	Cool	Date Extracted:	03-12-02
Condition:	Cool & Intact	Analysis Requested:	BTEX

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

ND - Parameter not detected at the stated detection limit.

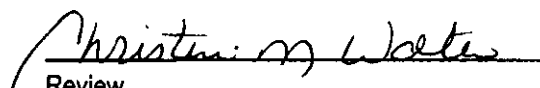
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	94 %
	1,4-difluorobenzene	94 %
	Bromochlorobenzene	94 %

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

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

Comments: Landfarm 2 - 5, Hilltop, NM.
First Quarter 2002 Background Sample 24" - 36" Below Treatment Zone.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	03-14-BTEX QA/QC	Date Reported:	03-14-02
Laboratory Number:	22234	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	03-14-02
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	10 ug RE	100 ug RE	% Diff	Blank Conc	Detect Limit
	Accept Range		5%		
Benzene	6.9839E-002	7.0049E-002	0.3%	ND	0.2
Toluene	5.0724E-002	5.0825E-002	0.2%	ND	0.2
Ethylbenzene	8.2086E-002	8.2333E-002	0.3%	ND	0.2
p,m-Xylene	7.1064E-002	7.1278E-002	0.3%	ND	0.2
o-Xylene	6.2661E-002	6.2787E-002	0.2%	ND	0.1

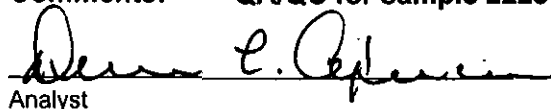
Duplicate Conc. (ug/Kg)	Sample	Duplicate	% Diff	Accept Range	Detect Limit
Benzene	ND	ND	0.0%	0 - 30%	1.8
Toluene	ND	ND	0.0%	0 - 30%	1.7
Ethylbenzene	ND	ND	0.0%	0 - 30%	1.5
p,m-Xylene	ND	ND	0.0%	0 - 30%	2.2
o-Xylene	ND	ND	0.0%	0 - 30%	1.0

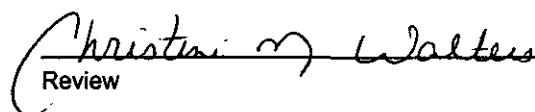
Spike Conc. (ug/kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	50.0	49.8	99.6%	39 - 150
Toluene	ND	50.0	49.8	99.6%	46 - 148
Ethylbenzene	ND	50.0	49.8	99.6%	32 - 160
p,m-Xylene	ND	100	99.5	99.5%	46 - 148
o-Xylene	ND	50.0	49.8	99.6%	46 - 148

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 sample 22234 - 22239, 22253 and 22272.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

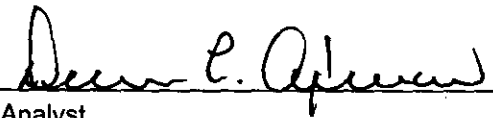
Client:	Envirotech	Project #:	91020-005
Sample ID:	Cell O 12	Date Reported:	03-14-02
Laboratory Number:	22234	Date Sampled:	03-11-02
Chain of Custody No:	9843	Date Received:	03-11-02
Sample Matrix:	Soil	Date Extracted:	03-12-02
Preservative:	Cool	Date Analyzed:	03-14-02
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

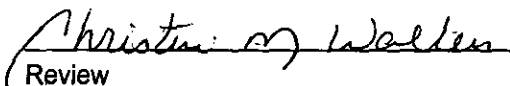
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

ND - Parameter not detected at the stated detection limit.

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

Comments: Landfarm 2 - 5, Hilltop, NM.
First Quarter 2002 Background Sample 24" - 36" Below Treatment Zone.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

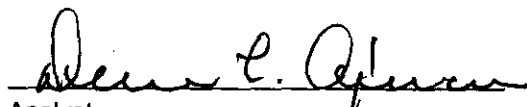
Client:	Envirotech	Project #:	91020-005
Sample ID:	Cell T 17	Date Reported:	03-14-02
Laboratory Number:	22235	Date Sampled:	03-11-02
Chain of Custody No:	9843	Date Received:	03-11-02
Sample Matrix:	Soil	Date Extracted:	03-12-02
Preservative:	Cool	Date Analyzed:	03-14-02
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

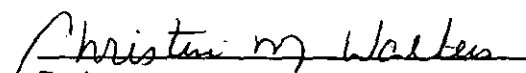
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

ND - Parameter not detected at the stated detection limit.

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

Comments: **Landfarm 2 - 5, Hilltop, NM.**
First Quarter 2002 Background Sample 24" - 36" Below Treatment Zone.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

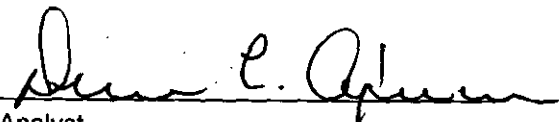
Client:	Envirotech	Project #:	91020-005
Sample ID:	Cell V 16	Date Reported:	03-14-02
Laboratory Number:	22236	Date Sampled:	03-11-02
Chain of Custody No:	9843	Date Received:	03-11-02
Sample Matrix:	Soil	Date Extracted:	03-12-02
Preservative:	Cool	Date Analyzed:	03-14-02
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

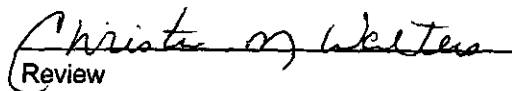
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

ND - Parameter not detected at the stated detection limit.

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

Comments: Landfarm 2 - 5, Hilltop, NM.
First Quarter 2002 Background Sample 24" - 36" Below Treatment Zone.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

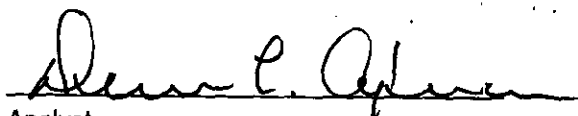
Client:	Envirotech	Project #:	91020-005
Sample ID:	Cell X 18	Date Reported:	03-14-02
Laboratory Number:	22237	Date Sampled:	03-11-02
Chain of Custody No:	9843	Date Received:	03-11-02
Sample Matrix:	Soil	Date Extracted:	03-12-02
Preservative:	Cool	Date Analyzed:	03-14-02
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

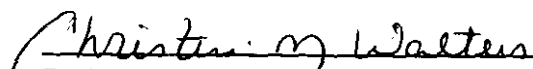
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

ND - Parameter not detected at the stated detection limit.

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

Comments: Landfarm 2 - 5, Hilltop, NM.
First Quarter 2002 Background Sample 24" - 36" Below Treatment Zone.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

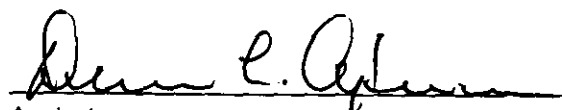
Client:	Envirotech	Project #:	91020-005
Sample ID:	Cell EE 17	Date Reported:	03-14-02
Laboratory Number:	22238	Date Sampled:	03-11-02
Chain of Custody No:	9843	Date Received:	03-11-02
Sample Matrix:	Soil	Date Extracted:	03-12-02
Preservative:	Cool	Date Analyzed:	03-14-02
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

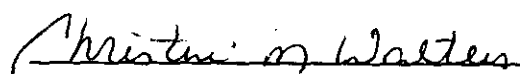
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

ND - Parameter not detected at the stated detection limit.

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

Comments: Landfarm 2 - 5, Hilltop, NM.
First Quarter 2002 Background Sample 24" - 36" Below Treatment Zone.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

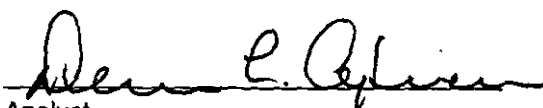
Client:	Envirotech	Project #:	91020-005
Sample ID:	Cell AA 15	Date Reported:	03-14-02
Laboratory Number:	22239	Date Sampled:	03-11-02
Chain of Custody No:	9843	Date Received:	03-11-02
Sample Matrix:	Soil	Date Extracted:	03-12-02
Preservative:	Cool	Date Analyzed:	03-14-02
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

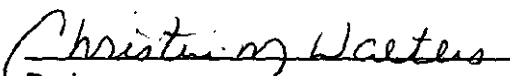
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

ND - Parameter not detected at the stated detection limit.

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

Comments: **Landfarm 2 - 5, Hilltop, NM.**
First Quarter 2002 Background Sample 24" - 36" Below Treatment Zone.


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:	03-14-TPH QA/QC	Date Reported:	03-14-02
Laboratory Number:	22234	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	03-14-02
Condition:	N/A	Analysis Requested:	TPH

Sample	Date	Conc. (mg/L)	Conc. (mg/Kg)	Recovery	Accept. Range
Gasoline Range C5 - C10	01-07-02	2.5028E-002	2.5003E-002	0.10%	0 - 15%
Diesel Range C10 - C28	01-07-02	1.2696E-002	1.2671E-002	0.20%	0 - 15%

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

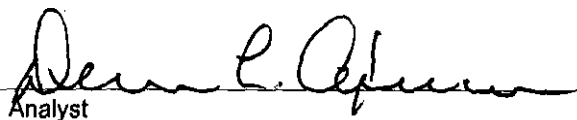
Duplicate Conc. (mg/Kg)	Sample	Duplicate	Difference	Accept. Range
Gasoline Range C5 - C10	ND	ND	0.0%	0 - 30%
Diesel Range C10 - C28	ND	ND	0.0%	0 - 30%

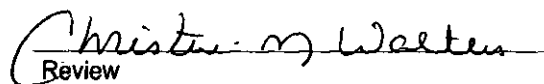
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	Recovery	Accept. Range
Gasoline Range C5 - C10	ND	250	250	100.0%	75 - 125%
Diesel Range C10 - C28	ND	250	250	100.0%	75 - 125%

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.

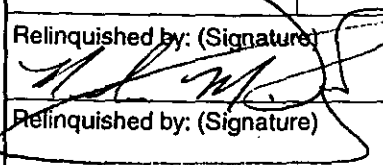
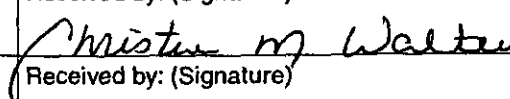
Comments: QA/QC for samples 22234 -22239, 22253 and 22272.


Analyst


Review

CHAIN OF CUSTODY RECORD

09843

Client / Project Name ENVIROTECH			Project Location H. 1/100, NU LAND FARM 2 - 5		ANALYSIS / PARAMETERS									
Sampler: KPK, MMH			Client No. 91020-005		No. of Containers	TPH / BTEX	PCRA						Remarks	
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix									First Quarter 200	
Cell 012	03/11/02	1340	22234	Soil	2	✓	✓						Background	
Cell T17		1410	22235	Soil	2	✓	✓						Samples 24"-36"	
Cell V16		1420	22236	Soil	2	✓	✓						Below treatment	
Cell X18		1445	22237	Soil	2	✓	✓						Zone	
Cell EE17		1515	22238	Soil	2	✓	✓							
Cell AA15		1530	22239	Soil	2	✓	✓							
Relinquished by: (Signature) 			Date 03/11/02	Time 1640	Received by: (Signature) 			Date 3-11-02	Time 16:40					
Relinquished by: (Signature)					Received by: (Signature)									
Relinquished by: (Signature)					Received by: (Signature)									

ENVIROTECH INC.

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

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