

**NM1-11**

**C-138**

**Date: 1992**

# ENVIROTECH INC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

5796 U.S. HIGHWAY 64 - 3014  
FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615

December 10, 1992

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

Re: Tom Growney Equipment, Inc.  
Contaminated Soil  
TCLP Analysis

Project 92158

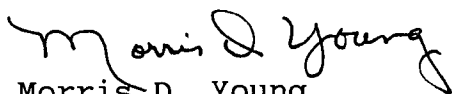
Dear Mr. Foust,

Envirotech Inc. requests authorization to receive soil from the excavation of the Used Oil UST from the Tom Growney Equipment Site, located at 1100 Troy King Road, Farmington, New Mexico.

The spill reportedly consisted of used motor oil. Therefore we have had a TCLP analysis completed, without the pesticides and herbicides, on the contaminated soil removed from the spill site.

The attached laboratory analysis show that the concentration of the TCLP target constituents are all below the RCRA regulatory levels for hazardous waste. Therefore the contaminated soils are classified as non-hazardous per RCRA (40CFR 261).

Respectfully submitted,  
Envirotech Inc.

  
Morris D. Young  
President

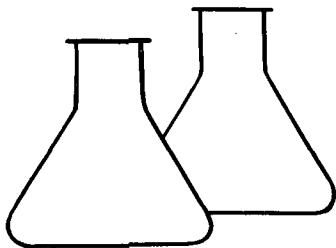
**RECEIVED**  
DEC 14 1992  
OIL CON. DIV.  
DIST. 3

cc: Mr. Pat Hanon, Tom Growney Equipment Inc.

Attachments: Laboratory Results  
Chain-of-Custody

MDY/cj163

OK  
Dec. 14  
1992  
LJ



# ENVIROTECH ABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client: Tom Growney Equip.  
Sample ID: #2  
Laboratory Number: 0760  
Sample Matrix: Soil  
Preservative: Cool  
Condition: Cool & Intact

Project #: 92158  
Date Reported: 06-24-92  
Date Sampled: 05-20-92  
Date Received: 05-20-92  
Date Analyzed: 05-26-92  
Analysis Needed: TPH

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	86	5.0

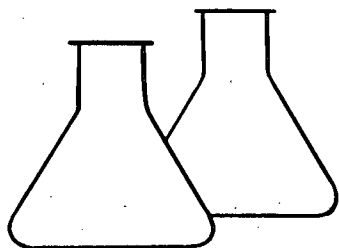
Method: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

ND - Parameter not detected at the stated detection limit.

Comments: Tom Growney Equipment--1100 Troy King Rd, Farmington  
1' below center of used oil tank.

Tony Tustan  
Analyst

Morris D Young  
Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHODS 8010/8020 AROMATIC VOLATILE ORGANICS/HALOGENATED VOLATILE ORGANICS

Client:	Tom Growney Equip.	Project #:	92158
Sample ID:	#1	Date Reported:	12-03-92
Laboratory Number:	0759	Date Sampled:	05-20-92
Sample Matrix:	Soil	Date Received:	05-20-92
Preservative:	Cool	Date Analyzed:	06-10-92
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride & 1,1-Dichloroethene	ND	0.010	0.2
2-Butanone	ND	0.005	200.0
Chloroform	ND	0.005	6.0
Carbon Tetrachloride	ND	0.005	0.5
Benzene & 1,2-Dichloroethane	ND	0.010	0.5
Trichloroethene	ND	0.005	0.5
Tetrachloroethene	ND	0.005	0.7
Chlorobenzene	ND	0.005	100.0
1,4-Dichlorobenzene	ND	0.005	7.5

Method: Method 1311, Toxicity Characteristic Leaching Procedure  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986

Method 5030, Purge-and-Trap, Test Methods for Evaluating  
Solid Waste, SW-846, USEPA, Sept. 1986

Method 8010, Halogenated Volatile Organics, Test Methods  
for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

Method 8020, Aromatic Volatile Organics, Test Methods for  
Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

Regulatory Limits are based upon 40 CFR 261.23 1990.

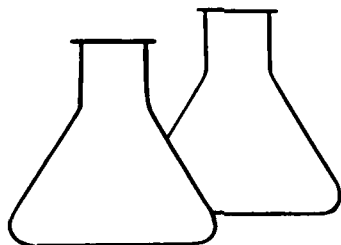
ND - Parameter not detected at the stated detection limit.

Comments:

Tony Tristano  
Analyst

Morris D. Young  
Review





# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 8040 PHENOLS

Client:	Tom Growney Equipment	Project #:	92158
Sample ID:	#1 Growney	Date Reported:	10-19-92
Laboratory Number:	0759	Date Sampled:	05-20-92
Sample Matrix:	Soil	Date Received:	05-20-92
Preservative:	Cool	Date Extracted:	06-10-92
Condition:	Cool & Intact	Date Analyzed:	10-13-92
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	ND	0.020	200.0
p,m-Cresol	ND	0.040	200.0
2,4,6-Trichlorophenol & 2,4,5-Trichlorophenol	ND	0.041	2.0
Pentachlorophenol	ND	0.021	100.0

Method: Method 1311, Toxicity Characteristic Leaching Procedure  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.

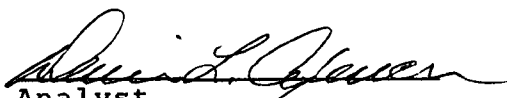
Method 3510, Separatory Funnel Liquid-Liquid Extraction,  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.

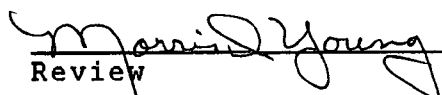
Method 8040, Phenols, Test Methods for Evaluating Solid  
Waste, SW-846, USEPA, Sept. 1986.

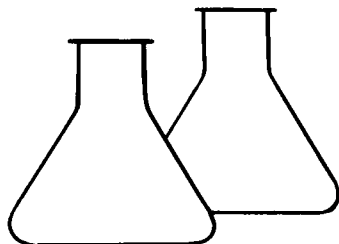
Regulatory Limits based on 40 CFR part 261 subpart C  
section 261.24, July 1, 1990

ND - Parameter not detected at the stated detection limit.

Comments: Tom Growney Equipment, 1100 Troy King Rd., Farmington

  
Analyst

  
Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 8090 NITROAROMATICS AND CYCLIC KETONES

Client:	Tom Growney Equipment	Project #:	92158
Sample ID:	#1 Growney	Date Reported:	10-05-92
Laboratory Number:	0759	Date Sampled:	05-20-92
Sample Matrix:	Soil	Date Received:	05-20-92
Preservative:	Cool	Date Extracted:	06-10-92
Condition:	Cool and Intact	Date Analyzed:	10-02-92
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	5.0
Nitrobenzene	ND	0.020	5.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

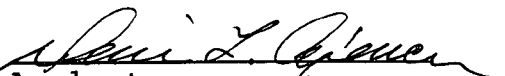
Method: Method 1311, Toxicity Characteristic Leaching Procedure  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.

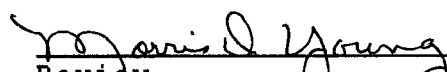
Method 3510, Separatory Funnel Liquid-Liquid Extraction,  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.

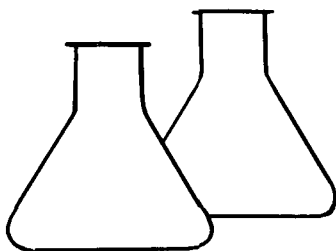
Method 8090, Nitroaromatics and Cyclic Ketones,  
Test Methods for Evaluating Solid Waste, SW-846,  
USEPA, Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments: Tom Growney Equipment, 1100 Troy King Rd., Farmington, NM

  
Analyst

  
Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 1311  
TOXICITY CHARACTERISTIC LEACHING PROCEDURE  
TRACE METAL ANALYSIS

Client: Tom Growney Equipment  
Sample ID: #1 Growney  
Laboratory Number: 0759  
Sample Matrix: Soil  
Preservative: NA  
Condition: NA

Project #: 92158  
Date Reported: 07-15-92  
Date Sampled: 05-20-92  
Date Received: 05-20-92  
Date Analyzed: 07-10-92  
Date Extracted: 06-10-92  
Analysis Needed: TCLP

Parameter -----	Concentration (mg/L) -----	Det. Limit (mg/L) -----
ARSENIC	0.020	0.001
BARIUM	19.1	0.1
CADMIUM	ND	0.001
CHROMIUM	0.037	0.001
LEAD	0.002	0.001
MERCURY	ND	0.002
SELENIUM	ND	0.001
SILVER	ND	0.01

Method: Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, Sept. 1986

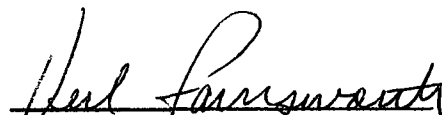
Methods 7060A, 7080A, 7131A, 7191, 7470A, 7421, 7740, 7760A  
Analysis of Metals by GFAA and FLAA, SW-846, USEPA

Method 1311, Toxicity Characteristic Leaching Procedure  
SW-846, USEPA, Nov. 1990

ND - Parameter not detected at the stated detection limit.

Comments: 1100 Troy King Rd, Farmington, NM

  
Analyst

  
Review

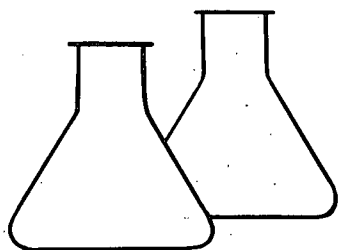
ENVIROTECH LABORATORIES

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5796 U.S. HIGHWAY 64-3014  
FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615

## QUALITY ASSURANCE/QUALITY CONTROL

### DOCUMENTATION



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHODS 8010/8020 AROMATIC VOLATILE ORGANICS/HALOGENATED VOLATILE ORGANICS

Client:	NA	Project #:	NA
Sample ID:	Laboratory Blank	Date Reported:	12-03-92
Laboratory Number:	0610TCVO	Date Sampled:	NA
Sample Matrix:	Water	Date Received:	NA
Preservative:	NA	Date Analyzed:	06-10-92
Condition:	NA	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride & 1,1-Dichloroethene	ND	0.010	0.2
2-Butanone	ND	0.005	200.0
Chloroform	ND	0.005	6.0
Carbon Tetrachloride	ND	0.005	0.5
Benzene & 1,2-Dichloroethane	ND	0.010	0.5
Trichloroethene	ND	0.005	0.5
Tetrachloroethene	ND	0.005	0.7
Chlorobenzene	ND	0.005	100.0
1,4-Dichlorobenzene	ND	0.005	7.5

Method: Method 1311, Toxicity Characteristic Leaching Procedure  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986

Method 5030, Purge-and-Trap, Test Methods for Evaluating  
Solid Waste, SW-846, USEPA, Sept. 1986

Method 8010, Halogenated Volatile Organics, Test Methods  
for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

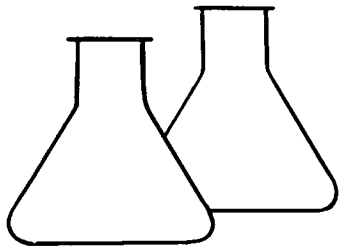
Method 8020, Aromatic Volatile Organics, Test Methods for  
Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

ND - Parameter not detected at the stated detection limit.

### Comments:

Tony Tistano  
Analyst

Maris D. Young  
Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 8040 PHENOLS

Client:	NA	Project #:	NA
Sample ID:	Lab Blank	Date Reported:	10-19-92
Laboratory Number:	LB-10-13	Date Sampled:	NA
Sample Matrix:	2-Propanol	Date Received:	NA
Preservative:	NA	Date Analyzed:	10-13-92
Condition:	NA	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	ND	0.020	200.0
p,m-Cresol	ND	0.040	200.0
2,4,6-Trichlorophenol & 2,4,5-Trichlorophenol	ND	0.041	2.0
Pentachlorophenol	ND	0.021	100.0

Method: Method 1311, Toxicity Characteristic Leaching Procedure  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.

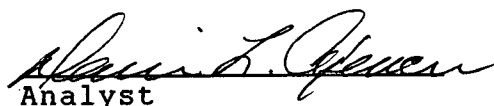
Method 3510, Separatory Funnel Liquid-Liquid Extraction,  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.

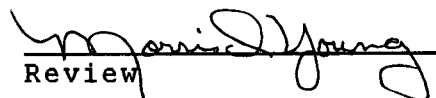
Method 8040, Phenols, Test Methods for Evaluating Solid  
Waste, SW-846, USEPA, Sept. 1986.

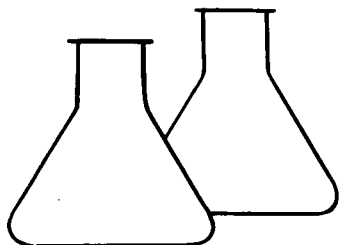
Regulatory Limits based on 40 CFR part 261 subpart C  
section 261.24, July 1, 1990

ND - Parameter not detected at the stated detection limit.

Comments:

  
Analyst

  
Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 8090 NITROAROMATICS AND CYCLIC KETONES

Client:	NA	Project #:	NA
Sample ID:	Lab Blank	Date Reported:	10-05-92
Laboratory Number:	BNLB1002 am	Date Sampled:	NA
Sample Matrix:	Hexane	Date Received:	NA
Preservative:	NA	Date Extracted:	NA
Condition:	NA	Date Analyzed:	10-02-92
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	5.0
Nitrobenzene	ND	0.020	5.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

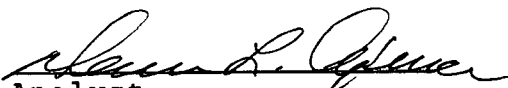
Method: Method 1311, Toxicity Characteristic Leaching Procedure  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.


Method 3510, Separatory Funnel Liquid-Liquid Extraction,  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.

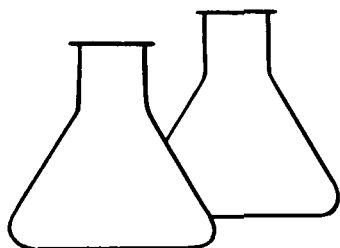
Method 8090, Nitroaromatics and Cyclic Ketones,  
Test Methods for Evaluating Solid Waste, SW-846,  
USEPA, Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments:

  
Analyst

  
Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401

PHONE: (505) 632-0615 • FAX: (505) 632-1865

QUALITY ASSURANCE REPORT  
EPA METHOD 1311  
TOXICITY CHARACTERISTIC LEACHING PROCEDURE  
TRACE METAL ANALYSIS - MATRIX SPIKE

Client:	NA	Project #:	NA
Sample ID:	NA	Date Reported:	07-15-92
Laboratory Number:	NA	Date Sampled:	NA
Sample Matrix:	TCLP Extract	Date Received:	NA
Analysis Requested:	TCLP	Date Analyzed:	07-10-92
Condition:	NA	Date Extracted:	NA

Parameter	Spike Added (mg/L)	Sample Result (mg/L)	Spiked Sample Result (mg/L)	Percent Recovery
ARSENIC	0.500	0.013	0.511	99.6
BARIUM	10.0	11.0	20.9	98.9
CADMIUM	0.250	ND	0.251	100.4
CHROMIUM	0.500	0.032	0.520	97.6
LEAD	0.250	0.006	0.253	98.8
MERCURY	0.250	ND	0.248	99.2
SELENIUM	0.500	ND	0.501	100.2
SILVER	1.00	ND	1.01	101.0

QA ACCEPTANCE CRITERIA:	Parameter	Acceptance Range %
	TCLP Metals	80 - 120

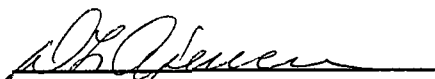
Method: Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, Sept. 1986

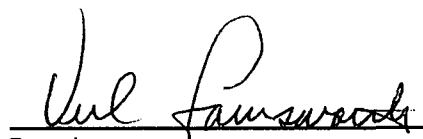
Methods 7060A, 7080A, 7131A, 7191, 7470A, 7421, 7740, 7760A  
Analysis of Metals by GFAA and FLAA, SW-846, USEPA

Method 1311, Toxicity Characteristic Leaching Procedure  
SW-846, USEPA, Nov. 1990

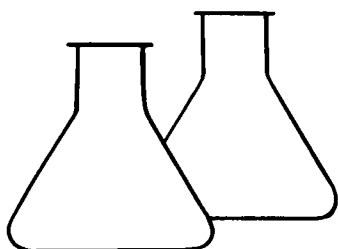
ND - Parameter not detected at the stated detection limit.

Comments:

  
Analyst

  
Review





# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401

PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 1311  
TOXICITY CHARACTERISTIC LEACHING PROCEDURE  
TRACE METAL ANALYSIS - BLANKS

Client:	NA	Project #:	NA
Sample ID:	Blanks	Date Reported:	07-15-92
Laboratory Number:	NA	Date Sampled:	NA
Sample Matrix:	TCLP Extract	Date Received:	NA
Analysis Requested:	TCLP	Date Analyzed:	07-10-92
Condition:	NA	Date Extracted:	06-10-92

Parameter	Instrument Blank (mg/L)	Extraction Sol. Blank (mg/L)	Det. Limit (mg/L)
ARSENIC	ND	ND	0.001
BARIUM	ND	5.4	0.1
CADMIUM	ND	ND	0.001
CHROMIUM	ND	ND	0.001
LEAD	ND	ND	0.001
MERCURY	ND	ND	0.002
SELENIUM	ND	ND	0.001
SILVER	ND	ND	0.01

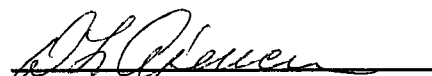
Method: Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, Sept. 1986

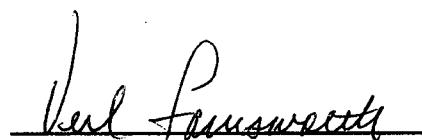
Methods 7060A, 7080A, 7131A, 7191, 7470A, 7421, 7740, 7760A  
Analysis of Metals by GFAA and FLAA, SW-846, USEPA

Method 1311, Toxicity Characteristic Leaching Procedure  
SW-846, USEPA, Nov. 1990

ND - Parameter not detected at the stated detection limit.

Comments:

  
Analyst

  
Review



# ENVIROTECH NC.

92234

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

5796 U.S. HIGHWAY 64 - 3014  
FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615

## Certification of Waste Status

Originating location USPHS Support Center  
P.O. Box 648  
FORT DEFIANCO, AZ  
86504

Disposal Location: Envirotech Soil Remediation Site, Hilltop, NM

"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by EPA's July 1988 Regulatory Determination and that non-exempt waste that is a "hazardous waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the exempt waste in such a manner so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Section 261.3(b)."

12-15-92

Signature Rocky Spencer

Name, Date ROCKY SPENCER 12-15-92

Company S+S BOWST

Address P.O. Box 690177 217 74169

# ENVIROTECH INC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

5796 U.S. HIGHWAY 64 - 3014  
FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615

## Certification of Waste Status

Originating location USPHS Support Center

P.O. Box 648

FORT DEFENSE, AZ

86504

Disposal Location: Envirotech Soil Remediation Site, Hilltop, NM

"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by EPA's July 1988 Regulatory Determination and that non-exempt waste that is a "hazardous waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the exempt waste in such a manner so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Section 261.3(b)."

Signature

Alan R. Nease

Name, Date

ALAN R. NEASE

Company

IHS

Address

P.O. Box 6

Window Rock, AZ 86515

# ENVIROTECH INC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

5796 U.S. HIGHWAY 64 - 3014  
FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615

December 14, 1992

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

RE: Williams Field Service Co.  
Ignacio Plant  
Hydrocarbon Contaminated Soil

Project No. 91414

Dear Mr. Foust:

Envirotech, Inc. requests authorization to receive hydrocarbon contaminated soil generated from a drip gasoline spill located at the Williams Field Service Co. Ignacio Plant, Durango, Colorado.

The spill was reportedly of condensate gasoline. Attached is a Certification of Waste Status signed by Mr. Lawrence G. Hjalmarson district Manager of Williams Field Service.

Thank you for your assistance in this matter.

Respectfully submitted,  
ENVIROTECH, Inc.

*Michael T. Eason*  
Michael T. Eason  
Hydrogeologist

cc: Mr. Lawrence G. Hjalmarson

Attachments:  
Certification of Waste Status

MTE/mte

*Received verbal authorization from Mr. Denny Foust of NMOC, on 12-4-92 to receive soil at Envirotech Soil Remediation Facility #2. MTE, 10-14-92*  
*OK*  
*DJH*

1414SL1.LET

**RECEIVED**  
DEC 17 1992  
OIL CON. DIV.  
DIST. 3

# ENVIROTECH INC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

5796 U.S. HIGHWAY 64 - 3014  
FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615

## Certification of Waste Status

Originating location Ignacio Plant 3746 CR 307, Durango, Colo 81301  
Owner: Northwest Pipeline Corp., Operated by  
Williams Field Services Company

Disposal Location: Envirotech Soil Remediation Site, Hilltop, NM

"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by EPA's July 1988 Regulatory Determination and that non-exempt waste that is a "hazardous waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the exempt waste in such a manner so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Section 261.3(b)."

Signature Lawrence G. Hjalmarson  
Name, Date Lawrence G. Hjalmarson 12-8-92  
Company Williams Field Services  
Address (same)

731.doc

**RECEIVED**  
DEC 17 1992  
OIL CON. DIV.  
DIST. 2

# ENVIROTECH INC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

5796 U.S. HIGHWAY 64 - 3014  
FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615

December 10, 1992

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

RE: Laguna Corporation  
Contaminated Soil  
TCPL Analysis

Project No. 91385

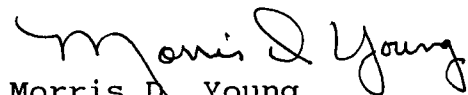
Dear Mr. Foust:

Envirotech, Inc. requests authorization to receive soil from the excavation of the Used Oil UST from the Laguna Corporation site located at 745 West Main Street, Farmington, New Mexico.

The spill reportedly consisted of used motor oil. Therefore, we have had a TCLP analysis completed, without the pesticides and herbicides, on the contaminated soil removed from the spill site.

The attached laboratory analysis show that the concentration of the TCLP target constituents are all below the RCRA regulatory levels for hazardous waste. Therefore the contaminated soils are classified as non-hazardous per RCRA (40CFR 261).

Respectfully submitted,  
ENVIROTECH, Inc.

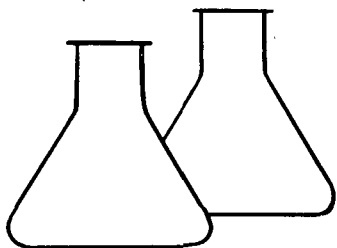
  
Morris D. Young  
President

cc: Mr. Ike Padilla, Laguna Corporation

Attachments:  
Laboratory Results  
Chain-of-custody

MDY/klb

**RECEIVED**  
DEC 14 1992  
OIL CON. DIV.  
DIST. 3  
D27  
OK  
12/14/92



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Laguna Corp.	Project #:	91385
Sample ID:	North Wall @ 10'	Date Reported:	06-26-92
Laboratory Number:	0312	Date Sampled:	04-30-92
Sample Matrix:	Soil	Date Received:	04-30-92
Preservative:	Cool	Date Analyzed:	04-30-92
Condition:	Cool & Intact	Analysis Needed:	TPH

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	ND	5.0

Method: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

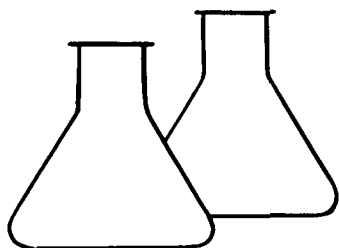
ND - Parameter not detected at the stated detection limit.

Comments:

Tony Tristano  
Analyst

Morris D. Young  
Review





# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401

PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client: Laguna Corp.  
Sample ID: S. Wall @ 10'bgs  
Laboratory Number: 0313  
Sample Matrix: Soil  
Preservative: Cool  
Condition: Cool & Intact

Project #: 91385  
Date Reported: 06-26-92  
Date Sampled: 04-30-92  
Date Received: 04-30-92  
Date Analyzed: 04-30-92  
Analysis Needed: TPH

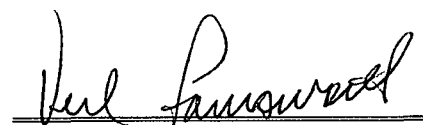
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	1,950	5.0

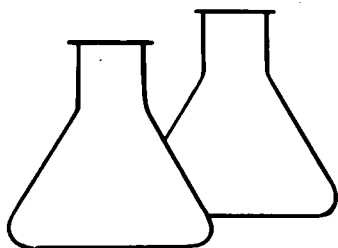
Method: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

ND - Parameter not detected at the stated detection limit.

Comments: Laguna Corp 745 W. Main

  
\_\_\_\_\_  
Analyst

  
\_\_\_\_\_  
Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client: Laguna Corp.  
Sample ID: W. Wall @ 10'bgs  
Laboratory Number: 0314  
Sample Matrix: Soil  
Preservative: Cool  
Condition: Cool & Intact

Project #: 91385  
Date Reported: 06-26-92  
Date Sampled: 04-30-92  
Date Received: 04-30-92  
Date Analyzed: 04-30-92  
Analysis Needed: TPH

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
-----	-----	-----
Total Petroleum Hydrocarbons	ND	5.0

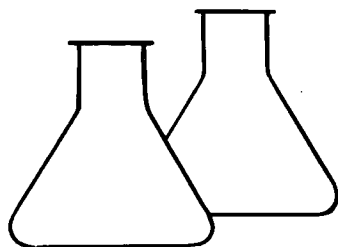
Method: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

ND - Parameter not detected at the stated detection limit.

Comments: Laguna Corp 745 W. Main

Vanessa Ransom  
Analyst

Neil Ransom  
Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client: Laguna Corp.  
Sample ID: E. Wall @ 10'bgs  
Laboratory Number: 0315  
Sample Matrix: Soil  
Preservative: Cool  
Condition: Cool & Intact

Project #: 91385  
Date Reported: 06-26-92  
Date Sampled: 04-30-92  
Date Received: 04-30-92  
Date Analyzed: 04-30-92  
Analysis Needed: TPH

Parameter -----	Concentration (mg/kg) -----	Det. Limit (mg/kg) -----
Total Petroleum Hydrocarbons	ND	5.0

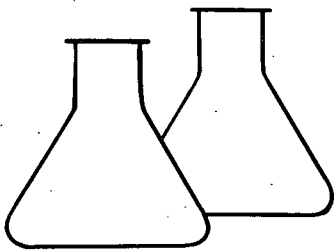
Method: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

ND - Parameter not detected at the stated detection limit.

Comments: Laguna Corp 745 W. Main

Vanessa Ranson  
Analyst

Neil Ransworth  
Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHODS 8010/8020  
AROMATIC VOLATILE ORGANICS/HALOGENATED VOLATILE ORGANICS

Client:	Laguna Corp.	Project #:	91385
Sample ID:	Landfarm Soil	Date Reported:	12-03-92
Laboratory Number:	0316	Date Sampled:	04-30-92
Sample Matrix:	Soil	Date Received:	04-30-92
Preservative:	Cool	Date Analyzed:	06-10-92
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride & 1,1-Dichloroethene	ND	0.010	0.2
2-Butanone	ND	0.005	200.0
Chloroform	ND	0.005	6.0
Carbon Tetrachloride	ND	0.005	0.5
Benzene & 1,2-Dichloroethane	ND	0.010	0.5
Trichloroethene	ND	0.005	0.5
Tetrachloroethene	ND	0.005	0.7
Chlorobenzene	ND	0.005	100.0
1,4-Dichlorobenzene	ND	0.005	7.5

Method: Method 1311, Toxicity Characteristic Leaching Procedure  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986

Method 5030, Purge-and-Trap, Test Methods for Evaluating  
Solid Waste, SW-846, USEPA, Sept. 1986

Method 8010, Halogenated Volatile Organics, Test Methods  
for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

Method 8020, Aromatic Volatile Organics, Test Methods for  
Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

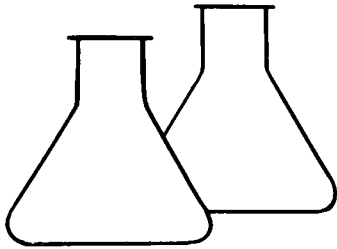
Regulatory Limits are based upon 40 CFR 261.23 1990.

ND - Parameter not detected at the stated detection limit.

Comments:

Tony Tristano  
Analyst

Mavis J. Young  
Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 8040 PHENOLS

Client:	Laguna Corp.	Project #:	91385
Sample ID:	Composite	Date Reported:	10-19-92
Laboratory Number:	0316	Date Sampled:	04-30-92
Sample Matrix:	Soil	Date Received:	04-30-92
Preservative:	Cool	Date Extracted:	06-09-92
Condition:	Cool & Intact	Date Analyzed:	10-13-92
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	ND	0.020	200.0
p,m-Cresol	ND	0.040	200.0
2,4,6-Trichlorophenol & 2,4,5-Trichlorophenol	ND	0.041	2.0
Pentachlorophenol	ND	0.021	100.0

Method: Method 1311, Toxicity Characteristic Leaching Procedure  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.

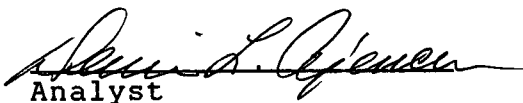
Method 3510, Separatory Funnel Liquid-Liquid Extraction,  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.

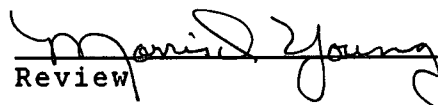
Method 8040, Phenols, Test Methods for Evaluating Solid  
Waste, SW-846, USEPA, Sept. 1986.

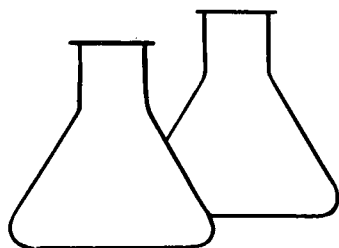
Regulatory Limits based on 40 CFR part 261 subpart C  
section 261.24, July 1, 1990

ND - Parameter not detected at the stated detection limit.

Comments: Laguna Corp., 745 W. Main

  
Analyst

  
Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 8090 NITROAROMATICS AND CYCLIC KETONES

Client:	Laguna Corp.	Project #:	92161
Sample ID:	Soil to Land Farm	Date Reported:	10-05-92
Laboratory Number:	0316	Date Sampled:	04-30-92
Sample Matrix:	Soil	Date Received:	04-30-92
Preservative:	Cool	Date Extracted:	06-09-92
Condition:	Cool and Intact	Date Analyzed:	10-02-92
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	5.0
Nitrobenzene	ND	0.020	5.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

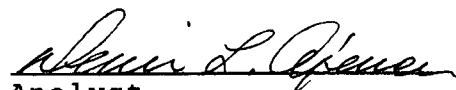
Method: Method 1311, Toxicity Characteristic Leaching Procedure  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.

Method 3510, Separatory Funnel Liquid-Liquid Extraction,  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.

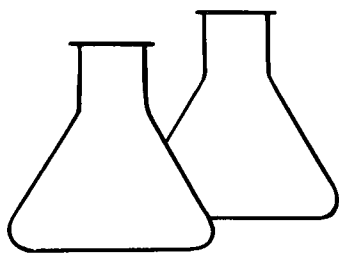
Method 8090, Nitroaromatics and Cyclic Ketones,  
Test Methods for Evaluating Solid Waste, SW-846,  
USEPA, Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments: Laguna Corp., 745 W. Main

  
Analyst

  
Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS

Client: Laguna Corp.  
Sample ID: Soil to Land Farm  
Laboratory Number: 0316  
Sample Matrix: Soil  
Preservative: NA  
Condition: NA

Project #: 91385  
Date Reported: 07-15-92  
Date Sampled: 04-30-92  
Date Received: 04-30-92  
Date Analyzed: 07-10-92  
Date Extracted: 06-09-92  
Analysis Needed: TCLP

Parameter -----	Concentration (mg/L) -----	Det. Limit (mg/L) -----
ARSENIC	0.013	0.001
BARIUM	5.6	0.1
CADMIUM	ND	0.001
CHROMIUM	0.022	0.001
LEAD	0.006	0.001
MERCURY	ND	0.002
SELENIUM	ND	0.001
SILVER	ND	0.01

Method: Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, Sept. 1986


Methods 7060A, 7080A, 7131A, 7191, 7470A, 7421, 7740, 7760A  
Analysis of Metals by GFAA and FLAA, SW-846, USEPA

Method 1311, Toxicity Characteristic Leaching Procedure  
SW-846, USEPA, Nov. 1990

ND - Parameter not detected at the stated detection limit.

Comments: Laguna Corp., 745 W. Main

  
Analyst

  
Review

ENVIROTECH LABORATORIES

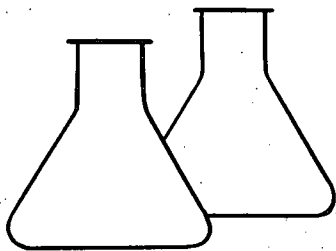
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5796 U.S. HIGHWAY 64-3014  
FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615

QUALITY ASSURANCE/QUALITY CONTROL

DOCUMENTATION





# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHODS 8010/8020 AROMATIC VOLATILE ORGANICS/HALOGENATED VOLATILE ORGANICS

Client:	NA	Project #:	NA
Sample ID:	Laboratory Blank	Date Reported:	12-03-92
Laboratory Number:	0610TCVO	Date Sampled:	NA
Sample Matrix:	Water	Date Received:	NA
Preservative:	NA	Date Analyzed:	06-10-92
Condition:	NA	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride & 1,1-Dichloroethene	ND	0.010	0.2
2-Butanone	ND	0.005	200.0
Chloroform	ND	0.005	6.0
Carbon Tetrachloride	ND	0.005	0.5
Benzene & 1,2-Dichloroethane	ND	0.010	0.5
Trichloroethene	ND	0.005	0.5
Tetrachloroethene	ND	0.005	0.7
Chlorobenzene	ND	0.005	100.0
1,4-Dichlorobenzene	ND	0.005	7.5

Method: Method 1311, Toxicity Characteristic Leaching Procedure  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986

Method 5030, Purge-and-Trap, Test Methods for Evaluating  
Solid Waste, SW-846, USEPA, Sept. 1986

Method 8010, Halogenated Volatile Organics, Test Methods  
for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

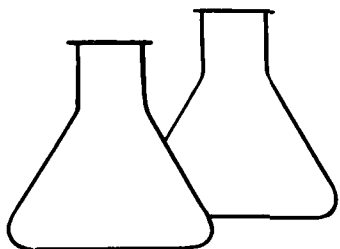
Method 8020, Aromatic Volatile Organics, Test Methods for  
Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments:

Tony Tristano  
Analyst

Maris J. Young  
Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 8040 PHENOLS

Client:	NA	Project #:	NA
Sample ID:	Lab Blank	Date Reported:	10-19-92
Laboratory Number:	LB-10-13	Date Sampled:	NA
Sample Matrix:	2-Propanol	Date Received:	NA
Preservative:	NA	Date Analyzed:	10-13-92
Condition:	NA	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	ND	0.020	200.0
p,m-Cresol	ND	0.040	200.0
2,4,6-Trichlorophenol & 2,4,5-Trichlorophenol	ND	0.041	2.0
Pentachlorophenol	ND	0.021	100.0

Method: Method 1311, Toxicity Characteristic Leaching Procedure  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.

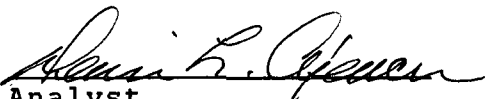
Method 3510, Separatory Funnel Liquid-Liquid Extraction,  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.

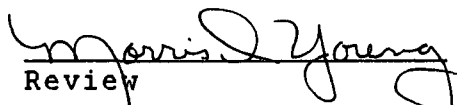
Method 8040, Phenols, Test Methods for Evaluating Solid  
Waste, SW-846, USEPA, Sept. 1986.

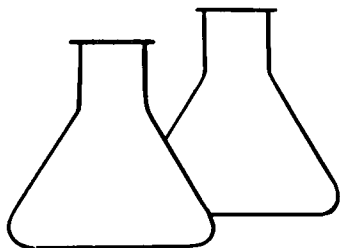
Regulatory Limits based on 40 CFR part 261 subpart C  
section 261.24, July 1, 1990

ND - Parameter not detected at the stated detection limit.

Comments:

  
Analyst

  
Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 8090 NITROAROMATICS AND CYCLIC KETONES

Client:	NA	Project #:	NA
Sample ID:	Lab Blank	Date Reported:	10-05-92
Laboratory Number:	BNLB1002 am	Date Sampled:	NA
Sample Matrix:	Hexane	Date Received:	NA
Preservative:	NA	Date Extracted:	NA
Condition:	NA	Date Analyzed:	10-02-92
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	5.0
Nitrobenzene	ND	0.020	5.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

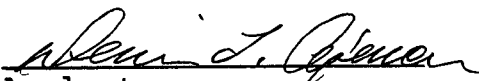
Method: Method 1311, Toxicity Characteristic Leaching Procedure  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.


Method 3510, Separatory Funnel Liquid-Liquid Extraction,  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.

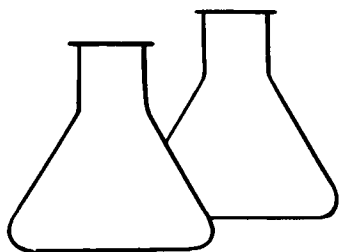
Method 8090, Nitroaromatics and Cyclic Ketones,  
Test Methods for Evaluating Solid Waste, SW-846,  
USEPA, Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments:

  
Analyst

  
Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401

PHONE: (505) 632-0615 • FAX: (505) 632-1865

QUALITY ASSURANCE REPORT  
EPA METHOD 1311  
TOXICITY CHARACTERISTIC LEACHING PROCEDURE  
TRACE METAL ANALYSIS - MATRIX SPIKE

Client:	NA	Project #:	NA
Sample ID:	NA	Date Reported:	07-14-92
Laboratory Number:	NA	Date Sampled:	NA
Sample Matrix:	TCLP Extract	Date Received:	NA
Analysis Requested:	TCLP	Date Analyzed:	07-10-92
Condition:	NA	Date Extracted:	NA

Parameter	Spike Added (mg/L)	Sample Result (mg/L)	Spiked Sample Result (mg/L)	Percent Recovery
ARSENIC	0.500	0.013	0.511	99.6
BARIUM	10.0	11.0	20.9	98.9
CADMIUM	0.250	ND	0.251	100.4
CHROMIUM	0.500	0.032	0.520	97.6
LEAD	0.250	0.006	0.253	98.8
MERCURY	0.250	ND	0.248	99.2
SELENIUM	0.500	ND	0.501	100.2
SILVER	1.00	ND	1.01	101.0

QA ACCEPTANCE CRITERIA:	Parameter	Acceptance Range %
	TCLP Metals	80 - 120


Method: Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, Sept. 1986


Methods 7060A, 7080A, 7131A, 7191, 7470A, 7421, 7740, 7760A  
Analysis of Metals by GFAA and FLAA, SW-846, USEPA

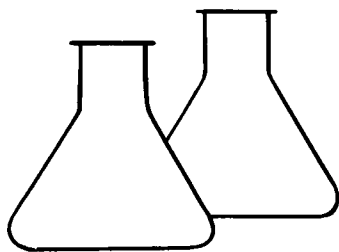
Method 1311, Toxicity Characteristic Leaching Procedure  
SW-846, USEPA, Nov. 1990

ND - Parameter not detected at the stated detection limit.

Comments:

  
Analyst

  
Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS - BLANKS

Client:	NA	Project #:	NA
Sample ID:	Blanks	Date Reported:	07-15-92
Laboratory Number:	NA	Date Sampled:	NA
Sample Matrix:	TCLP Extract	Date Received:	NA
Analysis Requested:	TCLP	Date Analyzed:	07-10-92
Condition:	NA	Date Extracted:	06-09-92

Parameter	Instrument Blank (mg/L)	Extraction Sol. Blank (mg/L)	Det. Limit (mg/L)
ARSENIC	ND	ND	0.001
BARIUM	ND	5.4	0.1
CADMIUM	ND	ND	0.001
CHROMIUM	ND	ND	0.001
LEAD	ND	ND	0.001
MERCURY	ND	ND	0.002
SELENIUM	ND	ND	0.001
SILVER	ND	ND	0.01

Method: Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, Sept. 1986


Methods 7060A, 7080A, 7131A, 7191, 7470A, 7421, 7740, 7760A  
Analysis of Metals by GFAA and FLAA, SW-846, USEPA

Method 1311, Toxicity Characteristic Leaching Procedure  
SW-846, USEPA, Nov. 1990

ND - Parameter not detected at the stated detection limit.

Comments:

  
Analyst

  
Review

san juan repro Form 578-81

# ENVIROTECH NC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

5796 U.S. HIGHWAY 64 - 3014  
FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615

December 10, 1992

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

RE: Ku-Tips Nursery spill  
Clean-up waste

Project No. 92139

Dear Mr. Foutz

Ku-Tips Nursery, 1817 Schofield Lane, Farmington, New Mexico suffered a vandalism incident on April 29, 1992 that involved breaking retail quantities of fertilizer, potting soils, herbicides and pesticides.

In responding to the spill incident, the Farmington City Fire Department used floor sweep absorbent material that created the bulk of the waste material.

Earlier conversations with Mr. Roger Anderson of the NMOCD indicated that unless the RCRA target compounds were present in the waste, NMOCD could authorize receipt of the subject waste. Therefore; we had a complete Toxicity Characteristic Leaching Procedure (TCLP) Analysis performed on this waste. This analysis includes all RCRA targeted pesticides and herbicides.

The attached laboratory analysis shows that the concentration of the TCLP target constituents are all either non detected or at levels below the RCRA regulatory levels for hazardous waste. Therefore the contaminated waste is classified as non-hazardous per RCRA (40 CFR 261).

OK  
12/14/92  
RSG

RECEIVED  
DEC 14 1992  
OIL CON. DIV.  
DIST. 3

Ku-Tip Nursery  
Envirotech Inc.  
December 10, 1992

Page 2

Envirotech requests authorization to receive and remediate this material.

Yours Truly,  
Envirotech Inc.

A handwritten signature in cursive script that reads "Morris D. Young".

Morris D. Young  
President

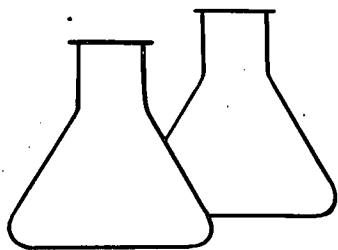
Attachments:

Laboratory Results  
Chain of Custody

c.c: Mr. Willy Kutac, Ku-Tips Nursery  
Mr. Guy Shepherd, Frontier Adjusters

MDY/klS





# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHODS 8010/8020 AROMATIC VOLATILE ORGANICS/HALOGENATED VOLATILE ORGANICS

Client:	Ku-Tip Nursery	Project #:	92139
Sample ID:	Sample #1	Date Reported:	12-03-92
Laboratory Number:	0348	Date Sampled:	05-01-92
Sample Matrix:	Absorbent	Date Received:	05-01-92
Preservative:	Cool	Date Analyzed:	06-09-92
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride & 1,1-Dichloroethene	ND	0.010	0.2
2-Butanone	ND	0.005	200.0
Chloroform	ND	0.005	6.0
Carbon Tetrachloride	ND	0.005	0.5
Benzene & 1,2-Dichloroethane	ND	0.010	0.5
Trichloroethene	ND	0.005	0.5
Tetrachloroethene	ND	0.005	0.7
Chlorobenzene	ND	0.005	100.0
1,4-Dichlorobenzene	ND	0.005	7.5

Method: Method 1311, Toxicity Characteristic Leaching Procedure  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986

Method 5030, Purge-and-Trap, Test Methods for Evaluating  
Solid Waste, SW-846, USEPA, Sept. 1986

Method 8010, Halogenated Volatile Organics, Test Methods  
for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

Method 8020, Aromatic Volatile Organics, Test Methods for  
Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

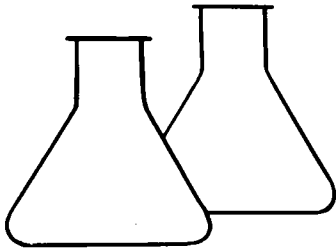
Regulatory Limits are based upon 40 CFR 261.23 1990.

ND - Parameter not detected at the stated detection limit.

### Comments:

Tony Tustas  
Analyst

Mavis D. Young  
Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 8040 PHENOLS

Client:	Ku-Tip Nursery	Project #:	92139
Sample ID:	Sample #1 Ku-Tip	Date Reported:	10-19-92
Laboratory Number:	0348	Date Sampled:	05-01-92
Sample Matrix:	Soil	Date Received:	05-01-92
Preservative:	Cool	Date Extracted:	06-10-92
Condition:	Cool & Intact	Date Analyzed:	10-13-92
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	ND	0.020	200.0
p,m-Cresol	ND	0.040	200.0
2,4,6-Trichlorophenol & 2,4,5-Trichlorophenol	ND	0.041	2.0
Pentachlorophenol	ND	0.021	100.0

Method: Method 1311, Toxicity Characteristic Leaching Procedure  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.

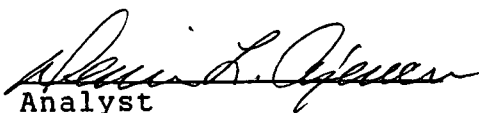
Method 3510, Separatory Funnel Liquid-Liquid Extraction,  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.

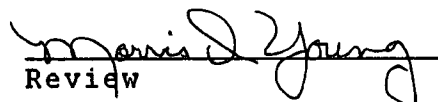
Method 8040, Phenols, Test Methods for Evaluating Solid  
Waste, SW-846, USEPA, Sept. 1986.

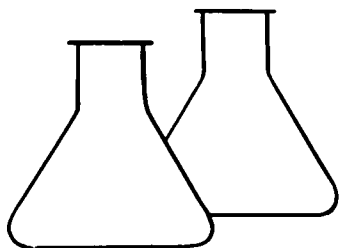
Regulatory Limits based on 40 CFR part 261 subpart C  
section 261.24, July 1, 1990

ND - Parameter not detected at the stated detection limit.

Comments: Ku-Tip Nursery

  
Analyst

  
Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 8090 NITROAROMATICS AND CYCLIC KETONES

Client:	KuTip	Project #:	92139
Sample ID:	Ku-Tip Sample #1	Date Reported:	10-05-92
Laboratory Number:	0348	Date Sampled:	05-01-92
Sample Matrix:	Absorbent	Date Received:	05-01-92
Preservative:	Cool	Date Extracted:	06-10-92
Condition:	Cool and Intact	Date Analyzed:	10-02-92
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	5.0
Nitrobenzene	ND	0.020	5.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	0.032	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

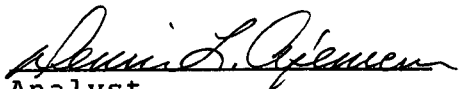
Method: Method 1311, Toxicity Characteristic Leaching Procedure  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.

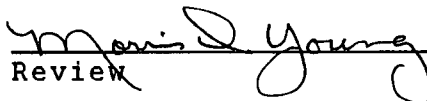
Method 3510, Separatory Funnel Liquid-Liquid Extraction,  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.

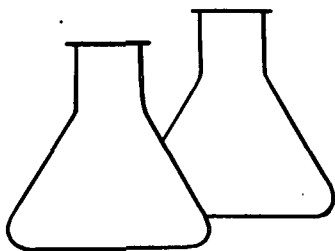
Method 8090, Nitroaromatics and Cyclic Ketones,  
Test Methods for Evaluating Solid Waste, SW-846,  
USEPA, Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments: Ku-Tip Nursery

  
Analyst

  
Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 8080 ORGANOCHLORINE PESTICIDES

Client:	Ku-Tip Nursury	Project #:	92139
Sample ID:	Sample #1	Date Reported:	12-08-92
Laboratory Number:	0348	Date Sampled:	05-01-92
Sample Matrix:	Absorbent	Date Received:	05-01-92
Preservative:	Cool	Date Analyzed:	05-23-92
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Lindane (gamma BHC)	ND	0.40	0.40
Endrin	ND	0.02	0.02
Methoxychlor	ND	10.00	10.00
Toxaphene	ND	0.50	0.50

Method: Method 1311, Toxicity Characteristic Leaching Procedure,  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986

Method 3510, Separatory Funnel Liquid-Liquid Extraction,  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986

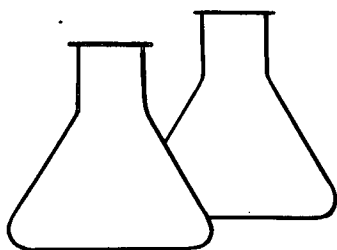
Method 8080, Organochlorine Pesticides, Test  
Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments:

Tony Tristano  
Analyst

Maris D. Young  
Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 8150 CHLORINATED HERBICIDES

Client:	Ku-Tip Nursury	Project #:	92139
Sample ID:	Sample #1	Date Reported:	12-08-92
Laboratory Number:	0348	Date Sampled:	05-01-92
Sample Matrix:	Soil	Date Received:	05-01-92
Preservative:	Cool	Date Analyzed:	05-23-92
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
2,4-D	ND	1.00	10.00
2,4,5-TP (Silvex)	ND	1.00	1.00

Method: Method 1311, Toxicity Characteristic Leaching Procedure,  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986

Method 3510, Separatory Funnel Liquid-Liquid Extraction,  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986

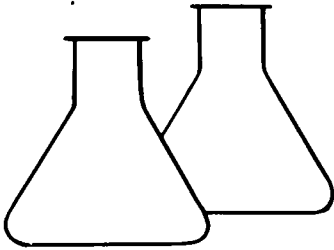
Method 8150, Chlorinated Herbicides, Test  
Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments:

Tony Tristano  
Analyst

Morris D. Young  
Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS

Client: KuTip Nursery  
Sample ID: KU-TIP  
Laboratory Number: 0348  
Sample Matrix: Absorbant  
Preservative: NA  
Condition: NA

Project #: 92139  
Date Reported: 07-15-92  
Date Sampled: 05-01-92  
Date Received: 05-01-92  
Date Analyzed: 07-10-92  
Date Extracted: 06-10-92  
Analysis Needed: TCLP

Parameter -----	Concentration (mg/L) -----	Det. Limit (mg/L) -----
ARSENIC	0.015	0.001
BARIUM	0.6	0.1
CADMIUM	0.001	0.001
CHROMIUM	0.005	0.001
LEAD	0.003	0.001
MERCURY	ND	0.002
SELENIUM	ND	0.001
SILVER	ND	0.01

Method: Methods 3010, 3020, Acid Digestion of Aqueous Samples and  
Extracts for Total Metals, SW-846, USEPA, Sept. 1986

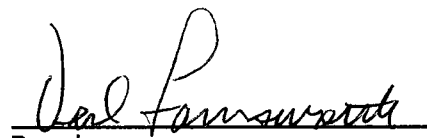
Methods 7060A, 7080A, 7131A, 7191, 7470A, 7421, 7740, 7760A  
Analysis of Metals by GFAA and FLAA, SW-846, USEPA

Method 1311, Toxicity Characteristic Leaching Procedure  
SW-846, USEPA, Nov. 1990

ND - Parameter not detected at the stated detection limit.

Comments:

  
Analyst

  
Review

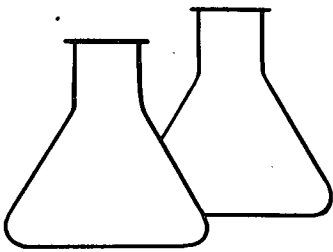
ENVIROTECH LABORATORIES

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5796 U.S. HIGHWAY 64-3014  
FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615

QUALITY ASSURANCE/QUALITY CONTROL

DOCUMENTATION



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHODS 8010/8020 AROMATIC VOLATILE ORGANICS/HALOGENATED VOLATILE ORGANICS

Client:	NA	Project #:	NA
Sample ID:	Laboratory Blank	Date Reported:	12-03-92
Laboratory Number:	0609TCVO	Date Sampled:	NA
Sample Matrix:	Water	Date Received:	NA
Preservative:	NA	Date Analyzed:	06-09-92
Condition:	NA	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride & 1,1-Dichloroethene	ND	0.010	0.2
2-Butanone	ND	0.005	200.0
Chloroform	ND	0.005	6.0
Carbon Tetrachloride	ND	0.005	0.5
Benzene & 1,2-Dichloroethane	ND	0.010	0.5
Trichloroethene	ND	0.005	0.5
Tetrachloroethene	ND	0.005	0.7
Chlorobenzene	ND	0.005	100.0
1,4-Dichlorobenzene	ND	0.005	7.5

Method: Method 1311, Toxicity Characteristic Leaching Procedure  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986

Method 5030, Purge-and-Trap, Test Methods for Evaluating  
Solid Waste, SW-846, USEPA, Sept. 1986

Method 8010, Halogenated Volatile Organics, Test Methods  
for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

Method 8020, Aromatic Volatile Organics, Test Methods for  
Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

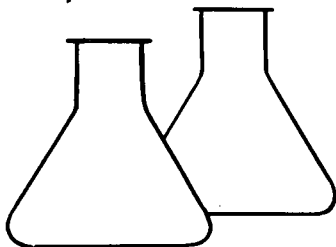
ND - Parameter not detected at the stated detection limit.

Comments:

Tony T. Tinton  
Analyst

Maris D. Young  
Review





# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 8040 PHENOLS

Client:	NA	Project #:	NA
Sample ID:	Lab Blank	Date Reported:	10-19-92
Laboratory Number:	LB-10-13	Date Sampled:	NA
Sample Matrix:	2-Propanol	Date Received:	NA
Preservative:	NA	Date Analyzed:	10-13-92
Condition:	NA	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	ND	0.020	200.0
p,m-Cresol	ND	0.040	200.0
2,4,6-Trichlorophenol & 2,4,5-Trichlorophenol	ND	0.041	2.0
Pentachlorophenol	ND	0.021	100.0

Method: Method 1311, Toxicity Characteristic Leaching Procedure  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.

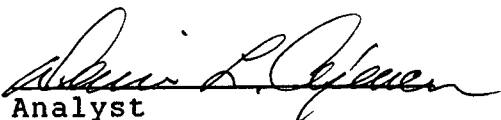
Method 3510, Separatory Funnel Liquid-Liquid Extraction,  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.

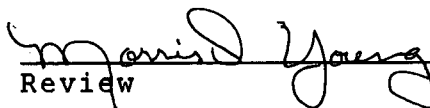
Method 8040, Phenols, Test Methods for Evaluating Solid  
Waste, SW-846, USEPA, Sept. 1986.

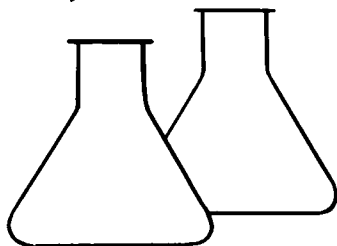
Regulatory Limits based on 40 CFR part 261 subpart C  
section 261.24, July 1, 1990

ND - Parameter not detected at the stated detection limit.

Comments:

  
Analyst

  
Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 8090 NITROAROMATICS AND CYCLIC KETONES

Client:	NA	Project #:	NA
Sample ID:	Lab Blank	Date Reported:	10-05-92
Laboratory Number:	BNLB1001 pm	Date Sampled:	NA
Sample Matrix:	Hexane	Date Received:	NA
Preservative:	NA	Date Extracted:	NA
Condition:	NA	Date Analyzed:	10-01-92
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	5.0
Nitrobenzene	ND	0.020	5.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

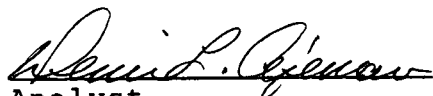
Method: Method 1311, Toxicity Characteristic Leaching Procedure  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.


Method 3510, Separatory Funnel Liquid-Liquid Extraction,  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.

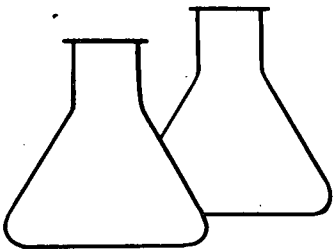
Method 8090, Nitroaromatics and Cyclic Ketones,  
Test Methods for Evaluating Solid Waste, SW-846,  
USEPA, Sept. 1986

ND - Parameter not detected at the stated detection limit.

### Comments:

  
Analyst

  
Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 8080 ORGANOCHLORINE PESTICIDES

Client:	NA	Project #:	NA
Sample ID:	Laboratory Blank	Date Reported:	12-08-92
Laboratory Number:	0523TPLB	Date Sampled:	NA
Sample Matrix:	Hexane	Date Received:	NA
Preservative:	Cool	Date Analyzed:	05-23-92
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Lindane (gamma BHC)	ND	0.40	0.40
Endrin	ND	0.02	0.02
Methoxychlor	ND	10.00	10.00
Toxaphene	ND	0.50	0.50

Method: Method 1311, Toxicity Characteristic Leaching Procedure,  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986

Method 3510, Separatory Funnel Liquid-Liquid Extraction,  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986

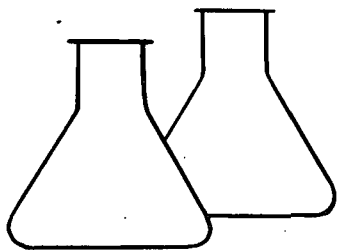
Method 8080, Organochlorine Pesticides, Test  
Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments:

Tony Tristano  
Analyst

Maris D. Young  
Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 8150 CHLORINATED HERBICIDES

Client:	NA	Project #:	NA
Sample ID:	Laboratory Blank	Date Reported:	12-08-92
Laboratory Number:	0523THLB	Date Sampled:	NA
Sample Matrix:	Liquid	Date Received:	NA
Preservative:	Cool	Date Analyzed:	05-23-92
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
2,4-D	ND	1.00	10.00
2,4,5-TP (Silvex)	ND	1.00	1.00

Method: Method 1311, Toxicity Characteristic Leaching Procedure,  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986

Method 3510, Separatory Funnel Liquid-Liquid Extraction,  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986

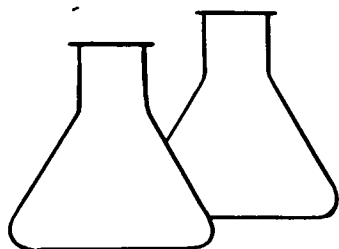
Method 8150, Chlorinated Herbicides, Test  
Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments:

Tony Tristano  
Analyst

Mavis D. Young  
Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

QUALITY ASSURANCE REPORT  
EPA METHOD 1311  
TOXICITY CHARACTERISTIC LEACHING PROCEDURE  
TRACE METAL ANALYSIS - MATRIX SPIKE

Client:	NA	Project #:	NA
Sample ID:	NA	Date Reported:	07-15-92
Laboratory Number:	NA	Date Sampled:	NA
Sample Matrix:	TCLP Extract	Date Received:	NA
Analysis Requested:	TCLP	Date Analyzed:	07-10-92
Condition:	NA	Date Extracted:	NA

Parameter	Spike Added (mg/L)	Sample Result (mg/L)	Spiked Sample Result (mg/L)	Percent Recovery
ARSENIC	0.500	0.013	0.511	99.6
BARIUM	10.0	11.0	20.9	98.9
CADMIUM	0.250	ND	0.251	100.4
CHROMIUM	0.500	0.032	0.520	97.6
LEAD	0.250	0.006	0.253	98.8
MERCURY	0.250	ND	0.248	99.2
SELENIUM	0.500	ND	0.501	100.2
SILVER	1.00	ND	1.01	101.0

QA ACCEPTANCE CRITERIA:	Parameter	Acceptance Range %
	TCLP Metals	80 - 120

Method: Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, Sept. 1986

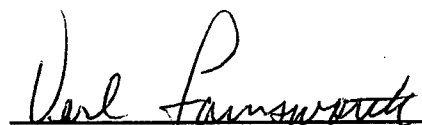
Methods 7060A, 7080A, 7131A, 7191, 7470A, 7421, 7740, 7760A  
Analysis of Metals by GFAA and FLAA, SW-846, USEPA

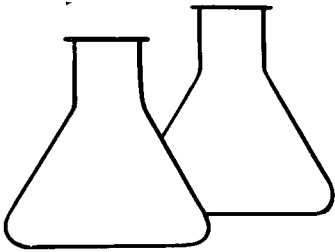
Method 1311, Toxicity Characteristic Leaching Procedure  
SW-846, USEPA, Nov. 1990

ND - Parameter not detected at the stated detection limit.

Comments:

  
Analyst

  
Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS - BLANKS

Client:	NA	Project #:	NA
Sample ID:	Blanks	Date Reported:	07-15-92
Laboratory Number:	NA	Date Sampled:	NA
Sample Matrix:	TCLP Extract	Date Received:	NA
Analysis Requested:	TCLP	Date Analyzed:	07-10-92
Condition:	NA	Date Extracted:	06-10-92

Parameter	Instrument Blank (mg/L)	Extraction Sol. Blank (mg/L)	Det. Limit (mg/L)
ARSENIC	ND	ND	0.001
BARIUM	ND	5.4	0.1
CADMIUM	ND	ND	0.001
CHROMIUM	ND	ND	0.001
LEAD	ND	ND	0.001
MERCURY	ND	ND	0.002
SELENIUM	ND	ND	0.001
SILVER	ND	ND	0.01

Method: Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, Sept. 1986


Methods 7060A, 7080A, 7131A, 7191, 7470A, 7421, 7740, 7760A  
Analysis of Metals by GFAA and FLAA, SW-846, USEPA

Method 1311, Toxicity Characteristic Leaching Procedure  
SW-846, USEPA, Nov. 1990

ND - Parameter not detected at the stated detection limit.

Comments:

  
Analyst

  
Review

1163

## CHAIN OF CUSTODY RECORD

[illegible]

# ENVIROTECH INC.

5796 U.S. Highway 64-3014  
Farmington, New Mexico 87401

(505) 632-0615



# Halliburton Resource Management

P.O. Box 280 • Flora Vista, New Mexico 87415 • (505) 334-6713 • FAX No. (505) 334-7547

December 4, 1992

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

RE: Request to dispose of wash-bay sump material

Dear Mr. Foust:

As per my conversation with Steve Collins, Vice President, Engineering, HRM, would like to resubmit our request to dispose of wash-bay sump material at the Envirotech Disposal.

Please find enclosed, NDRC Laboratories test results for the following materials:  
VOC, PCB, TPH, Metals, TCLP, RCRA-8

Due to an oversight in the Chain of Custody Record, Se was inadvertently omitted. Although additional material was added to the sump subsequent to testing, all of HRM's chemical usage and operating procedures remain the same and there should be no change in the sump material.

We trust the forgoing information is sufficient to enable you to approve HRM's request to dispose of the wash-bay sump material.

Sincerely,

Halliburton Resource Management

Bill Wharton  
Field Supervisor, Farmington District

BW/df

OK  
to Envirotech  
12/10/92

**RECEIVED**  
DEC - 8 1992  
OIL CON. DIV.  
DIST. 3



# ENVIROTECH INC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

5796 U.S. HIGHWAY 64 - 3014  
FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615

November 20, 1992

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

RE: Request to Receive  
Halliburton Resource Management  
Wash Bay Sump Soil  
TCPL Analysis

Project No. 922118

Dear Mr. Foust:

Envirotech, Inc. request authorization to receive soil excavated from the wash bay sump at the Halliburton Resource Management Yard, Flora Vista, New Mexico.

The sump had reportedly contained soils washed from vehicles used in the oil field. Halliburton Resource Management has had a TCLP analysis from a composite sample completed by NDRC Laboratories.

The attached laboratory analysis show that the concentration of the TCLP target constituents completed are all below the RCRA regulatory levels for hazardous waste. Therefore, the soils are classified as non-hazardous per RCRA (40CFR 261).

Thank you for your assistance in this matter, if you have any questions please contact us.

Respectfully submitted,  
ENVIROTECH, Inc.



Michael T. Eason  
Hydrogeologist

cc: Mr. James Woods, Halliburton Resource Management

Attachments:  
Laboratory Results  
Chain-of-Custody

MTE/mte

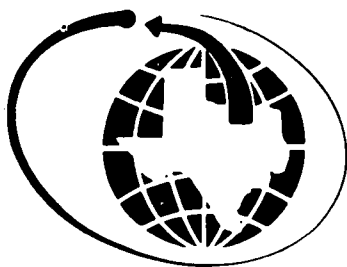
2118TCL1.LET

## CHAIN OF CUSTODY RECORD

## NDRC LABORATORIES-DALLAS, INC.

1089 East Collins Blvd., Richardson, TX 75081 (214) 238-5591

Submitted by Name: <u>Halliburton Resource Mgmt</u> Address: <u>P.O. Box 280</u> <u>1129 U.S. Hwy 550</u> Contact: <u>FLORA VISTA N.M. 87415</u> Phone: <u>Bill, 505 334-6713</u>					Bill to Name: <u>SAME</u> Address: _____ Contact: _____ Phone: _____					<div style="text-align: center;">ORIGINAL VOLATILES</div> <div style="transform: rotate(-45deg); position: absolute; top: 10px; left: 10px;">VOC, PCB, TPH, METALS TCLP AS BA, Cd, Cr, Pb, Hg, RCRA-8</div>									
Proj. No.		Project Name <u>SAMPLE: WASHBAY SUMP.</u>																	
Sample Collection Date <u>10-5-92</u>								No. of Containers											
Sta. No.	Date	Time	Comp	Grab	Identifying Marks	No. of Containers		Remarks											
	<u>10/5</u>	<u>9:00</u>		<u>X</u>	<u>PLEASE test FOR:</u> <u>VOC, PCB, TPH, METALS TCLP</u>  <u>1 SAMPLE, 3 Containers</u>	<u>3</u>	<u>11182</u>  <u>DUE 10/16/92</u>												
Relinquished by: (Signature) <u>Bill Wharton</u>			Received by: (Signature) <u>[Signature]</u>			Date: <u>10-6-92</u> Time: <u>10:00</u>		Remarks <u>PLEASE FAX RESULTS AS SOON AS POSSIBLE</u>  <u>505-334-7547 (NORMAL TAT PER</u> <u>RECEIVED 2 (am) ONLY! (BILL WHARTON)</u>											
Relinquished by: (Signature)			Received by: (Signature)			Date: _____ Time: _____													
Relinquished by: (Signature)			Received by: (Signature)			Date: _____ Time: _____													



# NDRC LABORATORIES, INC.

A member of Inchcape Environmental

1089 East Collins Blvd., Richardson, Texas 75081 • (214) 238-5591 • FAX (214) 238-5592

BEAUMONT

DALLAS

HOUSTON

DATE RECEIVED : 6-OCT-1992

REPORT NUMBER : D92-11182-1

REPORT DATE : 23-OCT-1992

SAMPLE SUBMITTED BY : Halliburton Resource Management  
ADDRESS : P.O. Box 280 - 1129 U.S. Hwy 550  
: Flora Vista, NM 87415  
ATTENTION : Mr. Bill Wharton

SAMPLE MATRIX : Soil  
ID MARKS : Washbay Sump  
DATE SAMPLED : 5-OCT-1992

MISCELLANEOUS ANALYSES		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Total Solids	0.01 %	58.3 %
Analyzed using EPA 160.3 on 12-OCT-1992 by BWB		

NDRC Laboratories, Inc.

*David R. Godwin* ✓ 2  
David R. Godwin, Ph.D.  
Chief Executive Officer



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BEAUMONT

DALLAS

HOUSTON

REPORT NUMBER : D92-11182-1

PAGE 2

TCLP METALS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Lead	0.02 mg/L	0.25 mg/L
Dilution Factor : 1 Prepared using EPA 3010 on 11-OCT-1992 by TAP Analyzed using EPA 6010 on 13-OCT-1992 by KJS		

NDRC Laboratories, Inc.

*David R. Godwin* ✓ 2  
\_\_\_\_\_  
David R. Godwin, Ph.D.  
Chief Executive Officer



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BEAUMONT

DALLAS

HOUSTON

DATE RECEIVED : 6-OCT-1992

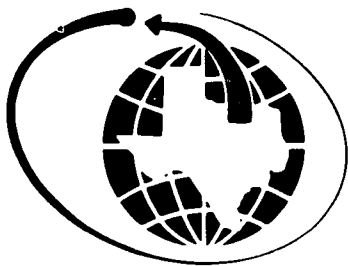
REPORT NUMBER : D92-11182-1

REPORT DATE : 23-OCT-1992

SAMPLE SUBMITTED BY : Halliburton Resource Management  
ADDRESS : P.O. Box 280 - 1129 U.S. Hwy 550  
: Flora Vista, NM 87415  
ATTENTION : Mr. Bill Wharton

SAMPLE MATRIX : Soil  
ID MARKS : Washbay Sump  
DATE SAMPLED : 5-OCT-1992

TCLP METALS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Silver	0.01 mg/L	1.80 mg/L
Dilution Factor : 1 Prepared using EPA 7760 on 11-OCT-1992 by TAP Analyzed using EPA 6010 on 13-OCT-1992 by KJS		
Arsenic	0.05 mg/L	< 0.05 mg/L
Dilution Factor : 1 Prepared using EPA 3010 on 11-OCT-1992 by TAP Analyzed using EPA 6010 on 13-OCT-1992 by KJS		
Barium	0.1 mg/L	2.4 mg/L
Dilution Factor : 1 Prepared using EPA 3010 on 11-OCT-1992 by TAP Analyzed using EPA 6010 on 13-OCT-1992 by KJS		
Cadmium	0.01 mg/L	< 0.01 mg/L
Dilution Factor : 1 Prepared using EPA 3010 on 11-OCT-1992 by TAP Analyzed using EPA 6010 on 13-OCT-1992 by KJS		
Chromium	0.05 mg/L	< 0.05 mg/L
Dilution Factor : 1 Prepared using EPA 3010 on 11-OCT-1992 by TAP Analyzed using EPA 6010 on 13-OCT-1992 by KJS		
Mercury	0.001 mg/L	< 0.001 mg/L
Dilution Factor : 1 Prepared using EPA 7470 on 11-OCT-1992 by TAP Analyzed using EPA 7470 on 13-OCT-1992 by AH		



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BEAUMONT

DALLAS

HOUSTON

DATE RECEIVED : 6-OCT-1992

REPORT NUMBER : D92-11182-1

REPORT DATE : 23-OCT-1992

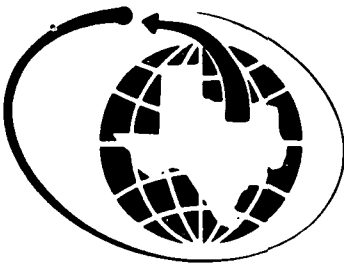
SAMPLE SUBMITTED BY : Halliburton Resource Management  
ADDRESS : P.O. Box 280 - 1129 U.S. Hwy 550  
: Flora Vista, NM 87415  
ATTENTION : Mr. Bill Wharton

SAMPLE MATRIX : Soil  
ID MARKS : Washbay Sump  
DATE SAMPLED : 5-OCT-1992  
ANALYZED BY : JKA  
ANALYZED ON : 16-OCT-1992

TENTATIVELY IDENTIFIED COMPOUNDS			
COMPOUND	RETENTION TIME	FRACTION	RESULT
Limonene	21.20	VOA	9500 $\mu\text{g/Kg}$
Nonane	17.88	VOA	50 $\mu\text{g/Kg}$
Dimethyloctatriene	19.09	VOA	60 $\mu\text{g/Kg}$
Decane	20.16	VOA	220 $\mu\text{g/Kg}$
Trimethylbenzene	20.75	VOA	130 $\mu\text{g/Kg}$
Diethylbenzene	21.92	VOA	50 $\mu\text{g/Kg}$
Undecane	22.14	VOA	210 $\mu\text{g/Kg}$
Dodecane	23.94	VOA	55 $\mu\text{g/Kg}$
1-Methyl-2-(1-methylethyl)-benzene	22.37	VOA	70 $\mu\text{g/Kg}$

NDRC Laboratories, Inc.

*David R. Godwin* ✓ 2  
David R. Godwin, Ph.D.  
Chief Executive Officer



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BEAUMONT

DALLAS

HOUSTON

DATE RECEIVED : 6-OCT-1992

REPORT NUMBER : D92-11182-1

REPORT DATE : 23-OCT-1992

SAMPLE SUBMITTED BY : Halliburton Resource Management  
ADDRESS : P.O. Box 280 - 1129 U.S. Hwy 550  
: Flora Vista, NM 87415  
ATTENTION : Mr. Bill Wharton

SAMPLE MATRIX : Soil  
ID MARKS : Washbay Sump  
DATE SAMPLED : 5-OCT-1992  
ANALYSIS METHOD : EPA 418.1  
ANALYZED BY : MTR  
ANALYZED ON : 16-OCT-1992  
DILUTION FACTOR : 1

TOTAL RECOVERABLE PETROLEUM HYDROCARBON		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Total Petroleum Hydrocarbon	10 mg/Kg	630 mg/Kg

NDRC Laboratories, Inc.

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David R. Godwin, Ph.D.  
Chief Executive Officer



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DALLAS

HOUSTON

DATE RECEIVED : 6-OCT-1992

REPORT NUMBER : D92-11182-1  
REPORT DATE : 23-OCT-1992

SAMPLE SUBMITTED BY : Halliburton Resource Management  
ADDRESS : P.O. Box 280 - 1129 U.S. Hwy 550  
: Flora Vista, NM 87415  
ATTENTION : Mr. Bill Wharton

SAMPLE MATRIX : Soil  
ID MARKS : Washbay Sump  
DATE SAMPLED : 5-OCT-1992  
PREPARATION METHOD : EPA 608  
PREPARED BY : TAP  
PREPARED ON : 7-OCT-1992  
ANALYSIS METHOD : EPA 8080  
ANALYZED BY : PJR  
ANALYZED ON : 13-OCT-1992  
DILUTION FACTOR : 1

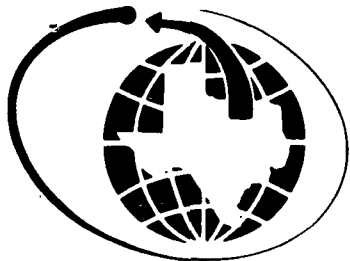
POLYCHLORINATED BIPHENYLS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Aroclor 1016	0.1 mg/Kg	< 0.1 mg/Kg
Aroclor 1221	0.1 mg/Kg	< 0.1 mg/Kg
Aroclor 1232	0.1 mg/Kg	< 0.1 mg/Kg
Aroclor 1242	0.1 mg/Kg	< 0.1 mg/Kg
Aroclor 1248	0.1 mg/Kg	< 0.1 mg/Kg
Aroclor 1254	0.1 mg/Kg	< 0.1 mg/Kg
Aroclor 1260	0.1 mg/Kg	< 0.1 mg/Kg

QUALITY CONTROL DATA		
SURROGATE COMPOUND	SPIKE LEVEL	SPIKE RECOVERED
Decachlorobiphenyl (SS)	1.0 µg/Kg	100 %
2,4,5,6-Tetrachloro-m-xylene (SS)	1.0 µg/Kg	87.1 %

NDRC Laboratories, Inc.

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Chief Executive Officer





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BEAUMONT

DALLAS

HOUSTON

REPORT NUMBER : D92-11182-1  
ANALYSIS METHOD : EPA 8240

PAGE 2

VOLATILE ORGANICS				
TEST REQUESTED	DETECTION LIMIT		RESULTS	
cis-1,3-Dichloropropene	25.0	µg/Kg	<	25.0 µg/Kg
Trichloroethene	25.0	µg/Kg	<	25.0 µg/Kg
Chlorodibromomethane	25.0	µg/Kg	<	25.0 µg/Kg
1,1,2-Trichloroethane	25.0	µg/Kg	<	25.0 µg/Kg
Benzene	25.0	µg/Kg	<	25.0 µg/Kg
trans-1,3-Dichloropropene	25.0	µg/Kg	<	25.0 µg/Kg
Bromoform	25.0	µg/Kg	<	25.0 µg/Kg
2-Chloroethylvinyl ether	50.0	µg/Kg	<	50.0 µg/Kg
4-Methyl-2-pentanone	250	µg/Kg	<	250 µg/Kg
2-Hexanone	250	µg/Kg	<	250 µg/Kg
Tetrachloroethene	25.0	µg/Kg	<	25.0 µg/Kg
Toluene	25.0	µg/Kg	<	25.0 µg/Kg
1,1,2,2-Tetrachloroethane	25.0	µg/Kg	<	25.0 µg/Kg
Chlorobenzene	25.0	µg/Kg	<	25.0 µg/Kg
Ethylbenzene	25.0	µg/Kg	<	25.0 µg/Kg
Styrene	25.0	µg/Kg	<	25.0 µg/Kg
Xylenes	25.0	µg/Kg	<	25.0 µg/Kg

QUALITY CONTROL DATA			
SURROGATE COMPOUND	SPIKE LEVEL		SPIKE RECOVERED
1,2-Dichloroethane-d4 (SS)	50.0	µg/Kg	102 %
Toluene-d8 (SS)	50.0	µg/Kg	101 %
Bromofluorobenzene (SS)	50.0	µg/Kg	99.7 %

NDRC Laboratories, Inc.

*David R. Godwin* ✓ 2  
David R. Godwin, Ph.D.  
Chief Executive Officer



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BEAUMONT

DALLAS

HOUSTON

DATE RECEIVED : 6-OCT-1992

REPORT NUMBER : D92-11182-1

REPORT DATE : 23-OCT-1992

SAMPLE SUBMITTED BY : Halliburton Resource Management  
ADDRESS : P.O. Box 280 - 1129 U.S. Hwy 550  
: Flora Vista, NM 87415  
ATTENTION : Mr. Bill Wharton

SAMPLE MATRIX : Soil  
ID MARKS : Washbay Sump  
DATE SAMPLED : 5-OCT-1992  
ANALYSIS METHOD : EPA 8240  
ANALYZED BY : JKA  
ANALYZED ON : 16-OCT-1992  
DILUTION FACTOR : 5

VOLATILE ORGANICS		
TEST REQUESTED	DETECTION LIMIT	RESULTS
Chloromethane	50.0 µg/Kg	< 50.0 µg/Kg
Bromomethane	50.0 µg/Kg	< 50.0 µg/Kg
Vinyl chloride	50.0 µg/Kg	< 50.0 µg/Kg
Chloroethane	50.0 µg/Kg	< 50.0 µg/Kg
Methylene chloride	25.0 µg/Kg	< 25.0 µg/Kg
Acetone	500 µg/Kg	< 500 µg/Kg
Carbon disulfide	25.0 µg/Kg	< 25.0 µg/Kg
1,1-Dichloroethene	25.0 µg/Kg	< 25.0 µg/Kg
1,1-Dichloroethane	25.0 µg/Kg	< 25.0 µg/Kg
1,2-Dichloroethene	25.0 µg/Kg	< 25.0 µg/Kg
Chloroform	25.0 µg/Kg	32.7 µg/Kg
1,2-Dichloroethane	25.0 µg/Kg	< 25.0 µg/Kg
2-Butanone	250 µg/Kg	< 250 µg/Kg
1,1,1-Trichloroethane	25.0 µg/Kg	< 25.0 µg/Kg
Carbon tetrachloride	25.0 µg/Kg	< 25.0 µg/Kg
Vinyl acetate	250 µg/Kg	< 250 µg/Kg
Bromodichloromethane	25.0 µg/Kg	< 25.0 µg/Kg
1,2-Dichloropropane	25.0 µg/Kg	< 25.0 µg/Kg

# ENVIROTECH INC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

5796 U.S. HIGHWAY 64 - 3014  
FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615

December 3, 1992

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

RE: 550 Station, Kirtland  
Hydrocarbon Contaminated Soil

Project No. 92266

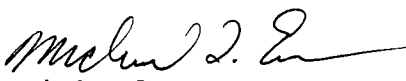
Dear Mr. Foust:

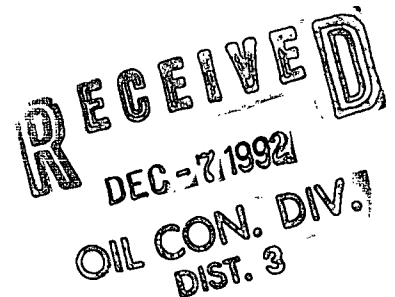
Envirotech, Inc. request authorization to receive hydrocarbon contaminated soil from a underground storage tank spill incident at the 550 Station, located at 4191 US HWY 64, Kirtland, New Mexico.

The spill was reportedly unleaded gasoline that had leaked from perforated underground storage tanks at the subject location.

Thank you for your assistance in this matter.

Respectfully submitted,  
ENVIROTECH, Inc.

  
Michael T. Eason  
Hydrogeologist



Attachments:  
Certification of Waste Status

MTE/mte

2266S11.LET

*Verbal authorization given by Mr. Denny Foust, of the NMOC, to receive the subject soils on 12-2-92. Soils are to be received at Enve Soil Remediation Facility #2. MTE 12-3-92*

*LG7*

# ENVIROTECH INC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

5796 U.S. HIGHWAY 64 - 3014  
FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615

## Certification of Waste Status

Originating location SSO STATION, 4181 US HWY 64, Kirtland

Disposal Location: Envirotech Soil Remediation Site, Hilltop, NM

"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by EPA's July 1988 Regulatory Determination and that non-exempt waste that is a "hazardous waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the exempt waste in such a manner so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Section 261.3(b)."

Signature Len Murray

Name, Date 12-1-92

Company NMED / USTB

Address 724 W. Arizans

# ENVIROTECH INC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

5796 U.S. HIGHWAY 64 - 3014  
FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615

## Certification of Waste Status

Originating location SSO STATION 4191 US HWY 64, KIRTLAND, NM

Disposal Location: Envirotech Soil Remediation Site, Hilltop, NM

"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by EPA's July 1988 Regulatory Determination and that non-exempt waste that is a "hazardous waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the exempt waste in such a manner so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Section 261.3(b)."

Signature *Friada Davidson*

Name, Date FRIADA DAVIDSON 1/2-1-92

Company SSO STORE

Address 301 WEST MAIN, FARMINGTON, NM

# ENVIROTECH NC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

5796 U.S. HIGHWAY 64 - 3014  
FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615

November 23, 1992

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

RE: Mesa Airline  
Contaminated Soil  
TCPL Analysis

Project No. 91332

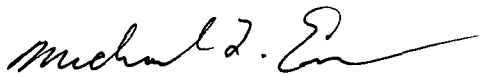
Dear Mr. Foust:

Envirotech, Inc. requests authorization to receive soil from the excavation of the hydrocarbon contaminated soils from the Mesa Airline UST Site, Farmington, New Mexico.

The spill reportedly consisted of Jet Fuel. Therefor; we have had a TCLP analysis completed, without the pesticides and herbicides, on the contaminated soil removed from the spill.

The attached laboratory analysis show that the concentration of the TCLP target constituents are all below the RCRA regulatory levels for hazardous waste. Therefor the contaminated soils are classified as non-hazardous per RCRA (40CFR 261).

Respectfully submitted,  
ENVIROTECH, Inc.

  
Michael T. Eason  
Hydrogeologist

*Received verbal authorization to receive  
soils from Mr. Denny Foust of nmoco,  
on 11-24-92. MTE 11-24-92*

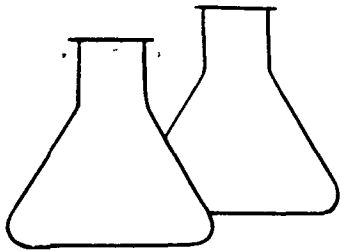
*D27*

Attachments:  
Laboratory Results  
Chain-of-custody

MTE/mte

1332TCL1.LET

**RECEIVED**  
NOV 30 1992  
OIL CON. DIV.  
DIST. 3



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHODS 8010/8020 AROMATIC VOLATILE ORGANICS/HALOGENATED VOLATILE ORGANICS

Client:	Mesa Airlines	Project #:	91332
Sample ID:	Mech. Shop	Date Reported:	11-19-92
Laboratory Number:	0932	Date Sampled:	11-03-92
Sample Matrix:	Soil	Date Received:	11-04-92
Preservative:	Cool	Date Extracted:	11-09-92
Condition:	Cool and Intact	Date Analyzed:	11-17-92
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.005	0.2
1,1-Dichloroethene	ND	0.006	0.7
Benzene	ND	0.009	0.5
Chloroform and 1,2-Dichloroethene	ND	0.005	0.5
2-Butanone	ND	0.006	200
Carbon Tetrachloride	ND	0.005	0.5
Trichloroethene	ND	0.005	0.5
Tetrachloroethene	0.008	0.007	0.7
Chlorobenzene	ND	0.005	100
1,4-Dichlorobenzene	ND	0.005	7.5

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	107 %
	Bromfluorobenzene	97 %

Method: Method 1311, Toxicity Characteristic Leaching Procedure  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986

Method 5030, Purge-and-Trap, Test Methods for Evaluating  
Solid Waste, SW-846, USEPA, Sept. 1986

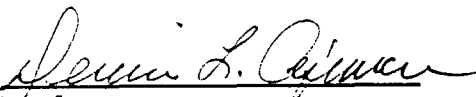
Method 8010, Halogenated Volatile Organics, Test Methods  
for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

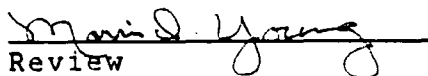
Method 8020, Aromatic Volatile Organics, Test Methods for  
Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

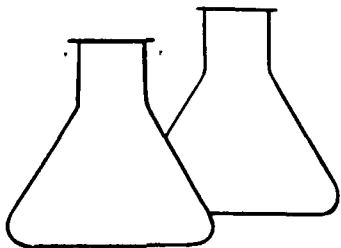
Regulatory Limits based on 40 CFR part 261 subpart C  
section 261.24, July 1, 1990

ND - Parameter not detected at the stated detection limit.

Comments: Mechanics Shop Catchment Solids, Farmington Airport

  
Analyst

  
Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 8040 PHENOLS

Client:	Mesa Airlines	Project #:	91332
Sample ID:	Mech. Shop	Date Reported:	11-19-92
Laboratory Number:	0932	Date Sampled:	11-03-92
Sample Matrix:	Soil	Date Received:	11-04-92
Preservative:	Cool	Date Extracted:	11-09-92
Condition:	Cool & Intact	Date Analyzed:	11-17-92
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	ND	0.020	200.0
p,m-Cresol	ND	0.040	200.0
2,4,6-Trichlorophenol	ND	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	2.0
Pentachlorophenol	ND	0.020	100.0

Method: Method 1311, Toxicity Characteristic Leaching Procedure  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.

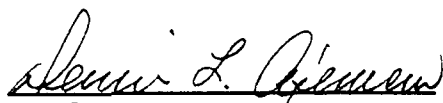
Method 3510, Separatory Funnel Liquid-Liquid Extraction,  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.


Method 8040, Phenols, Test Methods for Evaluating Solid  
Waste, SW-846, USEPA, Sept. 1986.

Regulatory Limits based on 40 CFR part 261 subpart C  
section 261.24, July 1, 1990

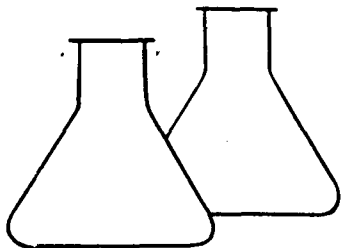
ND - Parameter not detected at the stated detection limit.

Comments: Mechanics Shop Catchment Solids, Farmington Airport

  
Analyst

  
Review





# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 8090 NITROAROMATICS AND CYCLIC KETONES

Client:	Mesa Airlines	Project #:	91332
Sample ID:	Mech. Shop	Date Reported:	11-16-92
Laboratory Number:	0932	Date Sampled:	11-03-92
Sample Matrix:	Soil	Date Received:	11-03-92
Preservative:	Cool	Date Extracted:	11-09-92
Condition:	Cool and Intact	Date Analyzed:	11-16-92
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	5.0
Nitrobenzene	ND	0.020	5.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

Method: Method 1311, Toxicity Characteristic Leaching Procedure  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.

Method 3510, Separatory Funnel Liquid-Liquid Extraction,  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.

Method 8090, Nitroaromatics and Cyclic Ketones,  
Test Methods for Evaluating Solid Waste, SW-846,  
USEPA, Sept. 1986

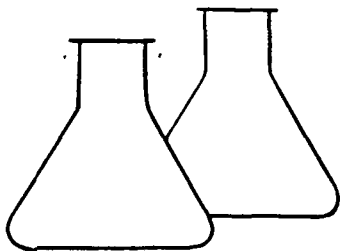
Regulatory Limits based on 40 CFR part 261 subpart C  
section 261.24, July 1, 1990

ND - Parameter not detected at the stated detection limit.

Comments: Mechanics Shop Catchment Solids - Farmington Airport

Louis L. Gienow  
Analyst

Garrett Young  
Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS

Client:	Mesa Airlines	Project #:	91332
Sample ID:	Mechanics Shop	Date Reported:	11-16-92
Laboratory Number:	0932	Date Sampled:	11-03-92
Sample Matrix:	Soil	Date Received:	11-04-92
Preservative:	Cool	Date Analyzed:	11-16-92
Condition:	Cool & Intact	Date Extracted:	11-09-92
		Analysis Needed:	TCLP metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
ARSENIC	0.001	0.001	5.000
BARIUM	0.4	0.1	100.0
CADMIUM	ND	0.001	1.000
CHROMIUM	0.054	0.001	5.000
LEAD	0.060	0.001	5.000
MERCURY	ND	0.002	0.200
SELENIUM	ND	0.001	1.000
SILVER	ND	0.01	5.00

Method: Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, Sept. 1986


Methods 7060A, 7080A, 7131A, 7191, 7470A, 7421, 7740, 7760A  
Analysis of Metals by GFAA and FLAA, SW-846, USEPA

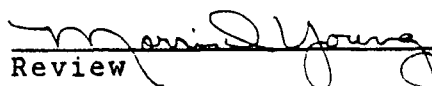
Method 1311, Toxicity Characteristic Leaching Procedure  
SW-846, USEPA, Nov. 1990

Regulatory Limits based on 40 CFR part 261 subpart C  
section 261.24, July 1, 1990

ND - Parameter not detected at the stated detection limit.

Comments: Airport, Farmington, Mechanics shop catchment solids

  
Analyst

  
Review

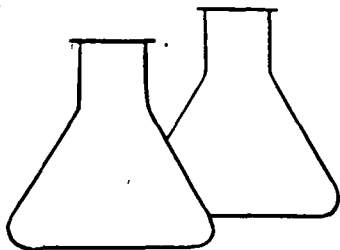
ENVIROTECH LABORATORIES

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5796 U.S. HIGHWAY 64-3014  
FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615

QUALITY ASSURANCE/QUALITY CONTROL

DOCUMENTATION



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHODS 8010/8020 AROMATIC VOLATILE ORGANICS/HALOGENATED VOLATILE ORGANICS

Client:	NA	Project #:	NA
Sample ID:	Lab Blank	Date Reported:	11-19-92
Laboratory Number:	TDV-1116-blk	Date Sampled:	NA
Sample Matrix:	Water	Date Received:	NA
Preservative:	NA	Date Analyzed:	11-17-92
Condition:	NA	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.005	0.2
1,1-Dichloroethene	ND	0.006	0.7
Benzene	ND	0.009	0.5
Chloroform and 1,2-Dichloroethene	ND	0.005	0.5
2-Butanone	ND	0.006	200
Carbon Tetrachloride	ND	0.005	0.5
Trichloroethene	ND	0.005	0.5
Tetrachloroethene	ND	0.007	0.7
Chlorobenzene	ND	0.005	100
1,4-Dichlorobenzene	ND	0.005	7.5

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	89.8 %
	Bromfluorobenzene	99.9 %

Method: Method 1311, Toxicity Characteristic Leaching Procedure  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986

Method 5030, Purge-and-Trap, Test Methods for Evaluating  
Solid Waste, SW-846, USEPA, Sept. 1986

Method 8010, Halogenated Volatile Organics, Test Methods  
for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

Method 8020, Aromatic Volatile Organics, Test Methods for  
Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

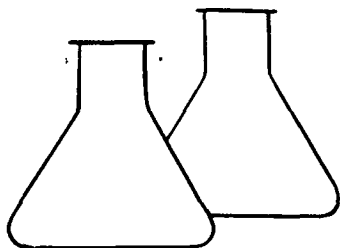
Regulatory Limits based on 40 CFR part 261 Subpart C  
section 261.24, July 1, 1990

ND - Parameter not detected at the stated detection limit.

Comments:

*David L. Pinner*  
Analyst

*Marisa Young*  
Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401

PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 8040

### PHENOLS

Client:	NA	Project #:	NA
Sample ID:	Laboratory Blank	Date Reported:	11-19-92
Laboratory Number:	LB-1117-TCA	Date Sampled:	NA
Sample Matrix:	2-Propanol	Date Received:	NA
Preservative:	NA	Date Analyzed:	11-17-92
Condition:	NA	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	ND	0.020	200.0
p,m-Cresol	ND	0.040	200.0
2,4,6-Trichlorophenol	ND	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	2.0
Pentachlorophenol	ND	0.020	100.0

Method: Method 1311, Toxicity Characteristic Leaching Procedure  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.

Method 3510, Separatory Funnel Liquid-Liquid Extraction,  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.

Method 8040, Phenols, Test Methods for Evaluating Solid  
Waste, SW-846, USEPA, Sept. 1986.

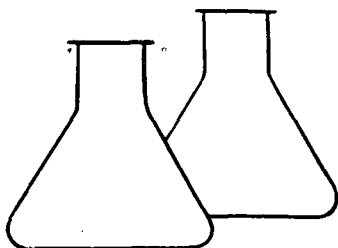
Regulatory Limits based on 40 CFR part 261 subpart C  
section 261.24, July 1, 1990

ND - Parameter not detected at the stated detection limit.

Comments:

Kevin L. Jensen  
Analyst

M. David Young  
Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 8090 NITROAROMATICS AND CYCLIC KETONES

Client:	NA	Project #:	NA
Sample ID:	Laboratory Blank	Date Reported:	11-17-92
Laboratory Number:	BN-LB-11-16	Date Sampled:	NA
Sample Matrix:	Hexane	Date Received:	NA
Preservative:	NA	Date Extracted:	NA
Condition:	NA	Date Analyzed:	11-16-92
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	5.0
Nitrobenzene	ND	0.020	5.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

Method: Method 1311, Toxicity Characteristic Leaching Procedure  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.

Method 3510, Separatory Funnel Liquid-Liquid Extraction,  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.

Method 8090, Nitroaromatics and Cyclic Ketones,  
Test Methods for Evaluating Solid Waste, SW-846,  
USEPA, Sept. 1986

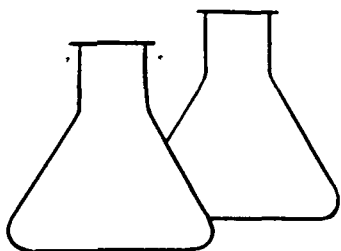
Regulatory Limits based on 40 CFR part 261 subpart C  
section 261.24, July 1, 1990

ND - Parameter not detected at the stated detection limit.

Comments:

Kevin L. Givner  
Analyst

Maris D. Young  
Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 1311  
TOXICITY CHARACTERISTIC LEACHING PROCEDURE  
TRACE METAL ANALYSIS - BLANKS

Client:	NA	Project #:	NA
Sample ID:	Blanks	Date Reported:	11-16-92
Laboratory Number:	NA	Date Sampled:	NA
Sample Matrix:	TCLP Extract	Date Received:	NA
Analysis Requested:	TCLP	Date Analyzed:	11-16-92
Condition:	NA	Date Extracted:	NA

Parameter	Instrument Blank (mg/L)	Extraction Sol. Blank (mg/L)	Det. Limit (mg/L)
ARSENIC	ND	ND	0.001
BARIUM	ND	ND	0.1
CADMIUM	ND	ND	0.001
CHROMIUM	ND	ND	0.001
LEAD	ND	ND	0.001
MERCURY	ND	ND	0.002
SELENIUM	ND	ND	0.001
SILVER	ND	ND	0.01

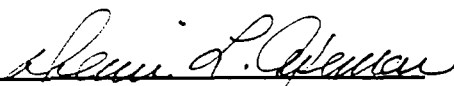
Method: Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, Sept. 1986


Methods 7060A, 7080A, 7131A, 7191, 7470A, 7421, 7740, 7760A  
Analysis of Metals by GFAA and FLAA, SW-846, USEPA

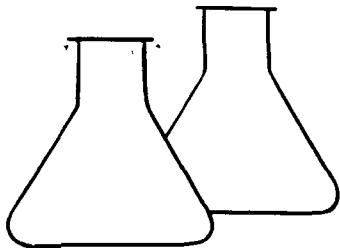
Method 1311, Toxicity Characteristic Leaching Procedure  
SW-846, USEPA, Nov. 1990

ND - Parameter not detected at the stated detection limit.

Comments:

  
Analyst

  
Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

QUALITY ASSURANCE REPORT  
EPA METHOD 1311  
TOXICITY CHARACTERISTIC LEACHING PROCEDURE  
TRACE METAL ANALYSIS - MATRIX SPIKE

Client:	NA	Project #:	NA
Sample ID:	NA	Date Reported:	11-16-92
Laboratory Number:	NA	Date Sampled:	NA
Sample Matrix:	TCLP Extract	Date Received:	NA
Analysis Requested:	TCLP	Date Analyzed:	11-16-92
Condition:	NA	Date Extracted:	NA

Parameter	Spike Added (mg/L)	Sample Result (mg/L)	Spiked Sample Result (mg/L)	Percent Recovery
ARSENIC	0.100	0.001	0.094	93.0
BARIUM	10.0	0.4	10.5	101.0
CADMIUM	0.100	ND	0.101	101.0
CHROMIUM	0.100	0.054	0.158	104.0
LEAD	0.100	0.060	0.152	92.0
MERCURY	0.025	ND	0.024	96.0
SELENIUM	0.100	ND	0.088	88.0
SILVER	1.00	ND	0.98	98.0

QA ACCEPTANCE CRITERIA:	Parameter	Acceptance Range %
	TCLP Metals	80 - 120

Method: Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, Sept. 1986

Methods 7060A, 7080A, 7131A, 7191, 7470A, 7421, 7740, 7760A  
Analysis of Metals by GFAA and FLAA, SW-846, USEPA

Method 1311, Toxicity Characteristic Leaching Procedure  
SW-846, USEPA, Nov. 1990

ND - Parameter not detected at the stated detection limit.

Comments:

Kevin L. O'Brien  
Analyst

Marion D. Young  
Review



## CHAIN OF CUSTODY RECORD

Client/Project Name <b>91332</b> <b>MESA AIRLINES</b>			Project Location <b>AIRPORT - FARMINGTON</b>		ANALYSIS/PARAMETERS							
Sampler: (Signature)			Chain of Custody Tape No.		No. of Containers <b>1</b>	TCLP (NO HERB or PEST)						Remarks
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix								
<b>MECHANICS</b>	<b>10/3/92</b>	<b>10:32</b>		<b>Soil</b>								
<b>SHOP CATCHMENT</b>												
<b>Solids</b>												
Relinquished by: (Signature) <b>Morris D Young</b>			Date <b>11/4/92</b>	Time <b>15:45</b>	Received by: (Signature) <b>Tony Tustaw</b>						Date <b>11/4/92</b>	Time <b>1600</b>
Relinquished by: (Signature)					Received by: (Signature)							
Relinquished by: (Signature)					Received by: (Signature)							
<p align="center"><b>ENVIROTECH INC.</b>  5796 U.S. Highway 64-3014  Farmington, New Mexico 87401  (505) 632-0615</p>												

\_\_\_\_\_

# Bill of Lading

91332

MONTH OF

May

1586  
9.2 ✓

[illegible]

# ENVIROTECH INC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

5796 U.S. HIGHWAY 64 - 3014  
FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615

November 23, 1992

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

RE: Bond & Bond  
Contaminated Soil  
TCPL Analysis

RECEIVED  
NOV 30 1992  
OIL CON. DIV.  
DIST. 3

Project No. 92134

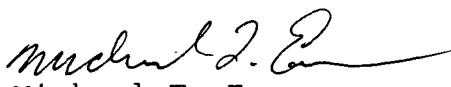
Dear Mr. Foust:

Envirotech, Inc. requests authorization to receive soil from the excavation of the Used Oil UST from the Bond & Bond Service Station Site, located at U.S Highway 666, Shiprock, New Mexico.

The spill reportedly consisted of used motor oil. Therefor; we have had a TCLP analysis completed, without the pesticides and herbicides, on the contaminated soil removed from the spill.

The attached laboratory analysis show that the concentration of the TCLP target constituents are all below the RCRA regulatory levels for hazardous waste. Therefor the contaminated soils are classified as non-hazardous per RCRA (40CFR 261).

Respectfully submitted,  
ENVIROTECH, Inc.

  
Michael T. Eason  
Hydrogeologist

cc: Mr. Charles Foutz

Attachments:

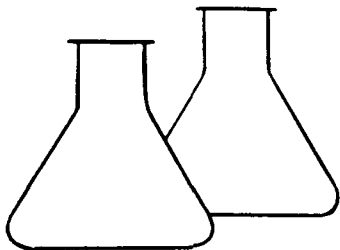
Laboratory Results  
Chain-of-custody

MTE/mte

*Received verbal authorization to receive  
soils from Mr. Denny Foust of NM OCO on  
11-24-92. MTE 11-24-92*

*DS7*

2134TCL1.LET



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHODS 8010/8020 AROMATIC VOLATILE ORGANICS/HALOGENATED VOLATILE ORGANICS

Client:	Bond & Bond	Project #:	92134
Sample ID:	Bond & Bond	Date Reported:	11-19-92
Laboratory Number:	3669	Date Sampled:	10-28-92
Sample Matrix:	Soil	Date Received:	10-28-92
Preservative:	Cool	Date Extracted:	11-09-92
Condition:	Cool and Intact	Date Analyzed:	11-17-92
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.005	0.2
1,1-Dichloroethene	ND	0.006	0.7
Benzene	ND	0.009	0.5
Chloroform and 1,2-Dichloroethene	ND	0.005	0.5
2-Butanone	ND	0.006	200
Carbon Tetrachloride	ND	0.005	0.5
Trichloroethene	ND	0.005	0.5
Tetrachloroethene	ND	0.007	0.7
Chlorobenzene	0.010	0.005	100
1,4-Dichlorobenzene	ND	0.005	7.5

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	117 %
	Bromfluorobenzene	92 %

Method: Method 1311, Toxicity Characteristic Leaching Procedure  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986

Method 5030, Purge-and-Trap, Test Methods for Evaluating  
Solid Waste, SW-846, USEPA, Sept. 1986

Method 8010, Halogenated Volatile Organics, Test Methods  
for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

Method 8020, Aromatic Volatile Organics, Test Methods for  
Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

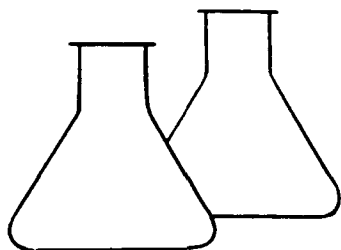
Regulatory Limits based on 40 CFR part 261 subpart C  
section 261.24, July 1, 1990

ND - Parameter not detected at the stated detection limit.

Comments: Land Farm Holding Area

*Shawn L. Brewer*  
Analyst

*Morris D. Young*  
Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401

PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 8040 PHENOLS

Client:	Bond & Bond	Project #:	92134
Sample ID:	Bond & Bond	Date Reported:	11-19-92
Laboratory Number:	3669	Date Sampled:	10-28-92
Sample Matrix:	Soil	Date Received:	10-28-92
Preservative:	Cool	Date Extracted:	11-09-92
Condition:	Cool & Intact	Date Analyzed:	11-17-92
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	ND	0.020	200.0
p,m-Cresol	ND	0.040	200.0
2,4,6-Trichlorophenol	ND	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	2.0
Pentachlorophenol	ND	0.020	100.0

Method: Method 1311, Toxicity Characteristic Leaching Procedure  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.

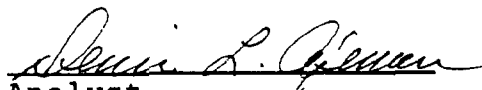
Method 3510, Separatory Funnel Liquid-Liquid Extraction,  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.


Method 8040, Phenols, Test Methods for Evaluating Solid  
Waste, SW-846, USEPA, Sept. 1986.

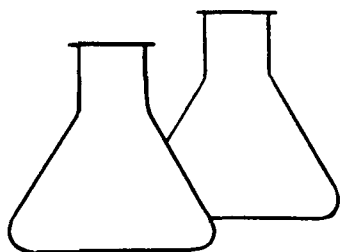
Regulatory Limits based on 40 CFR part 261 subpart C  
section 261.24, July 1, 1990

ND - Parameter not detected at the stated detection limit.

Comments: Land Farm Holding Area

  
Analyst

  
Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401

PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 8090 NITROAROMATICS AND CYCLIC KETONES

Client:	Bond & Bond	Project #:	92134
Sample ID:	Bond & Bond	Date Reported:	11-16-92
Laboratory Number:	3669	Date Sampled:	10-28-92
Sample Matrix:	Soil	Date Received:	10-28-92
Preservative:	Cool	Date Extracted:	11-09-92
Condition:	Cool and Intact	Date Analyzed:	11-16-92
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	5.0
Nitrobenzene	ND	0.020	5.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

Method: Method 1311, Toxicity Characteristic Leaching Procedure  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.

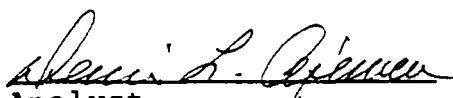
Method 3510, Separatory Funnel Liquid-Liquid Extraction,  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.

Method 8090, Nitroaromatics and Cyclic Ketones,  
Test Methods for Evaluating Solid Waste, SW-846,  
USEPA, Sept. 1986

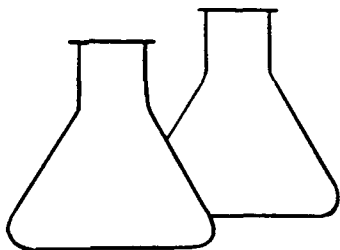
Regulatory Limits based on 40 CFR part 261 subpart C  
section 261.24, July 1, 1990

ND - Parameter not detected at the stated detection limit.

Comments: Land Farm Holding Area

  
Analyst

  
Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS

Client:	Bond & Bond Service Station	Project #:	92134
Sample ID:	Bond & Bond	Date Reported:	11-16-92
Laboratory Number:	3669	Date Sampled:	10-28-92
Sample Matrix:	Soil	Date Received:	10-28-92
Preservative:	Cool	Date Analyzed:	11-16-92
Condition:	Cool & Intact	Date Extracted:	11-09-92
		Analysis Needed:	TCLP metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
ARSENIC	0.002	0.001	5.000
BARIUM	ND	0.1	100.0
CADMIUM	ND	0.001	1.000
CHROMIUM	0.027	0.001	5.000
LEAD	0.039	0.001	5.000
MERCURY	ND	0.002	0.200
SELENIUM	ND	0.001	1.000
SILVER	ND	0.01	5.00

Method: Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, Sept. 1986


Methods 7060A, 7080A, 7131A, 7191, 7470A, 7421, 7740, 7760A  
Analysis of Metals by GFAA and FLAA, SW-846, USEPA

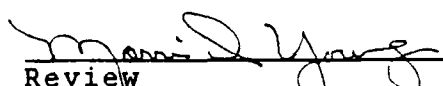
Method 1311, Toxicity Characteristic Leaching Procedure  
SW-846, USEPA, Nov. 1990

Regulatory Limits based on 40 CFR part 261 subpart C  
section 261.24, July 1, 1990

ND - Parameter not detected at the stated detection limit.

Comments: Bond & Bond, Land Farm Holding Area

  
Analyst

  
Review

ENVIROTECH LABORATORIES

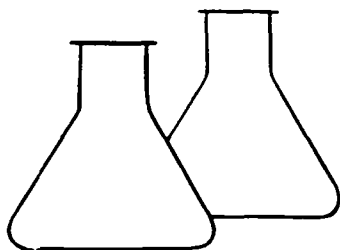
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5796 U.S. HIGHWAY 64-3014  
FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615

## QUALITY ASSURANCE/QUALITY CONTROL

### DOCUMENTATION





# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHODS 8010/8020 AROMATIC VOLATILE ORGANICS/HALOGENATED VOLATILE ORGANICS

Client:	NA	Project #:	NA
Sample ID:	Lab Blank	Date Reported:	11-19-92
Laboratory Number:	TDV-1116-blk	Date Sampled:	NA
Sample Matrix:	Water	Date Received:	NA
Preservative:	NA	Date Analyzed:	11-17-92
Condition:	NA	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.005	0.2
1,1-Dichloroethene	ND	0.006	0.7
Benzene	ND	0.009	0.5
Chloroform and 1,2-Dichloroethene	ND	0.005	0.5
2-Butanone	ND	0.006	200
Carbon Tetrachloride	ND	0.005	0.5
Trichloroethene	ND	0.005	0.5
Tetrachloroethene	ND	0.007	0.7
Chlorobenzene	ND	0.005	100
1,4-Dichlorobenzene	ND	0.005	7.5

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	89.8 %
	Bromfluorobenzene	99.9 %

Method: Method 1311, Toxicity Characteristic Leaching Procedure  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986

Method 5030, Purge-and-Trap, Test Methods for Evaluating  
Solid Waste, SW-846, USEPA, Sept. 1986

Method 8010, Halogenated Volatile Organics, Test Methods  
for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

Method 8020, Aromatic Volatile Organics, Test Methods for  
Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

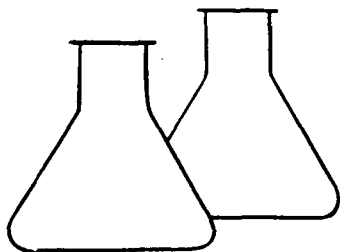
Regulatory Limits based on 40 CFR part 261 Subpart C  
section 261.24, July 1, 1990

ND - Parameter not detected at the stated detection limit.

Comments:

*Shawn L. Green*  
Analyst

*Morris D. Young*  
Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 8040 PHENOLS

Client:	NA	Project #:	NA
Sample ID:	Laboratory Blank	Date Reported:	11-19-92
Laboratory Number:	LB-1117-TCA	Date Sampled:	NA
Sample Matrix:	2-Propanol	Date Received:	NA
Preservative:	NA	Date Analyzed:	11-17-92
Condition:	NA	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	ND	0.020	200.0
p,m-Cresol	ND	0.040	200.0
2,4,6-Trichlorophenol	ND	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	2.0
Pentachlorophenol	ND	0.020	100.0

Method: Method 1311, Toxicity Characteristic Leaching Procedure  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.

Method 3510, Separatory Funnel Liquid-Liquid Extraction,  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.

Method 8040, Phenols, Test Methods for Evaluating Solid  
Waste, SW-846, USEPA, Sept. 1986.

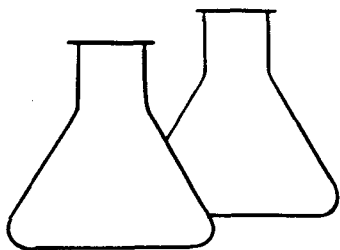
Regulatory Limits based on 40 CFR part 261 subpart C  
section 261.24, July 1, 1990

ND - Parameter not detected at the stated detection limit.

Comments:

Devin L. Hansen  
Analyst

Morris Young  
Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 8090 NITROAROMATICS AND CYCLIC KETONES

Client:	NA	Project #:	NA
Sample ID:	Laboratory Blank	Date Reported:	11-17-92
Laboratory Number:	BN-LB-11-16	Date Sampled:	NA
Sample Matrix:	Hexane	Date Received:	NA
Preservative:	NA	Date Extracted:	NA
Condition:	NA	Date Analyzed:	11-16-92
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	5.0
Nitrobenzene	ND	0.020	5.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

Method: Method 1311, Toxicity Characteristic Leaching Procedure  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.

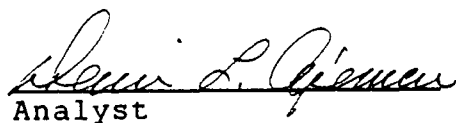
Method 3510, Separatory Funnel Liquid-Liquid Extraction,  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.

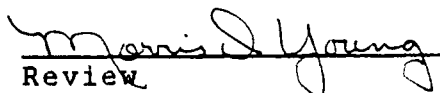
Method 8090, Nitroaromatics and Cyclic Ketones,  
Test Methods for Evaluating Solid Waste, SW-846,  
USEPA, Sept. 1986

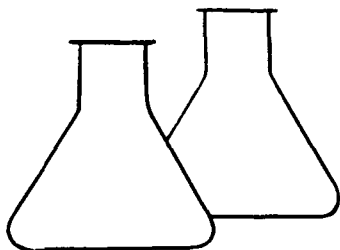
Regulatory Limits based on 40 CFR part 261 subpart C  
section 261.24, July 1, 1990

ND - Parameter not detected at the stated detection limit.

Comments:

  
Analyst

  
Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 1311  
TOXICITY CHARACTERISTIC LEACHING PROCEDURE  
TRACE METAL ANALYSIS - BLANKS

Client:	NA	Project #:	NA
Sample ID:	Blanks	Date Reported:	11-16-92
Laboratory Number:	NA	Date Sampled:	NA
Sample Matrix:	TCLP Extract	Date Received:	NA
Analysis Requested:	TCLP	Date Analyzed:	11-16-92
Condition:	NA	Date Extracted:	NA

Parameter	Instrument Blank (mg/L)	Extraction Sol. Blank (mg/L)	Det. Limit (mg/L)
ARSENIC	ND	ND	0.001
BARIUM	ND	ND	0.1
CADMIUM	ND	ND	0.001
CHROMIUM	ND	ND	0.001
LEAD	ND	ND	0.001
MERCURY	ND	ND	0.002
SELENIUM	ND	ND	0.001
SILVER	ND	ND	0.01

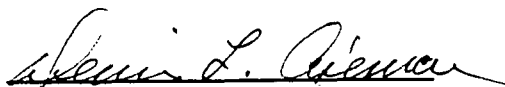
Method: Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, Sept. 1986

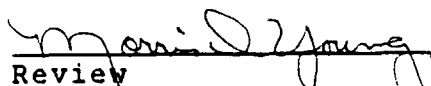
Methods 7060A, 7080A, 7131A, 7191, 7470A, 7421, 7740, 7760A  
Analysis of Metals by GFAA and FLAA, SW-846, USEPA

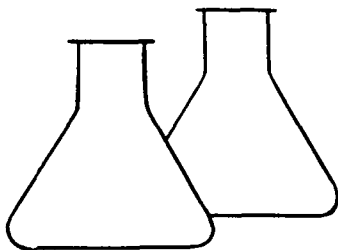
Method 1311, Toxicity Characteristic Leaching Procedure  
SW-846, USEPA, Nov. 1990

ND - Parameter not detected at the stated detection limit.

Comments:

  
Analyst

  
Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

QUALITY ASSURANCE REPORT  
EPA METHOD 1311  
TOXICITY CHARACTERISTIC LEACHING PROCEDURE  
TRACE METAL ANALYSIS - MATRIX SPIKE

Client:	NA	Project #:	NA
Sample ID:	NA	Date Reported:	11-16-92
Laboratory Number:	NA	Date Sampled:	NA
Sample Matrix:	TCLP Extract	Date Received:	NA
Analysis Requested:	TCLP	Date Analyzed:	11-16-92
Condition:	NA	Date Extracted:	NA

Parameter	Spike Added (mg/L)	Sample Result (mg/L)	Spiked Sample Result (mg/L)	Percent Recovery
ARSENIC	0.100	0.001	0.094	93.0
BARIUM	10.0	0.4	10.5	101.0
CADMIUM	0.100	ND	0.101	101.0
CHROMIUM	0.100	0.054	0.158	104.0
LEAD	0.100	0.060	0.152	92.0
MERCURY	0.025	ND	0.024	96.0
SELENIUM	0.100	ND	0.088	88.0
SILVER	1.00	ND	0.98	98.0

QA ACCEPTANCE CRITERIA:	Parameter	Acceptance Range %
	TCLP Metals	80 - 120

Method: Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, Sept. 1986

Methods 7060A, 7080A, 7131A, 7191, 7470A, 7421, 7740, 7760A  
Analysis of Metals by GFAA and FLAA, SW-846, USEPA

Method 1311, Toxicity Characteristic Leaching Procedure  
SW-846, USEPA, Nov. 1990

ND - Parameter not detected at the stated detection limit.

Comments:

Kevin L. Pinner  
Analyst

Morris D. Young  
Review

## CHAIN OF CUSTODY RECORD

Client/Project Name <i>BOND &amp; BOND 92134</i>			Project Location <i>LAND FARM HOLDING AREA</i>		ANALYSIS/PARAMETERS							
Sampler: (Signature) <i>Michael J. En</i>			Chain of Custody Tape No.		No. of Containers <i>1</i>	<i>TCLP</i>						Remarks <i>ASAP NO PEST OR HERB</i>
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix								
<i>BOND &amp; BOND</i>	<i>10-28-92</i>	<i>1545</i>	<i>3669</i>	<i>SOIL</i>								
Relinquished by: (Signature) <i>Michael J. En</i>			Date <i>10-28-92</i>	Time <i>1615</i>	Received by: (Signature) <i>Linda Pender</i>			Date <i>10-28-92</i>	Time <i>1615</i>			
Relinquished by: (Signature)					Received by: (Signature)							
Relinquished by: (Signature)					Received by: (Signature)							

**ENVIROTECH INC.**  
 5796 U.S. Highway 64-3014  
 Farmington, New Mexico 87401  
 (505) 632-0615

san juan repro Form 578-81

# ENVIROTECH INC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

5796 U.S. HIGHWAY 64 - 3014  
FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615

November 23, 1992

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

RE: Request to Receive  
Filter Service  
Wash Bay Sump Soil  
TCPL Analysis

RECEIVED  
NOV 30 1992  
OIL CON. DIV.  
DIST. 3

Project No. 92353


Dear Mr. Foust:

Envirotech, Inc. requests authorization to receive soil excavated from the wash bay sump located at the Filter Services Site, Farmington, New Mexico.

The sump had reportedly contained soils washed from vehicles used in the oil field. Therefore, we have had a TCLP analysis from a composite sample completed, without the pesticides and herbicides.

The attached laboratory analysis show that the concentration of the TCLP target constituents are all below the RCRA regulatory levels for hazardous waste. Therefore the contaminated soils are classified as non-hazardous per RCRA (40CFR 261).

Respectfully submitted,  
ENVIROTECH, Inc.

  
Michael T. Eason  
Hydrogeologist

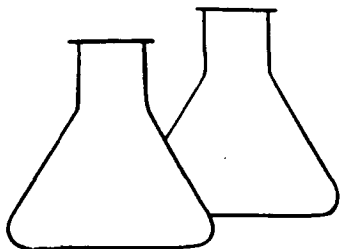
*Received verbal authorization to receive  
soils from Mr. Denny Foust on 11-24-92.  
MTE 11-24-92*

*JSF*

Attachments:  
Laboratory Results  
Chain-of-custody

MTE/mte

2153TCL1.LET



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHODS 8010/8020 AROMATIC VOLATILE ORGANICS/HALOGENATED VOLATILE ORGANICS

Client:	Filter Service	Project #:	92153
Sample ID:	Filter Service	Date Reported:	11-19-92
Laboratory Number:	3668	Date Sampled:	10-28-92
Sample Matrix:	Soil	Date Received:	10-28-92
Preservative:	Cool	Date Extracted:	11-09-92
Condition:	Cool and Intact	Date Analyzed:	11-17-92
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.005	0.2
1,1-Dichloroethene	ND	0.006	0.7
Benzene	ND	0.009	0.5
Chloroform and 1,2-Dichloroethene	ND	0.005	0.5
2-Butanone	ND	0.006	200
Carbon Tetrachloride	ND	0.005	0.5
Trichloroethene	ND	0.005	0.5
Tetrachloroethene	ND	0.007	0.7
Chlorobenzene	ND	0.005	100
1,4-Dichlorobenzene	ND	0.005	7.5

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	100 %
	Bromfluorobenzene	102 %

Method: Method 1311, Toxicity Characteristic Leaching Procedure  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986

Method 5030, Purge-and-Trap, Test Methods for Evaluating  
Solid Waste, SW-846, USEPA, Sept. 1986

Method 8010, Halogenated Volatile Organics, Test Methods  
for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

Method 8020, Aromatic Volatile Organics, Test Methods for  
Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

Regulatory Limits based on 40 CFR part 261 subpart C  
section 261.24, July 1, 1990

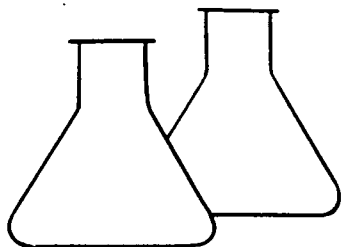
ND - Parameter not detected at the stated detection limit.

Comments: Land Farm Holding Area

*Devin L. Reichen*  
Analyst

*Morris D. Young*  
Review





# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 8040 PHENOLS

Client:	Filter Service	Project #:	92153
Sample ID:	Filter Service	Date Reported:	11-19-92
Laboratory Number:	3668	Date Sampled:	10-28-92
Sample Matrix:	Soil	Date Received:	10-28-92
Preservative:	Cool	Date Extracted:	11-09-92
Condition:	Cool & Intact	Date Analyzed:	11-17-92
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	ND	0.020	200.0
p,m-Cresol	ND	0.040	200.0
2,4,6-Trichlorophenol	ND	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	2.0
Pentachlorophenol	ND	0.020	100.0

Method: Method 1311, Toxicity Characteristic Leaching Procedure  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.

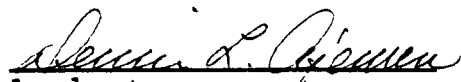
Method 3510, Separatory Funnel Liquid-Liquid Extraction,  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.


Method 8040, Phenols, Test Methods for Evaluating Solid  
Waste, SW-846, USEPA, Sept. 1986.

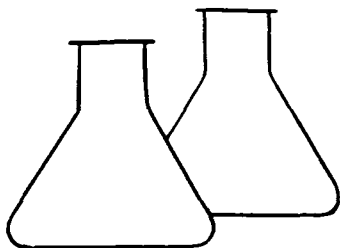
Regulatory Limits based on 40 CFR part 261 subpart C  
section 261.24, July 1, 1990

ND - Parameter not detected at the stated detection limit.

Comments: Land Farm Holding Area

  
Analyst

  
Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 8090 NITROAROMATICS AND CYCLIC KETONES

Client:	Filter Service	Project #:	92153
Sample ID:	Filter Service	Date Reported:	11-16-92
Laboratory Number:	3668	Date Sampled:	10-28-92
Sample Matrix:	Soil	Date Received:	10-28-92
Preservative:	Cool	Date Extracted:	11-09-92
Condition:	Cool and Intact	Date Analyzed:	11-16-92
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	5.0
Nitrobenzene	ND	0.020	5.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

Method: Method 1311, Toxicity Characteristic Leaching Procedure  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.

Method 3510, Separatory Funnel Liquid-Liquid Extraction,  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.

Method 8090, Nitroaromatics and Cyclic Ketones,  
Test Methods for Evaluating Solid Waste, SW-846,  
USEPA, Sept. 1986

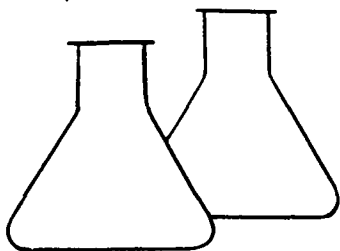
Regulatory Limits based on 40 CFR part 261 subpart C  
section 261.24, July 1, 1990

ND - Parameter not detected at the stated detection limit.

Comments: Land Farm Holding Area

Shawn L. Pierson  
Analyst

Marissa Young  
Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 1311  
TOXICITY CHARACTERISTIC LEACHING PROCEDURE  
TRACE METAL ANALYSIS - BLANKS

Client:	NA	Project #:	NA
Sample ID:	Blanks	Date Reported:	11-16-92
Laboratory Number:	NA	Date Sampled:	NA
Sample Matrix:	TCLP Extract	Date Received:	NA
Analysis Requested:	TCLP	Date Analyzed:	11-16-92
Condition:	NA	Date Extracted:	NA

Parameter	Instrument Blank (mg/L)	Extraction Sol. Blank (mg/L)	Det. Limit (mg/L)
ARSENIC	ND	ND	0.001
BARIUM	ND	ND	0.1
CADMIUM	ND	ND	0.001
CHROMIUM	ND	ND	0.001
LEAD	ND	ND	0.001
MERCURY	ND	ND	0.002
SELENIUM	ND	ND	0.001
SILVER	ND	ND	0.01

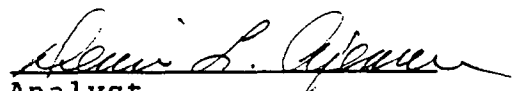
Method: Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, Sept. 1986

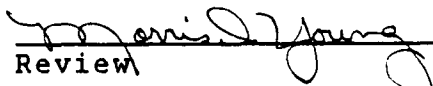
Methods 7060A, 7080A, 7131A, 7191, 7470A, 7421, 7740, 7760A  
Analysis of Metals by GFAA and FLAA, SW-846, USEPA

Method 1311, Toxicity Characteristic Leaching Procedure  
SW-846, USEPA, Nov. 1990

ND - Parameter not detected at the stated detection limit.

Comments:

  
Analyst

  
Review

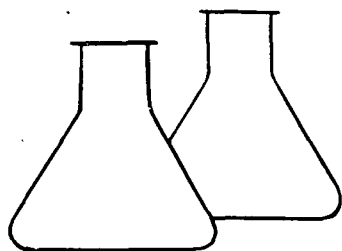
ENVIROTECH. LABORATORIES

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5796 U.S. HIGHWAY 64-3014  
FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615

## QUALITY ASSURANCE/QUALITY CONTROL

DOCUMENTATION



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHODS 8010/8020 AROMATIC VOLATILE ORGANICS/HALOGENATED VOLATILE ORGANICS

Client:	NA	Project #:	NA
Sample ID:	Lab Blank	Date Reported:	11-19-92
Laboratory Number:	TDV-1116-blk	Date Sampled:	NA
Sample Matrix:	Water	Date Received:	NA
Preservative:	NA	Date Analyzed:	11-17-92
Condition:	NA	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.005	0.2
1,1-Dichloroethene	ND	0.006	0.7
Benzene	ND	0.009	0.5
Chloroform and 1,2-Dichloroethene	ND	0.005	0.5
2-Butanone	ND	0.006	200
Carbon Tetrachloride	ND	0.005	0.5
Trichloroethene	ND	0.005	0.5
Tetrachloroethene	ND	0.007	0.7
Chlorobenzene	ND	0.005	100
1,4-Dichlorobenzene	ND	0.005	7.5

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	89.8 %
	Bromfluorobenzene	99.9 %

Method: Method 1311, Toxicity Characteristic Leaching Procedure  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986

Method 5030, Purge-and-Trap, Test Methods for Evaluating  
Solid Waste, SW-846, USEPA, Sept. 1986

Method 8010, Halogenated Volatile Organics, Test Methods  
for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

Method 8020, Aromatic Volatile Organics, Test Methods for  
Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

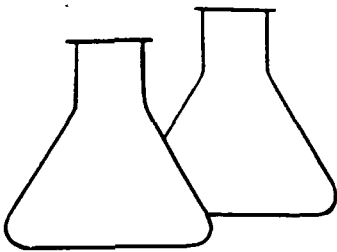
Regulatory Limits based on 40 CFR part 261 Subpart C  
section 261.24, July 1, 1990

ND - Parameter not detected at the stated detection limit.

Comments:

Analyst

Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 8040 PHENOLS

Client:	NA	Project #:	NA
Sample ID:	Laboratory Blank	Date Reported:	11-19-92
Laboratory Number:	LB-1117-TCA	Date Sampled:	NA
Sample Matrix:	2-Propanol	Date Received:	NA
Preservative:	NA	Date Analyzed:	11-17-92
Condition:	NA	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	ND	0.020	200.0
p,m-Cresol	ND	0.040	200.0
2,4,6-Trichlorophenol	ND	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	2.0
Pentachlorophenol	ND	0.020	100.0

Method: Method 1311, Toxicity Characteristic Leaching Procedure  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.

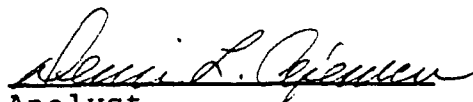
Method 3510, Separatory Funnel Liquid-Liquid Extraction,  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.

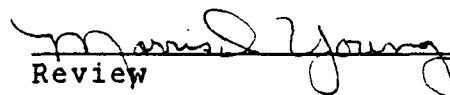
Method 8040, Phenols, Test Methods for Evaluating Solid  
Waste, SW-846, USEPA, Sept. 1986.

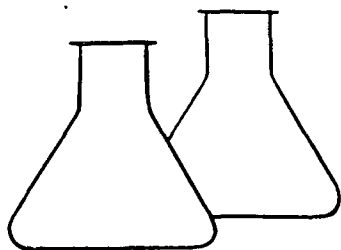
Regulatory Limits based on 40 CFR part 261 subpart C  
section 261.24, July 1, 1990

ND - Parameter not detected at the stated detection limit.

### Comments:

  
Analyst

  
Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 8090 NITROAROMATICS AND CYCLIC KETONES

Client:	NA	Project #:	NA
Sample ID:	Laboratory Blank	Date Reported:	11-17-92
Laboratory Number:	BN-LB-11-16	Date Sampled:	NA
Sample Matrix:	Hexane	Date Received:	NA
Preservative:	NA	Date Extracted:	NA
Condition:	NA	Date Analyzed:	11-16-92
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	5.0
Nitrobenzene	ND	0.020	5.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

Method: Method 1311, Toxicity Characteristic Leaching Procedure  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.

Method 3510, Separatory Funnel Liquid-Liquid Extraction,  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.

Method 8090, Nitroaromatics and Cyclic Ketones,  
Test Methods for Evaluating Solid Waste, SW-846,  
USEPA, Sept. 1986

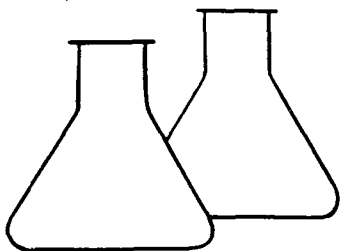
Regulatory Limits based on 40 CFR part 261 subpart C  
section 261.24, July 1, 1990

ND - Parameter not detected at the stated detection limit.

Comments:

Kevin L. Pierson  
Analyst

Marshall Young  
Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401

PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS

Client:	Filter Service	Project #:	92153
Sample ID:	Filter Service	Date Reported:	11-16-92
Laboratory Number:	3668	Date Sampled:	10-28-92
Sample Matrix:	Soil	Date Received:	10-28-92
Preservative:	Cool	Date Analyzed:	11-16-92
Condition:	Cool & Intact	Date Extracted:	11-09-92
		Analysis Needed:	TCLP metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
ARSENIC	0.002	0.001	5.000
BARIUM	ND	0.1	100.0
CADMIUM	ND	0.001	1.000
CHROMIUM	0.008	0.001	5.000
LEAD	0.010	0.001	5.000
MERCURY	ND	0.002	0.200
SELENIUM	ND	0.001	1.000
SILVER	ND	0.01	5.00

Method: Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, Sept. 1986

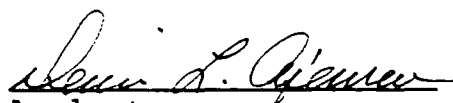
Methods 7060A, 7080A, 7131A, 7191, 7470A, 7421, 7740, 7760A  
Analysis of Metals by GFAA and FLAA, SW-846, USEPA

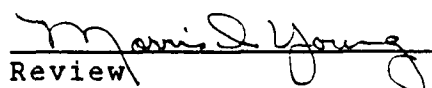
Method 1311, Toxicity Characteristic Leaching Procedure  
SW-846, USEPA, Nov. 1990

Regulatory Limits based on 40 CFR part 261 subpart C  
section 261.24, July 1, 1990

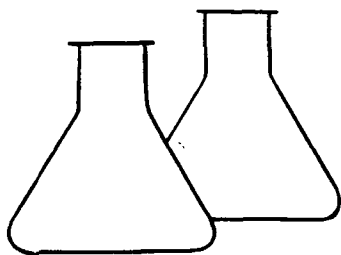
ND - Parameter not detected at the stated detection limit.

Comments: Filter Service Corp., Land Farm Holding Area

  
Analyst

  
Review





# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

QUALITY ASSURANCE REPORT  
EPA METHOD 1311  
TOXICITY CHARACTERISTIC LEACHING PROCEDURE  
TRACE METAL ANALYSIS - MATRIX SPIKE

Client:	NA	Project #:	NA
Sample ID:	NA	Date Reported:	11-16-92
Laboratory Number:	NA	Date Sampled:	NA
Sample Matrix:	TCLP Extract	Date Received:	NA
Analysis Requested:	TCLP	Date Analyzed:	11-16-92
Condition:	NA	Date Extracted:	NA

Parameter	Spike Added (mg/L)	Sample Result (mg/L)	Spiked Sample Result (mg/L)	Percent Recovery
ARSENIC	0.100	0.001	0.094	93.0
BARIUM	10.0	0.4	10.5	101.0
CADMIUM	0.100	ND	0.101	101.0
CHROMIUM	0.100	0.054	0.158	104.0
LEAD	0.100	0.060	0.152	92.0
MERCURY	0.025	ND	0.024	96.0
SELENIUM	0.100	ND	0.088	88.0
SILVER	1.00	ND	0.98	98.0

QA ACCEPTANCE CRITERIA:	Parameter	Acceptance Range %
	TCLP Metals	80 - 120

Method: Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, Sept. 1986

Methods 7060A, 7080A, 7131A, 7191, 7470A, 7421, 7740, 7760A  
Analysis of Metals by GFAA and FLAA, SW-846, USEPA

Method 1311, Toxicity Characteristic Leaching Procedure  
SW-846, USEPA, Nov. 1990

ND - Parameter not detected at the stated detection limit.

Comments:

*Kevin L. Clemen*  
Analyst

*Marie D. Young*  
Review

## CHAIN OF CUSTODY RECORD

Client/Project Name <i>FILTER SERVICE 92153</i>			Project Location <i>LAND FARM HOLDING AREA</i>		ANALYSIS/PARAMETERS							
Sampler: (Signature) <i>Michael J. En</i>			Chain of Custody Tape No.		No. of Containers <i>1</i>	<i>TEST</i>						Remarks <i>AS AT NO PEST OR HERB</i>
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix								
<i>FILTER SERVICE</i>	<i>10-28-92</i>	<i>1535</i>	<i>3668</i>	<i>SOIL</i>								
Relinquished by: (Signature) <i>Michael J. En</i>			Date <i>10-28-92</i>	Time <i>1615</i>	Received by: (Signature) <i>Linda Pender</i>			Date <i>10-28-92</i>	Time <i>1615</i>			
Relinquished by: (Signature)					Received by: (Signature)							
Relinquished by: (Signature)					Received by: (Signature)							

**ENVIROTECH INC.**  
5796 U.S. Highway 64-3014  
Farmington, New Mexico 87401  
(505) 632-0615

san juan repro Form 578-81

# ENVIROTECH INC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

5796 U.S. HIGHWAY 64 - 3014  
FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615

November 18, 1992

RECEIVED  
NOV 20 1992  
OIL CON. DIV.  
DIST. 3

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

RE: Central Consolidated School District No.22  
Bus Barn Facility  
Hydrocarbon Contaminated Soil

Project No. 92264

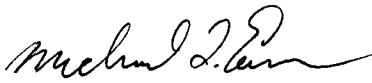
Dear Mr. Foust:

Envirotech, Inc. request authorization to receive hydrocarbon contaminated soil generated from an Underground Storage Tank (UST) removal located at the Central Consolidated School District No.22 Bus Barn Facility.

The UST's reportedly contained unleaded gasoline. Attached is a Certification of Waste Status signed by Mr. Leonard Murray of the NMED UST Bureau, Farmington Office, and one signed by Mr. Joe Friday of Central Consolidated School District No. 22, stating that the contaminated soils did originate at a UST removal.

Thank you for your assistance in this matter.

Respectfully submitted,  
ENVIROTECH, Inc.

  
Michael T. Eason  
Hydrogeologist

cc: Mr. Roy Waters

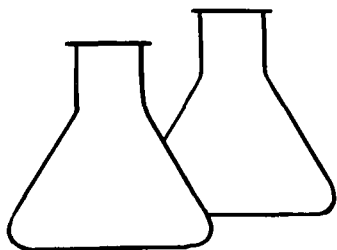
Attachments:  
Certification of Waste Status

MTE/mte

*Received authorization from Mr. Denny  
Foust of NM OCO, to receive contaminated soils  
at Envirotech Soil Remediation Facility on 11-10-92.  
MTE 11-18-92*

OK  
L27

2264SL1.LET



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401

PHONE: (505) 632-0615 • FAX: (505) 632-1865

## Certification of Waste Status

Originating location KIRTLAND CONSOLIDATED SCHOOL BUS GARN #76, CR6500  
DIST. #22

Disposal Location: Envirotech Soil Remediation Site, Hilltop, N.M.

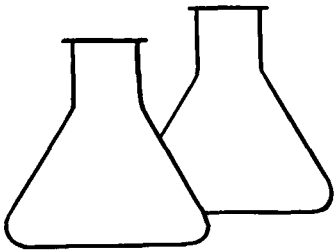
"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by EPA's July 1988 Regulatory Determination and that non-exempt waste that is a "hazardous waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the exempt waste in such a manner so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Section 261.3(b)."

Signature Leonard Murray

Name, Date 11-10-92

Company NMEO / USTB

Address 724 W. Animas  
Farmington, NM 87401



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## Certification of Waste Status

Originating location KIRTLAND CONSOLIDATED SCHOOLS BUS BARN

Disposal Location: Envirotech Soil Remediation Site, Hilltop, N.M.

"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by EPA's July 1988 Regulatory Determination and that non-exempt waste that is a "hazardous waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the exempt waste in such a manner so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Section 261.3(b)."

Signature

Name, Date

Company

Address



JOE FRIDAY

CENTRAL CONSOLIDATED SCHOOLS

76A CR 6500

KIRTLAND, NM 87417

# ENVIROTECH INC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

5796 U.S. HIGHWAY 64 • 3014  
FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615

92125

~~11-19-92~~

## Certification of Waste Status

Originating location 10" McElmo Gathering Line, Montezuma Creek, Ut.  
Leak 11/11/92 Job # M0312

Disposal Location: Envirotech Soil Remediation Site, Hilltop, NM

"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by EPA's July 1988 Regulatory Determination and that non-exempt waste that is a "hazardous waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the exempt waste in such a manner so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Section 261.3(b)."

Signature Rob Degner  
Name, Date Rob Degner, 11-19-92  
Company Four Corners Pipeline Co.  
Address 1215 S. Lake St.  
Farmington, N.M. 87401

91411

Envirotech Exempt Waste Manifest  
Meridian Oil Inc.

PO Box 4289, Farmington, NM 87499

COPY 11.92

MOI  
Safety and  
Environmental

1. Waste Location: Lease/Well No. VAL VERDE PLANT
2. Volume: 4.5 <sup>10 ARS</sup> Cubic Yards                      Barrels                      Gallons
3. Description of Waste: SPENT CHARCOAL FILTER  
MEDIA WITH AMINE, NO FREE  
LIQUIDS
4. Method of Waste Generation: ROUTINE REPLACEMENT  
OF PROCESS FILTER MEDIA
5. Disposal Cost: \$16.00
6. This waste material complies with the definition of exempt waste as listed in 40 CFR 261.4.

Approval for Disposal

Darin Warren  
(signature)

Date 11-13-92

MOI  
On Site  
Representative

Transportation Company: Riley Industrial

Date(s) Transported: 11/13/92

MOI Representative on Site

D. Munn  
(signature)

Date 11/13/92

Envirotech  
Complete and  
return to  
Meridian  
Safety and  
Environmental  
with Invoice.

Date(s) Received:                     

Total Volume Received:                     

Waste Location : Cell/Grid No.                     

Received By :                     

(signature)

ENV RO' ECH NC.

PHONE: (505) 632-0615

921979  
**Bill of Lading**

MONTH OF

Feb 2

2194

MANIFEST

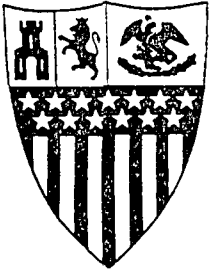
COMPLETE DESCRIPTION OF SHIPMENT

TRANSPORTING COMPANY

DATE No. POINT OF ORIGIN DESTINATION MATERIAL GRID YDS COMPANY TRK # DRIVER SIGNATURE

11/13 1 en far Con 10 OC 8 Merus





# City of Santa Fe, New Mexico

P.O. Box 909, 200 Lincoln Ave., 87504-0909

**Councilors:**

Larry A. Delgado, Dist. 1  
Debbie Jaramillo, Dist. 1  
Steven G. Farber, Dist. 2  
Ouida MacGregor, Dist. 2

Sam Pick, Mayor  
Isaac J. Pino, City Manager

**Councilors:**

Frank Montano, Dist. 3  
Art Sanchez, Dist. 3  
Peso Chavez, Dist. 4  
Phil Griego, Mayor Pro Tem  
Dist. 4

November 3, 1992

Envirotech  
5796 U.S. Highway 64-3014  
Farmington, NM 87401

RE: Diesel contaminated soil for disposal

Gentlemen:

The purpose of this letter is to certify the contents of the soil taken by your company for disposal. The waste contained soil from the surrounding ground, water, diesel and Oclansorb.

Efforts to obtain the police report have been unsuccessful to this point. I will continue to try and contact the investigating officer and will forward a copy of the police report to you.

Sincerely,

Antonio Trujillo, E.I.T.  
Engineer Associate  
Streets & Drainage Maintenance Division

*Ryder Truck Accident  
Ruptured Fuel Tank*

xc: Streets & Drainage Maintenance File  
Lawrence Ortiz, Director, Streets & Drainage Maintenance Division

# ENVIROTECH INC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

5796 U.S. HIGHWAY 64 - 3014  
FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615

November 2, 1992

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

RECEIVED  
NOV 5 1992  
OIL CON. DIV.  
DIST. 3

RE: Dalago Corp.  
Hydrocarbon Contaminated Soil

Project No. 92254

Dear Mr. Foust:

Envirotech, Inc. request authorization to receive hydrocarbon contaminated soil generated from an Underground Storage Tank (UST) removal located at the RMCH Hospital Gallup New Mexico.

The UST's reportedly contained unleaded gasoline and diesel. Attached is a letter signed by Mr. Norman Pricer of the NMED UST Bureau, Gallup Office, stating that the contaminated soils did originate at a UST removal.

Thank you for your assistance in this matter.

Respectfully submitted,  
ENVIROTECH, Inc.



Michael T. Eason  
Hydrogeologist

*Received verbal authorization from  
Mr. Denny Foust, of NMOC, to receive  
soils. MTE 10-30-92*

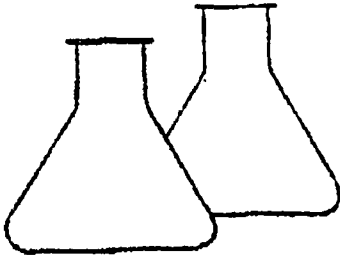
cc: Mr. Dave Dalago Jr.

Attachments:

Letter from Fuhs Trucking Co.  
Certification of Waste Status

MTE/mte

2254SL1.LET

**ENVIROTECH LABS**

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

92-54

Certification of Waste Status

Originating location RMCH Hospital Fuel tank Removal

Disposal Location: Envirotech Soil Remediation Site, Hilltop, N.M.

"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by EPA's July 1988 Regulatory Determination and that non-exempt waste that is a "hazardous waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the exempt waste in such a manner so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Section 261.3(b)."

Signature

Dennis Fuls

Name, Date

Dennis Fuls 10-29-92

Company

Dalago Corp.

Address

# FUHS TRUCKING CO. EQUIPMENT & EXCAVATION

FLATS • DUMPS • BELLY DUMP • EXCAVATOR  
DOZERS • LOADERS 3 YD. TO 8 YD. • BACKHOE  
- GALLUP, N.M. 87301

DENNIS FUHS  
OWNER

Work: (505) 722-6909  
Home: (505) 722-5348

October 27, 1992

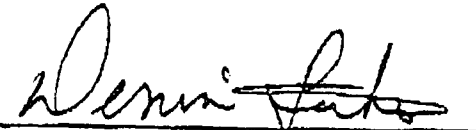
Envirotech Labs  
5796 US Highway 64-3014  
Farmington, NM 87401

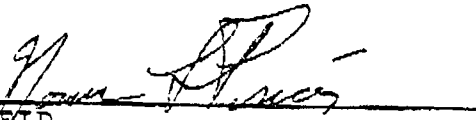
Attention: Rex Farnsworth

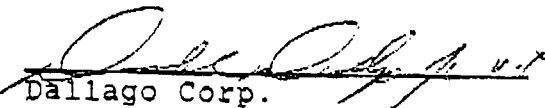
Subject: Origin and contents of soil hauled to your facility for disposal, approximately 50 cubic yards.

The material was left from tank removal at RMCH. The contents in the soil is gas and diesel. This material will be hauled to your facility on October 27, 1992, October 28, 1992, and October 29, 1992

This material is being handled by Fuhs Trucking Co.

  
Fuhs Trucking Co.

  
RFD

  
Dallago Corp.

## FAX TRANSMITTAL MEMO

TO: ENV. tech -	FROM: Fuhs TRK.	NO. OF PAGES  2
ATTN: Rex	NAME: Dennis Fuhs	
FAX#	FAX#: 722 2323	
PHONE: 505-632-0618	PHONE: 722 6909	

Hard copy via mail to follow

# ENVIROTECH NC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

5796 U.S. HIGHWAY 64 - 3014  
FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615

October 28, 1992

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

RE: Dial Oil Co.  
Hydrocarbon Contaminated Soil

RECEIVED  
OCT 30 1992  
OIL CON. DIV  
DIST. 2

Project No. 92240

Dear Mr. Foust:

Envirotech, Inc. request authorization to receive hydrocarbon contaminated soil generated at a vehicle accident at the Dial Oil Bulk Plant located approximately 2 ½ miles east of Navajo City, New Mexico.

The spill was reportedly unleaded gasoline that had leaked from the tank of the vehicle involved in the accident.

Thank you for your assistance in this matter.

Respectfully submitted,  
ENVIROTECH, Inc.

*Michael T. Eason*

Michael T. Eason  
Hydrogeologist

cc: Mr. Richard R. Dial

Attachments:

Letter from Dial Oil Co.

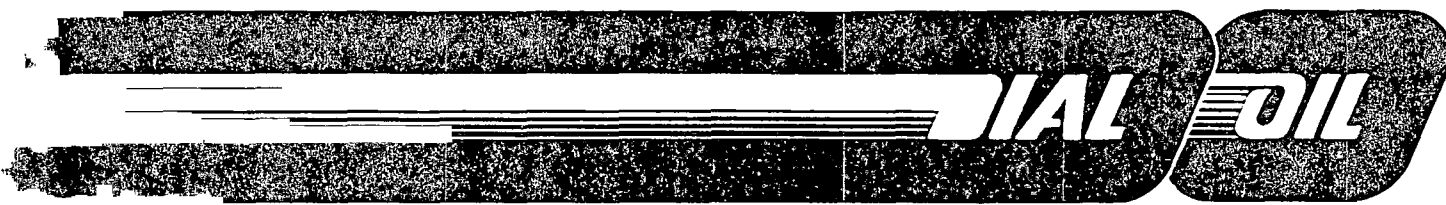
MTE/mte

*Received verbal authorization to  
receive soils from Mr. Denny Foust  
on 10-24-92. MTE/10-24-92*

*OK 10/27*

2240S11.LET

file  
U. call 587  
247  
92



P.O. Box 430, Aztec, New Mexico 87410 (505) 334-7531

October 5, 1992

Envirotech Inc.  
c/o Rex Farnsworth  
5796 US Hwy 64-3014  
Farmington, NM 87401

Dear Mr. Farnsworth,

The contaminated soil that Moss Excavation and the soil that your trucks hauled from the Dial Oil Bulk Plant, was generated due to a vehicle accident that occurred on October 1, 1992, approximately 2 & 1/2 miles east of Navajo City. The product spilled was unleaded gasoline.

Thank you,  
Dial Oil Company

A handwritten signature in cursive script, appearing to read "Richard R. Davis".

# ENVIROTECH INC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

5796 U.S. HIGHWAY 64 - 3014  
FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615

October 27, 1992

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

RECEIVED  
OCT 30 1992  
OIL CON. DIV.  
DIST. 3

RE: Farmington School District, Bus Barn  
Contaminated Soil

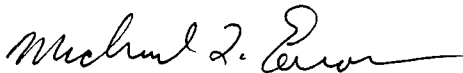
Project No. 92190

Dear Mr. Foust:

Envirotech, Inc. request authorization to receive approximately 100 yards of soil generated at a UST removal from the Farmington School District, Bus Terminal Site, Farmington, New Mexico.

The UST and piping removed had reportedly contained unleaded gasoline and diesel fuel.

Respectfully submitted,  
ENVIROTECH, Inc.

  
Michael T. Eason  
Hydrogeologist

cc: Mr. Bob Bevers

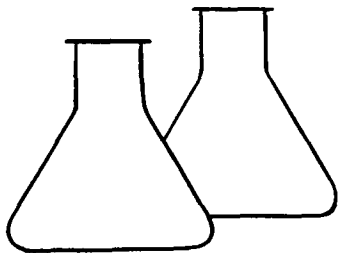
Attachments:  
Certification of Waste Status

MTE/mte

*Received verbal authorization from  
Mr. Denny Foust on 10-29-92 to  
receive soils. MTE/10-29-92*

*OK*  


2190S11.LET



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## Certification of Waste Status

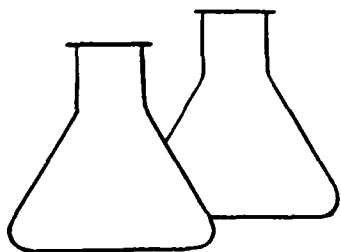
Originating location 3101 South Side River Rd  
Bns Bawn. - Farmington, NM

Disposal Location: Envirotech Soil Remediation Site, Hilltop, N.M.

"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by EPA's July 1988 Regulatory Determination and that non-exempt waste that is a "hazardous waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the exempt waste in such a manner so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Section 261.3(b)."

Signature Jim Murray 10-27-92  
Name, Date Oct 8-92 <sup>Soil removed</sup>  
Company NMED  
Address 724 W. Hobbs, Farmington





# ENV RO' TECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## Certification of Waste Status

Originating location 3101 South Side Road.  
Bus Barn - Farmington, NM

Disposal Location: Envirotech Soil Remediation Site, Hilltop, N.M.

"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by EPA's July 1988 Regulatory Determination and that non-exempt waste that is a "hazardous waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the exempt waste in such a manner so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Section 261.3(b)."

Signature [Signature]  
Name, Date Oct 8 - 92  
Company Farmington School System.  
Address 2221 Durbin Farmington,  
NM

# ENVIROTECH INC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

5796 U.S. HIGHWAY 64 - 3014  
FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615

October 22, 1992

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

RE: Request to Receive  
J.C. Hunt Co. Inc.  
Crude Oil Contaminated Soil

RECEIVED  
OCT 30 1992  
OIL CON. DIV  
DIST. 3

Project No. 92249

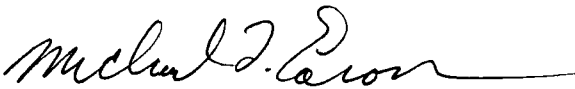
Dear Mr. Foust:

Envirotech, Inc. requests authorization to receive 36 cubic yards of soil excavated from a crude oil spill which was located 14 Miles south of Dove Creek Colorado.

Attached is a copy of the Certification of Waste Status, signed by Mr. Carl Hunt of J.C. Hunt Co. Inc.

Thank you for your assistance in this matter, if you have any questions please contact us.

Respectfully submitted,  
ENVIROTECH, Inc.

  
Michael T. Eason  
Hydrogeologist

cc: Mr. Carl Hunt

Attachments:  
Certification of Waste Status

MTE/mtc

*Received authorization from Mr. Denny Foust, of NMOC.D. to receive soils on 10-27-92. MTE/10-27-92*

*OK LGF*

2249OCD.LET

# ENVIROTECH INC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

5796 U.S. HIGHWAY 64 - 3014  
FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615


## Certification of Waste Status

CRUDE OIL SPILL  
Originating location 14 MILES SOUTHWEST OF DOVE CREEK COLORADO

Disposal Location: Envirotech Soil Remediation Site, Hilltop, NM

"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by EPA's July 1988 Regulatory Determination and that non-exempt waste that is a "hazardous waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the exempt waste in such a manner so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Section 261.3(b)."

Signature



Name, Date

CARL HUNT 10/22/92

Company

J. C. HUNT CO. INC.

Address

286 W. 600 S. BLANDING, UTAH

# ENVIROTECH INC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

5796 U.S. HIGHWAY 64 - 3014  
FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615

October 21, 1992

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

RECEIVED  
OCT 29 1992  
OIL CON. DIV  
DIST. ?

RE: Dowell Schlumberger  
Stabilized Surplus Oil Field Chemicals  
TCPL Analysis

Project No. 92123

Dear Mr. Foust:


Envirotech, Inc. request authorization to receive stabilized surplus oil field chemicals received from Dowell Schlumberger Farmington, New Mexico.

We have had a TCLP analysis completed on this composite material. These results do not include pesticides and herbicides.

The attached laboratory analysis show that the concentration of the TCLP target constituents are all below the RCRA regulatory levels for hazardous waste. Therefore the material is classified as non-hazardous per RCRA (40CFR 261).

Thank you for your assistance in this matter, if you have any questions please contact us.

Respectfully submitted,  
ENVIROTECH, Inc.

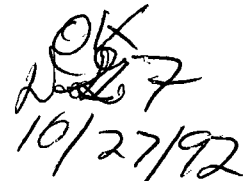
  
Michael T. Eason  
Hydrogeologist

*Received Verbal authorization to  
receive stabilized material from  
Mrs. Denny Foust on 10-27-92  
MTE*

cc: Mr. H.M. "Montie" Low , Dowell Schlumberger

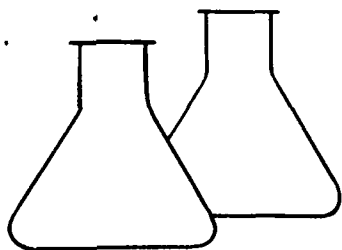
Attachments:

Laboratory Results  
Chain-of-Custody

  
10/27/92

MTE\mte

2123TCL1.LET



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHODS 8010/8020 AROMATIC VOLATILE ORGANICS/HALOGENATED VOLATILE ORGANICS

Client:	Dowell Schlumberger	Project #:	92123
Sample ID:	Stabilized Waste	Date Reported:	10-19-92
Laboratory Number:	2167	Date Sampled:	08-04-92
Sample Matrix:	Soil	Date Received:	08-04-92
Preservative:	Cool	Date Extracted:	09-30-92
Condition:	Cool and Intact	Date Analyzed:	10-13-92
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.010	0.2
1,1-Dichloroethene	ND	0.017	0.7
Chloroform	ND	0.010	6.0
Benzene	ND	0.010	0.5
Carbon Tetrachloride	ND	0.010	0.5
2-Butanone	ND	0.013	200
1,2-Dichloroethane	ND	0.010	0.5
Trichloroethene	ND	0.010	0.5
Tetrachloroethene	ND	0.010	0.7
Chlorobenzene	ND	0.011	100
1,4-Dichlorobenzene	ND	0.010	7.5

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	92.1 %
	Bromfluorobenzene	91.8 %

Method: Method 1311, Toxicity Characteristic Leaching Procedure  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986

Method 5030, Purge-and-Trap, Test Methods for Evaluating  
Solid Waste, SW-846, USEPA, Sept. 1986

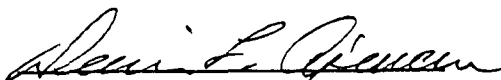
Method 8010, Halogenated Volatile Organics, Test Methods  
for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986


Method 8020, Aromatic Volatile Organics, Test Methods for  
Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

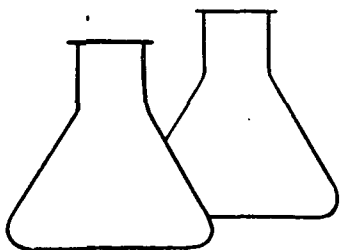
Regulatory Limits based on 40 CFR part 261 subpart C  
section 261.24, July 1, 1990

ND - Parameter not detected at the stated detection limit.

Comments: Dowell Schlumberger, Stabilized Waste Sample

  
Analyst

  
Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 8040 PHENOLS

Client:	Dowell Schlumberger	Project #:	92123
Sample ID:	Stabilized Waste	Date Reported:	10-19-92
Laboratory Number:	2167	Date Sampled:	08-04-92
Sample Matrix:	Soil	Date Received:	08-04-92
Preservative:	Cool	Date Extracted:	09-30-92
Condition:	Cool & Intact	Date Analyzed:	10-13-92
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	ND	0.020	200.0
p,m-Cresol	ND	0.040	200.0
2,4,6-Trichlorophenol & 2,4,5-Trichlorophenol	ND	0.041	2.0
Pentachlorophenol	ND	0.021	100.0

Method: Method 1311, Toxicity Characteristic Leaching Procedure  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.

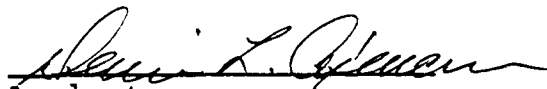
Method 3510, Separatory Funnel Liquid-Liquid Extraction,  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.

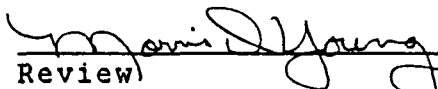
Method 8040, Phenols, Test Methods for Evaluating Solid  
Waste, SW-846, USEPA, Sept. 1986.

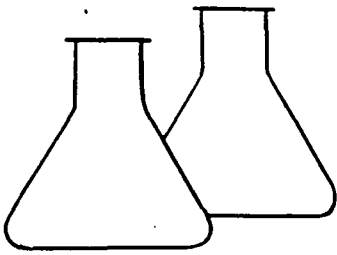
Regulatory Limits based on 40 CFR part 261 subpart C  
section 261.24, July 1, 1990

ND - Parameter not detected at the stated detection limit.

Comments: Dowell Schlumberger, Stabilized Waste Chemical

  
Analyst

  
Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 8090 NITROAROMATICS AND CYCLIC KETONES

Client:	Dowell Schlumberger	Project #:	92123
Sample ID:	Stabilized Waste	Date Reported:	10-05-92
Laboratory Number:	2167	Date Sampled:	08-04-92
Sample Matrix:	Soil	Date Received:	08-04-92
Preservative:	Cool	Date Extracted:	09-30-92
Condition:	Cool and Intact	Date Analyzed:	10-05-92
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	5.0
Nitrobenzene	ND	0.020	5.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

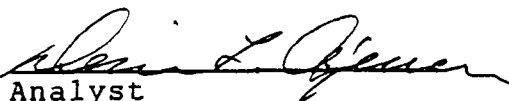
Method: Method 1311, Toxicity Characteristic Leaching Procedure  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.

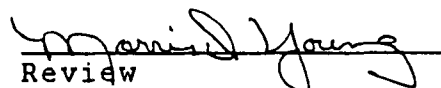
Method 3510, Separatory Funnel Liquid-Liquid Extraction,  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.

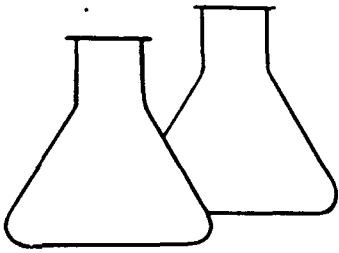
Method 8090, Nitroaromatics and Cyclic Ketones,  
Test Methods for Evaluating Solid Waste, SW-846,  
USEPA, Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments: Dowell Schlumberger, Stabilized Waste Sample

  
Analyst

  
Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS

Client: Dowell Schlumberger  
Sample ID: Stabilized Waste  
Laboratory Number: 2167  
Sample Matrix: Soil  
Preservative: Cool  
Condition: Cool & Intact

Project #: 92123  
Date Reported: 10-09-92  
Date Sampled: 08-04-92  
Date Received: 08-04-92  
Date Analyzed: 10-09-92  
Date Extracted: 09-30-92  
Analysis Needed: TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
ARSENIC	ND	0.001	5.000
BARIUM	ND	0.1	100.0
CADMIUM	ND	0.001	1.000
CHROMIUM	ND	0.001	5.000
LEAD	0.587	0.001	5.000
MERCURY	0.014	0.002	0.200
SELENIUM	0.011	0.001	1.000
SILVER	ND	0.01	5.00

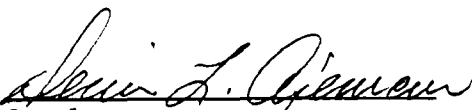
Method: Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, Sept. 1986

Methods 7060A, 7080A, 7131A, 7191, 7470A, 7421, 7740, 7760A  
Analysis of Metals by GFAA and FLAA, SW-846, USEPA

Method 1311, Toxicity Characteristic Leaching Procedure  
SW-846, USEPA, Nov. 1990

ND - Parameter not detected at the stated detection limit.

Comments: Dowell Schlumberger, Stabilized Waste Chemical

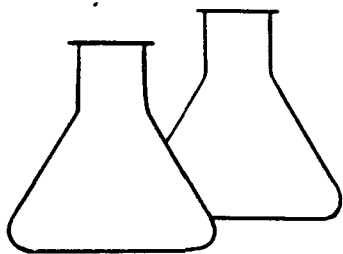
  
Analyst

  
Review



# QUALITY ASSURANCE/QUALITY CONTROL

## DOCUMENTATION



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHODS 8010/8020 AROMATIC VOLATILE ORGANICS/HALOGENATED VOLATILE ORGANICS

Client:	NA	Project #:	NA
Sample ID:	Lab Blank	Date Reported:	10-16-92
Laboratory Number:	LB1012VOC-pm	Date Sampled:	NA
Sample Matrix:	Water	Date Received:	NA
Preservative:	NA	Date Analyzed:	10-12-92
Condition:	NA	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.005	0.2
1,1-Dichloroethene	ND	0.008	0.7
Chloroform	ND	0.005	6.0
Benzene	ND	0.005	0.5
Carbon Tetrachloride	ND	0.005	0.5
2-Butanone	ND	0.007	200
1,2-Dichloroethane	ND	0.005	0.5
Trichloroethene	ND	0.005	0.5
Tetrachloroethene	ND	0.005	0.7
Chlorobenzene	ND	0.005	100
1,4-Dichlorobenzene	ND	0.005	7.5

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	90.5 %
	Bromfluorobenzene	101.8 %

Method: Method 1311, Toxicity Characteristic Leaching Procedure  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986

Method 5030, Purge-and-Trap, Test Methods for Evaluating  
Solid Waste, SW-846, USEPA, Sept. 1986

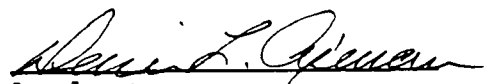
Method 8010, Halogenated Volatile Organics, Test Methods  
for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986


Method 8020, Aromatic Volatile Organics, Test Methods for  
Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

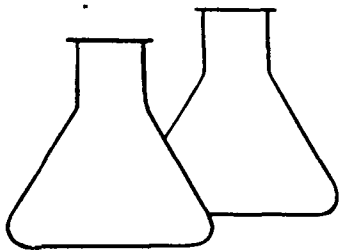
Regulatory Limits based on 40 CFR part 261 Subpart C  
section 261.24, July 1, 1990

ND - Parameter not detected at the stated detection limit.

Comments:

  
Analyst

  
Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 8040 PHENOLS

Client:	NA	Project #:	NA
Sample ID:	Lab Blank	Date Reported:	10-19-92
Laboratory Number:	LB-10-13	Date Sampled:	NA
Sample Matrix:	2-Propanol	Date Received:	NA
Preservative:	NA	Date Analyzed:	10-13-92
Condition:	NA	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	ND	0.020	200.0
p,m-Cresol	ND	0.040	200.0
2,4,6-Trichlorophenol & 2,4,5-Trichlorophenol	ND	0.041	2.0
Pentachlorophenol	ND	0.021	100.0

Method: Method 1311, Toxicity Characteristic Leaching Procedure  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.

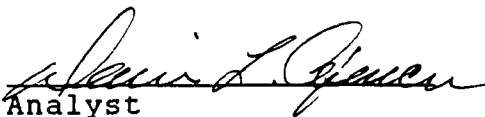
Method 3510, Separatory Funnel Liquid-Liquid Extraction,  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.

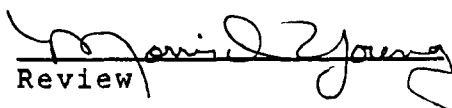
Method 8040, Phenols, Test Methods for Evaluating Solid  
Waste, SW-846, USEPA, Sept. 1986.

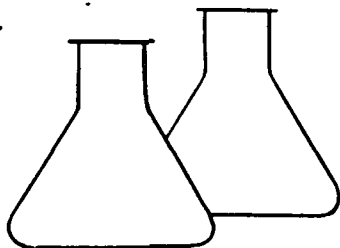
Regulatory Limits based on 40 CFR part 261 subpart C  
section 261.24, July 1, 1990

ND - Parameter not detected at the stated detection limit.

Comments:

  
Analyst

  
Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 8090 NITROAROMATICS AND CYCLIC KETONES

Client:	NA	Project #:	NA
Sample ID:	Laboratory Blank	Date Reported:	10-05-92
Laboratory Number:	BNLB1005 am	Date Sampled:	NA
Sample Matrix:	Hexane	Date Received:	NA
Preservative:	NA	Date Extracted:	NA
Condition:	NA	Date Analyzed:	10-05-92
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	5.0
Nitrobenzene	ND	0.020	5.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

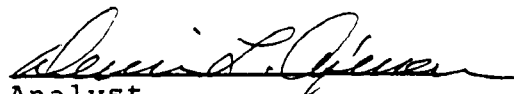
Method: Method 1311, Toxicity Characteristic Leaching Procedure  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.

Method 3510, Separatory Funnel Liquid-Liquid Extraction,  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.

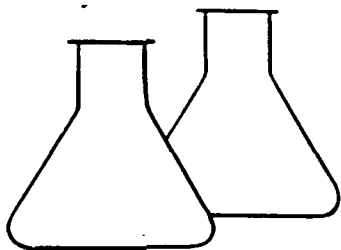
Method 8090, Nitroaromatics and Cyclic Ketones,  
Test Methods for Evaluating Solid Waste, SW-846,  
USEPA, Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments:

  
Analyst

  
Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 1311  
TOXICITY CHARACTERISTIC LEACHING PROCEDURE  
TRACE METAL ANALYSIS - BLANKS

Client:	NA	Project #:	NA
Sample ID:	Blanks	Date Reported:	10-09-92
Laboratory Number:	NA	Date Sampled:	NA
Sample Matrix:	TCLP Extract	Date Received:	NA
Analysis Requested:	TCLP	Date Analyzed:	10-09-92
Condition:	NA	Date Extracted:	09-28-92

Parameter	Instrument Blank (mg/L)	Extraction Sol. Blank (mg/L)	Det. Limit (mg/L)
ARSENIC	ND	ND	0.001
BARIUM	ND	ND	0.1
CADMIUM	ND	ND	0.001
CHROMIUM	ND	ND	0.001
LEAD	ND	ND	0.001
MERCURY	ND	ND	0.002
SELENIUM	ND	ND	0.001
SILVER	ND	ND	0.01

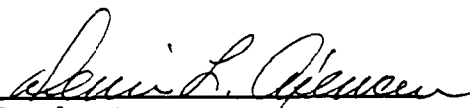
Method: Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, Sept. 1986

Methods 7060A, 7080A, 7131A, 7191, 7470A, 7421, 7740, 7760A  
Analysis of Metals by GFAA and FLAA, SW-846, USEPA

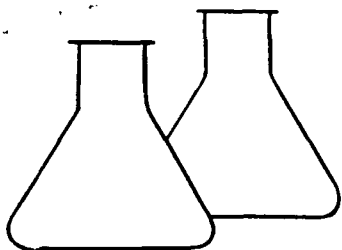
Method 1311, Toxicity Characteristic Leaching Procedure  
SW-846, USEPA, Nov. 1990

ND - Parameter not detected at the stated detection limit.

Comments:

  
Analyst

  
Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

QUALITY ASSURANCE REPORT  
EPA METHOD 1311  
TOXICITY CHARACTERISTIC LEACHING PROCEDURE  
TRACE METAL ANALYSIS - MATRIX SPIKE

Client:	NA	Project #:	NA
Sample ID:	NA	Date Reported:	10-09-92
Laboratory Number:	NA	Date Sampled:	NA
Sample Matrix:	TCLP Extract	Date Received:	NA
Analysis Requested:	TCLP	Date Analyzed:	10-09-92
Condition:	NA	Date Extracted:	NA

Parameter	Spike Added (mg/L)	Sample Result (mg/L)	Spiked Sample Result (mg/L)	Percent Recovery
ARSENIC	0.100	0.002	0.102	100.0
BARIUM	10.0	1.4	11.0	96.0
CADMIUM	0.100	ND	0.089	89.0
CHROMIUM	0.100	ND	0.082	82.0
LEAD	0.100	0.022	0.125	103.0
MERCURY	0.050	0.037	0.093	112.0
SELENIUM	0.100	ND	0.096	96.0
SILVER	1.00	ND	1.01	101.0

QA ACCEPTANCE CRITERIA:	Parameter	Acceptance Range %
	TCLP Metals	80 - 120

Method: Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, Sept. 1986

Methods 7060A, 7080A, 7131A, 7191, 7470A, 7421, 7740, 7760A  
Analysis of Metals by GFAA and FLAA, SW-846, USEPA

Method 1311, Toxicity Characteristic Leaching Procedure  
SW-846, USEPA, Nov. 1990

ND - Parameter not detected at the stated detection limit.

Comments:

*Kevin L. Jensen*  
Analyst

*Wendy D. Young*  
Review

## CHAIN OF CUSTODY RECORD

San Juan Repro Form 57A-91

# ENVIROTECH INC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

5796 U.S. HIGHWAY 64 - 3014  
FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615

October 26, 1992

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

RE: Request to Receive Soils For  
Proposed Remedial Action at  
Duncan Oil Company  
North Hogback Tank Battery #1  
San Juan County, Navajo Nation, New Mexico

Project : 92195

Dear Mr. Foust:

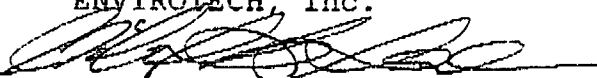
Envirotech, Inc. request authorization to receive soil to be excavated from oil stained soils at the reference Duncan Oil facility. The site is located on Section 1, T29N, R17W, San Juan County, Navajo Nation (New Mexico).

Based on the findings of a site characterization the soils have been contaminated by produced fluids during the normal operation of the crude oil storage facility. Analysis for trace metals by TCLP was conducted as part of the characterization.

The attached laboratory analysis shows that the concentration of the TCLP target metal constituents are all below the RCRA regulatory levels for hazardous waste. Therefore, considering the nature of the contaminating source and the results of the metals analyses, the soils are classified as non-hazardous per RCRA (40CFR 261).

Thank you for your assistance in this matter, if you have any questions please contact us.

Respectfully submitted,  
ENVIROTECH, Inc.

  
Michael K. Lane, P.E.  
Geological Engineer/Project Manager

cc: Mr. John Bettridge, Duncan Oil  
Mr. Robert Bornstein, USEPA Region IX

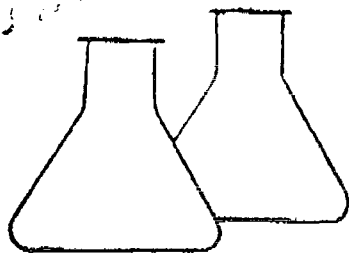
Attachments: Laboratory Results

MKL/mkl

RECEIVED  
OCT 26 1992  
OIL CON. DIV.,  
DIST. 3

OK  
252  
10/27/92  
2195OCD.RQT





# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
 PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS

Client: Duncan Oil  
 Sample ID: T6 @ 4' - 5'  
 Laboratory Number: 2419  
 Sample Matrix: Soil  
 Preservative: Cool  
 Condition: Cool and Intact

Project #: 94482  
 Date Reported: 09-15-92  
 Date Sampled: 08-21-92  
 Date Received: 08-21-92  
 Date Analyzed: 09-14-92  
 Date Extracted: 09-08-92  
 Analysis Needed: TCLP

Parameter	Regulatory Level (mg/L)	Concentration (mg/L)	Det. Limit (mg/L)
ARSENIC	5.000	0.006	0.001
BARIUM	100.0	1.4	0.1
CADMIUM	1.000	ND	0.001
CHROMIUM	5.000	0.076	0.001
LEAD	5.000	ND	0.001
MERCURY	0.200	ND	0.001
SELENIUM	1.000	ND	0.002
SILVER	5.00	ND	0.001
			0.01

Method: Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, Sept. 1986  
 Methods 7060A, 7080A, 7131A, 7191, 7470A, 7421, 7740, 7760A  
 Analysis of Metals by GFAA and FLAA, SW-846, USEPA  
 Method 1311, Toxicity Characteristic Leaching Procedure  
 SW-846, USEPA, Nov. 1990

ND - Parameter not detected at the stated detection limit.

Comments: North Hogback 1 Tank Battery

*[Signature]*  
 Review

# ENV RO' TECH NC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

5796 U.S. HIGHWAY 64 - 3014  
FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615

October 23, 1992

RECEIVED  
OCT 26 1992  
OIL CON. DIV.  
DIST. 3

Mr. Denny Foust  
Environmental Compliance Inspector  
New Mexico Oil Conservation Division  
1000 Rio Brazos Road  
Aztec, New Mexico 87410

Re: Request for Authorization to Receive  
Contaminated Soil

Project 91100

Dear Mr. Foust:

Thriftway Inc. has requested Envirotech Inc. receive hydrocarbon contaminated soils from a clean-up of their Bloomfield Refinery site.

The contaminated soils resulted from miscellaneous leaks and spills from their crude oil refining operations. In-as-much as refined products were involved, the attached TCLP analysis was performed, as per your request.

As per the attached analysis, this soil is classified as non-hazardous per RCRA Regulatory limits.

Envirotech Inc. requests authorization to receive the soils for remediation.

Your assistance is greatly appreciated.

Sincerely,



Morris D. Young  
President

MDY/cj096

CC: Mr. R.J. Dalley - Thriftway Inc.  
MR. Ken Sinks - Thriftway Inc.

OK  
D-27  
10/27/92



BRUCE KING  
GOVERNOR

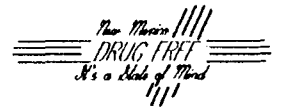
STATE OF NEW MEXICO

ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION  
AZTEC DISTRICT OFFICE

ANITA LOCKWOOD  
CABINET SECRETARY

1000 RIO BRAZOS ROAD  
AZTEC, NEW MEXICO 87410  
(505) 334-6178



## FAX TRANSMITTAL SHEET

DATE: Nov. 18, 1992

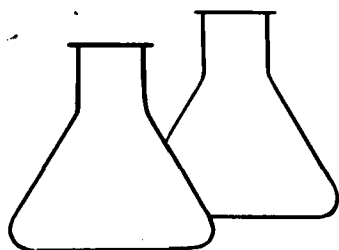
TO: Bill Olsen  
OCID

FROM: Denny Foust, Aztec

FAX: 505-334-6170

COMMENTS: I didn't talk with anybody  
at Thriftway.

NUMBER OF PAGES INCLUDING COVER: 6



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHODS 8010/8020 AROMATIC VOLATILE ORGANICS/HALOGENATED VOLATILE ORGANICS

Client:	Thriftway Refinery	Project #:	92140
Sample ID:	Composite	Date Reported:	10-20-92
Laboratory Number:	2269	Date Sampled:	08-13-92
Sample Matrix:	Soil	Date Received:	08-13-92
Preservative:	Cool	Date Extracted:	08-17-92
Condition:	Cool and Intact	Date Analyzed:	08-24-92
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.010	0.2
1,1-Dichloroethene	ND	0.010	0.7
Chloroform	ND	0.010	6.0
Benzene	0.189	0.025	0.5
Carbon Tetrachloride	ND	0.010	0.5
2-Butanone	ND	0.012	200
1,2-Dichloroethane	ND	0.010	0.5
Trichloroethene	ND	0.010	0.5
Tetrachloroethene	ND	0.010	0.7
Chlorobenzene	ND	0.045	100
1,4-Dichlorobenzene	ND	0.010	7.5

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	94.5 %
	Bromfluorobenzene	95.9 %

Method: Method 1311, Toxicity Characteristic Leaching Procedure  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986

Method 5030, Purge-and-Trap, Test Methods for Evaluating  
Solid Waste, SW-846, USEPA, Sept. 1986

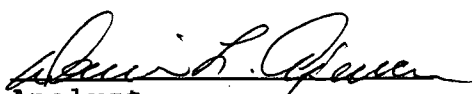
Method 8010, Halogenated Volatile Organics, Test Methods  
for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

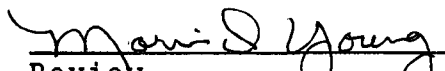
Method 8020, Aromatic Volatile Organics, Test Methods for  
Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

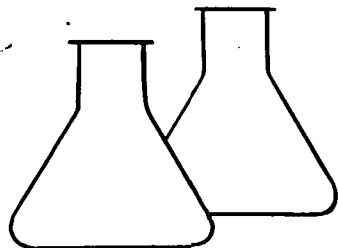
Regulatory Limits based on 40 CFR part 261 subpart C  
section 261.24, July 1, 1990

ND - Parameter not detected at the stated detection limit.

Comments: Thriftway Refinery, Bloomfield, New Mexico

  
Analyst

  
Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 8040 PHENOLS

Client:	Thriftway Refinery	Project #:	91100
Sample ID:	Composite	Date Reported:	09-30-92
Laboratory Number:	2269	Date Sampled:	08-12-92
Sample Matrix:	Soil	Date Received:	08-13-92
Preservative:	Cool	Date Extracted:	08-17-92
Condition:	Cool & Intact	Date Analyzed:	09-29-92
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	ND	0.020	200.0
p,m-Cresol	ND	0.040	200.0
2,4,6-Trichlorophenol & 2,4,5-Trichlorophenol	ND	0.040	2.0
Pentachlorophenol	ND	0.025	100.0

Method: Method 1311, Toxicity Characteristic Leaching Procedure  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.

Method 3510, Separatory Funnel Liquid-Liquid Extraction,  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.

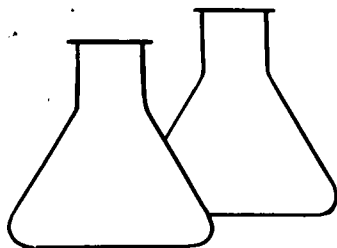
Method 8040, Phenols, Test Methods for Evaluating Solid  
Waste, SW-846, USEPA, Sept. 1986.

ND - Parameter not detected at the stated detection limit.

Comments: Composite of contaminated soil.  
Thriftway Refinery, Bloomfield, NM.

Robert M. Young  
Analyst

Morris D. Young  
Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401

PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 8090 NITROAROMATICS AND CYCLIC KETONES

Client:	Thriftway Refinery	Project #:	91100
Sample ID:	Composite	Date Reported:	10-02-92
Laboratory Number:	2269	Date Sampled:	08-13-92
Sample Matrix:	Soil	Date Received:	08-13-92
Preservative:	Cool	Date Extracted:	08-17-92
Condition:	Cool and Intact	Date Analyzed:	10-01-92
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	5.0
Nitrobenzene	ND	0.020	5.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

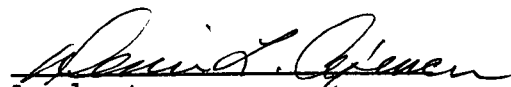
Method: Method 1311, Toxicity Characteristic Leaching Procedure  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.

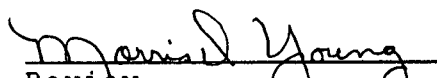
Method 3510, Separatory Funnel Liquid-Liquid Extraction,  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.

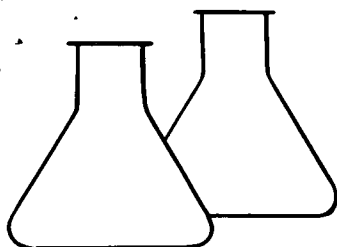
Method 8090, Nitroaromatics and Cyclic Ketones,  
Test Methods for Evaluating Solid Waste, SW-846,  
USEPA, Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments: Thriftway Refinery, Bloomfield, New Mexico

  
Analyst

  
Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS

Client: Thriftway Refinery  
Sample ID: Composite  
Laboratory Number: 2269  
Sample Matrix: Soil  
Preservative: Cool  
Condition: Cool & Intact

Project #: 91100  
Date Reported: 08-20-92  
Date Sampled: 08-12-92  
Date Received: 08-13-92  
Date Analyzed: 08-20-92  
Date Extracted: 08-17-92  
Analysis Needed: TCLP

Parameter	Regulatory Level (mg/L)	Concentration (mg/L)	Det. Limit (mg/L)
ARSENIC	5.000	0.004	0.001
BARIUM	100.0	2.3	0.1
CADMIUM	1.000	0.005	0.001
CHROMIUM	5.000	ND	0.001
LEAD	5.000	ND	0.001
MERCURY	0.200	0.015	0.002
SELENIUM	1.000	0.017	0.001
SILVER	5.00	ND	0.01

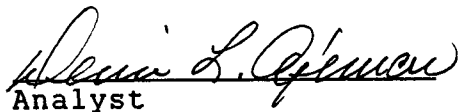
Method: Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, Sept. 1986

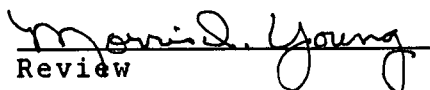
Methods 7060A, 7080A, 7131A, 7191, 7470A, 7421, 7740, 7760A  
Analysis of Metals by GFAA and FLAA, SW-846, USEPA

Method 1311, Toxicity Characteristic Leaching Procedure  
SW-846, USEPA, Nov. 1990

ND - Parameter not detected at the stated detection limit.

Comments: Thriftway Refinery, Bloomfield, New Mexico

  
Analyst

  
Review

ENVIROTECH LABORATORIES

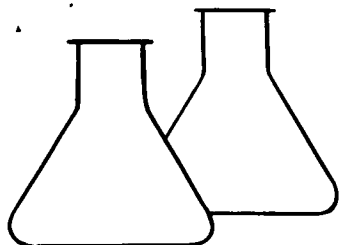
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5796 U.S. HIGHWAY 64-3014  
FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615

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# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHODS 8010/8020 AROMATIC VOLATILE ORGANICS/HALOGENATED VOLATILE ORGANICS

Client:	NA	Project #:	NA
Sample ID:	Laboratory Blank	Date Reported:	10-20-92
Laboratory Number:	08-24-LB	Date Sampled:	NA
Sample Matrix:	Water	Date Received:	NA
Preservative:	NA	Date Analyzed:	08-24-92
Condition:	NA	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.005	0.2
1,1-Dichloroethene	ND	0.005	0.7
Chloroform	ND	0.005	6.0
Benzene	ND	0.012	0.5
Carbon Tetrachloride	ND	0.005	0.5
2-Butanone	ND	0.006	200
1,2-Dichloroethane	ND	0.005	0.5
Trichloroethene	ND	0.005	0.5
Tetrachloroethene	ND	0.005	0.7
Chlorobenzene	ND	0.022	100
1,4-Dichlorobenzene	ND	0.005	7.5

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	99.0 %
	Bromfluorobenzene	94.0 %

Method: Method 1311, Toxicity Characteristic Leaching Procedure  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986

Method 5030, Purge-and-Trap, Test Methods for Evaluating  
Solid Waste, SW-846, USEPA, Sept. 1986

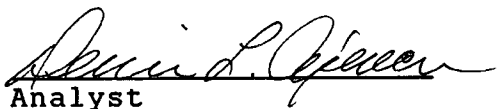
Method 8010, Halogenated Volatile Organics, Test Methods  
for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

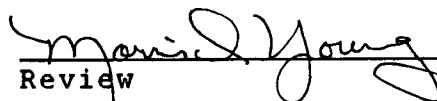
Method 8020, Aromatic Volatile Organics, Test Methods for  
Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

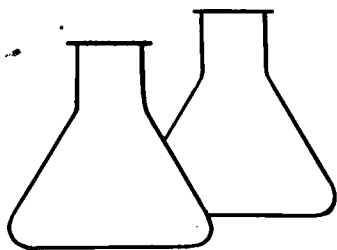
Regulatory Limits based on 40 CFR part 261 Subpart C  
section 261.24, July 1, 1990

ND - Parameter not detected at the stated detection limit.

Comments:

  
Analyst

  
Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 8040 PHENOLS

Client:	NA	Project #:	NA
Sample ID:	Laboratory Blank	Date Reported:	09-31-92
Laboratory Number:	AELB0929	Date Sampled:	NA
Sample Matrix:	2-Propanol	Date Received:	NA
Preservative:	NA	Date Analyzed:	09-29-92
Condition:	NA	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	ND	0.020	200.0
p,m-Cresol	ND	0.040	200.0
2,4,6-Trichlorophenol & 2,4,5-Trichlorophenol	ND	0.040	2.0
Pentachlorophenol	ND	0.020	100.0

Method: Method 1311, Toxicity Characteristic Leaching Procedure  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.

Method 3510, Separatory Funnel Liquid-Liquid Extraction,  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.

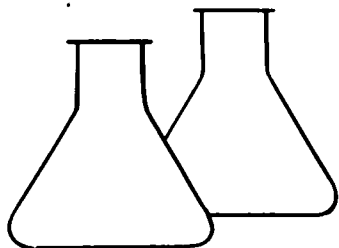
Method 8040, Phenols, Test Methods for Evaluating Solid  
Waste, SW-846, USEPA, Sept. 1986.

ND - Parameter not detected at the stated detection limit.

Comments:

Robert M. Young  
Analyst

Robert M. Young  
Review



# ENVIROTECH LABS

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PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 8090 NITROAROMATICS AND CYCLIC KETONES

Client:	NA	Project #:	NA
Sample ID:	Lab Blank	Date Reported:	10-05-92
Laboratory Number:	BNLB1001 pm	Date Sampled:	NA
Sample Matrix:	Hexane	Date Received:	NA
Preservative:	NA	Date Extracted:	NA
Condition:	NA	Date Analyzed:	10-01-92
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	5.0
Nitrobenzene	ND	0.020	5.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

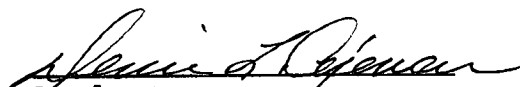
Method: Method 1311, Toxicity Characteristic Leaching Procedure  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.

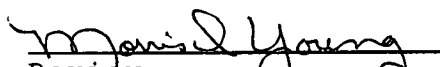
Method 3510, Separatory Funnel Liquid-Liquid Extraction,  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.

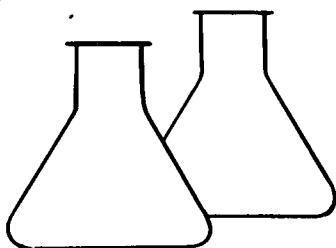
Method 8090, Nitroaromatics and Cyclic Ketones,  
Test Methods for Evaluating Solid Waste, SW-846,  
USEPA, Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments:

  
Analyst

  
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QUALITY ASSURANCE REPORT  
EPA METHOD 1311  
TOXICITY CHARACTERISTIC LEACHING PROCEDURE  
TRACE METAL ANALYSIS - MATRIX SPIKE

Client:	NA	Project #:	NA
Sample ID:	NA	Date Reported:	08-20-92
Laboratory Number:	NA	Date Sampled:	NA
Sample Matrix:	TCLP Extract	Date Received:	NA
Analysis Requested:	TCLP	Date Analyzed:	08-20-92
Condition:	NA	Date Extracted:	NA

Parameter	Spike Added (mg/L)	Sample Result (mg/L)	Spiked Sample Result (mg/L)	Percent Recovery
ARSENIC	0.150	ND	0.147	98.0
BARIUM	10.0	11.8	20.2	84.0
CADMIUM	0.150	0.004	0.143	92.7
CHROMIUM	0.150	ND	0.141	94.0
LEAD	0.150	ND	0.150	100.0
MERCURY	0.150	0.011	0.160	99.3
SELENIUM	0.150	0.042	0.183	94.0
SILVER	1.00	ND	0.90	90.0

QA ACCEPTANCE CRITERIA:	Parameter	Acceptance Range %
	TCLP Metals	80 - 120

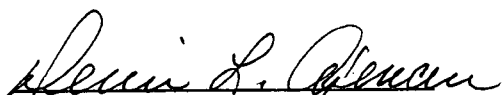
Method: Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, Sept. 1986


Methods 7060A, 7080A, 7131A, 7191, 7470A, 7421, 7740, 7760A  
Analysis of Metals by GFAA and FLAA, SW-846, USEPA

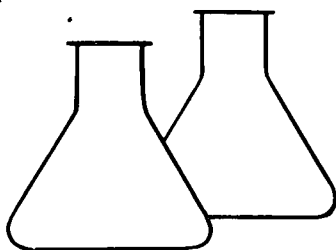
Method 1311, Toxicity Characteristic Leaching Procedure  
SW-846, USEPA, Nov. 1990

ND - Parameter not detected at the stated detection limit.

Comments:

  
Analyst

  
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PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS - BLANKS

Client:	NA	Project #:	NA
Sample ID:	Blanks	Date Reported:	08-20-92
Laboratory Number:	NA	Date Sampled:	NA
Sample Matrix:	TCLP Extract	Date Received:	NA
Analysis Requested:	TCLP	Date Analyzed:	08-20-92
Condition:	NA	Date Extracted:	08-17-92

Parameter	Instrument Blank (mg/L)	Extraction Sol. Blank (mg/L)	Det. Limit (mg/L)
-----	-----	-----	-----
ARSENIC	ND	ND	0.001
BARIUM	ND	ND	0.1
CADMIUM	ND	ND	0.001
CHROMIUM	ND	ND	0.001
LEAD	ND	ND	0.001
MERCURY	ND	ND	0.002
SELENIUM	ND	ND	0.001
SILVER	ND	ND	0.01

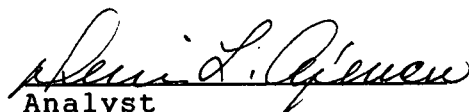
Method: Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, Sept. 1986

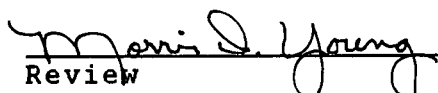
Methods 7060A, 7080A, 7131A, 7191, 7470A, 7421, 7740, 7760A  
Analysis of Metals by GFAA and FLAA, SW-846, USEPA

Method 1311, Toxicity Characteristic Leaching Procedure  
SW-846, USEPA, Nov. 1990

ND - Parameter not detected at the stated detection limit.

Comments:

  
Analyst

  
Review

## CHAIN OF CUSTODY RECORD

san juan repro Form 578-81

# ENVIROTECH INC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

5796 U.S. HIGHWAY 64 - 3014  
FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615

October 21, 1992

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

RECEIVED  
OCT 26 1992  
OIL CON. DIV.  
DIST. 3

RE: Request to Receive  
Halliburton Logging  
Wash Bay Sump Soil  
TCPL Analysis

Project No. 92204

Dear Mr. Foust:


Envirotech, Inc. request authorization to receive soil excavated from the wash bay sump at the Halliburton Logging Yard, Farmington, New Mexico.

The sump had reportedly contained soils washed from vehicles used in the oil field. Therefore, we have had a TCLP analysis from a composite sample completed, without the pesticides and herbicides.

The attached laboratory analysis show that the concentration of the TCLP target constituents are all below the RCRA regulatory levels for hazardous waste. Therefore, the soils are classified as non-hazardous per RCRA (40CFR 261).

Thank you for your assistance in this matter, if you have any questions please contact us.

Respectfully submitted,  
ENVIROTECH, Inc.

  
Michael T. Eason  
Hydrogeologist

*Mr. Denny Foust of the NMOCED  
has given Envirotech verbal authorization  
to receive the wash bay soils from Halliburton  
Logging. MTE 10-21-92*

cc: Mr. Dan Gurule, Halliburton Logging Services Inc.

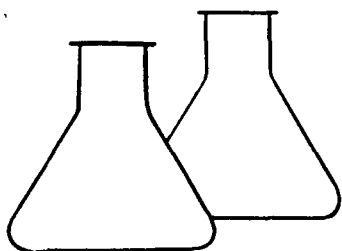
Attachments:

Laboratory Results  
Chain-of-Custody

MTE/mte

2204TCL1.LET

OK D27  
10/21/92



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401

PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHODS 8010/8020 AROMATIC VOLATILE ORGANICS/HALOGENATED VOLATILE ORGANICS

Client:	Halliburton Logging	Project #:	92204
Sample ID:	Wash Bay Composite	Date Reported:	10-19-92
Laboratory Number:	2194	Date Sampled:	08-05-92
Sample Matrix:	Soil	Date Received:	08-06-92
Preservative:	Cool	Date Extracted:	09-08-92
Condition:	Cool and Intact	Date Analyzed:	10-12-92
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.010	0.2
1,1-Dichloroethene	ND	0.017	0.7
Chloroform	ND	0.010	6.0
Benzene	ND	0.010	0.5
Carbon Tetrachloride	ND	0.010	0.5
2-Butanone	ND	0.013	200
1,2-Dichloroethane	ND	0.010	0.5
Trichloroethene	ND	0.010	0.5
Tetrachloroethene	ND	0.010	0.7
Chlorobenzene	ND	0.011	100
1,4-Dichlorobenzene	ND	0.010	7.5

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	107.5 %
	Bromfluorobenzene	91.0 %

Method: Method 1311, Toxicity Characteristic Leaching Procedure  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986

Method 5030, Purge-and-Trap, Test Methods for Evaluating  
Solid Waste, SW-846, USEPA, Sept. 1986

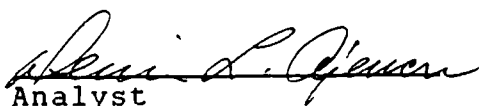
Method 8010, Halogenated Volatile Organics, Test Methods  
for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

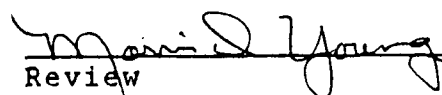
Method 8020, Aromatic Volatile Organics, Test Methods for  
Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

Regulatory Limits based on 40 CFR part 261 subpart C  
section 261.24, July 1, 1990

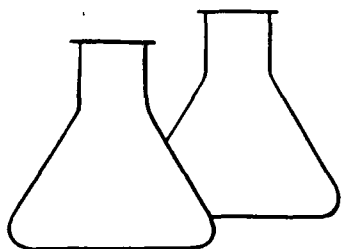
ND - Parameter not detected at the stated detection limit.

Comments: Wash Bay Composite

  
Analyst

  
Review





# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 8040 PHENOLS

Client:	Halliburton Logging	Project #:	92204
Sample ID:	Wash Bay Composite	Date Reported:	09-30-92
Laboratory Number:	2194	Date Sampled:	08-05-92
Sample Matrix:	Soil	Date Received:	08-05-92
Preservative:	Cool	Date Extracted:	09-08-92
Condition:	Cool & Intact	Date Analyzed:	09-29-92
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	ND	0.020	200.0
p,m-Cresol	ND	0.040	200.0
2,4,6-Trichlorophenol & 2,4,5-Trichlorophenol	ND	0.040	2.0
Pentachlorophenol	ND	0.025	100.0

Method: Method 1311, Toxicity Characteristic Leaching Procedure  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.

Method 3510, Separatory Funnel Liquid-Liquid Extraction,  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.

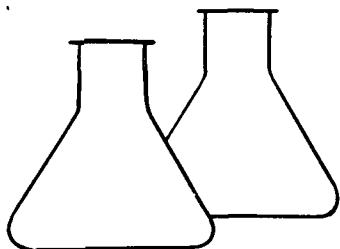
Method 8040, Phenols, Test Methods for Evaluating Solid  
Waste, SW-846, USEPA, Sept. 1986.

ND - Parameter not detected at the stated detection limit.

Comments: Wash Bay Composite.

Robert M. Young  
Analyst

Morris D. Young  
Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 8090 NITROAROMATICS AND CYCLIC KETONES

Client:	Halliburton Logging	Project #:	92204
Sample ID:	Wash Bay Composite	Date Reported:	10-02-92
Laboratory Number:	2194	Date Sampled:	08-05-92
Sample Matrix:	Soil	Date Received:	08-06-92
Preservative:	Cool	Date Extracted:	09-08-92
Condition:	Cool and Intact	Date Analyzed:	10-01-92
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	5.0
Nitrobenzene	ND	0.020	5.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

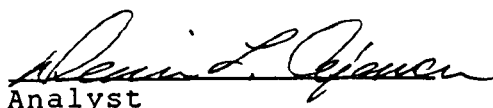
Method: Method 1311, Toxicity Characteristic Leaching Procedure  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.

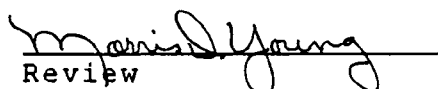
Method 3510, Separatory Funnel Liquid-Liquid Extraction,  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.

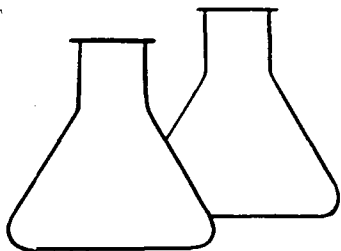
Method 8090, Nitroaromatics and Cyclic Ketones,  
Test Methods for Evaluating Solid Waste, SW-846,  
USEPA, Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments: Halliburton Logging, Wash Bay Composite

  
Analyst

  
Review



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5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS

Client:	Halliburton Logging	Project #:	92204
Sample ID:	Wash Bay Composite	Date Reported:	09-15-92
Laboratory Number:	2194	Date Sampled:	08-05-92
Sample Matrix:	Soil	Date Received:	08-06-92
Preservative:	Cool	Date Analyzed:	09-14-92
Condition:	Cool and Intact	Date Extracted:	09-08-92
		Analysis Needed:	TCLP

Parameter	Regulatory Level (mg/L)	Concentration (mg/L)	Det. Limit (mg/L)
ARSENIC	5.000	0.006	0.001
BARIUM	100.0	0.1	0.1
CADMIUM	1.000	0.001	0.001
CHROMIUM	5.000	0.006	0.001
LEAD	5.000	0.097	0.001
MERCURY	0.200	0.006	0.002
SELENIUM	1.000	0.001	0.001
SILVER	5.00	ND	0.01

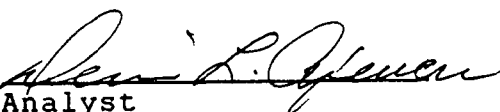
Method: Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, Sept. 1986

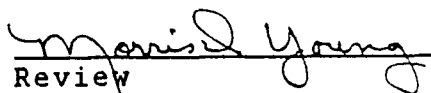
Methods 7060A, 7080A, 7131A, 7191, 7470A, 7421, 7740, 7760A  
Analysis of Metals by GFAA and FLAA, SW-846, USEPA

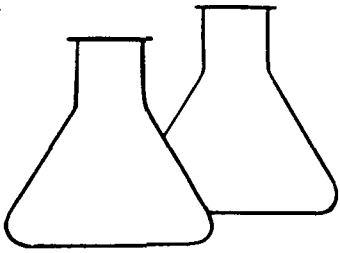
Method 1311, Toxicity Characteristic Leaching Procedure  
SW-846, USEPA, Nov. 1990

ND - Parameter not detected at the stated detection limit.

Comments: Halliburton Logging, Wash Bay Composite

  
Analyst

  
Review



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PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS

Client:	Halliburton Logging	Project #:	92204
Sample ID:	Wash Bay Composite	Date Reported:	09-15-92
Laboratory Number:	2194	Date Sampled:	08-05-92
Sample Matrix:	Soil	Date Received:	08-06-92
Preservative:	Cool	Date Analyzed:	09-14-92
Condition:	Cool and Intact	Date Extracted:	09-08-92
		Analysis Needed:	TCLP

Parameter	Regulatory Level (mg/L)	Concentration (mg/L)	Det. Limit (mg/L)
ARSENIC	5.000	0.006	0.001
BARIUM	100.0	0.1	0.1
CADMIUM	1.000	0.001	0.001
CHROMIUM	5.000	0.006	0.001
LEAD	5.000	0.097	0.001
MERCURY	0.200	0.006	0.002
SELENIUM	1.000	0.001	0.001
SILVER	5.00	ND	0.01


Method: Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, Sept. 1986

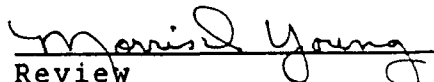
Methods 7060A, 7080A, 7131A, 7191, 7470A, 7421, 7740, 7760A  
Analysis of Metals by GFAA and FLAA, SW-846, USEPA

Method 1311, Toxicity Characteristic Leaching Procedure  
SW-846, USEPA, Nov. 1990

ND - Parameter not detected at the stated detection limit.

Comments: Halliburton Logging, Wash Bay Composite

  
Analyst

  
Review

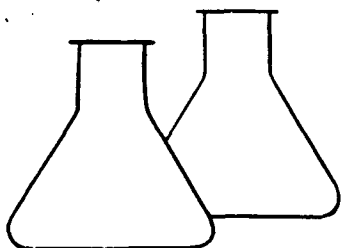
ENVIROTECH LABORATORIES

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FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615

QUALITY ASSURANCE/QUALITY CONTROL

DOCUMENTATION



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401

PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHODS 8010/8020 AROMATIC VOLATILE ORGANICS/HALOGENATED VOLATILE ORGANICS

Client:	NA	Project #:	NA
Sample ID:	Lab Blank	Date Reported:	10-16-92
Laboratory Number:	LB1012VOC-pm	Date Sampled:	NA
Sample Matrix:	Water	Date Received:	NA
Preservative:	NA	Date Analyzed:	10-12-92
Condition:	NA	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.005	0.2
1,1-Dichloroethene	ND	0.008	0.7
Chloroform	ND	0.005	6.0
Benzene	ND	0.005	0.5
Carbon Tetrachloride	ND	0.005	0.5
2-Butanone	ND	0.007	200
1,2-Dichloroethane	ND	0.005	0.5
Trichloroethene	ND	0.005	0.5
Tetrachloroethene	ND	0.005	0.7
Chlorobenzene	ND	0.005	100
1,4-Dichlorobenzene	ND	0.005	7.5

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	90.5 %
	Bromfluorobenzene	101.8 %

Method: Method 1311, Toxicity Characteristic Leaching Procedure  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986

Method 5030, Purge-and-Trap, Test Methods for Evaluating  
Solid Waste, SW-846, USEPA, Sept. 1986

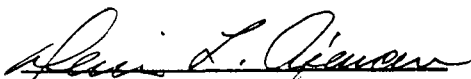
Method 8010, Halogenated Volatile Organics, Test Methods  
for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986


Method 8020, Aromatic Volatile Organics, Test Methods for  
Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

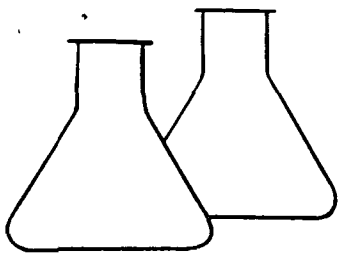
Regulatory Limits based on 40 CFR part 261 Subpart C  
section 261.24, July 1, 1990

ND - Parameter not detected at the stated detection limit.

Comments:

  
Analyst

  
Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 8040 PHENOLS

Client:	NA	Project #:	NA
Sample ID:	Laboratory Blank	Date Reported:	09-31-92
Laboratory Number:	AELB0929	Date Sampled:	NA
Sample Matrix:	2-Propanol	Date Received:	NA
Preservative:	NA	Date Analyzed:	09-29-92
Condition:	NA	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	ND	0.020	200.0
p,m-Cresol	ND	0.040	200.0
2,4,6-Trichlorophenol & 2,4,5-Trichlorophenol	ND	0.040	2.0
Pentachlorophenol	ND	0.020	100.0

Method: Method 1311, Toxicity Characteristic Leaching Procedure  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.

Method 3510, Separatory Funnel Liquid-Liquid Extraction,  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.

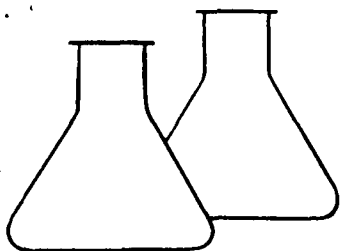
Method 8040, Phenols, Test Methods for Evaluating Solid  
Waste, SW-846, USEPA, Sept. 1986.

ND - Parameter not detected at the stated detection limit.

Comments:

Robert M. Young  
Analyst

Marvin D. Young  
Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401

PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 8090 NITROAROMATICS AND CYCLIC KETONES

Client:	NA	Project #:	NA
Sample ID:	Lab Blank	Date Reported:	10-05-92
Laboratory Number:	BNLB1001 pm	Date Sampled:	NA
Sample Matrix:	Hexane	Date Received:	NA
Preservative:	NA	Date Extracted:	NA
Condition:	NA	Date Analyzed:	10-01-92
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	5.0
Nitrobenzene	ND	0.020	5.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13


Method: Method 1311, Toxicity Characteristic Leaching Procedure  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.

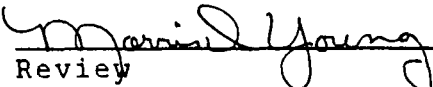
Method 3510, Separatory Funnel Liquid-Liquid Extraction,  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.

Method 8090, Nitroaromatics and Cyclic Ketones,  
Test Methods for Evaluating Solid Waste, SW-846,  
USEPA, Sept. 1986

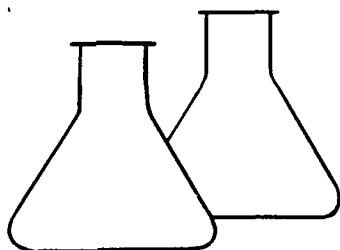
ND - Parameter not detected at the stated detection limit.

Comments:

  
Analyst

  
Review





# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 8090 NITROAROMATICS AND CYCLIC KETONES

Client:	Halliburton Logging	Project #:	92204
Sample ID:	Wash Bay Composite	Date Reported:	10-02-92
Laboratory Number:	2194	Date Sampled:	08-05-92
Sample Matrix:	Soil	Date Received:	08-06-92
Preservative:	Cool	Date Extracted:	09-08-92
Condition:	Cool and Intact	Date Analyzed:	10-01-92
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	5.0
Nitrobenzene	ND	0.020	5.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

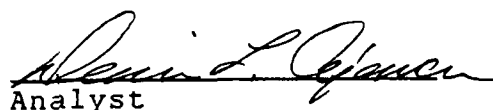
Method: Method 1311, Toxicity Characteristic Leaching Procedure  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.

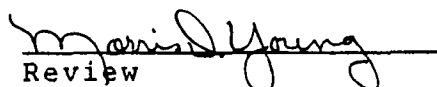
Method 3510, Separatory Funnel Liquid-Liquid Extraction,  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.

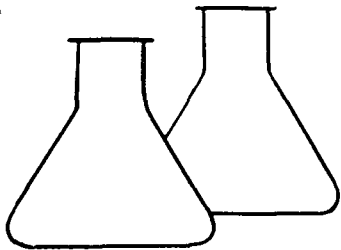
Method 8090, Nitroaromatics and Cyclic Ketones,  
Test Methods for Evaluating Solid Waste, SW-846,  
USEPA, Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments: Halliburton Logging, Wash Bay Composite

  
Analyst

  
Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS

Client:	Halliburton Logging	Project #:	92204
Sample ID:	Wash Bay Composite	Date Reported:	09-15-92
Laboratory Number:	2194	Date Sampled:	08-05-92
Sample Matrix:	Soil	Date Received:	08-06-92
Preservative:	Cool	Date Analyzed:	09-14-92
Condition:	Cool and Intact	Date Extracted:	09-08-92
		Analysis Needed:	TCLP

Parameter	Regulatory Level (mg/L)	Concentration (mg/L)	Det. Limit (mg/L)
ARSENIC	5.000	0.006	0.001
BARIUM	100.0	0.1	0.1
CADMIUM	1.000	0.001	0.001
CHROMIUM	5.000	0.006	0.001
LEAD	5.000	0.097	0.001
MERCURY	0.200	0.006	0.002
SELENIUM	1.000	0.001	0.001
SILVER	5.00	ND	0.01

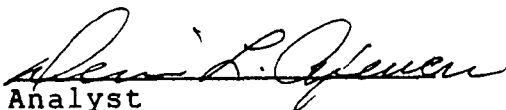
Method: Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, Sept. 1986

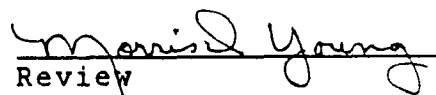
Methods 7060A, 7080A, 7131A, 7191, 7470A, 7421, 7740, 7760A  
Analysis of Metals by GFAA and FLAA, SW-846, USEPA

Method 1311, Toxicity Characteristic Leaching Procedure  
SW-846, USEPA, Nov. 1990

ND - Parameter not detected at the stated detection limit.

Comments: Halliburton Logging, Wash Bay Composite

  
Analyst

  
Review

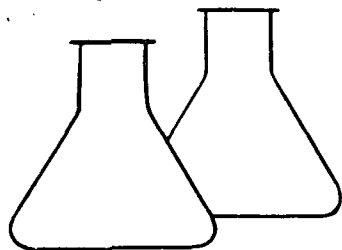
ENVIROTECH LABORATORIES

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5796 U.S. HIGHWAY 64-3014  
FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615

QUALITY ASSURANCE/QUALITY CONTROL

DOCUMENTATION



# Enviro Tech Labs

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHODS 8010/8020 AROMATIC VOLATILE ORGANICS/HALOGENATED VOLATILE ORGANICS

Client:	NA	Project #:	NA
Sample ID:	Lab Blank	Date Reported:	10-16-92
Laboratory Number:	LB1012VOC-pm	Date Sampled:	NA
Sample Matrix:	Water	Date Received:	NA
Preservative:	NA	Date Analyzed:	10-12-92
Condition:	NA	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.005	0.2
1,1-Dichloroethene	ND	0.008	0.7
Chloroform	ND	0.005	6.0
Benzene	ND	0.005	0.5
Carbon Tetrachloride	ND	0.005	0.5
2-Butanone	ND	0.007	200
1,2-Dichloroethane	ND	0.005	0.5
Trichloroethene	ND	0.005	0.5
Tetrachloroethene	ND	0.005	0.7
Chlorobenzene	ND	0.005	100
1,4-Dichlorobenzene	ND	0.005	7.5

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	90.5 %
	Bromfluorobenzene	101.8 %

Method: Method 1311, Toxicity Characteristic Leaching Procedure  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986

Method 5030, Purge-and-Trap, Test Methods for Evaluating  
Solid Waste, SW-846, USEPA, Sept. 1986

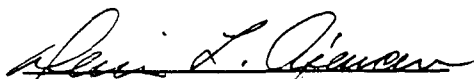
Method 8010, Halogenated Volatile Organics, Test Methods  
for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986


Method 8020, Aromatic Volatile Organics, Test Methods for  
Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

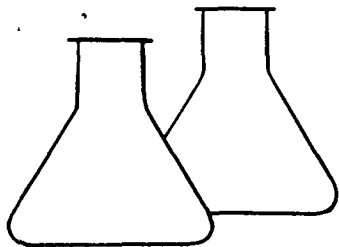
Regulatory Limits based on 40 CFR part 261 Subpart C  
section 261.24, July 1, 1990

ND - Parameter not detected at the stated detection limit.

Comments:

  
Analyst

  
Review



# ENVIRONMENTAL ROBOTICS LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 8040 PHENOLS

Client:	NA	Project #:	NA
Sample ID:	Laboratory Blank	Date Reported:	09-31-92
Laboratory Number:	AELB0929	Date Sampled:	NA
Sample Matrix:	2-Propanol	Date Received:	NA
Preservative:	NA	Date Analyzed:	09-29-92
Condition:	NA	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	ND	0.020	200.0
p,m-Cresol	ND	0.040	200.0
2,4,6-Trichlorophenol & 2,4,5-Trichlorophenol	ND	0.040	2.0
Pentachlorophenol	ND	0.020	100.0

Method: Method 1311, Toxicity Characteristic Leaching Procedure  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.

Method 3510, Separatory Funnel Liquid-Liquid Extraction,  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.

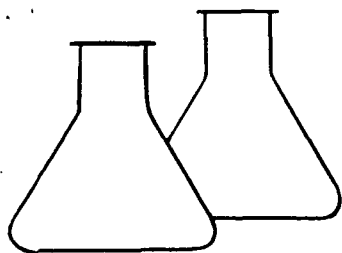
Method 8040, Phenols, Test Methods for Evaluating Solid  
Waste, SW-846, USEPA, Sept. 1986.

ND - Parameter not detected at the stated detection limit.

Comments:

Robert M. Young  
Analyst

Marion D. Young  
Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401

PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 8090 NITROAROMATICS AND CYCLIC KETONES

Client:	NA	Project #:	NA
Sample ID:	Lab Blank	Date Reported:	10-05-92
Laboratory Number:	BNLB1001 pm	Date Sampled:	NA
Sample Matrix:	Hexane	Date Received:	NA
Preservative:	NA	Date Extracted:	NA
Condition:	NA	Date Analyzed:	10-01-92
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	5.0
Nitrobenzene	ND	0.020	5.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

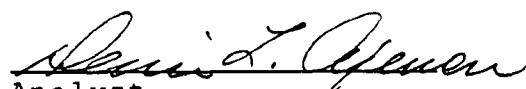
Method: Method 1311, Toxicity Characteristic Leaching Procedure  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.

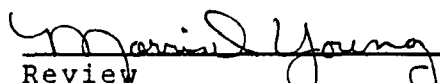
Method 3510, Separatory Funnel Liquid-Liquid Extraction,  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.

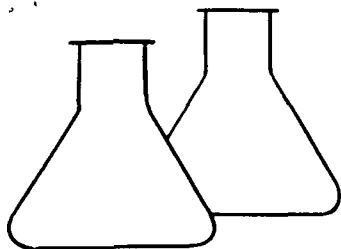
Method 8090, Nitroaromatics and Cyclic Ketones,  
Test Methods for Evaluating Solid Waste, SW-846,  
USEPA, Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments:

  
Analyst

  
Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401

PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS - BLANKS

Client:	NA	Project #:	NA
Sample ID:	Blanks	Date Reported:	09-15-92
Laboratory Number:	NA	Date Sampled:	NA
Sample Matrix:	TCLP Extract	Date Received:	NA
Analysis Requested:	TCLP	Date Analyzed:	09-14-92
Condition:	NA	Date Extracted:	08-31-92

Parameter	Instrument Blank (mg/L)	Extraction Sol. Blank (mg/L)	Det. Limit (mg/L)
ARSENIC	ND	ND	0.001
BARIUM	ND	ND	0.1
CADMIUM	ND	ND	0.001
CHROMIUM	ND	ND	0.001
LEAD	ND	ND	0.001
MERCURY	ND	ND	0.002
SELENIUM	ND	ND	0.001
SILVER	ND	ND	0.01

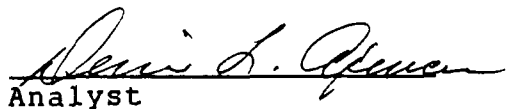
Method: Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, Sept. 1986

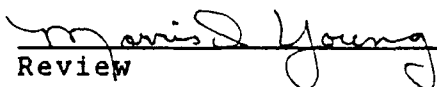
Methods 7060A, 7080A, 7131A, 7191, 7470A, 7421, 7740, 7760A  
Analysis of Metals by GFAA and FLAA, SW-846, USEPA

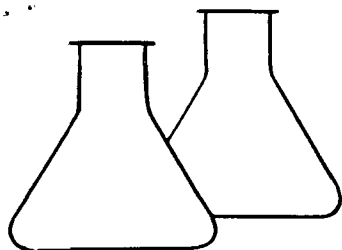
Method 1311, Toxicity Characteristic Leaching Procedure  
SW-846, USEPA, Nov. 1990

ND - Parameter not detected at the stated detection limit.

Comments:

  
Analyst

  
Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401

PHONE: (505) 632-0615 • FAX: (505) 632-1865

QUALITY ASSURANCE REPORT  
EPA METHOD 1311  
TOXICITY CHARACTERISTIC LEACHING PROCEDURE  
TRACE METAL ANALYSIS - MATRIX SPIKE

Client:	NA	Project #:	NA
Sample ID:	NA	Date Reported:	09-15-92
Laboratory Number:	NA	Date Sampled:	NA
Sample Matrix:	TCLP Extract	Date Received:	NA
Analysis Requested:	TCLP	Date Analyzed:	09-14-92
Condition:	NA	Date Extracted:	NA

Parameter	Spike Added (mg/L)	Sample Result (mg/L)	Spiked Sample Result (mg/L)	Percent Recovery
ARSENIC	0.100	0.002	0.105	103.0
BARIUM	10.0	ND	10.5	105.0
CADMIUM	0.100	ND	0.108	108.0
CHROMIUM	0.100	0.053	0.151	98.0
LEAD	0.100	0.001	0.101	100.0
MERCURY	0.100	0.002	0.108	106.0
SELENIUM	0.100	ND	0.102	102.0
SILVER	1.00	ND	1.00	100.0

QA ACCEPTANCE CRITERIA:	Parameter	Acceptance Range %
	TCLP Metals	80 - 120

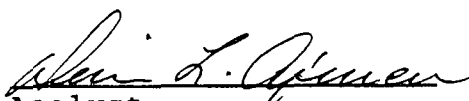
Method: Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, Sept. 1986

Methods 7060A, 7080A, 7131A, 7191, 7470A, 7421, 7740, 7760A  
Analysis of Metals by GFAA and FLAA, SW-846, USEPA

Method 1311, Toxicity Characteristic Leaching Procedure  
SW-846, USEPA, Nov. 1990

ND - Parameter not detected at the stated detection limit.

Comments:

  
Analyst

  
Review



[illegible]

# ENVIROTECH, INC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

5796 U.S. HIGHWAY 64 - 3014  
FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615

October 22, 1992

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

RE: Request to Receive  
J.C. Hunt Co. Inc.  
Crude Oil Contaminated Soil

Project No. 92249


Dear Mr. Foust:

Envirotech, Inc. requests authorization to receive 36 cubic yards of soil excavated from a crude oil spill which was located 14 Miles south of Dove Creek Colorado.

Attached is a copy of the Certification of Waste Status, signed by Mr. Carl Hunt of J.C. Hunt Co. Inc.

Thank you for your assistance in this matter, if you have any questions please contact us.

Respectfully submitted,  
ENVIROTECH, Inc.

  
Michael T. Eason  
Hydrogeologist

*Received authorization from Mr. Denny  
Foust, of NMOCOD, to receive soils on  
10-27-92. MTE/10-27-92*

cc: Mr. Carl Hunt

Attachments:  
Certification of Waste Status

MTE/nte

2249OCD.LET

# ENVIROTECH, INC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

5796 U.S. HIGHWAY 64 - 3014  
FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615

October 22, 1992

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

RE: Request to Receive  
J.C. Hunt Co. Inc.  
Crude Oil Contaminated Soil

Project No. 92249

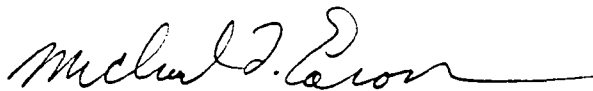
Dear Mr. Foust:

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Respectfully submitted,  
ENVIROTECH, Inc.



Michael T. Eason  
Hydrogeologist

*Received authorization from Mr. D  
Foust, of NMOCOD, to receive soils on  
10-27-92. MTE/10-27-92*

cc: Mr. Carl Hunt

Attachments:  
Certification of Waste Status

MTE/mte

2249OCD.LET

# ENVIROTECH NC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

5796 U.S. HIGHWAY 64 - 3014  
FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615

October 22, 1992

Mr. Carl Hunt  
J.C. Hunt Co. Inc.  
286 W. 600  
S Blanding, Utah

RE: Recite of hydrocarbon Contaminated Soil  
Crude Oil Spill

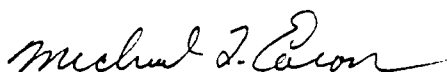
Project No. 92249

Dear Mr. Hunt:

Envirotech, Inc. has received authorization (as noted on a copy of the letter sent to Mr. Foust) from Mr. Denny Foust, of the New Mexico Oil Conservation Division, to receive the hydrocarbon contaminated soil excavated from the accident.

Thank you for this opportunity to be of service. If we can be of any further service please let us know.

Respectfully submitted,  
ENVIROTECH, Inc.



Michael T. Eason  
Hydrogeologist

Attachments:

Request to Receive Soils (NMOCD, Dated 10-22-92)

MTE\mte

2249SL2.LET

# ENVIROTECH INC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

5796 U.S. HIGHWAY 64 - 3014  
FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615

October 22, 1992

Mr. Carl Hunt  
J.C. Hunt Co. Inc.  
286 W. 600  
S Blanding, Utah

RE: Recite of hydrocarbon Contaminated Soil  
Crude Oil Spill

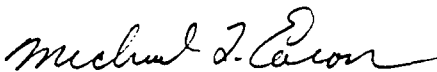
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5796 U.S. HIGHWAY 64 - 3014  
FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615

## Certification of Waste Status

CRUDE OIL SPILL  
originating location 14 MILES SOUTHWEST OF DOVE CREEK COLORADO

Disposal Location: Envirotech Soil Remediation Site, Hilltop, NM

"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by EPA's July 1988 Regulatory Determination and that non-exempt waste that is a "hazardous waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the exempt waste in such a manner so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Section 261.3(b)."

Signature



Name, Date

CARL HUNT 10/22/92

Company

J.C. HUNT CO. INC.

Address

286 W. 1000 S. BLANDING, UTAH

# ENVIROTECH INC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

5796 U.S. HIGHWAY 64 - 3014  
FARMINGTON, NEW MEXICO 87401  
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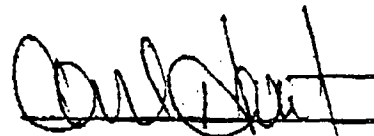
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Signature



Name, Date

CARL HUNT 10/22/92

Company

J.C. HUNT CO. INC.

Address

286 W. 600 S. BLAINE, UTAH

COLORADO HAZARDOUS MATERIAL INCIDENT REPORT

AGENCY NAME Colorado State Patrol				CLAIMING REIMBURSEMENT Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		AGENCY INCIDENT NO. 92-10-8C3		AGENCY PHONE NUMBER (303) 565 - 8460		
INCIDENT DATE	MO 10	DAY 06	YR 92	TIME NOTIFIED 1 8 1 5	TIME ARRIVED 1 8 5 9	TIME INCIDENT COMPLETED 0 1 1 4 5		DATE REPORT MO DY YR COMPLETED 10 1 3 9 2		
RESPONDERS INJURED OTHERS INJURED		0 0		RESPONDERS KILLED OTHERS KILLED		0 0		CITY/TOWN COUNTY & NO. Dolores 58		
LOCATION, ROUTE, STREET, ROAD 11.3 MILE FEET N <input checked="" type="checkbox"/> S <input type="checkbox"/> E <input type="checkbox"/> W Dove Creek on Co. Rd. 5 AT INTERSECTION WITH ROAD CODE R0058 MILEPOST DIST. 5 TROOP A										
PHOTOGRAPHS TAKEN YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>				PROPERTY MANAGEMENT FED. STATE <input checked="" type="checkbox"/> COUNTY CITY PRIVATE UNKNOWN OTHER						
RELEASE FACTORS (CHECK BEST DESCRIPTOR/S)					TYPE OF EQUIPMENT INVOLVED			MOBILE PROPERTY TYPE		
11 INTENTIONAL ACT 21 SUSPICIOUS ACT 30 FAILURE TO CONTROL HAZ MAT 31 ABANDONED 40 MISUSE OF HAZ MAT 50 MECHANICAL FAILURE 60 DESIGN, CONSTRUCTION, INSTALLATION DEFICIENCY					70 OPERATIONAL DEFICIENCY 71 <input checked="" type="checkbox"/> COLLISION/OVERTURN 80 NATURAL CONDITION 90 UNKNOWN 94 FIRE/EXPLOSION 97 ACCIDENTAL RELEASE 98 NO RELEASE 99 OTHER			10 HEATING SYSTEMS 30 AIR CONDITION/REFRIG 77 CHEM PROCESSING EQUIP. 78 WASTE RECOVERY EQUIP. 96 HAZ MAT TRANSFER EQUIP. 98 <input checked="" type="checkbox"/> NO EQUIP INVOLVED 99 OTHER		
10 PASSENGER VEH/ROAD 20 <input checked="" type="checkbox"/> FREIGHT VEH/ROAD 30 RAIL TRANSPORT VEH. 40 WATER TRANS VESSEL 50 AIR TRANSPORT VEH. 60 HEAVY EQUIP-INDUST/AGRI 90 OTHER										
ACTIONS TAKEN (CHECK ONE OR MORE)										
31 RESCUE, REMOVE FROM HARM 32 EXTRICATION, DISENTANGLEMENT 33 EMERGENCY MEDICAL SERVICES 35 SEARCH 36 TRANSPORT 37 EXTINGUISH FIRE 41 REMOVE HAZARD 42 <input checked="" type="checkbox"/> ID/ANALYSIS OF HAZ MAT 43 EVACUATION 44 <input checked="" type="checkbox"/> ESTABLISH SAFE AREA 45 <input checked="" type="checkbox"/> MONITOR 46 DECON-PERSON/EQUIP 47 DECON AREA 61 CROWD CONTROL 62 TRAFFIC CONTROL 63 NOTIFY OTHER AGENCY 64 PROVIDE PUBLIC INFO 71 INVESTIGATE 73 SHUT DOWN SYSTEM 82 SECURE PROPERTY 92 REFER TO PROPER AUTHORITY 97 <input checked="" type="checkbox"/> CONFINED/CONTAINED 98 NO ACTION TAKEN 99 OTHER										
CHEMICAL OR TRADE NAME (PRINT OR TYPE) PETROLEUM, Crude Oil				DOT ID NO. 1 2 6 7		DOT HAZARD CLASS 3		CAS NO.		
PHYSICAL STATE STORED 1 SOLID 2 <input checked="" type="checkbox"/> LIQUID 3 GAS		PHYSICAL STATE RELEASED 1 SOLID 2 <input checked="" type="checkbox"/> LIQUID 3 GAS		QUANTITY RELEASED 1 lbs. 2 <input checked="" type="checkbox"/> gal. 3 cu ft. 1 0 0 0		ENVIRONMENTAL CONTAMINATION 1 AIR 2 WATER 7 <input checked="" type="checkbox"/> GROUND 9 OTHER		(USE CODES) EXTENT OF RELEASE 3		
CONTAINER DESCRIPTION 1 FIXED 4 ARMORED 2 PORTABLE 5 INSULATED 3 <input checked="" type="checkbox"/> MOBILE 6 PRESSURIZED		(USE CODES ON REVERSE) CONTAINER TYPE 1 2		LEVEL OF CONTAINER 1 0		CONTAINER MATERIAL 0 2		CONTAINER CAPACITY 1 lbs. 2 <input checked="" type="checkbox"/> gal. 3 cu ft. 5 2 5 0		
PLACARDS REQUIRED <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO PLACARD 1267										
CHEMICAL OR TRADE NAME (PRINT OR TYPE)				DOT ID NO.		DOT HAZARD CLASS		CAS NO.		
PHYSICAL STATE STORED 1 SOLID 2 LIQUID 3 GAS		PHYSICAL STATE RELEASED 1 SOLID 2 LIQUID 3 GAS		QUANTITY RELEASED 1 lbs. 2 gal. 3 cu ft.		ENVIRONMENTAL CONTAMINATION 1 AIR 2 WATER 7 GROUND 9 OTHER		(USE CODES) EXTENT OF RELEASE		
CONTAINER DESCRIPTION 1 FIXED 4 ARMORED 2 PORTABLE 5 INSULATED 3 MOBILE 6 PRESSURIZED		(USE CODES ON REVERSE) CONTAINER TYPE		LEVEL OF CONTAINER		CONTAINER MATERIAL		CONTAINER CAPACITY 1 lbs. 2 gal. 3 cu ft.		
PLACARDS REQUIRED <input type="checkbox"/> YES <input type="checkbox"/> NO PLACARD										
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PLACARDS REQUIRED <input type="checkbox"/> YES <input type="checkbox"/> NO PLACARD										
MORE THAN 3 SUBSTANCES INVOLVED (LIST ADDITIONAL INFORMATION ON REVERSE SIDE) YES NO				TYPE OF INCIDENT TRANSPORTATION FIXED SITE OTHER		DAMAGE ESTIMATE		DID THE INCIDENT TAKE PLACE ON A HAZARDOUS MATERIAL ROUTE? YES NO		
INSURANCE COMPANY Fedareted Service Insurance Co.				POLICY # 616647		TELEPHONE # (800) 3 6 4 - 3 4 3 4				



WEATHER (CHECK BEST DESCRIPTOR(S)) WAS WEATHER A FACTOR <u>YES</u> <del>NO</del> 1X CLEAR 3 SNOW 5 ELECTRICAL STORM 7 HIGH WIND 2 RAIN 4 HAIL 6 FOG 8 OTHER 9 UNKNOWN				PROPERTY USE (USE CODES BELOW) PROPERTY USE <u>962</u>		CASE # <u>92-10-8C3</u> SURROUNDING AREA <u>650</u>	
CARRIER'S/FACILITY NAME J.C.Hunt Co. Inc.						PHONE NUMBER (801 ) <u>678-2515</u>	
ADDRESS (INCLUDE CITY, STATE AND ZIP CODE) 286 West 600 South (60-7), Blanding, Ut. 84511							
DRIVER'S/CONTACT'S NAME Keylon, Harold G.				D/L LICENSE NUMBER R49610225		STATE Ut.	
ADDRESS (INCLUDE CITY, STATE AND ZIP CODE) 390 West 100 South (54-4), Blanding, Ut. 84511						PHONE NUMBER (801 ) <u>678-2289</u>	
ADDRESS (INCLUDE CITY, STATE AND ZIP CODE) 390 West 100 South (54-4), Blanding, Ut. 84511						VEH. MAKE/YR. Kenworth 1985	
VEH. LIC. Temp.		ST. Ut.		TRF LIC. 43845E		ST. Ut.	
PUC #		US DOT # 154090		NUCLEAR PERMIT #			
ICC #		HAZ MAT PERMIT #10190		CARGO TANK SPEC. # DOT/MC <u>307AL</u>			
VIOLATION Careless Driving				VIOLATION CODE 42-4-1204		CITATION #0288139 COMMON CODE 141	
VIOLATION				VIOLATION CODE		CITATION # COMMON CODE	
CLEAN UP PERFORMED BY Crowley Construction				ADDRESS CITY STATE ZIP HC63 Box 66, Monticello, Ut. 84535		PHONE NO. 801-587-2377	
PROPERTY USE and SURROUNDING AREA TYPE 100 Public assembly 700 Manufacturing 961 Freeway 200 Educational 762 Hazmat chem mfg. 962 County/City road 300 Health care 767 Petroleum 963 Private road 400 Residential 800 Storage 099 Other - explain in 500 Mercantile, Business 936 Vacant lot comments section 600 Industrial, Utility 946 Lake/River/Pond 098 State Highway 650 Agricultural 950 Railroad						EXTENT OF RELEASE 1 - Confined to vehicle/equipment 3 - Confined to ground around vehicle 4 - Confined to room/floor or origin 5 - Confined to structure of origin 6 - Confined to property use of origin 7 - Release beyond property use of origin 8 - No release 9 - Other - explain in comments	
CONTAINER TYPE 01 - Tank 08 - Sump/Pit/Pond 02 - Drum/Barrel 09 - Well 03 - Cylinder 10 - Machinery/Processing 04 - Can/Bottle Equipment 05 - Carboy 11 - Pipe 06 - Boxes/Cartons 18 - No container 07 - Boxes 19 - Other - explain in 12 - Cargo Tank comments section 13 - Portable Tank 14 - Mtr. Veh. Fuel Tank				LEVEL OF CONTAINER 11 - Ground level 10 - Above ground 40 - Below ground		CONTAINER MATERIAL 1 - Iron and iron alloys 2 - Aluminum and aluminum alloys 3 - Copper and copper alloys 4 - Plastic (includes fiberglass), rigid 5 - Plastic, flexible 6 - Wood, paper, and cellulose products 7 - Glass 8 - NO container 9 - Other - explain in comments 0 - Unknown	
DATE SCENE DECLARED SAFE				10 09 92			
TIME SCENE DECLARED SAFE				1 7 1 0			
BY WHOM (name, title, agency) Louie Bucher, Commissioner, Dolores, County							
HAVE ALL REQUIRED NOTIFICATIONS BEEN MADE <u>XX</u> YES <u>    </u> NO							
LIST CSP PERSONNEL AT SCENE		Reg HRS		# OF HOURS OT		ASSISTING AGENCY	
D.H.Sheppard		3.50		5.25		Dolores County S.O.	
D.R.Beaty		2.75		5.25		Dove Creek Vol. F.D.	
PREPARER'S NAME AND I.D. NO Dennis R. Beaty 0861				DATE 10-13-92		REVIEWED BY AND I.D. NO.  	
DATE							
COPIES FORWARDED TO: DODES <u>    </u> COLO. DEPT. OF HEALTH <u>    </u> DOT <u>    </u> EPA <u>    </u> PUC <u>    </u> COLO. DEPT. OF TRANS <u>    </u> CSP <u>    </u>							

# ENVIROTECH INC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

5796 U.S. HIGHWAY 64 - 3014  
FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 - 3800

1.5 miles  
Angel Peak Road  
Turn Right

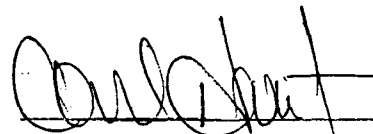
## Certification of Waste Status

originating location 14 MILES SOUTHWEST OF DOYE CREEK COLORADO

Disposal Location: Envirotech Soil Remediation Site, Hilltop, NM

"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by EPA's July 1988 Regulatory Determination and that non-exempt waste that is a "hazardous waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the exempt waste in such a manner so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Section 261.3(b)."

Signature



Name, Date

CARL HUNT 10/22/92

Company

I. C. HUNT CO. INC.

Address

286 W. 600 S. BLANDING, UTAH

# ENVIROTECH INC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

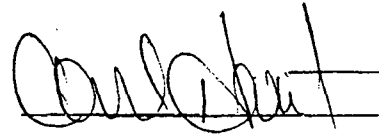
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Signature 

Name, Date CARL HUNT 10/22/92

Company J.C. HUNT CO. INC.

Address 286 W. 600 S. BLANDING, UTAH

**COLORADO HAZARDOUS MATERIAL INCIDENT REPORT**

AGENCY NAME Colorado State Patrol				CLAIMING REIMBURSEMENT Yes <u>XX</u> No <u>    </u>		AGENCY INCIDENT NO. 92-10-8C3		AGENCY PHONE NUMBER (303) 565 - 8460		
INCIDENT DATE		MO <u>10</u>	DAY <u>06</u>	YR <u>92</u>	TIME NOTIFIED <u>1</u> <u>8</u> <u>15</u>		TIME ARRIVED <u>1</u> <u>18</u> <u>59</u>		TIME INCIDENT COMPLETED <u>011</u> <u>14</u> <u>15</u>	
RESPONDERS INJURED OTHERS INJURED		<u>0</u> <u>0</u>		RESPONDERS KILLED OTHERS KILLED		<u>0</u> <u>0</u>		CITY/TOWN COUNTY & NO. Dolores 58		
LOCATION, ROUTE, STREET, ROAD <div style="text-align: right;">OF ROUTE, ST. RD., MILEPOST</div> <u>11.3</u> MILE <u>    </u> FEET <u>    </u> N <u>X</u> S <u>    </u> E <u>    </u> W Dove Creek on Co. Rd. 5 <u>    </u> AT INTERSECTION WITH ROAD CODE <u>R0058</u> MILEPOST <u>    </u> DIST. <u>5</u> TROOP <u>A</u>										
PHOTOGRAPHS TAKEN <u>    </u> YES <u>X</u> NO				PROPERTY MANAGEMENT <u>    </u> FED. <u>    </u> STATE <u>X</u> COUNTY <u>    </u> CITY <u>    </u> PRIVATE <u>    </u> UNKNOWN <u>    </u> OTHER <u>    </u>						
RELEASE FACTORS (CHECK BEST DESCRIPTOR/S)					TYPE OF EQUIPMENT INVOLVED			MOBILE PROPERTY TYPE		
11 INTENTIONAL ACT 21 SUSPICIOUS ACT 30 FAILURE TO CONTROL HAZ MAT 31 ABANDONED 40 MISUSE OF HAZ MAT 50 MECHANICAL FAILURE 60 DESIGN, CONSTRUCTION, INSTALLATION DEFICIENCY 70 OPERATIONAL DEFICIENCY 71 <u>X</u> COLLISION/OVERTURN 80 NATURAL CONDITION 90 UNKNOWN 94 FIRE/EXPLOSION 97 ACCIDENTAL RELEASE 98 NO RELEASE 99 OTHER					10 HEATING SYSTEMS 30 AIR CONDITION/REFRIG 77 CHEM PROCESSING EQUIP. 78 WASTE RECOVERY EQUIP. 96 HAZ MAT TRANSFER EQUIP. 98 <u>X</u> NO EQUIP INVOLVED 99 OTHER			10 PASSENGER VEH/ROAD 20 <u>X</u> FREIGHT VEH/ROAD 30 RAIL TRANSPORT VEH. 40 WATER TRANS VESSEL 50 AIR TRANSPORT VEH. 60 HEAVY EQUIP-INDUST/AGRI 90 OTHER		
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31 RESCUE, REMOVE FROM HARM 32 EXTRICATION, DISENTANGLEMENT 33 EMERGENCY MEDICAL SERVICES 35 SEARCH 36 TRANSPORT 37 EXTINGUISH FIRE 41 REMOVE HAZARD 42 <u>X</u> ID/ANALYSIS OF HAZ MAT 43 EVACUATION 44 <u>X</u> ESTABLISH SAFE AREA 45 <u>X</u> MONITOR 46 DECON-PERSON/EQUIP 47 DECON AREA 61 CROWD CONTROL 62 TRAFFIC CONTROL 63 NOTIFY OTHER AGENCY 64 PROVIDE PUBLIC INFO 71 INVESTIGATE 73 SHUT DOWN SYSTEM 82 SECURE PROPERTY 92 REFER TO PROPER AUTHORITY 97 <u>X</u> CONFINED/CONTAINED 98 NO ACTION TAKEN 99 OTHER										
CHEMICAL OR TRADE NAME (PRINT OR TYPE) PETROLEUM, Crude Oil				DOT ID NO. <u>1 2 6 7</u>		DOT HAZARD CLASS <u>3</u>		CAS NO. <u>    </u>		
PHYSICAL STATE STORED 1 SOLID 2 <u>X</u> LIQUID 3 GAS		PHYSICAL STATE RELEASED 1 SOLID 2 <u>X</u> LIQUID 3 GAS		QUANTITY RELEASED 1 lbs. 2 <u>X</u> gal. 3 cu ft. <u>    1 0 0 0</u>		ENVIRONMENTAL CONTAMINATION 1 AIR 2 WATER 7 <u>X</u> GROUND 9 OTHER		(USE CODES) EXTENT OF RELEASE <u>3</u>		
CONTAINER DESCRIPTION 1 FIXED 4 ARMORED 2 PORTABLE 5 INSULATED 3 <u>X</u> MOBILE 6 PRESSURIZED		(USE CODES ON REVERSE) CONTAINER TYPE <u>1 2</u>		LEVEL OF CONTAINER <u>1 0</u>		CONTAINER MATERIAL <u>0 2</u>		CONTAINER CAPACITY 1 lbs. 2 <u>X</u> gal. 3 cu ft. <u>    5 2 5 0</u>		
CHEMICAL OR TRADE NAME (PRINT OR TYPE)				DOT ID NO.		DOT HAZARD CLASS		CAS NO.		
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MORE THAN 3 SUBSTANCES INVOLVED (LIST ADDITIONAL INFORMATION ON REVERSE SIDE) <u>    </u> YES <u>    </u> NO				TYPE OF INCIDENT <u>    </u> TRANSPORTATION <u>    </u> FIXED SITE <u>    </u> OTHER			DAMAGE ESTIMATE		DID THE INCIDENT TAKE PLACE ON A HAZARD MATERIAL ROUTE? <u>    </u> YES <u>    </u> NO	
INSURANCE COMPANY Fedareted Service Insurance Co.						POLICY # 616647		TELEPHONE # (801) 3 6 4 - 3 4 3 4		

WEATHER (CHECK BEST DESCRIPTOR(S)) WAS WEATHER A FACTOR <u>YES</u> <del>NO</del> 1X CLEAR 3 SNOW 5 ELECTRICAL STORM 7 HIGH WIND 2 RAIN 4 HAIL 6 FOG 8 OTHER 9 UNKNOWN				PROPERTY USE (USE CODES BELOW) PROPERTY USE <u>962</u> SURROUNDING AREA <u>650</u>		CASE # <u>92-10-8C3</u>	
CARRIER'S/FACILITY NAME J.C.Hunt Co. Inc.						PHONE NUMBER (801 ) <u>678-2515</u>	
ADDRESS (INCLUDE CITY, STATE AND ZIP CODE) 286 West 600 South (60-7), Blanding, Ut. 84511							
DRIVER'S/CONTACT'S NAME Keylon, Harold G.				D/L LICENSE NUMBER R49610225		STATE Ut.	
ADDRESS (INCLUDE CITY, STATE AND ZIP CODE) 390 West 100 South (54-4), Blanding, Ut. 84511						PHONE NUMBER (801 ) <u>678-2289</u>	
VEH. LIC. Temp.		ST. Ut.		TRL LIC. 43845E		ST. Ut.	
VEH. ID NO. (VIN)		1XKWDB9X4FK326587					
PUC #		US DOT # 154090		NUCLEAR PERMIT #			
ICC #		HAZ MAT PERMIT #10190		CARGO TANK SPEC. # DOT/MC <u>307AL</u>			
VIOLATION Careless Driving		VIOLATION CODE 42-4-1204		CITATION #0288139		COMMON CODE 141	
VIOLATION		VIOLATION CODE		CITATION #		COMMON CODE	
CLEAN UP PERFORMED BY Crowley Construction		ADDRESS HC63 Box 66, Monticello, Ut. 84535		CITY STATE ZIP		PHONE NO. 801-587-2377	
PROPERTY USE and SURROUNDING AREA TYPE 100 Public assembly 700 Manufacturing 961 Freeway 200 Educational 762 Hazmat chem mfg. 962 County/City road 300 Health care 767 Petroleum 963 Private road 400 Residential 800 Storage 099 Other - explain in 500 Mercantile, Business 936 Vacant lot comments section 600 Industrial, Utility 946 Lake/River/Pond 098 State Highway 650 Agricultural 950 Railroad				EXTENT OF RELEASE 1 - Confined to vehicle/equipment 3 - Confined to ground around vehicle 4 - Confined to room/floor or origin 5 - Confined to structure of origin 6 - Confined to property use of origin 7 - Release beyond property use of origin 8 - No release 9 - Other - explain in comments			
CONTAINER TYPE 01 - Tank 02 - Drum/Barrel 03 - Cylinder 04 - Can/Bottle 05 - Carboy 06 - Boxes/Cartons 07 - Boxes 12 - Cargo Tank 13 - Portable Tank		08 - Sump/Pit/Pond 09 - Well 10 - Machinery/Processing Equipment 11 - Pipe 18 - No container 19 - Other - explain in comments section 14 - Mtr. Veh. Fuel Tank		LEVEL OF CONTAINER 11 - Ground level 10 - Above ground 40 - Below ground		CONTAINER MATERIAL 1 - Iron and iron alloys 2 - Aluminum and aluminum alloys 3 - Copper and copper alloys 4 - Plastic (includes fiberglass), rigid 5 - Plastic, flexible 6 - Wood, paper, and cellulose products 7 - Glass 8 - NO container 9 - Other - explain in comments 0 - Unknown	
DATE SCENE DECLARED SAFE		10 09 92		BY WHOM (name, title, agency)			
TIME SCENE DECLARED SAFE		1 7 1 0		Louie Bucher, Commissioner, Dolores, County			
HAVE ALL REQUIRED NOTIFICATIONS BEEN MADE <u>XX</u> YES <u>    </u> NO							
LIST CSP PERSONNEL AT SCENE		Reg HRS		# OF HOURS OT		ASSISTING AGENCY	
D.H.Sheppard		3.50		5.25		Dolores County S.O.	
D.R.Beaty		2.75		5.25		Dove Creek Vol. F.D.	
PREPARER'S NAME AND I.D. NO		DATE		REVIEWED BY AND I.D. NO.			DATE
Dennis R. Beaty 0861		10-13-92					
COPIES FORWARDED TO: DODES <u>    </u> COLO. DEPT. OF HEALTH <u>    </u> DOT <u>    </u> EPA <u>    </u> PUC <u>    </u> COLO. DEPT. OF TRANS <u>    </u> CSP <u>    </u>							

## NARRATIVE/SUPPLEMENTAL REPORT

Case # 92-10-8C3

[illegible]

## NARRATIVE/SUPPLEMENTAL REPORT

[illegible]

PHONE: (505) 632-0615

# Bill of Lading

MONTH OF

Nov

72

235

[illegible]



# ENVIROTECH INC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

5796 U.S. HIGHWAY 64 - 3014  
FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615

October 19, 1992

RECEIVED  
OCT 21 1992  
OIL CON. DIV. I  
DIST. 3

Mr. Denny Foust  
Environmental Compliance Inspector  
New Mexico Oil Conservation Division  
1000 Rio Brazos Road

Re: Request for authorization to receive  
contaminated soil

Project 92178

Dear Mr. Foust:

Mr. Howard Whitlock has requested Envirotech Inc. receive hydrocarbon contaminated soils from an underground storage tank site. The contamination was discovered when the tank was removed from service at the Ikard & Newsom Propane Company site 824 US Hwy. 550 Flora Vista, New Mexico.

In-as-much as the tank contained used oil, a TCLP Analysis was performed to characterize the soils as per RCRA Regulatory Limits. The attached analysis results show the waste to be classified as non-hazardous.

Envirotech Inc. requests authorization to receive this soil for remediation.

Your assistance is greatly appreciated.

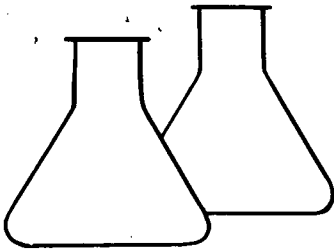
Sincerely,

*Morris D. Young*

Morris D. Young  
President  
MDY/cj97

Verbal OK  
10/20/92  
D97

cc: Mr. Howard Whitlock  
Mr. Leonard Murray - UST Bureau Farmington  
Mr. Robert Sweeney - UST Bureau Sante Fe



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

RECEIVED  
OCT 21 1992  
OIL CON. DIV./  
DIST. 3

## EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client: Whitlock  
Sample ID: TR1 @ 4' BPB  
Laboratory Number: 2011  
Sample Matrix: Soil  
Preservative: Cool  
Condition: Cool & Intact

Project #: 92178  
Date Reported: 07-27-92  
Date Sampled: 07-22-92  
Date Received: 07-22-92  
Date Analyzed: 07-27-92  
Analysis Needed: TPH

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
-----	-----	-----
Total Petroleum Hydrocarbons	740	5.0

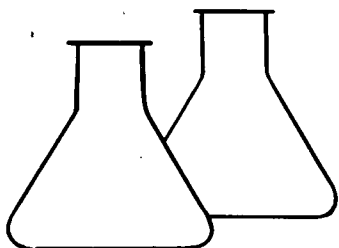
Method: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

ND - Parameter not detected at the stated detection limit.

Comments: Ikard/Newsom Center of Pit

Robert M. Young  
Analyst

Maris L. Young  
Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHODS 8010/8020 AROMATIC VOLATILE ORGANICS/HALOGENATED VOLATILE ORGANICS

Client:	Howard Whitlock	Project #:	92178
Sample ID:	TR1 @ 4' BPB	Date Reported:	10-16-92
Laboratory Number:	2012	Date Sampled:	07-22-92
Sample Matrix:	Soil	Date Received:	07-22-92
Preservative:	Cool	Date Extracted:	08-27-92
Condition:	Cool and Intact	Date Analyzed:	10-12-92
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.010	0.2
1,1-Dichloroethene	ND	0.017	0.7
Chloroform	ND	0.010	6.0
Benzene	ND	0.010	0.5
Carbon Tetrachloride	ND	0.010	0.5
2-Butanone	ND	0.013	200
1,2-Dichloroethane	ND	0.010	0.5
Trichloroethene	ND	0.010	0.5
Tetrachloroethene	ND	0.010	0.7
Chlorobenzene	ND	0.011	100
1,4-Dichlorobenzene	ND	0.010	7.5

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	86.9 %
	Bromfluorobenzene	90.8 %

Method: Method 1311, Toxicity Characteristic Leaching Procedure  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986

Method 5030, Purge-and-Trap, Test Methods for Evaluating  
Solid Waste, SW-846, USEPA, Sept. 1986


Method 8010, Halogenated Volatile Organics, Test Methods  
for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

Method 8020, Aromatic Volatile Organics, Test Methods for  
Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

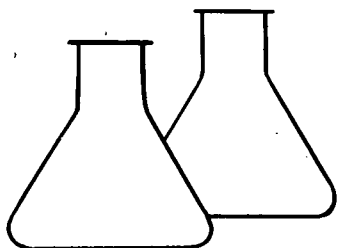
Regulatory Limits based on 40 CFR part 261 subpart C  
section 261.24, July 1, 1990

ND - Parameter not detected at the stated detection limit.

Comments: Ikard-Newsom, 826 U.S. Highway 550, Aztec

  
Analyst

  
Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 8040 PHENOLS

Client:	Whitlock	Project #:	92178
Sample ID:	TR1@4'BPB	Date Reported:	09-30-92
Laboratory Number:	2012	Date Sampled:	07-22-92
Sample Matrix:	Soil	Date Received:	07-22-92
Preservative:	Cool	Date Extracted:	08-27-92
Condition:	Cool & Intact	Date Analyzed:	09-29-92
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	ND	0.020	200.0
p,m-Cresol	ND	0.040	200.0
2,4,6-Trichlorophenol & 2,4,5-Trichlorophenol	ND	0.040	2.0
Pentachlorophenol	ND	0.025	100.0

Method: Method 1311, Toxicity Characteristic Leaching Procedure  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.

Method 3510, Separatory Funnel Liquid-Liquid Extraction,  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.

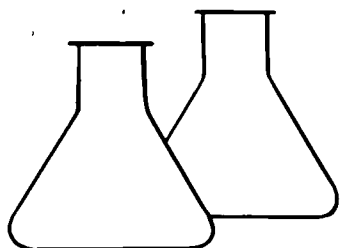
Method 8040, Phenols, Test Methods for Evaluating Solid  
Waste, SW-846, USEPA, Sept. 1986.

ND - Parameter not detected at the stated detection limit.

Comments: Whitlock/Ikard Newsom---826 US HWY 550, Aztec.  
Sample taken from 4' below center of pit bottom.

Robert M. Young  
Analyst

Morris D. Young  
Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 8090 NITROAROMATICS AND CYCLIC KETONES

Client:	Howard Whitlock	Project #:	92178
Sample ID:	TR1@4' BPB Center	Date Reported:	10-02-92
Laboratory Number:	2012	Date Sampled:	07-22-92
Sample Matrix:	Soil	Date Received:	07-22-92
Preservative:	Cool	Date Analyzed:	10-01-92
Condition:	Cool and Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.021	5.0
Nitrobenzene	ND	0.020	5.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-dinitrotoluene	ND	0.020	0.13
Hexachlorobenzene	ND	0.020	0.13

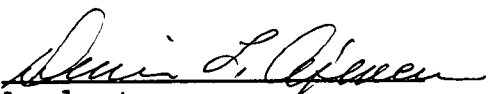
Method: Method 1311, Toxicity Characteristic Leaching Procedure  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.

Method 3510, Separatory Funnel Liquid-Liquid Extraction,  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.

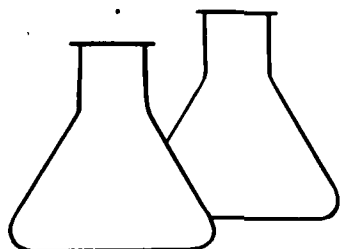
Method 8090, Nitroaromatics and Cyclic Ketones,  
Test Methods for Evaluating Solid Waste, SW-846,  
USEPA, Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments: Whitlock / Ikard-Newsom, 826 U.S. Highway 550, Aztec

  
Analyst

  
Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401

PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS

Client:	Howard Whitlock	Project #:	92178
Sample ID:	Tri @ 4' BPB-Center of Pit	Date Reported:	09-15-92
Laboratory Number:	2012	Date Sampled:	07-22-92
Sample Matrix:	Soil	Date Received:	07-22-92
Preservative:	Cool	Date Analyzed:	09-14-92
Condition:	Cool and Intact	Date Extracted:	08-27-92
		Analysis Needed:	TCLP

Parameter	Regulatory Level (mg/L)	Concentration (mg/L)	Det. Limit (mg/L)
ARSENIC	5.000	0.001	0.001
BARIUM	100.0	2.4	0.1
CADMIUM	1.000	0.004	0.001
CHROMIUM	5.000	0.056	0.001
LEAD	5.000	ND	0.001
MERCURY	0.200	0.003	0.002
SELENIUM	1.000	ND	0.001
SILVER	5.00	ND	0.01

Method: Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, Sept. 1986

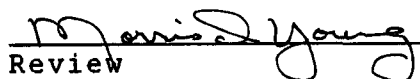
Methods 7060A, 7080A, 7131A, 7191, 7470A, 7421, 7740, 7760A  
Analysis of Metals by GFAA and FLAA, SW-846, USEPA

Method 1311, Toxicity Characteristic Leaching Procedure  
SW-846, USEPA, Nov. 1990

ND - Parameter not detected at the stated detection limit.

Comments: Whitlock / Ikard-Newsom, 826 U.S. Highway 550 - Aztec

  
Analyst

  
Review

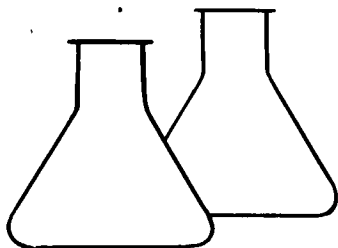
ENVIROTECH LABORATORIES

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5796 U.S. HIGHWAY 64-3014  
FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615

QUALITY ASSURANCE/QUALITY CONTROL

DOCUMENTATION



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHODS 8010/8020 AROMATIC VOLATILE ORGANICS/HALOGENATED VOLATILE ORGANICS

Client:	NA	Project #:	NA
Sample ID:	Laboratory Blank	Date Reported:	10-16-92
Laboratory Number:	LB-10-12	Date Sampled:	NA
Sample Matrix:	Water	Date Received:	NA
Preservative:	NA	Date Analyzed:	10-12-92
Condition:	NA	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.005	0.2
1,1-Dichloroethene	ND	0.008	0.7
Chloroform	ND	0.005	6.0
Benzene	ND	0.005	0.5
Carbon Tetrachloride	ND	0.005	0.5
2-Butanone	ND	0.007	200
1,2-Dichloroethane	ND	0.005	0.5
Trichloroethene	ND	0.005	0.5
Tetrachloroethene	ND	0.005	0.7
Chlorobenzene	ND	0.005	100
1,4-Dichlorobenzene	ND	0.005	7.5

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	117.5 %
	Bromfluorobenzene	96.4 %

Method: Method 1311, Toxicity Characteristic Leaching Procedure  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986

Method 5030, Purge-and-Trap, Test Methods for Evaluating  
Solid Waste, SW-846, USEPA, Sept. 1986

Method 8010, Halogenated Volatile Organics, Test Methods  
for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

Method 8020, Aromatic Volatile Organics, Test Methods for  
Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

Regulatory Limits based on 40 CFR part 261 Subpart C  
section 261.24, July 1, 1990

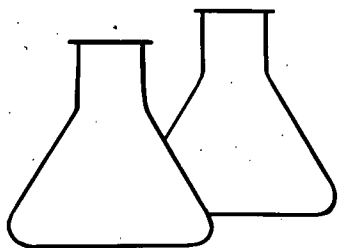
ND - Parameter not detected at the stated detection limit.

Comments:

*Kevin L. Capner*  
Analyst

*Maris D. Young*  
Review





# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 8040 PHENOLS

Client:	NA	Project #:	NA
Sample ID:	Laboratory Blank	Date Reported:	09-31-92
Laboratory Number:	AELB0929	Date Sampled:	NA
Sample Matrix:	2-Propanol	Date Received:	NA
Preservative:	NA	Date Analyzed:	09-29-92
Condition:	NA	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	ND	0.020	200.0
p,m-Cresol	ND	0.040	200.0
2,4,6-Trichlorophenol & 2,4,5-Trichlorophenol	ND	0.040	2.0
Pentachlorophenol	ND	0.020	100.0

Method: Method 1311, Toxicity Characteristic Leaching Procedure  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.

Method 3510, Separatory Funnel Liquid-Liquid Extraction,  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.

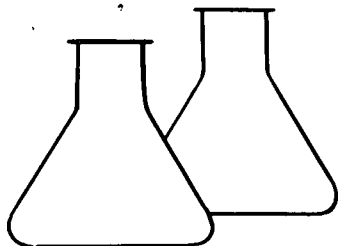
Method 8040, Phenols, Test Methods for Evaluating Solid  
Waste, SW-846, USEPA, Sept. 1986.

ND - Parameter not detected at the stated detection limit.

Comments:

Robert M Young  
Analyst

Morris D Young  
Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 8090 NITROAROMATICS AND CYCLIC KETONES

Client:	NA	Project #:	NA
Sample ID:	Lab Blank	Date Reported:	10-02-92
Laboratory Number:	BN0930.BLK	Date Sampled:	NA
Sample Matrix:	Hexane	Date Received:	NA
Preservative:	NA	Date Analyzed:	09-30-92
Condition:	NA	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.021	5.0
Nitrobenzene	ND	0.020	5.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-dinitrotoluene	ND	0.020	0.13
Hexachlorobenzene	ND	0.020	0.13

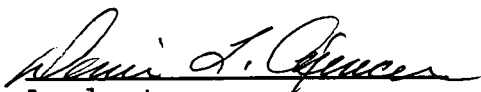
Method: Method 1311, Toxicity Characteristic Leaching Procedure  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.


Method 3510, Separatory Funnel Liquid-Liquid Extraction,  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.

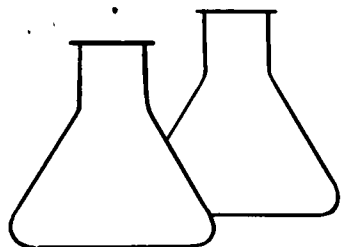
Method 8090, Nitroaromatics and Cyclic Ketones,  
Test Methods for Evaluating Solid Waste, SW-846,  
USEPA, Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments:

  
Analyst

  
Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 1311  
TOXICITY CHARACTERISTIC LEACHING PROCEDURE  
TRACE METAL ANALYSIS - BLANKS

Client:	NA	Project #:	NA
Sample ID:	Blanks	Date Reported:	09-15-92
Laboratory Number:	NA	Date Sampled:	NA
Sample Matrix:	TCLP Extract	Date Received:	NA
Analysis Requested:	TCLP	Date Analyzed:	09-14-92
Condition:	NA	Date Extracted:	08-31-92

Parameter	Instrument Blank (mg/L)	Extraction Sol. Blank (mg/L)	Det. Limit (mg/L)
ARSENIC	ND	ND	0.001
BARIUM	ND	ND	0.1
CADMIUM	ND	ND	0.001
CHROMIUM	ND	ND	0.001
LEAD	ND	ND	0.001
MERCURY	ND	ND	0.002
SELENIUM	ND	ND	0.001
SILVER	ND	ND	0.01

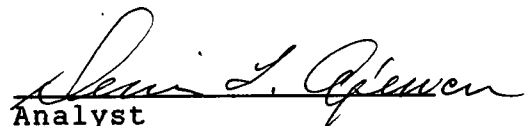
Method: Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, Sept. 1986

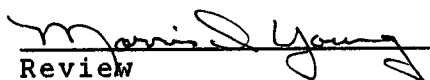
Methods 7060A, 7080A, 7131A, 7191, 7470A, 7421, 7740, 7760A  
Analysis of Metals by GFAA and FLAA, SW-846, USEPA

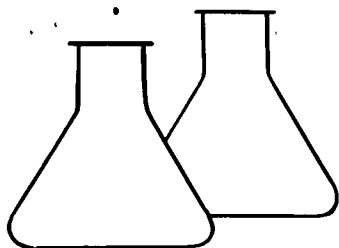
Method 1311, Toxicity Characteristic Leaching Procedure  
SW-846, USEPA, Nov. 1990

ND - Parameter not detected at the stated detection limit.

Comments:

  
Analyst

  
Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

QUALITY ASSURANCE REPORT  
EPA METHOD 1311  
TOXICITY CHARACTERISTIC LEACHING PROCEDURE  
TRACE METAL ANALYSIS - MATRIX SPIKE

Client:	NA	Project #:	NA
Sample ID:	NA	Date Reported:	09-15-92
Laboratory Number:	NA	Date Sampled:	NA
Sample Matrix:	TCLP Extract	Date Received:	NA
Analysis Requested:	TCLP	Date Analyzed:	09-14-92
Condition:	NA	Date Extracted:	NA

Parameter	Spike Added (mg/L)	Sample Result (mg/L)	Spiked Sample Result (mg/L)	Percent Recovery
ARSENIC	0.100	0.002	0.105	103.0
BARIUM	10.0	ND	10.5	105.0
CADMIUM	0.100	ND	0.108	108.0
CHROMIUM	0.100	0.053	0.151	98.0
LEAD	0.100	0.001	0.101	100.0
MERCURY	0.100	0.002	0.108	106.0
SELENIUM	0.100	ND	0.102	102.0
SILVER	1.00	ND	1.00	100.0

QA ACCEPTANCE CRITERIA:	Parameter	Acceptance Range %
	TCLP Metals	80 - 120

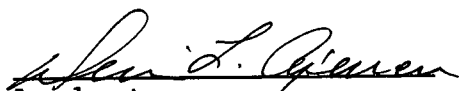
Method: Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, Sept. 1986

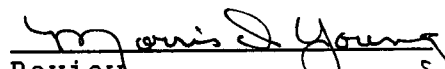
Methods 7060A, 7080A, 7131A, 7191, 7470A, 7421, 7740, 7760A  
Analysis of Metals by GFAA and FLAA, SW-846, USEPA

Method 1311, Toxicity Characteristic Leaching Procedure  
SW-846, USEPA, Nov. 1990

ND - Parameter not detected at the stated detection limit.

Comments:

  
Analyst

  
Review

## CHAIN OF CUSTODY RECORD

san juan repro Form 578-81

# ENVIROTECH INC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

5796 U.S. HIGHWAY 64 - 3014  
FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615

October 19, 1992

RECEIVED

OCT 21 1992

OIL CON. DIV./  
DIST. 3

Mr. Denny Foust  
Environmental Compliance Inspector  
New Mexico Oil Conservation Division  
1000 Rio Brazos Road  
Aztec, New Mexico 87410

Re: Request for Authorization to Receive  
Contaminated Soil

Project 91363

Dear Mr. Foust:

Conoco Inc. has requested Envirotech Inc. receive hydrocarbon contaminated soils from a clean-up of their Primo 1A compressor site.

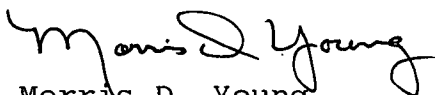
The contaminated soils resulted from spills of produced hydrocarbons and from lubricating oil leaks and spills at the site. In-as-much as lubricating oils were involved, the attached TCLP analysis was performed.

As per the attached analysis this soil is classified as non-hazardous per RCRA Regulatory limits.

Envirotech Inc. requests authorization to receive the soils for remediation.

Your assistance is greatly appreciated.

Sincerely,



Morris D. Young  
President

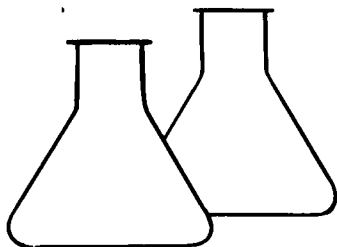
MDY/cj96

CC: Mr. Dan McCoy - Conoco Inc.

Verbal OK

10/20/92





# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

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OCT 21 1992

OIL CON. DIV.  
DIST. 3

## EPA METHODS 8010/8020 AROMATIC VOLATILE ORGANICS/HALOGENATED VOLATILE ORGANICS

Client:	Conoco	Project #:	91363
Sample ID:		Date Reported:	10-16-92
Laboratory Number:	1970	Date Sampled:	07-16-92
Sample Matrix:	Soil	Date Received:	07-16-92
Preservative:	Cool	Date Extracted:	08-27-92
Condition:	Cool and Intact	Date Analyzed:	10-12-92
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.010	0.2
1,1-Dichloroethene	ND	0.017	0.7
Chloroform	ND	0.010	6.0
Benzene	ND	0.010	0.5
Carbon Tetrachloride	ND	0.010	0.5
2-Butanone	ND	0.013	200
1,2-Dichloroethane	ND	0.010	0.5
Trichloroethene	ND	0.010	0.5
Tetrachloroethene	ND	0.010	0.7
Chlorobenzene	ND	0.011	100
1,4-Dichlorobenzene	ND	0.010	7.5

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	95.8 %
	Bromfluorobenzene	101.4 %

Method: Method 1311, Toxicity Characteristic Leaching Procedure  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986

Method 5030, Purge-and-Trap, Test Methods for Evaluating  
Solid Waste, SW-846, USEPA, Sept. 1986

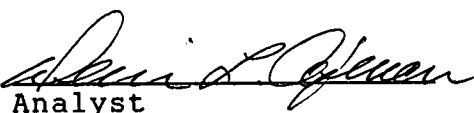
Method 8010, Halogenated Volatile Organics, Test Methods  
for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

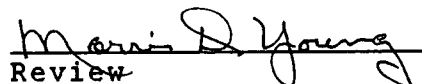
Method 8020, Aromatic Volatile Organics, Test Methods for  
Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

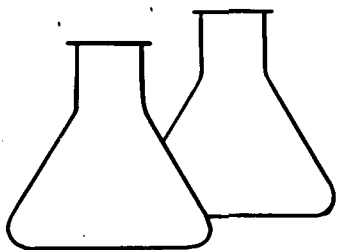
Regulatory Limits based on 40 CFR part 261 subpart C  
section 261.24, July 1, 1990

ND - Parameter not detected at the stated detection limit.

Comments: Conoco Primo 1A

  
Analyst

  
Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 8040 PHENOLS

Client:	Conoco	Project #:	91363
Sample ID:		Date Reported:	09-30-92
Laboratory Number:	1970	Date Sampled:	07-16-92
Sample Matrix:	Soil	Date Received:	07-16-92
Preservative:	Cool	Date Extracted:	08-27-92
Condition:	Cool & Intact	Date Analyzed:	09-29-92
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	ND	0.020	200.0
p,m-Cresol	ND	0.040	200.0
2,4,6-Trichlorophenol & 2,4,5-Trichlorophenol	ND	0.040	2.0
Pentachlorophenol	ND	0.025	100.0

Method: Method 1311, Toxicity Characteristic Leaching Procedure  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.

Method 3510, Separatory Funnel Liquid-Liquid Extraction,  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.

Method 8040, Phenols, Test Methods for Evaluating Solid  
Waste, SW-846, USEPA, Sept. 1986.

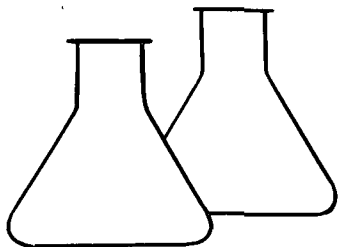
ND - Parameter not detected at the stated detection limit.

Comments: Conoco Primo 1A.

Robert M Young  
Analyst

Morris D Young  
Review





# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 8090 NITROAROMATICS AND CYCLIC KETONES

Client:	Conoco	Project #:	91363
Sample ID:	Compressor Site	Date Reported:	10-02-92
Laboratory Number:	1970	Date Sampled:	07-16-92
Sample Matrix:	Soil	Date Received:	07-16-92
Preservative:	Cool	Date Analyzed:	10-01-92
Condition:	Cool and Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.021	5.0
Nitrobenzene	ND	0.020	5.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-dinitrotoluene	ND	0.020	0.13
Hexachlorobenzene	ND	0.020	0.13

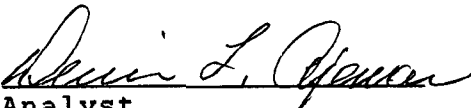
Method: Method 1311, Toxicity Characteristic Leaching Procedure  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.


Method 3510, Separatory Funnel Liquid-Liquid Extraction,  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.

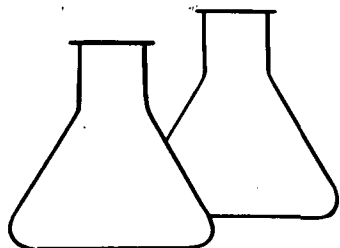
Method 8090, Nitroaromatics and Cyclic Ketones,  
Test Methods for Evaluating Solid Waste, SW-846,  
USEPA, Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments: Conoco Primo 1A Compressor Site

  
Analyst

  
Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS

Client:	Conoco	Project #:	91363
Sample ID:	Compressor Site	Date Reported:	09-15-92
Laboratory Number:	1970	Date Sampled:	07-16-92
Sample Matrix:	Soil	Date Received:	07-16-92
Preservative:	Cool	Date Analyzed:	09-14-92
Condition:	Cool and Intact	Date Extracted:	08-27-92
		Analysis Needed:	TCLP

Parameter	Regulatory Level (mg/L)	Concentration (mg/L)	Det. Limit (mg/L)
ARSENIC	5.000	0.002	0.001
BARIUM	100.0	ND	0.1
CADMIUM	1.000	ND	0.001
CHROMIUM	5.000	0.053	0.001
LEAD	5.000	0.001	0.001
MERCURY	0.200	0.002	0.002
SELENIUM	1.000	ND	0.001
SILVER	5.00	ND	0.01

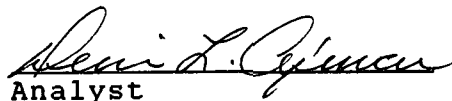
Method: Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, Sept. 1986

Methods 7060A, 7080A, 7131A, 7191, 7470A, 7421, 7740, 7760A  
Analysis of Metals by GFAA and FLAA, SW-846, USEPA

Method 1311, Toxicity Characteristic Leaching Procedure  
SW-846, USEPA, Nov. 1990

ND - Parameter not detected at the stated detection limit.

Comments: Conoco Primo 1A

  
Analyst

  
Review

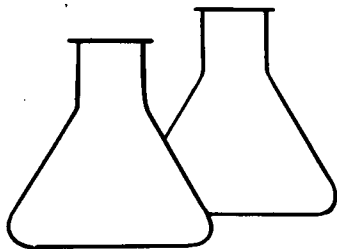
ENVIROTECH LABORATORIES

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5796 U.S. HIGHWAY 64-3014  
FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615

QUALITY ASSURANCE/QUALITY CONTROL

DOCUMENTATION



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHODS 8010/8020 AROMATIC VOLATILE ORGANICS/HALOGENATED VOLATILE ORGANICS

Client:	NA	Project #:	NA
Sample ID:	Laboratory Blank	Date Reported:	10-16-92
Laboratory Number:	LB-10-12	Date Sampled:	NA
Sample Matrix:	Water	Date Received:	NA
Preservative:	NA	Date Analyzed:	10-12-92
Condition:	NA	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.005	0.2
1,1-Dichloroethene	ND	0.008	0.7
Chloroform	ND	0.005	6.0
Benzene	ND	0.005	0.5
Carbon Tetrachloride	ND	0.005	0.5
2-Butanone	ND	0.007	200
1,2-Dichloroethane	ND	0.005	0.5
Trichloroethene	ND	0.005	0.5
Tetrachloroethene	ND	0.005	0.7
Chlorobenzene	ND	0.005	100
1,4-Dichlorobenzene	ND	0.005	7.5

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	117.5 %
	Bromfluorobenzene	96.4 %

Method: Method 1311, Toxicity Characteristic Leaching Procedure  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986

Method 5030, Purge-and-Trap, Test Methods for Evaluating  
Solid Waste, SW-846, USEPA, Sept. 1986

Method 8010, Halogenated Volatile Organics, Test Methods  
for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986


Method 8020, Aromatic Volatile Organics, Test Methods for  
Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

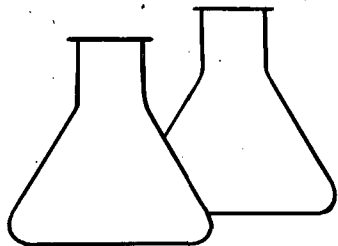
Regulatory Limits based on 40 CFR part 261 Subpart C  
section 261.24, July 1, 1990

ND - Parameter not detected at the stated detection limit.

Comments:

  
Analyst

  
Review



# ENV RO' ECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 8040 PHENOLS

Client:	NA	Project #:	NA
Sample ID:	Laboratory Blank	Date Reported:	09-31-92
Laboratory Number:	AELB0929	Date Sampled:	NA
Sample Matrix:	2-Propanol	Date Received:	NA
Preservative:	NA	Date Analyzed:	09-29-92
Condition:	NA	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	ND	0.020	200.0
p,m-Cresol	ND	0.040	200.0
2,4,6-Trichlorophenol & 2,4,5-Trichlorophenol	ND	0.040	2.0
Pentachlorophenol	ND	0.020	100.0

Method: Method 1311, Toxicity Characteristic Leaching Procedure  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.

Method 3510, Separatory Funnel Liquid-Liquid Extraction,  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.

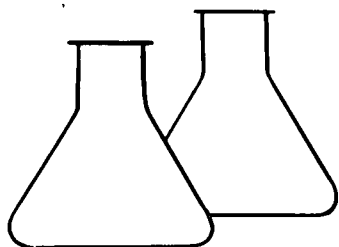
Method 8040, Phenols, Test Methods for Evaluating Solid  
Waste, SW-846, USEPA, Sept. 1986.

ND - Parameter not detected at the stated detection limit.

Comments:

Robert M. Young  
Analyst

Margaret D. Young  
Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 8090 NITROAROMATICS AND CYCLIC KETONES

Client:	NA	Project #:	NA
Sample ID:	Lab Blank	Date Reported:	10-02-92
Laboratory Number:	BN0930.BLK	Date Sampled:	NA
Sample Matrix:	Hexane	Date Received:	NA
Preservative:	NA	Date Analyzed:	09-30-92
Condition:	NA	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.021	5.0
Nitrobenzene	ND	0.020	5.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-dinitrotoluene	ND	0.020	0.13
Hexachlorobenzene	ND	0.020	0.13

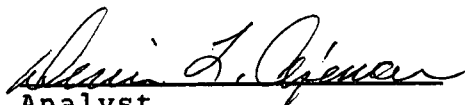
Method: Method 1311, Toxicity Characteristic Leaching Procedure  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.

Method 3510, Separatory Funnel Liquid-Liquid Extraction,  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.

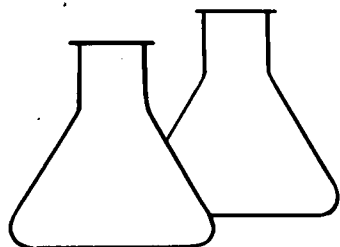
Method 8090, Nitroaromatics and Cyclic Ketones,  
Test Methods for Evaluating Solid Waste, SW-846,  
USEPA, Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments:

  
Analyst

  
Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401

PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS - BLANKS

Client:	NA	Project #:	NA
Sample ID:	Blanks	Date Reported:	09-15-92
Laboratory Number:	NA	Date Sampled:	NA
Sample Matrix:	TCLP Extract	Date Received:	NA
Analysis Requested:	TCLP	Date Analyzed:	09-14-92
Condition:	NA	Date Extracted:	08-31-92

Parameter	Instrument Blank (mg/L)	Extraction Sol. Blank (mg/L)	Det. Limit (mg/L)
ARSENIC	ND	ND	0.001
BARIUM	ND	ND	0.1
CADMIUM	ND	ND	0.001
CHROMIUM	ND	ND	0.001
LEAD	ND	ND	0.001
MERCURY	ND	ND	0.002
SELENIUM	ND	ND	0.001
SILVER	ND	ND	0.01

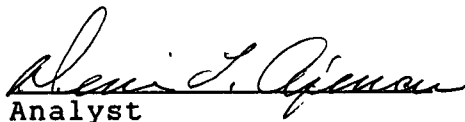
Method: Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, Sept. 1986

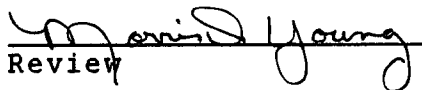
Methods 7060A, 7080A, 7131A, 7191, 7470A, 7421, 7740, 7760A  
Analysis of Metals by GFAA and FLAA, SW-846, USEPA

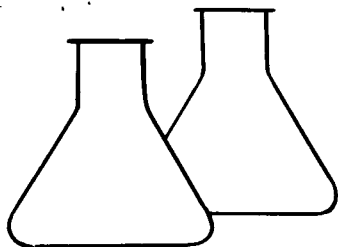
Method 1311, Toxicity Characteristic Leaching Procedure  
SW-846, USEPA, Nov. 1990

ND - Parameter not detected at the stated detection limit.

Comments:

  
Analyst

  
Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401

PHONE: (505) 632-0615 • FAX: (505) 632-1865

QUALITY ASSURANCE REPORT  
EPA METHOD 1311  
TOXICITY CHARACTERISTIC LEACHING PROCEDURE  
TRACE METAL ANALYSIS - MATRIX SPIKE

Client:	NA	Project #:	NA
Sample ID:	NA	Date Reported:	09-15-92
Laboratory Number:	NA	Date Sampled:	NA
Sample Matrix:	TCLP Extract	Date Received:	NA
Analysis Requested:	TCLP	Date Analyzed:	09-14-92
Condition:	NA	Date Extracted:	NA

Parameter	Spike Added (mg/L)	Sample Result (mg/L)	Spiked Sample Result (mg/L)	Percent Recovery
ARSENIC	0.100	0.002	0.105	103.0
BARIUM	10.0	ND	10.5	105.0
CADMIUM	0.100	ND	0.108	108.0
CHROMIUM	0.100	0.053	0.151	98.0
LEAD	0.100	0.001	0.101	100.0
MERCURY	0.100	0.002	0.108	106.0
SELENIUM	0.100	ND	0.102	102.0
SILVER	1.00	ND	1.00	100.0

QA ACCEPTANCE CRITERIA:	Parameter	Acceptance Range %
	TCLP Metals	80 - 120

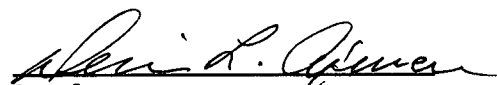
Method: Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, Sept. 1986

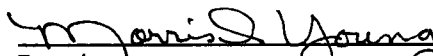
Methods 7060A, 7080A, 7131A, 7191, 7470A, 7421, 7740, 7760A  
Analysis of Metals by GFAA and FLAA, SW-846, USEPA

Method 1311, Toxicity Characteristic Leaching Procedure  
SW-846, USEPA, Nov. 1990

ND - Parameter not detected at the stated detection limit.

Comments:

  
Analyst

  
Review



[illegible]

# ENVIROTECH INC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

5796 U.S. HIGHWAY 64 - 3014  
FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615

October 19, 1992

Mr. Denny Foust  
Deputy Oil & Gas Inspector  
New Mexico Oil Conservation Division  
1000 Rio Brazos Road  
Aztec, New Mexico 87410

RECEIVED  
OCT 20 1992  
OIL CON. DIV.  
DIST. 3

RE: Request to Receive  
Phelps Dodge Gavilan Process Plant  
W/2, Se/4 Section 11, Township 25N, Range 2W, NMPM  
Rio Arriba County, New Mexico

Project No: 92194

Dear Mr. Foust:

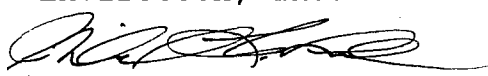
Envirotech Inc. requests approval to receive the hydrocarbon contaminated soils from the reference Phelps Dodge Facility. These soils have been removed as part of the Remedial Action Plan (RAP) approved by the New Mexico Oil Conservation Division earlier in October, 1992.

Approximately 2400 cy of soil will be removed from the site for disposal at Envirotech's Soil Remediation Facility (ESRF). Receipt of the soils should start upon OCD authorization.

A composite soil sample was collected as part of the site audit and development of the RAP. The sample was analyzed for TCLP and indicates that all contaminated soils from the site are classified as non-hazardous per RCRA (40CFR 261).

Thanks for your assistance with this project. If you have any questions regarding our site assessment or the closure operations, please contact us.

Respectfully submitted,  
Envirotech, Inc.

  
Michael K. Lane, P.E.  
Project Manager/Geological Engineer

MKL:mkl

Verbal  
10/19/92  
J27

1410OCD.RQT

# ENVIROTECH INC.

OK ✓  
UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

5796 U.S. HIGHWAY 64 - 3014  
FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615

October 13, 1992

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

RECEIVED  
OCT 16 1992  
OIL CON. DIV.  
DIST. 3

RE: La Plata Auto Salvage  
Contaminated Soil  
TCPL Analysis

Project No. 92161

Dear Mr. Foust:

Envirotech, Inc. request authorization to receive soil from a spill incident that was excavated from the La Plata Auto Salvage Site, Farmington, New Mexico.

The spill reportedly consisted of used motor oil. Therefor; we have had a TCLP analysis completed, without the pesticides and herbicides, on the contaminated soil removed from the spill.

The attached laboratory analysis show that the concentration of the TCLP target constituents are all below the RCRA regulatory levels for hazardous waste. Therefor the contaminated soils are classified as non-hazardous per RCRA (40CFR 261).

Respectfully submitted,  
ENVIROTECH, Inc.

*Michael T. Eason*

Michael T. Eason  
Hydrogeologist

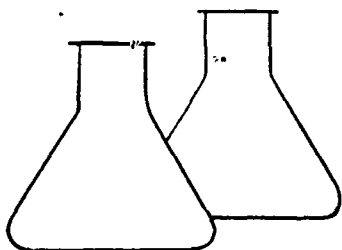
cc: Mr. Charles Peterson  
Mr. Brian Overturf

Attachments:  
Laboratory Results  
Chain-of-custody

2161TCL1.LET

*Verbal approval received from  
Mr. Denny Foust of NMOC 10-13-92  
MTE*

*D27*



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHODS 8010/8020 AROMATIC VOLATILE ORGANICS/HALOGENATED VOLATILE ORGANICS

Client:	LaPlata Auto Slvg.	Project #:	92161
Sample ID:	From Barrels	Date Reported:	09-14-92
Laboratory Number:	0825	Date Sampled:	05-21-92
Sample Matrix:	Soil	Date Received:	05-21-92
Preservative:	Cool	Date Analyzed:	08-12-92
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride & 1,1-Dichloroethene	ND	0.010	0.2
2-Butanone	ND	0.005	200.0
Chloroform	ND	0.005	6.0
Carbon Tetrachloride	ND	0.005	0.5
Benzene & 1,2-Dichloroethane	ND	0.010	0.5
Trichloroethene	ND	0.005	0.5
Tetrachloroethene	ND	0.005	0.7
Chlorobenzene	ND	0.005	100.0
1,4-Dichlorobenzene	ND	0.005	7.5

Method: Method 1311, Toxicity Characteristic Leaching Procedure  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986

Method 5030, Purge-and-Trap, Test Methods for Evaluating  
Solid Waste, SW-846, USEPA, Sept. 1986

Method 8010, Halogenated Volatile Organics, Test Methods  
for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

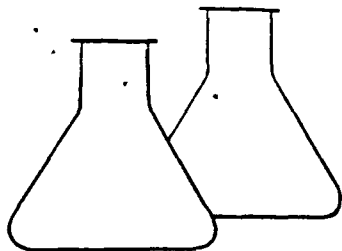
Method 8020, Aromatic Volatile Organics, Test Methods for  
Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments: LaPlata Hwy.

Rand M. Young  
Analyst

Rand M. Young  
Review



# E V RO' TECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 8040 PHENOLS

Client:	LaPlata Auto Salvage	Project #:	92161
Sample ID:	From Barrels	Date Reported:	09-30-92
Laboratory Number:	0825	Date Sampled:	05-21-92
Sample Matrix:	Soil	Date Received:	05-21-92
Preservative:	Cool	Date Extracted:	06-11-92
Condition:	Cool & Intact	Date Analyzed:	09-29-92
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	ND	0.020	200.0
p,m-Cresol	ND	0.040	200.0
2,4,6-Trichlorophenol & 2,4,5-Trichlorophenol	ND	0.040	2.0
Pentachlorophenol	ND	0.025	100.0

Method: Method 1311, Toxicity Characteristic Leaching Procedure  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.

Method 3510, Separatory Funnel Liquid-Liquid Extraction,  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.

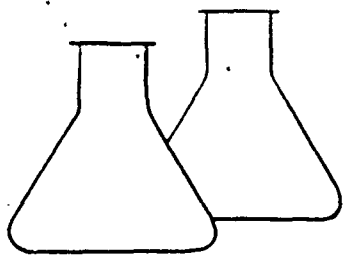
Method 8040, Phenols, Test Methods for Evaluating Solid  
Waste, SW-846, USEPA, Sept. 1986.

ND - Parameter not detected at the stated detection limit.

Comments: LaPlata Highway.

Robert M. Young  
Analyst

Morris D. Young  
Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 8090 NITROAROMATICS AND CYCLIC KETONES

Client:	La Plata Auto Salvage	Project #:	92161
Sample ID:	From Barrels	Date Reported:	10-02-92
Laboratory Number:	0825	Date Sampled:	05-21-92
Sample Matrix:	Soil	Date Received:	05-21-92
Preservative:	Cool	Date Extracted:	07-15-92
Condition:	Cool and Intact	Date Analyzed:	10-01-92
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	5.0
Nitrobenzene	ND	0.020	5.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

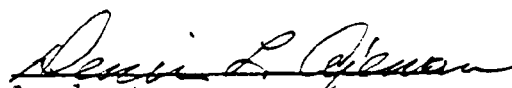
Method: Method 1311, Toxicity Characteristic Leaching Procedure  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.


Method 3510, Separatory Funnel Liquid-Liquid Extraction,  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.

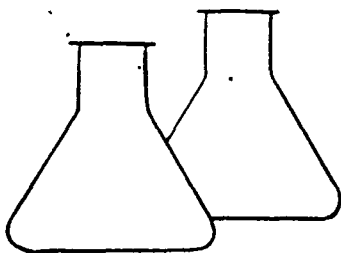
Method 8090, Nitroaromatics and Cyclic Ketones,  
Test Methods for Evaluating Solid Waste, SW-846,  
USEPA, Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments: La Plata Auto Salvage, La Plata Highway

  
Analyst

  
Review



# ENV RO TECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS

Client:	La Plata Auto Salvage	Project #:	92161
Sample ID:	From Barrels	Date Reported:	07-24-92
Laboratory Number:	0825	Date Sampled:	05-21-92
Sample Matrix:	Soil	Date Received:	05-21-92
Preservative:	NA	Date Analyzed:	07-24-92
Condition:	NA	Date Extracted:	07-15-92
		Analysis Needed:	TCLP

Parameter	Regulatory Level (mg/L)	Concentration (mg/L)	Det. Limit (mg/L)
ARSENIC	5.000	0.020	0.001
BARIUM	100.0	0.7	0.1
CADMIUM	1.000	0.006	0.001
CHROMIUM	5.000	ND	0.001
LEAD	5.000	ND	0.001
MERCURY	0.200	ND	0.002
SELENIUM	1.000	0.046	0.001
SILVER	5.00	ND	0.01

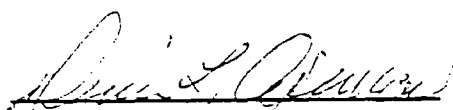
Method: Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, Sept. 1986

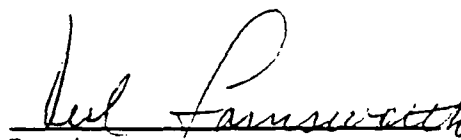
Methods 7060A, 7080A, 7131A, 7191, 7470A, 7421, 7740, 7760A  
Analysis of Metals by GFAA and FLAA, SW-846, USEPA

Method 1311, Toxicity Characteristic Leaching Procedure  
SW-846, USEPA, Nov. 1990

ND - Parameter not detected at the stated detection limit.

Comments: La Plata Highway

  
Analyst

  
Review

ENVIROTECH LABORATORIES

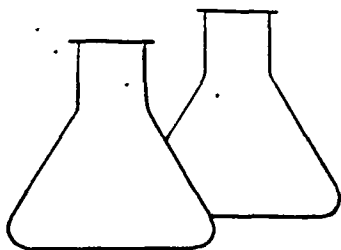
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5796 U.S. HIGHWAY 64-3014  
FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615

## QUALITY ASSURANCE/QUALITY CONTROL

DOCUMENTATION





# ENV RO TECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHODS 8010/8020 AROMATIC VOLATILE ORGANICS/HALOGENATED VOLATILE ORGANICS

Client:	NA	Project #:	NA
Sample ID:	Laboratory Blank	Date Reported:	09-14-92
Laboratory Number:	TVLB0812	Date Sampled:	NA
Sample Matrix:	Water	Date Received:	NA
Preservative:	NA	Date Analyzed:	08-12-92
Condition:	NA	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride & 1,1-Dichloroethene	ND	0.010	0.2
2-Butanone	ND	0.005	200.0
Chloroform	ND	0.005	6.0
Carbon Tetrachloride	ND	0.005	0.5
Benzene & 1,2-Dichloroethane	ND	0.010	0.5
Trichloroethene	ND	0.005	0.5
Tetrachloroethene	ND	0.005	0.7
Chlorobenzene	ND	0.005	100.0
1,4-Dichlorobenzene	ND	0.005	7.5

Method: Method 1311, Toxicity Characteristic Leaching Procedure  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986

Method 5030, Purge-and-Trap, Test Methods for Evaluating  
Solid Waste, SW-846, USEPA, Sept. 1986

Method 8010, Halogenated Volatile Organics, Test Methods  
for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

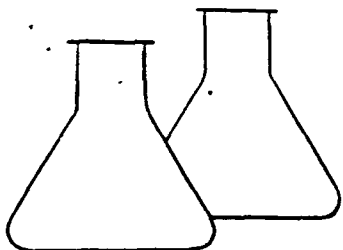
Method 8020, Aromatic Volatile Organics, Test Methods for  
Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments:

Robert Young  
Analyst

Monica Young  
Review



# ENVIRONMENTAL LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 8040 PHENOLS

Client:	NA	Project #:	NA
Sample ID:	Laboratory Blank	Date Reported:	09-31-92
Laboratory Number:	AELB0929 am	Date Sampled:	NA
Sample Matrix:	2-Propanol	Date Received:	NA
Preservative:	NA	Date Analyzed:	09-29-92
Condition:	NA	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	ND	0.020	200.0
p,m-Cresol	ND	0.040	200.0
2,4,6-Trichlorophenol & 2,4,5-Trichlorophenol	ND	0.040	2.0
Pentachlorophenol	ND	0.025	100.0

Method: Method 1311, Toxicity Characteristic Leaching Procedure  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.

Method 3510, Separatory Funnel Liquid-Liquid Extraction,  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.

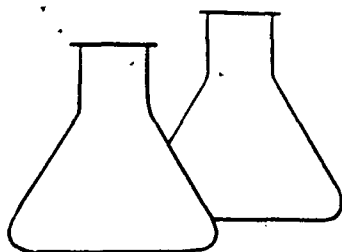
Method 8040, Phenols, Test Methods for Evaluating Solid  
Waste, SW-846, USEPA, Sept. 1986.

ND - Parameter not detected at the stated detection limit.

Comments:

Robert M. Young  
Analyst

Mavis D. Young  
Review



# ENV RO' TECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401

PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 8090 NITROAROMATICS AND CYCLIC KETONES

Client:	NA	Project #:	NA
Sample ID:	Lab Blank	Date Reported:	10-05-92
Laboratory Number:	BNLB1001 pm	Date Sampled:	NA
Sample Matrix:	Hexane	Date Received:	NA
Preservative:	NA	Date Extracted:	NA
Condition:	NA	Date Analyzed:	10-01-92
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.020	5.0
Nitrobenzene	ND	0.020	5.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

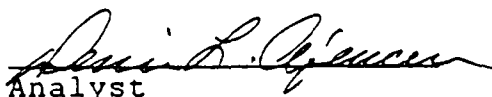
Method: Method 1311, Toxicity Characteristic Leaching Procedure  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.

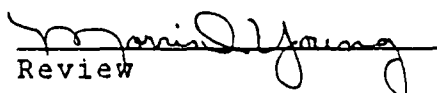
Method 3510, Separatory Funnel Liquid-Liquid Extraction,  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.

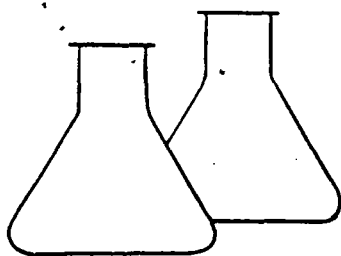
Method 8090, Nitroaromatics and Cyclic Ketones,  
Test Methods for Evaluating Solid Waste, SW-846,  
USEPA, Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments:

  
Analyst

  
Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

QUALITY ASSURANCE REPORT  
EPA METHOD 1311  
TOXICITY CHARACTERISTIC LEACHING PROCEDURE  
TRACE METAL ANALYSIS - MATRIX SPIKE

Client:	NA	Project #:	NA
Sample ID:	NA	Date Reported:	07-24-92
Laboratory Number:	NA	Date Sampled:	NA
Sample Matrix:	TCLP Extract	Date Received:	NA
Analysis Requested:	TCLP	Date Analyzed:	07-24-92
Condition:	NA	Date Extracted:	NA

Parameter	Spike Added (mg/L)	Sample Result (mg/L)	Spiked Sample Result (mg/L)	Percent Recovery
ARSENIC	0.500	ND	0.512	102.4
BARIUM	10.0	5.3	15.1	98.0
CADMIUM	0.250	ND	0.249	99.6
CHROMIUM	0.500	ND	0.509	101.8
LEAD	0.250	ND	0.256	102.4
MERCURY	0.250	ND	0.248	99.2
SELENIUM	0.500	0.017	0.485	93.6
SILVER	1.00	ND	1.04	104.0

QA ACCEPTANCE CRITERIA:	Parameter	Acceptance Range %
	TCLP Metals	80 - 120

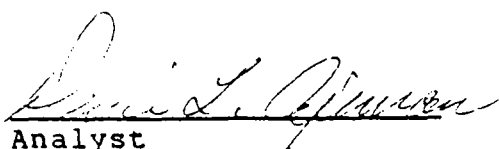
Method: Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, Sept. 1986

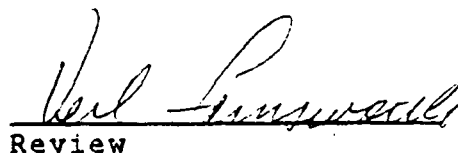
Methods 7060A, 7080A, 7131A, 7191, 7470A, 7421, 7740, 7760A  
Analysis of Metals by GFAA and FLAA, SW-846, USEPA

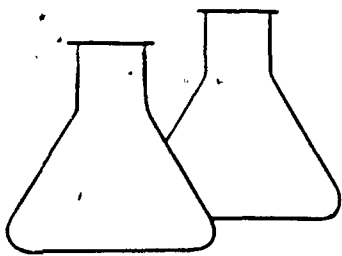
Method 1311, Toxicity Characteristic Leaching Procedure  
SW-846, USEPA, Nov. 1990

ND - Parameter not detected at the stated detection limit.

Comments:

  
Analyst

  
Review



# ENV RO' ECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS - BLANKS

Client:	NA	Project #:	NA
Sample ID:	Blanks	Date Reported:	07-24-92
Laboratory Number:	NA	Date Sampled:	NA
Sample Matrix:	TCLP Extract	Date Received:	NA
Analysis Requested:	TCLP	Date Analyzed:	07-24-92
Condition:	NA	Date Extracted:	07-15-92

Parameter	Instrument Blank (mg/L)	Extraction Sol. Blank (mg/L)	Det. Limit (mg/L)
-----	-----	-----	-----
ARSENIC	ND	ND	0.001
BARIUM	ND	ND	0.1
CADMIUM	ND	ND	0.001
CHROMIUM	ND	ND	0.001
LEAD	ND	ND	0.001
MERCURY	ND	ND	0.002
SELENIUM	ND	ND	0.001
SILVER	ND	ND	0.01

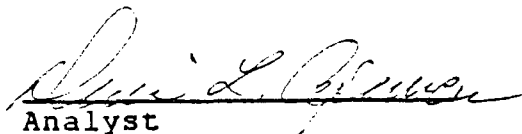
Method: Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, Sept. 1986

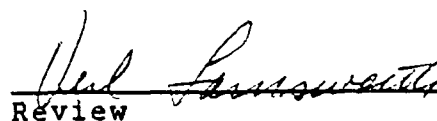
Methods 7060A, 7080A, 7131A, 7191, 7470A, 7421, 7740, 7760A  
Analysis of Metals by GFAA and FLAA, SW-846, USEPA

Method 1311, Toxicity Characteristic Leaching Procedure  
SW-846, USEPA, Nov. 1990

ND - Parameter not detected at the stated detection limit.

Comments:

  
Analyst

  
Review

**ENVIROTECH INC.**

san juan repro Form 578-81

# ENVIROTECH INC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

5796 U.S. HIGHWAY 64 - 3014  
FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615

October 13, 1992

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

RE: McDonald\Anderson  
Contaminated Soil  
TCPL Analysis

**RECEIVED**  
OCT 16 1992  
OIL CON. DIV.  
DIST. 3

Project No. 92189


Dear Mr. Foust:

Envirotech, Inc. request authorization to receive soil from a UST/sump removal from the McDonald/Anderson Site, Farmington, New Mexico.

The sump had reportedly contained used motor oil, therefor, we have had a TCLP analysis completed, without the pesticides and herbicides, on the contaminated soil removed from the sump.

The attached laboratory analysis show that the concentration of the TCLP target constituents are all below the RCRA regulatory levels for hazardous waste. Therefor the contaminated soils are classified as non-hazardous per RCRA (40CFR 261).

Respectfully submitted,  
ENVIROTECH, Inc.



Michael T. Eason  
Hydrogeologist

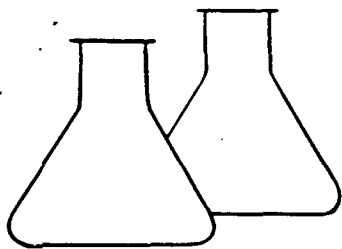
cc: Mr. Mark Holmes, NMED-UST Bureau  
Mr. James Anderson  
Ms. Peggy Kissler

Attachments:  
Laboratory Results  
Chain-of-Custody

2189TCL1.LET

*Verbal approval received from  
Mr. Denny Foust of NMED 10-13-92  
mze*





# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHODS 8010/8020 AROMATIC VOLATILE ORGANICS/HALOGENATED VOLATILE ORGANICS

Client:	Anderson	Project #:	92189
Sample ID:	Sump Composite	Date Reported:	09-15-92
Laboratory Number:	1879	Date Sampled:	07-13-92
Sample Matrix:	Soil	Date Received:	07-13-92
Preservative:	Cool	Date Analyzed:	08-17-92
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride & 1,1-Dichloroethene	ND	0.010	0.2
2-Butanone	0.12	0.010	200.0
Chloroform	ND	0.005	6.0
Carbon Tetrachloride	ND	0.005	0.5
Benzene & 1,2-Dichloroethane	ND	0.010	0.5
Trichloroethene	ND	0.005	0.5
Tetrachloroethene	ND	0.005	0.7
Chlorobenzene	ND	0.005	100.0
1,4-Dichlorobenzene	ND	0.005	7.5

Method: Method 1311, Toxicity Characteristic Leaching Procedure  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986

Method 5030, Purge-and-Trap, Test Methods for Evaluating  
Solid Waste, SW-846, USEPA, Sept. 1986

Method 8010, Halogenated Volatile Organics, Test Methods  
for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

Method 8020, Aromatic Volatile Organics, Test Methods for  
Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

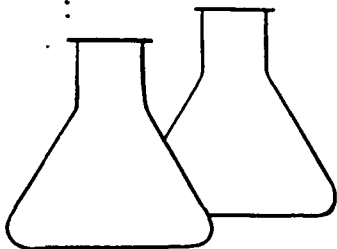
ND - Parameter not detected at the stated detection limit.

Comments:

Robert M. Young  
Analyst

Marissa Young  
Review





# ENV RO TECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 8040 PHENOLS

Client:	Anderson	Project #:	92189
Sample ID:	Sump Composite	Date Reported:	09-30-92
Laboratory Number:	1879	Date Sampled:	07-13-92
Sample Matrix:	Soil	Date Received:	07-13-92
Preservative:	Cool	Date Extracted:	08-04-92
Condition:	Cool & Intact	Date Analyzed:	09-29-92
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	ND	0.020	200.0
p,m-Cresol	ND	0.040	200.0
2,4,6-Trichlorophenol & 2,4,5-Trichlorophenol	ND	0.040	2.0
Pentachlorophenol	ND	0.025	100.0

Method: Method 1311, Toxicity Characteristic Leaching Procedure  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.

Method 3510, Separatory Funnel Liquid-Liquid Extraction,  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.

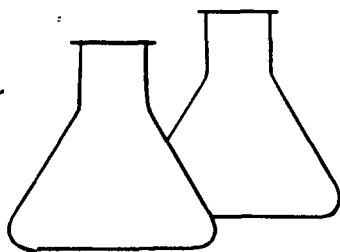
Method 8040, Phenols, Test Methods for Evaluating Solid  
Waste, SW-846, USEPA, Sept. 1986.

ND - Parameter not detected at the stated detection limit.

Comments: Anderson.

Robert M. Young  
Analyst

Mavis D. Young  
Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 8090 NITROAROMATICS AND CYCLIC KETONES

Client:	Anderson	Project #:	92189
Sample ID:	Sump Composite	Date Reported:	10-02-92
Laboratory Number:	1879	Date Sampled:	07-13-92
Sample Matrix:	Soil	Date Received:	07-13-92
Preservative:	Cool	Date Analyzed:	10-01-92
Condition:	Cool and Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.021	5.0
Nitrobenzene	ND	0.020	5.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-dinitrotoluene	ND	0.020	0.13
Hexachlorobenzene	ND	0.020	0.13

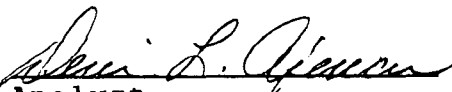
Method: Method 1311, Toxicity Characteristic Leaching Procedure  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.

Method 3510, Separatory Funnel Liquid-Liquid Extraction,  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.

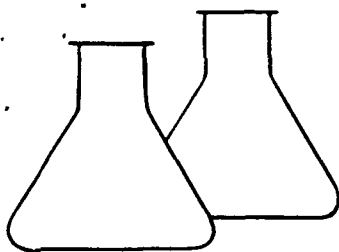
Method 8090, Nitroaromatics and Cyclic Ketones,  
Test Methods for Evaluating Solid Waste, SW-846,  
USEPA, Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments: Anderson - Sump Composite Sample

  
Analyst

  
Review



# ENV RO' TECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS

Client: Anderson  
Sample ID: Sump Composite  
Laboratory Number: 1879  
Sample Matrix: Soil  
Preservative: Cool  
Condition: Cool & Intact

Project #: 92189  
Date Reported: 08-13-92  
Date Sampled: 07-13-92  
Date Received: 07-13-92  
Date Analyzed: 08-12-92  
Date Extracted: 08-04-92  
Analysis Needed: TCLP

Parameter	Regulatory Level (mg/L)	Concentration (mg/L)	Det. Limit (mg/L)
ARSENIC	5.000	0.009	0.001
BARIUM	100.0	0.6	0.1
CADMIUM	1.000	ND	0.001
CHROMIUM	5.000	ND	0.001
LEAD	5.000	0.266	0.001
MERCURY	0.200	ND	0.002
SELENIUM	1.000	0.138	0.001
SILVER	5.00	ND	0.01

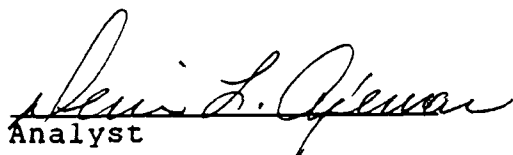
Method: Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, Sept. 1986

Methods 7060A, 7080A, 7131A, 7191, 7470A, 7421, 7740, 7760A  
Analysis of Metals by GFAA and FLAA, SW-846, USEPA

Method 1311, Toxicity Characteristic Leaching Procedure  
SW-846, USEPA, Nov. 1990

ND - Parameter not detected at the stated detection limit.

Comments: Anderson -- Sump Composite

  
Analyst

  
Review

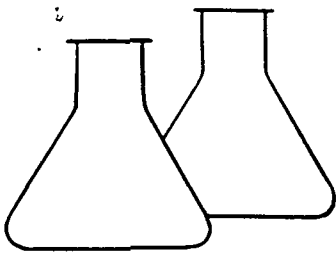
ENVIROTECH LABORATORIES

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5796 U.S. HIGHWAY 64-3014  
FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615

QUALITY ASSURANCE/QUALITY CONTROL

DOCUMENTATION



# ENVIRO TECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHODS 8010/8020 AROMATIC VOLATILE ORGANICS/HALOGENATED VOLATILE ORGANICS

Client:	NA	Project #:	NA
Sample ID:	Laboratory Blank	Date Reported:	09-15-92
Laboratory Number:	TVLB0817	Date Sampled:	NA
Sample Matrix:	Water	Date Received:	NA
Preservative:	NA	Date Analyzed:	08-17-92
Condition:	NA	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride & 1,1-Dichloroethene	ND	0.010	0.2
2-Butanone	ND	0.010	200.0
Chloroform	ND	0.005	6.0
Carbon Tetrachloride	ND	0.005	0.5
Benzene & 1,2-Dichloroethane	ND	0.010	0.5
Trichloroethene	ND	0.005	0.5
Tetrachloroethene	ND	0.005	0.7
Chlorobenzene	ND	0.005	100.0
1,4-Dichlorobenzene	ND	0.005	7.5

Method: Method 1311, Toxicity Characteristic Leaching Procedure  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986

Method 5030, Purge-and-Trap, Test Methods for Evaluating  
Solid Waste, SW-846, USEPA, Sept. 1986

Method 8010, Halogenated Volatile Organics, Test Methods  
for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

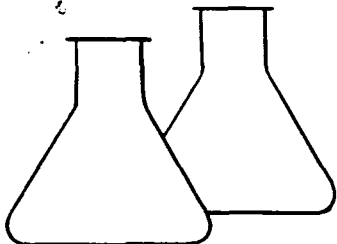
Method 8020, Aromatic Volatile Organics, Test Methods for  
Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments:

Analyst

Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 8040 PHENOLS

Client:	NA	Project #:	NA
Sample ID:	Laboratory Blank	Date Reported:	09-31-92
Laboratory Number:	AELB0929	Date Sampled:	NA
Sample Matrix:	2-Propanol	Date Received:	NA
Preservative:	NA	Date Analyzed:	09-29-92
Condition:	NA	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	ND	0.020	200.0
p,m-Cresol	ND	0.040	200.0
2,4,6-Trichlorophenol & 2,4,5-Trichlorophenol	ND	0.040	2.0
Pentachlorophenol	ND	0.020	100.0

Method: Method 1311, Toxicity Characteristic Leaching Procedure  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.

Method 3510, Separatory Funnel Liquid-Liquid Extraction,  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.

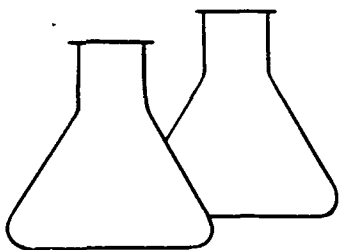
Method 8040, Phenols, Test Methods for Evaluating Solid  
Waste, SW-846, USEPA, Sept. 1986.

ND - Parameter not detected at the stated detection limit.

Comments:

Robert M. Young  
Analyst

Marisela Young  
Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 8090 NITROAROMATICS AND CYCLIC KETONES

Client:	NA	Project #:	NA
Sample ID:	Lab Blank	Date Reported:	10-02-92
Laboratory Number:	BN0930.BLK	Date Sampled:	NA
Sample Matrix:	Hexane	Date Received:	NA
Preservative:	NA	Date Analyzed:	09-30-92
Condition:	NA	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.020	5.0
Hexachloroethane	ND	0.021	5.0
Nitrobenzene	ND	0.020	5.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-dinitrotoluene	ND	0.020	0.13
Hexachlorobenzene	ND	0.020	0.13

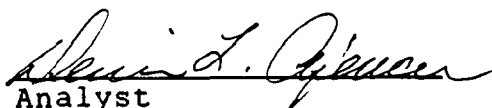
Method: Method 1311, Toxicity Characteristic Leaching Procedure  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.

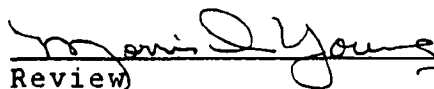
Method 3510, Separatory Funnel Liquid-Liquid Extraction,  
Test Methods for Evaluating Solid Waste, SW-846, USEPA,  
Sept. 1986.

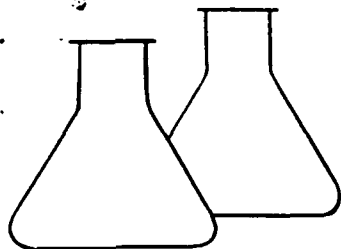
Method 8090, Nitroaromatics and Cyclic Ketones,  
Test Methods for Evaluating Solid Waste, SW-846,  
USEPA, Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments:

  
Analyst

  
Review



# ENVIRONMENTAL ROBOTICS LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

QUALITY ASSURANCE REPORT  
EPA METHOD 1311  
TOXICITY CHARACTERISTIC LEACHING PROCEDURE  
TRACE METAL ANALYSIS - MATRIX SPIKE

Client:	NA	Project #:	NA
Sample ID:	NA	Date Reported:	08-13-92
Laboratory Number:	NA	Date Sampled:	NA
Sample Matrix:	TCLP Extract	Date Received:	NA
Analysis Requested:	TCLP	Date Analyzed:	08-12-92
Condition:	NA	Date Extracted:	NA

Parameter	Spike Added (mg/L)	Sample Result (mg/L)	Spiked Sample Result (mg/L)	Percent Recovery
ARSENIC	0.150	0.039	0.191	101.3
BARIUM	10.0	0.6	10.9	103.0
CADMIUM	0.150	0.130	0.267	91.3
CHROMIUM	0.250	0.007	0.260	101.2
LEAD	0.150	0.043	0.191	98.7
MERCURY	0.150	0.048	0.195	98.0
SELENIUM	0.150	0.051	0.204	102.0
SILVER	1.00	ND	0.96	96.0

QA ACCEPTANCE CRITERIA:	Parameter	Acceptance Range %
	TCLP Metals	80 - 120

Method: Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, Sept. 1986

Methods 7060A, 7080A, 7131A, 7191, 7470A, 7421, 7740, 7760A  
Analysis of Metals by GFAA and FLAA, SW-846, USEPA

Method 1311, Toxicity Characteristic Leaching Procedure  
SW-846, USEPA, Nov. 1990

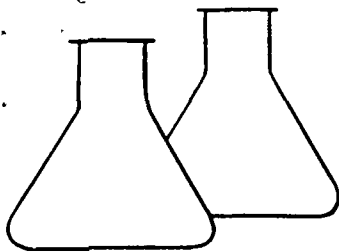
ND - Parameter not detected at the stated detection limit.

Comments:

*Kevin L. Givens*  
Analyst

*Marissa Young*  
Review





# ENV RO' TECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS - BLANKS

Client:	NA	Project #:	NA
Sample ID:	Blanks	Date Reported:	08-13-92
Laboratory Number:	NA	Date Sampled:	NA
Sample Matrix:	TCLP Extract	Date Received:	NA
Analysis Requested:	TCLP	Date Analyzed:	08-12-92
Condition:	NA	Date Extracted:	07-28-92

Parameter	Instrument Blank (mg/L)	Extraction Sol. Blank (mg/L)	Det. Limit (mg/L)
ARSENIC	ND	ND	0.001
BARIUM	ND	ND	0.1
CADMIUM	ND	ND	0.001
CHROMIUM	ND	ND	0.001
LEAD	ND	ND	0.001
MERCURY	ND	ND	0.002
SELENIUM	ND	ND	0.001
SILVER	ND	ND	0.01

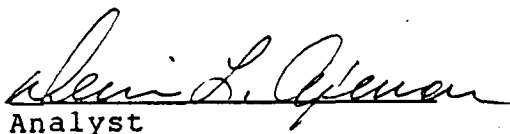
Method: Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, Sept. 1986

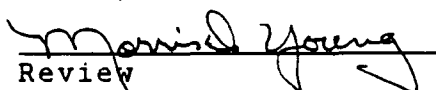
Methods 7060A, 7080A, 7131A, 7191, 7470A, 7421, 7740, 7760A  
Analysis of Metals by GFAA and FLAA, SW-846, USEPA

Method 1311, Toxicity Characteristic Leaching Procedure  
SW-846, USEPA, Nov. 1990

ND - Parameter not detected at the stated detection limit.

Comments:

  
Analyst

  
Review

## CHAIN OF CUSTODY RECORD

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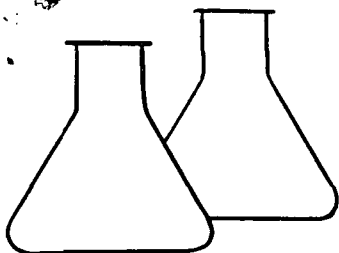
MONTH OF July

MONTH OF

Tuly

OIL CON. D  
INCY

T-clip in progress



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## Certification of Waste Status

Originating location 4810 EAST MAIN, FARMINGTON, NEW MEXICO

Disposal Location: Envirotech Soil Remediation Site, Hilltop, NM

"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by EPA's July 1988 Regulatory Determination and that non-exempt waste that is a "hazardous waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the exempt waste in such a manner so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Section 261.3(b)."

Signature James H. Anderson  
Name, Date James H. Anderson 7-23-92  
Company Androm Limited  
Address 2665 Aliso Drive  
SLC, UT 84088

# ENVIROTECH INC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

5796 U.S. HIGHWAY 64 - 3014  
FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615

September 28, 1992

Mr. Denny G. Foust  
Environmental Geologist  
State of New Mexico Oil Conservation Division  
1000 Rio Brazos Road  
Aztec, New Mexico 87410

RECEIVED  
OCT 01/1992  
OIL CON. DIV.  
DIST. 3

Re: Contaminated Soil Remediation

Dear Mr. Foust:

Rust Tractor, 1000 Troy King Road, Farmington, New Mexico requests that Envirotech receive contaminated soils from an underground storage tank leak clean up. Their consultant, Plateau Environmental Service, has provided the attached volatiles and semivolatiles analysis and Envirotech has analyzed for TCLP metals and TPH.

All analysis results are less than RCRA standards.

The underground storage tanks contained gasoline, diesel, and one contained used oil.

Envirotech requests authorization to receive this soil at our Hilltop, New Mexico facility for remediation.

Sincerely,

*Morris D. Young*

Morris D. Young  
President

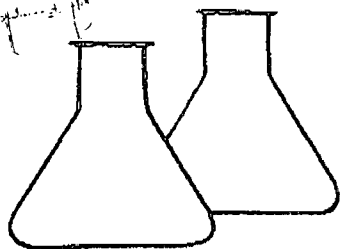
MDY/jmj  
337J.DOC

→ No release from  
E.D.

Verbal  
with  
Len Murray release

This material never  
went to Envirotech  
Mike Lane 3/2/93

Apparently Tierra is  
requesting permission  
on same material D27



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Plateau Env. Serv.	Project #:	92228
Sample ID:	Sample A 6'	Date Reported:	09-28-92
Laboratory Number:	2560	Date Sampled:	09-10-92
Sample Matrix:	Soil	Date Received:	09-10-92
Preservative:	Cool	Date Analyzed:	09-28-92
Condition:	Cool & Intact	Analysis Needed:	TPH

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	28,200	25.0

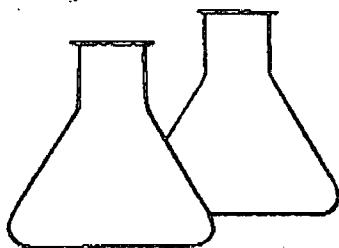
Method: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No. 4551, 1978

ND - Parameter not detected at the stated detection limit.

Comments: RUST Tractor Farmington RUST 0054-001

CA Fernandez  
Analyst

Mario S. Young  
Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Plateau Env. Serv.	Project #:	92228
Sample ID:	Sample B 17'	Date Reported:	09-28-92
Laboratory Number:	2561	Date Sampled:	09-10-92
Sample Matrix:	Soil	Date Received:	09-10-92
Preservative:	Cool	Date Analyzed:	09-28-92
Condition:	Cool & Intact	Analysis Needed:	TPH

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	91,400	125.0

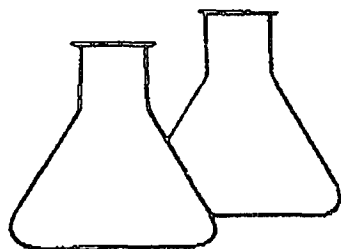
Method: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

ND - Parameter not detected at the stated detection limit.

Comments: RUST Tractor RUST 0054-001

CA Funder  
Analyst

Myron D Young  
Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Plateau Env. Serv.	Project #:	92228
Sample ID:	Sample C 18'	Date Reported:	09-28-92
Laboratory Number:	2562	Date Sampled:	09-10-92
Sample Matrix:	Soil	Date Received:	09-10-92
Preservative:	Cool	Date Analyzed:	09-28-92
Condition:	Cool & Intact	Analysis Needed:	TPH

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	720	5.0

Method: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

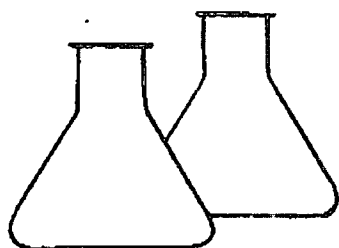
ND - Parameter not detected at the stated detection limit.

Comments: RUST Tractor Farmington RUST 0054-001

CA Funderburk  
Analyst

Marion D Young  
Review





# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS

Client: Plateau Environmental  
Sample ID: Sample 5 - 4 ft  
Laboratory Number: 2563  
Sample Matrix: Soil  
Preservative: Cool  
Condition: Cool & Intact

Project #: 92228  
Date Reported: 09-17-92  
Date Sampled: 09-10-92  
Date Received: 09-10-92  
Date Analyzed: 09-17-92  
Date Extracted: 09-15-92  
Analysis Needed: TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
ARSENIC	ND	0.001	5.000
BARIUM	ND	0.1	100.0
CADMIUM	ND	0.001	1.000
CHROMIUM	ND	0.001	5.000
LEAD	ND	0.001	5.000
MERCURY	ND	0.002	0.200
SELENIUM	ND	0.001	1.000
SILVER	ND	0.01	5.00

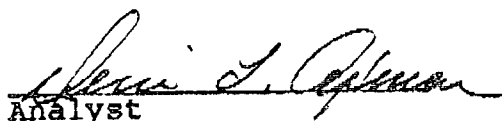
Method: Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, Sept. 1986

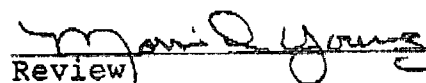
Methods 7060A, 7080A, 7131A, 7191, 7470A, 7421, 7740, 7760A  
Analysis of Metals by GFAA and FLAA, SW-846, USEPA

Method 1311, Toxicity Characteristic Leaching Procedure  
SW-846, USEPA, Nov. 1990

ND - Parameter not detected at the stated detection limit.

Comments: Rust 0054-001, Rust Tractor - Farmington

  
Analyst

  
Review

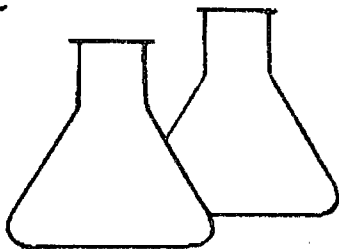
ENVIROTECH LABORATORIES

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5796 U.S. HIGHWAY 64-3014  
FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615

## QUALITY ASSURANCE/QUALITY CONTROL

### DOCUMENTATION



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	NA	Project #:	NA
Sample ID:	Laboratory Blank	Date Reported:	09-28-92
Laboratory Number:	TPLB0928	Date Sampled:	NA
Sample Matrix:	Soil	Date Received:	NA
Preservative:	Cool	Date Analyzed:	09-28-92
Condition:		Analysis Needed:	TPH

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	31.2	5.0

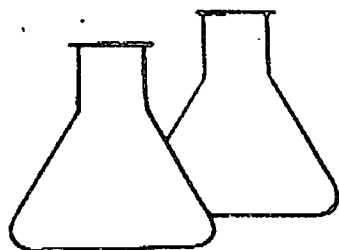
Method: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

ND - Parameter not detected at the stated detection limit.

Comments:

CA Juarez  
Analyst

Marion Young  
Review



# ENVIROTECH LABS

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PHONE: (505) 632-0615 • FAX: (505) 632-1865

QUALITY ASSURANCE REPORT  
EPA METHOD 1311  
TOXICITY CHARACTERISTIC LEACHING PROCEDURE  
TRACE METAL ANALYSIS - MATRIX SPIKE

Client:	NA	Project #:	NA
Sample ID:	NA	Date Reported:	09-17-92
Laboratory Number:	NA	Date Sampled:	NA
Sample Matrix:	TCLP Extract	Date Received:	NA
Analysis Requested:	TCLP	Date Analyzed:	09-17-92
Condition:	NA	Date Extracted:	NA

Parameter	Spike Added (mg/L)	Sample Result (mg/L)	Spiked Sample Result (mg/L)	Percent Recovery
ARSENIC	0.130	0.008	0.145	105.4
BARIUM	10.0	ND	10.1	101.0
CADMIUM	0.100	ND	0.105	105.0
CHROMIUM	0.100	0.043	0.142	99.0
LEAD	0.100	0.019	0.122	103.0
MERCURY	0.025	0.022	0.044	88.0
SELENIUM	0.130	ND	0.131	100.8
SILVER	1.00	ND	0.99	99.0

QA ACCEPTANCE CRITERIA:	Parameter	Acceptance Range %
	TCLP Metals	80 - 120

Method: Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, Sept. 1986

Methods 7060A, 7080A, 7131A, 7191, 7470A, 7421, 7740, 7760A  
Analysis of Metals by GFAA and FLAA, SW-846, USEPA

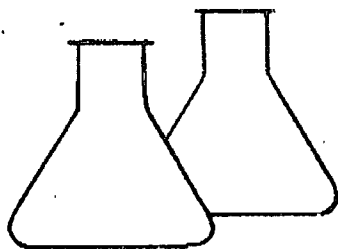
Method 1311, Toxicity Characteristic Leaching Procedure  
SW-846, USEPA, Nov. 1990

ND - Parameter not detected at the stated detection limit.

Comments:

Analyst

Review



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS - BLANKS

Client:	NA	Project #:	NA
Sample ID:	Blanks	Date Reported:	09-17-92
Laboratory Number:	NA	Date Sampled:	NA
Sample Matrix:	TCLP Extract	Date Received:	NA
Analysis Requested:	TCLP	Date Analyzed:	09-17-92
Condition:	NA	Date Extracted:	09-15-92

Parameter	Instrument Blank (mg/L)	Extraction Sol. Blank (mg/L)	Det. Limit (mg/L)
ARSENIC	ND	ND	0.001
BARIUM	ND	ND	0.1
CADMIUM	ND	ND	0.001
CHROMIUM	ND	ND	0.001
LEAD	ND	ND	0.001
MERCURY	ND	ND	0.002
SELENIUM	ND	ND	0.001
SILVER	ND	ND	0.01

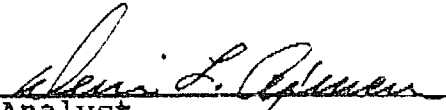
Method: Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, Sept. 1986

Methods 7060A, 7080A, 7131A, 7191, 7470A, 7421, 7740, 7760A  
Analysis of Metals by GFAA and FLAA, SW-846, USEPA

Method 1311, Toxicity Characteristic Leaching Procedure  
SW-846, USEPA, Nov. 1990

ND - Parameter not detected at the stated detection limit.

Comments:

  
Analyst

  
Review

## CHAIN OF CUSTODY RECORD

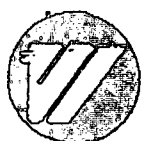
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09/28/1992 15:58

TECHNICAL PROCEEDINGS

TO 3346170

21



**Westtech  
Laboratories  
Inc.**

East Broadway Road  
Phoenix, Arizona 85040  
(602) 437-1080 • fax 437-8706

CLIENT PLATEAU ENVIRONMENTAL SERVICES  
ATTN: MICHAEL MATHESON  
640 MAIN AVENUE, #202  
DURANGO, CO 81301

SAMPLE NO. : 9203508  
INVOICE NO.: 22120565  
REPORT DATE: 03-30-92  
REVIEWED BY: *[Signature]*  
PAGE 1 OF 2

CLIENT SAMPLE ID : SAMPLE 1-4 FT  
SAMPLE TYPE .....: SOIL  
SAMPLED BY .....: M. MATHESON  
SUBMITTED BY .....: M. MATHESON  
SAMPLE SOURCE ....: --  
ANALYST .....: L. ANTONY

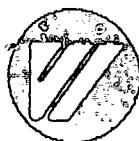
AUTHORIZED BY : M. MATHESON  
CLIENT P.O. : 0054-001  
SAMPLE DATE ...: 03-12-92  
SUBMITTAL DATE : 03-18-92  
EXTRACTION DATE: 03-28-92  
ANALYSIS DATE ..: 03-28-92

Method 8010 - Halogenated Volatile Organics

**D A T A      T A B L E**

Parameter	Result	Unit	Detection Limit
Bromochloromethane .....	<1.0	ug/L	1.0
Bromodichloromethane .....	<1.0	ug/L	1.0
Bromoform .....	<1.0	ug/L	1.0
Bromomethane .....	<1.0	ug/L	1.0
Carbon tetrachloride .....	<0.5	ug/L	0.5
Chlorobenzene .....	<1.0	ug/L	1.0
Chloroethane .....	<1.0	ug/L	1.0
Chloroform .....	<0.5	ug/L	0.5
Chloromethane .....	<1.0	ug/L	1.0
Dibromochloromethane .....	<1.0	ug/L	1.0
1,2-Dichlorobenzene .....	<1.0	ug/L	1.0
1,3-Dichlorobenzene .....	<1.0	ug/L	1.0
1,4-Dichlorobenzene .....	<1.0	ug/L	1.0
Dichlorodifluoromethane .....	<1.0	ug/L	1.0
1,1-Dichloroethane .....	<0.5	ug/L	0.5
1,2-Dichloroethane .....	<0.5	ug/L	0.5
1,1-Dichloroethene .....	<0.5	ug/L	0.5
cis 1,2-Dichloroethene .....	<0.5	ug/L	0.5
trans 1,2-Dichloroethene .....	<1.0	ug/L	1.0
1,2-Dichloropropane .....	<0.5	ug/L	0.5
trans 1,3-Dichloropropene .....	<0.5	ug/L	0.5
cis 1,3-Dichloropropene .....	<0.5	ug/L	0.5
Dichloromethane .....	<5.0	ug/L	5.0
1,1,2,2-Tetrachloroethane .....	<0.5	ug/L	0.5
1,1,2,2-Tetrachloroethene .....	<0.5	ug/L	0.5
1,1,1-Trichloroethane .....	<0.5	ug/L	0.5
1,1,2-Trichloroethane .....	<0.5	ug/L	0.5
Trichloroethene .....	<0.5	ug/L	0.5
Trichlorofluoromethane .....	<1.0	ug/L	1.0
Vinyl chloride .....	<1.0	ug/L	1.0

(1) Copy to Client



Westtech  
Laboratories  
Inc.

3737 East Broadway Road  
Phoenix, Arizona 85040  
(602) 437-1080 • fax 437-8706

CLIENT PLATEAU ENVIRONMENTAL SERVICES  
ATTN: MICHAEL MATHESON  
640 MAIN AVENUE, #202  
DURANGO, CO 81301

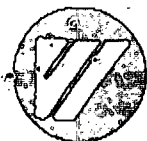
SAMPLE NO. : 9203508  
INVOICE NO.: 22120565  
REPORT DATE: 03-30-92  
REVIEWED BY: *[Signature]*  
PAGE : 2 OF 2

D A T A      T A B L E      (Cont.)

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Detection Limit</u>
2-Chloroethylvinyl Ether .....	<200.	ug/L	200.

(1) Copy to Client





Westtech  
Laboratories  
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37 West Broadway Road  
Phoenix, Arizona 85040  
(602) 437-1080 • fax 437-8706

CLIENT PLATEAU ENVIRONMENTAL SERVICES  
ATTN: MICHAEL MATHESON  
640 MAIN AVENUE, #202  
DURANGO, CO 81301

SAMPLE NO. : 9203508  
INVOICE NO.: 22120565  
REPORT DATE: 03-30-92  
REVIEWED BY *M. Matheson*  
PAGE : 1 OF 1

CLIENT SAMPLE ID : SAMPLE 1-4 FT  
SAMPLE TYPE .....: SOIL  
SAMPLED BY .....: M. MATHESON  
SUBMITTED BY .....: M. MATHESON  
SAMPLE SOURCE ....: --  
ANALYST .....: L. ANTONY

AUTHORIZED BY : M. MATHESON  
CLIENT P.O. : 0054-001  
SAMPLE DATE ...: 03-12-92  
SUBMITTAL DATE : 03-18-92  
EXTRACTION DATE: 03-28-92  
ANALYSIS DATE ..: 03-28-92

Method 8020 - Aromatic Volatiles

D A T A T A B L E

Parameter	Result	Unit	Detection Limit
Chlorobenzene .....	<1.0	ug/L	1.0
1,2-Dichlorobenzene .....	<1.0	ug/L	1.0
1,3-Dichlorobenzene .....	<1.0	ug/L	1.0
1,4-Dichlorobenzene .....	<1.0	ug/L	1.0
Ethylbenzene .....	11.	ug/L	1.0
Toluene .....	270.	ug/L	1.0
Total Xylenes .....	14.	ug/L	0.3
Benzene .....	<1.0	ug/L	1.0

Surrogate Information -

	Percent Recovery	Range
2-Chloro-m-Xylene .....	84.0	75-120

(1) Copy to Client



Westech  
Laboratories  
Inc.

31 West Broadway Road  
Phoenix, Arizona 85040  
(602) 437-1080 • fax 437-8706

CLIENT PLATEAU ENVIRONMENTAL SERVICES  
ATTN: MICHAEL MATHESON  
640 MAIN AVENUE, #202  
DURANGO, CO 81301

SAMPLE NO. : 9203509  
INVOICE NO.: 22120565  
REPORT DATE: 04-01-92  
REVIEWED BY: *AGN*  
PAGE 1 OF 1

CLIENT SAMPLE ID : SAMPLE 2-4 FT  
SAMPLE TYPE .....: SOIL  
SAMPLED BY .....: M. MATHESON  
SUBMITTED BY ....: M. MATHESON  
SAMPLE SOURCE ....: --  
ANALYST .....: S. WEIDINGER

AUTHORIZED BY : M. MATHESON  
CLIENT P.O. : 0054-001  
SAMPLE DATE ...: 03-12-92  
SUBMITTAL DATE : 03-18-92  
EXTRACTION DATE: 03-20-92  
ANALYSIS DATE ..: 03-20-92

Modified 418.1 - Total Petroleum Fuel Hydrocarbons

D A T A      T A B L E

Parameter	Result	Unit	Detection Limit
Total Petroleum Hydrocarbons .....	24000.	mg/kg	10.

(1) Copy to Client

# ENVIROTECH INC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

5796 U.S. HIGHWAY 64 - 3014  
FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615

September 22, 1992

Mr. Denny G. Foust  
Deputy Inspector  
State of New Mexico  
Oil Conservation Division  
1000 Rio Brazos Road  
Aztec, New Mexico 87410

RE: Request to Receive  
Stabilized Waste from Dowell Schlumberger  
3106 Bloomfield Hwy., Farmington, New Mexico

Dear Mr. Foust:

Envirotech Inc. requests authorization to receive at Envirotech's Soil Remediation Facility (ESRF), Hilltop, New Mexico, stabilized waste from Dowell Schlumberger's facility located at 3106 Bloomfield Highway, Farmington, New Mexico.

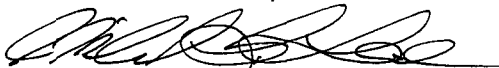
This material is a composite of several process chemicals recovered from oil and gas well boreholes by Dowell Schlumberger during well services.

The material is in a moist, solid state. Attached are copies of the "Material Loading Tickets" and "North American Material Safety Data Sheets" provided to Envirotech by Dowell Schlumberger. Additionally, a representative sample was analyzed for Ignitability (D001) and Corrosivity (D002) at your request to determine the RCRA characteristics of the waste (40 CFR 261.21). A copy of the analysis is attached.

There is an estimated 20 to 25 cubic yards of material to be received for treatment at the ESRF.

Please contact us if you require any additional information.

Respectfully submitted  
ENVIROTECH, INC.



Michael K. Lane, P.E.  
Geological Engineer

MKL/mkl

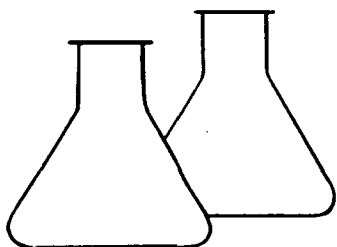
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RECEIVED  
SEP 22 1992

OIL CON. DIV.  
DIST. 3

*Roger  
waiting on  
T-clip approval  
possible Hazardous  
Waste Questions based  
on MSD Sheets*

*Copy was sent to Santa Fe - Approved by Roger Anderson*



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## ANALYSIS OF IGNITABILITY AND CORROSIVITY

Client: Dowell Schlumberger  
Sample ID: Sample 1  
Laboratory Number: 2167  
Sample Matrix: Soil  
Preservative: NA  
Condition: NA

Project #: 92123  
Date Reported: 09-21-92  
Date Sampled: 08-04-92  
Date Received: 08-04-92  
Date Analyzed: 09-21-92

### Parameter

### Result

IGNITABILITY  
CORROSIVITY

Non-Ignitable  
Non-Corrosive

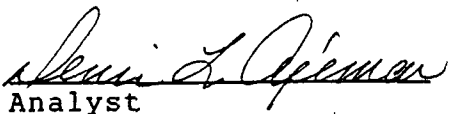
pH - 5% Solution

6.72

Method: Method 9040a pH Electrometric Measurement, SW-846,  
USEPA, Nov. 1990

Ignitability and Corrosivity, (40 CFR 261.21) and SW-846,  
Section 7.1 and 7.2, USEPA, Nov. 1990

Comments: Stabilized Waste Chemical

  
Analyst

  
Review

## CHAIN OF CUSTODY RECORD

san juan repro Form 578-8

# MATERIAL LOADING TICKET

DS-798-B



DOWELL SCHLUMBERGER INCORPORATED

DIVISION <b>WST 15</b>	DISTRICT <b>7NM 06</b>	DATE <b>6-24-92</b>	TREATMENT NO. <b>N/A</b>
TRUCK NO./MV NAME <b>N/A</b>	TRAILER NO. <b>N/A</b>	OPERATOR/EMPLOYEE NO.	<b>PAGE 1</b>
CUSTOMER <b>DS TO ENVUROTCH FOR DISPOSAL</b>		JOB LOCATION (PLANT OR FIELD)	WELL NAME OR JOB NAME
SPECIAL INSTRUCTIONS <b>MISCELLANEOUS OLD DRUMS &amp; CHEMICALS DRY &amp; LIQUID SENT TO ENVUROTCH FOR DISPOSAL (PICKED UP BY ENVUROTCH)</b>			

PLACARDS REQUIRED:

DOT EXEMPTION: E

HM/DG	D.O.T. SHIPPING NAME	HAZARD CLASS	SUB CLASS	ID/UN NUMBER	PKG. GROUP	E/I	TOTAL WT./VOL.	TYPE PKG.	NO. OF PKGS	DS CODE	QUANTITY RETURNED*
	<del>COMBUSTIBLE LIQUID</del>	<del>CORROSIVE</del>		1993			330 GAL	BULK	1	J877	
	<del>PHOSPHORIC ACID SOLUTION</del>	<del>CORROSIVE</del>		1805			36 GAL	PAIL	1	T133	
	<del>FLAMMABLE LIQUID</del>	<del>FLAMMABLE</del>		1294			25 GAL	DRUM	1	P124	
	Toluene SOLUTION						15 GAL	DRUM	1	J602L	
	NON REGULATED						50 LBS	JG	1	J603	
	NON REGULATED						RESIDUE DRUMS		6	D75	
	NON REGULATED						RESIDUE DRUM		1	J433	
	CORROSIVE LIQUID			1760			RESIDUE DRUM		1	J425	
	NON REGULATED						RESIDUE DRUM		2	D108	
	NON REGULATED						RESIDUE DRUM		1	J237A	
	SODIUM HYDROXIDE SOLUTION	<del>CORROSIVE</del>		1429			RESIDUE DRUM		1	M007	

SYSTEM DESCRIPTION: **MATERIALS TO BE ANALYZED IF NECESSARY FOR DISPOSAL BY ENVUROTCH**

TANK	MATERIAL 1	MATERIAL 2	MATERIAL 3	MATERIAL 4	MATERIAL 5	MATERIAL 6	TOTAL QUANTITY WEIGHT/VOLUME
DS Code	N/A	/	/	/	/	/	/
Front	/	/	/	/	/	/	/

SYSTEM DESCRIPTION:

DS Code	N/A	/	/	/	/	/	/
Center	/	/	/	/	/	/	/

SYSTEM DESCRIPTION:

DS Code	N/A	/	/	/	/	/	/
Back	/	/	/	/	/	/	/

SPECIAL SAFETY EQUIPMENT REQUIRED:

UNIT	DESCRIPTION	WEIGHT	UNIT	DESCRIPTION	WEIGHT
OFFSHORE - INDUSTRIAL USE					

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the U.S. Department of Transportation/Canadian Transportation of Dangerous Goods Act and/or loaded to the satisfaction of the captain.

LOAD DATE AND TIME: **6-24-92** FINISH: **6-24-92** LOADED BY: **SWORD**

\* RETURN OPERATOR MUST SHOW QUANTITIES TO BE RETURNED AND PREPARE LOAD FOR RETURN TRIP.

RETURN LOAD DATE	JOB SUPERVISOR	RETURN LOAD OPERATOR
------------------	----------------	----------------------

IN CASE OF TRANSPORTATION EMERGENCY CALL 918-582-0104

CANADIAN EMERGENCY RESPONSE PLAN REFERENCE NUMBER: ERP2-0429

WHITE - Operator/Driver [Permanent File]

BLUE - Service Supervisor [District File]

CANARY - District Copy

Moore 303

250

# MATERIAL LOADING TICKET

DS-798-B



DOWELL SCHLUMBERGER INCORPORATED

DIVISION <b>WST 15</b>	DISTRICT <b>TRM 06</b>	DATE <b>6-24-92</b>	TREATMENT NO. <b>N/A</b>
TRUCK NO./M/V NAME <b>N/A</b>	TRAILER NO. <b>N/A</b>	OPERATOR/EMPLOYEE NO. <b>PAGE 2</b>	
CUSTOMER <b>D.S. TO ENVUROTCH FOR DISPOSAL</b>		JOB LOCATION (PLANT OR FIELD)	WELL NAME OR JOB NAME

SPECIAL INSTRUCTIONS: **MISCELLANEOUS DRUMS & CHEMICALS PICKED UP BY ENVUROTCH FOR DISPOSAL, & EPA. TESTING.**

PLACARDS REQUIRED:

DOT EXEMPTION: E \_\_\_\_\_

HM/DG	D.O.T. SHIPPING NAME	HAZARD CLASS	SUB CLASS	ID/UN NUMBER	PKG. GROUP	E/I	TOTAL WT./VOL.	TYPE PKG.	NO. OF PKG.S	DS CODE	QUANTITY RETURNED*
	MISCELLANEOUS DRUMS WITH UNKNOWN SUBSTANCE TO BE ANALYZED FOR DISPOSAL							RESIDUE DRUMS	8		
	6 gal, AMB2700L, #2 DIESEL						55 GAL	DRUM	1		
	MISCELLANEOUS BUCKETS WITH UNKNOWN SUBSTANCE TO BE ANALYZED FOR DISPOSAL							RESIDUE BUCKETS	5		
	DRILLING COMPOUNDS TO BE ANALYZED FOR DISPOSAL						400 LBS	SKS	8		
	SURFACTANT						40 GAL	DRUM	1		

SYSTEM DESCRIPTION:

TANK	MATERIAL 1	MATERIAL 2	MATERIAL 3	MATERIAL 4	MATERIAL 5	MATERIAL 6	TOTAL QUANTITY WEIGHT/VOLUME
DS Code	N/A	/	/	/	/	/	/
Front	/	/	/	/	/	/	/

SYSTEM DESCRIPTION:

DS Code	N/A	/	/	/	/	/	/
Center	/	/	/	/	/	/	/

SYSTEM DESCRIPTION:

DS Code	N/A	/	/	/	/	/	/
Back	/	/	/	/	/	/	/

SPECIAL SAFETY EQUIPMENT REQUIRED:

UNIT	DESCRIPTION	WEIGHT	UNIT	DESCRIPTION	WEIGHT

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the U.S. Department of Transportation/Canadian Transportation of Dangerous Goods Act and/or loaded to the satisfaction of the captain.

LOAD DATE AND TIME: **6-24-92** FINISH: **6-24-92** LOADED BY: **SWORD**

\* RETURN OPERATOR MUST SHOW QUANTITIES TO BE RETURNED AND PREPARE LOAD FOR RETURN TRIP.

RETURN LOAD DATE	JOB SUPERVISOR	RETURN LOAD OPERATOR
------------------	----------------	----------------------

IN CASE OF TRANSPORTATION EMERGENCY CALL 918-582-0104

CANADIAN EMERGENCY RESPONSE PLAN REFERENCE NUMBER: ERP2-0429

WHITE - Operator/Driver [Permanent File]  
BLUE - Service Supervisor [District File]

CHEMICAL CODE: P124  
PRODUCT NAME: LIQUID PARAFFIN INHIBITOR P124

EFFECTIVE DATE: 11 NOV 88 PREPARED BY: W. W. SHEPHERD

HMIS RATING:  
Health 2 Flammability 3 Reactivity 0

HAZARDOUS INGREDIENTS:	CAS NUMBER
VINYL ACETATE POLYMER	024937-78-8
TOLUENE	000108-88-3

SECTION 1 - PHYSICAL PROPERTIES:

Chemical Nature: Solvent	Form: Liquid
Color: Clear	Odor: Aromatic
Vap. Density: Not determined	%Sol. In Water: Insoluble
pH: Not determined	Sp. Gravity: 0.871 at 60 F
Pour Point: Not determined	Boiling Pt.: Not determined
Vap. Pressure: 96 mmHg at 100 F (38% Volatile: 100 C)	
Viscosity: Not determined	Bulk Density: Not determined

SECTION 2 - FIRE AND EXPLOSION HAZARDS:

Flash Point: 46 F (8 C) Method Used: Tag closed cup  
Ignition Temperature: Not determined  
Explosion Limits in Air - Lower: 1.2 Upper: 7.0  
Extinguishing Media: Water Fog, Alcohol Foam, CO2, Dry Chemical  
Special Fire Fighting Equipment and Hazards:  
Vapors may travel along the ground and ignite when an ignition source is contacted. Avoid breathing vapors. Use SCBA in closed areas.

SECTION 3 - REACTIVITY HAZARDS:

Stability: Stable  
Incompatibility: Oxidizers.  
Hazardous Decomposition:  
When heated strongly or burned, oxides of carbon and harmful organic chemical fumes are released.  
Hazardous Polymerization: Will not occur.

SECTION 4 - FIRST AID PROCEDURES:

Eye Contact:	Immediately flush eyes with water for 30 minutes while holding eyelids open. See a doctor at once.
Skin Contact:	Immediately wash with soap and water for 15 minutes. See a doctor at once. Destroy contaminated shoes. Wash clothes thoroughly before reusing.
Swallowing:	DO NOT induce vomiting. Give 2 glasses of milk (preferred) or water and take to hospital at once.
Inhalation:	Remove to fresh air. See a doctor if effects occur.
Notes:	None



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**SECTION 5 - HANDLING PRECAUTIONS:**

Ventilation: General and local ventilation is required.

**Respiratory Protection:**

Use NIOSH approved respirator with organic vapor protection(color coded black) or organic vapor/acid gas protection(color coded yellow).

Use SCBA (self contained breathing apparatus) in confined areas.

**Protective Clothing:**

Apron, impervious gloves. For spills and emergencies, also wear boots and slicker (rain) suit.

**Eye Protection:**

Chemical goggles required and an eye wash in work area.

**Exposure Guidelines:**

TLVs are TWA 100 ppm and STEL 150 ppm for toluene; PELs are TWA 200 ppm/8 hrs., ceiling 300 ppm, 500 ppm/10 min. for toluene.

---

**SECTION 6 - SPILL AND DISPOSAL PROCEDURES:**

**Spills:** Contain with dikes. Use explosion proof equipment to recover. Remove all sources of ignition. Soak up residual on inert absorbant (sand). Put in steel or plastic drum approved for flammables.

**Disposal Method**

**Product:** Ship via permitted waste hauler to permitted hazardous waste disposal facility for incineration.

**Container:** Leave label on drum and sell drum to an approved drum reconditioner or triple rinse, crush, and ship to sanitary landfill unless prohibited by local regulations.

**Degradability:** No information.

**Fish Toxicity:** No information.

**CERCLA Reportable Quantity:** 138 gallons.

**RCRA Hazardous Waste Number:** U220

---

**SECTION 7 - TOXICOLOGY:**

**Eye Contact:** Severe irritant. Causes pain and redness. Prolonged or repeated contact may cause mild burn.

**Skin Contact:** Irritant. May cause pain, redness, dermatitis. Not likely to be absorbed in toxic amounts. LD50 (rabbits) = 14,000 mg/kg.

**Swallowing:** Irritant. May cause pain or discomfort to mouth, throat and stomach. May cause nausea, vomiting, diarrhea.

**Inhalation:** Irritant. May cause pain and coughing. May cause dizziness, weakness, headache. LC50 (mouse)=5,320 ppm/8 hours.

**Carcinogens:** Not listed by IARC, USA NTP, or USA OSHA.

**Other:**

May cause birth defects. May affect nervous system and bone marrow.

---

**SECTION 8 - ADDITIONAL INFORMATION:**

**Special Precautions:** None.

**Physical Hazard:** Fire.

**Handling and Storage Precautions:**

Keep away from heat, sparks, and flame. Store out of direct sunlight in well ventilated area. Keep container closed when not in use. Use with adequate ventilation. Do not cut or weld on container.

**Packaging Requirements:**

Coated (epoxy phenolic) steel drum (DOT 17E) or plastic can.

---

## SECTION 8 - CONTINUED

Additional Information: Q207 (Protective Equipment Code)

## SECTION 9 - REGULATORY INFORMATION:

This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

toluene (100 percent).

## NFPA Rating:

Health 2 ; Flammability 3 ; Reactivity 0 ; Other: None

WHMIS Classification (Canada): Not determined

TSCA Status: All components of this material are on the TSCA inventory.

## SECTIONS AFFECTED BY LAST REVISION:

## SHIPPING INFORMATION:

ICC Tariff Classification: Compound, Gas or Oil Well Drilling

ICC Item Number: 138640 ICC Class: 50 LTL 35 TL

Department of Transportation - (DOT):

Description: Hazardous Material and Hazardous Substance

Hazard Class: Flammable Liquid

Shipping Name: Toluene Solution, Flammable Liquid, UN 1294.

DOT Label: Flammable liquid

Comment:

DS Tank Ex. #: N/A

CERCLA RQ: 138 gallons.

US Foreign Trade Schedule B# (Export): 443.1095

## Canadian Shipments:

Shipping Name:

Special Provision:

Classification:

ICAO Class:

Pkg Group:

(\*) Indicates a trade or service mark of Dowell Schlumberger Incorporated. The information herein is believed to be accurate and is presented in good faith; however, no warranties or representations are made by Dowell Schlumberger regarding the accuracy or completeness of the information.

CHEMICAL CODE: J602L  
PRODUCT NAME: PH CONTROL AGENT J602L

EFFECTIVE DATE: 10 NOV 88

PREPARED BY: W. W. SHEPHERD

HMIS RATING:

Health 1 Flammability 0 Reactivity 0

HAZARDOUS INGREDIENTS:

WATER  
SODIUM ACETATE

CAS NUMBER  
007732-18-5  
000127-09-3

SECTION 1 - PHYSICAL PROPERTIES:

Chemical Nature: Salt	Form: Liquid
Color: White	Odor: None
Vap. Density: >1	%Sol. In Water: 100
pH: Not determined	Sp. Gravity: 1.08
Pour Point: 0 F (-18 C)	Boiling Pt.: 217 F (103 C)
Vap. Pressure: 60 mmHg at 100 C	% Volatile: >50
Viscosity: Not determined	Bulk Density: Not determined

SECTION 2 - FIRE AND EXPLOSION HAZARDS:

Flash Point: >200 F (>93 C) Method Used: Not applicable  
Ignition Temperature: Not determined  
Explosion Limits in Air - Lower: Not applicable Upper: Not applicable  
Extinguishing Media: None needed.  
Special Fire Fighting Equipment and Hazards:  
Wear protective fire fighting clothing and avoid breathing vapors.  
Use self-contained breathing apparatus in closed areas.

SECTION 3 - REACTIVITY HAZARDS:

Stability: Stable  
Incompatibility: Oxidizers.  
Hazardous Decomposition:  
When heated strongly or burned, oxides of carbon and harmful organic chemical fumes are released.  
Hazardous Polymerization: Will not occur.

SECTION 4 - FIRST AID PROCEDURES:

Eye Contact: Immediately flush eyes with water for 15 minutes while holding eyelids open. See a doctor at once.  
Skin Contact: Wash thoroughly with soap and water. See a doctor if irritation occurs. Wash clothes thoroughly before reusing.  
Swallowing: If several grams are swallowed, induce vomiting with ipecac (preferred), or by giving water and sticking finger down throat. After vomiting give milk (preferred) or water and consult physician.  
Inhalation: Remove to fresh air. See a doctor if effects occur.  
Notes: None

---

**SECTION 5 - HANDLING PRECAUTIONS:**

Ventilation: General ventilation if mist is generated.

Respiratory Protection:

None normally needed. If dust or mist is generated use NIOSH approved respirator with dust and mist protection (3M No. 8710).

Protective Clothing:

Clean, body-covering clothing and rubber gloves. For spills and emergencies, also wear boots and slicker (rain) suit.

Eye Protection:

Chemical goggles required and an eye wash in work area.

Exposure Guidelines: Not established.

---

**SECTION 6 - SPILL AND DISPOSAL PROCEDURES:**

Spills: Contain with dikes. Put in steel or plastic drum.  
Flush residual with plenty of water.

Disposal Method

Product: May be incinerated (preferred) or injected in disposal well. Small amounts may be acceptable in sanitary sewer; check local regulations.

Container: Sell to approved drum reconditioner or render container unuseable by puncturing or crushing. Send to sanitary landfill unless prohibited by local regulations.

Degradability: Biodegradable.

Fish Toxicity: Low toxicity to fish.

CERCLA Reportable Quantity: Not established.

RCRA Hazardous Waste Number: None.

---

**SECTION 7 - TOXICOLOGY:**

Eye Contact: Irritant. May cause pain, redness, discomfort.

Skin Contact: Irritant. May cause pain, redness, dermatitis.  
Not likely to be absorbed in toxic amounts.

Swallowing: No effect expected. Swallowing large amounts may cause illness.

Inhalation: No effect expected. Prolonged or repeated exposure may cause mild irritation.

Carcinogens: Not listed by IARC, USA NTP, or USA OSHA.

Other: None.

---

**SECTION 8 - ADDITIONAL INFORMATION:**

Special Precautions: None.

Physical Hazard: None.

Handling and Storage Precautions:

No special precautions required.

Packaging Requirements:

Steel or plastic drum or can.

Additional Information: Q1 (Protective Equipment Code)

SECTION 9 - REGULATORY INFORMATION:NFPA Rating:

Health 1 ; Flammability 0 ; Reactivity 0 ; Other: None

WHMIS Classification (Canada): Not determinedTSCA Status: All components of this material are on the TSCA inventory.SECTIONS AFFECTED BY LAST REVISION:SHIPPING INFORMATION:

ICC Tariff Classification: Compound, Gas or Oil Well Drilling

ICC Item Number: 138640

ICC Class: 50 LTL TL

Department of Transportation - (DOT):

Description: Not Regulated

Hazard Class: Not Regulated

Shipping Name: Non-Regulated

DOT Label:

Comment:

DS Tank Ex. #: N/A

CERCLA RQ: Not established.

US Foreign Trade Schedule B# (Export): 2915.22.0000 4

Canadian Shipments:

Shipping Name:

Special Provision:

Classification:

ICAO Class:

Pkg Group:

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CHEMICAL CODE: J603  
PRODUCT NAME: BREAKER J603

EFFECTIVE DATE: 28 AUG 91

PREPARED BY: W. W. SHEPHERD

HMIS RATING:

Health 2      Flammability 1      Reactivity 0

HAZARDOUS INGREDIENTS:

CAS NUMBER

PROPRIETARY ORGANIC ACID.

SECTION 1 - PHYSICAL PROPERTIES:

Chemical Nature: Acid	Form: Crys. Powder
Color: Yellow	Odor: None
Vap. Density: Not applicable	%Sol. In Water: Slight
pH: Not determined	Sp. Gravity: 1.5
Pour Point: 468 F (242 C)	Boiling Pt.: Sublimes
Vap. Pressure: Not applicable	% Volatile: Not applicable
Viscosity: Not determined	Bulk Density: Not determined

SECTION 2 - FIRE AND EXPLOSION HAZARDS:

Flash Point: >200 F (>93 C)      Method Used: Not applicable  
Ignition Temperature: Not determined  
Explosion Limits in Air - Lower: Not determined      Upper: Not determined  
Extinguishing Media: Water Fog, Alcohol Foam, CO2, Dry Chemical  
Special Fire Fighting Equipment and Hazards:  
    Wear protective fire fighting clothing and avoid breathing vapors.  
    Use self-contained breathing apparatus in closed areas.

SECTION 3 - REACTIVITY HAZARDS:

Stability: Stable  
Incompatibility: Reducing agents.  
Hazardous Decomposition:  
    When heated strongly or burned, oxides of carbon, nitrogen oxides,  
    ammonia and harmful organic chemical fumes are released.  
Hazardous Polymerization: Will not occur.

SECTION 4 - FIRST AID PROCEDURES:

Eye Contact:      Immediately flush eyes with water for 30 minutes  
                         while holding eyelids open. See a doctor at once.  
Skin Contact:      Immediately wash with soap and water for 15  
                         minutes. See a doctor at once. Destroy  
                         contaminated shoes. Wash clothes thoroughly  
                         before reusing.  
Swallowing:      If several grams are swallowed, induce vomiting  
                         with ipecac (preferred), or by giving water and  
                         sticking finger down throat. After vomiting give  
                         milk (preferred) or water and consult physician.  
Inhalation:      Remove to fresh air. See a doctor if effects  
                         occur.  
Notes:              None

---

**SECTION 5 - HANDLING PRECAUTIONS:**

Ventilation: General ventilation as needed to control dust.

Respiratory Protection:

Use NIOSH approved respirator with dust and mist protection (3M No. 8710).

Protective Clothing:

Clean, body-covering clothing and impervious gloves. For spills and emergencies, also wear boots and slicker (rain) suit.

Eye Protection:

Chemical goggles required and an eye wash in work area.

Exposure Guidelines: Not established.

---

**SECTION 6 - SPILL AND DISPOSAL PROCEDURES:**

Spills: Scoop into containers. Flush residual with plenty of water.

Disposal Method

Product: Ship via permitted waste hauler to permitted hazardous waste disposal facility for incineration (preferred) or landfilling.

Container: Send empty bags to sanitary landfill. Render other types of containers unuseable by puncturing or crushing and send to sanitary landfill.

Degradability: Biodegradable.

Fish Toxicity: No information.

CERCLA Reportable Quantity: Not established.

RCRA Hazardous Waste Number: None.

---

**SECTION 7 - TOXICOLOGY:**

Eye Contact: Severe irritant. Causes pain and redness. Prolonged or repeated contact may cause mild burn.

Skin Contact: Irritant. May cause pain, redness, dermatitis. Not likely to be absorbed in toxic amounts.

Swallowing: Irritant. Harmful if swallowed. May cause pain or discomfort to mouth, throat and stomach. Large amounts may cause illness or death. LD50 (rats) = 1,960 mg/kg.

Inhalation: No effect expected. Prolonged or repeated exposure may cause mild irritation. Dust is irritating.

Carcinogens: Not listed by IARC, USA NTP, or USA OSHA.

Other: None.

---

**SECTION 8 - ADDITIONAL INFORMATION:**

Special Precautions: None.

Physical Hazard: Dust.

Handling and Storage Precautions:

No special precautions required.

Packaging Requirements:

Paper bag (minimum 3 ply), or other industrial container designed for powders and granulated materials.

Additional Information: Q1Q6 (Protective Equipment Code)

---

SECTION 9 - REGULATORY INFORMATION:NFPA Rating:

Health 2 ; Flammability 1 ; Reactivity 0 ; Other: None

WHMIS Classification (Canada): Not determined

TSCA Status: All components of this material are on the TSCA inventory.

SECTIONS AFFECTED BY LAST REVISION:SHIPPING INFORMATION:

ICC Tariff Classification: Compound, Gas or Oil Well Drilling

ICC Item Number: 138640 ICC Class: 50 LTL TL

Department of Transportation - (DOT):

Description: Not Regulated

Hazard Class: Not Regulated

Shipping Name: Non-Regulated

DOT Label:

Comment: Oral LD 50: 1960 MG/Kg

DS Tank Ex. #: N/A

CERCLA RQ: Not established.

US Foreign Trade Schedule B# (Export): 2942.00.0000 7

Canadian Shipments:

Shipping Name:

Special Provision:

Classification:

ICAO Class:

Pkg Group:

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<u>H AMERICA MATERIAL SAFETY D</u>	<u>HEET</u>
Dowell Schlumberger P. O. Box 2710, Tulsa, Oklahoma 74101	Emergency Phone: 918-582-0104

CHEMICAL CODE: D075  
PRODUCT NAME: SILICATE ADDITIVE D75

EFFECTIVE DATE: 28 AUG 91

PREPARED BY: W. W. SHEPHERD

HMIS RATING:

Health 2      Flammability 0      Reactivity 0

HAZARDOUS INGREDIENTS:  
AQUEOUS SOLUTION OF  
SODIUM SILICATE

CAS NUMBER  
  
001344-09-8

SECTION 1 - PHYSICAL PROPERTIES:

Chemical Nature: Alkaline	Form: Liquid
Color: Colorless	Odor: None
Vap. Density: Not determined	% Sol. In Water: 100
pH: 11	Sp. Gravity: 1.38
Pour Point: 30 F (-1 C)	Boiling Pt.: 214-216 F (101-102 C)
Vap. Pressure: 17.5	% Volatile: 60
Viscosity: Not determined	Bulk Density: Not determined

SECTION 2 - FIRE AND EXPLOSION HAZARDS:

Flash Point: >200 F (>93 C)      Method Used: Not applicable  
Ignition Temperature: Not determined  
Explosion Limits in Air - Lower: Not applicable      Upper: Not applicable  
Extinguishing Media: None needed.  
Special Fire Fighting Equipment and Hazards:  
None known.

SECTION 3 - REACTIVITY HAZARDS:

Stability: Stable  
Incompatibility: Acids.  
Hazardous Decomposition: Sodium oxide.  
Hazardous Polymerization: Will not occur.

SECTION 4 - FIRST AID PROCEDURES:

Eye Contact: Immediately flush eyes with water for 30 minutes while holding eyelids open. See a doctor at once.  
Skin Contact: Immediately wash with soap and water for 15 minutes. See a doctor at once. Destroy contaminated shoes. Wash clothes thoroughly before reusing.  
Swallowing: DO NOT induce vomiting. Give 2 glasses of milk (preferred) or water and take to hospital at once.  
Inhalation: Remove to fresh air. See a doctor if effects occur.  
Notes: Treat as an alkaline solution.

SECTION 5 - HANDLING PRECAUTIONS:Ventilation:

General ventilation required if mist is generated.

Respiratory Protection:

None normally needed. If dust or mist is generated use NIOSH approved respirator with dust and mist protection (3M No. 8710).

Protective Clothing:

Clean, body-covering clothing and rubber gloves. For spills and emergencies, also wear boots and slicker (rain) suit.

Eye Protection:

Chemical goggles required and an eye wash in work area.

Exposure Guidelines:

Not established. Recommend TLV 2 mg/m3 as sodium hydroxide equivalent.

SECTION 6 - SPILL AND DISPOSAL PROCEDURES:

Spills: Contain with dikes. Put in steel or plastic drum.  
Flush residual with plenty of water.

Disposal Method

Product: Ship via permitted waste hauler to permitted hazardous waste disposal facility for solidification and landfilling (preferred) or disposal well injection.

Container: Sell to approved drum reconditioner or render container unuseable by puncturing or crushing. Send to sanitary landfill unless prohibited by local regulations.

Degradability: Not biodegradable.

Fish Toxicity: Low toxicity to fish.

CERCLA Reportable Quantity: Not established.

RCRA Hazardous Waste Number: None.

SECTION 7 - TOXICOLOGY:

Eye Contact: Severe irritant. Causes pain and redness.  
Prolonged or repeated contact may cause mild burn.

Skin Contact: Irritant. May cause pain, redness, dermatitis.  
Not likely to be absorbed in toxic amounts.

Swallowing: Irritant. May cause pain or discomfort to mouth, throat and stomach. LD50 (rats) = 2,000-3,000 mg/kg.

Inhalation: Irritant if mist is inhaled. May cause pain and coughing.

Carcinogens: Not listed by IARC, USA NTP, or USA OSHA.

Other: None.

SECTION 8 - ADDITIONAL INFORMATION:

Special Precautions: None.

Physical Hazard: None.

Handling and Storage Precautions:

No special precautions required.

Packaging Requirements:

Steel or plastic drum or can.

Additional Information: Q1 (Protective Equipment Code)

SECTION 9 - REGULATORY INFORMATION:NFPA Rating:

Health 2 ; Flammability 0 ; Reactivity 0 ; Other: None

WHMIS Classification (Canada): Not determined

TSCA Status: All components of this material are on the TSCA inventory.

SECTIONS AFFECTED BY LAST REVISION:SHIPPING INFORMATION:

ICC Tariff Classification: Compound, Gas or Oil Well Drilling

ICC Item Number: 138640 ICC Class: 50 LTL TL

Department of Transportation - (DOT):

Description: Not Regulated

Hazard Class: Not Regulated

Shipping Name: Not regulated

DOT Label:

Comment:

DS Tank Ex. #: N/A

CERCLA RQ: Not established.

US Foreign Trade Schedule B# (Export): 2839.11.0000 0

Canadian Shipments:

Shipping Name:

Special Provision:

Classification:

ICAO Class:

Pkg Group:

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CHEMICAL CODE: J433  
PRODUCT NAME: WATER CONTROL POLYMER J433

EFFECTIVE DATE: 16 SEP 88 PREPARED BY: W. W. SHEPHERD

HMIS RATING:  
Health 2 Flammability 1 Reactivity 0

HAZARDOUS INGREDIENTS: CAS NUMBER  
PROPRIETARY EMULSION OF POLYACRYLAMIDE

SECTION 1 - PHYSICAL PROPERTIES:

Chemical Nature: Polymer	Form: Liquid
Color: Opaque	Odor: Slight
Vap. Density: Not applicable	%Sol. In Water: Very soluble
pH: 10 (.3 percent)	Sp. Gravity: 1.03
Pour Point: Not determined	Boiling Pt.: 200 F, 93C
Vap. Pressure: Very low	% Volatile: 64
Viscosity: Not determined	Bulk Density: Not determined

SECTION 2 - FIRE AND EXPLOSION HAZARDS:

Flash Point: >200 F (>93 C) Method Used: Setaflash CC  
Ignition Temperature: Not determined  
Explosion Limits in Air - Lower: Not determined Upper: Not determined  
Extinguishing Media: Foam, CO2, Dry Chemical  
Special Fire Fighting Equipment and Hazards:  
Wear protective fire fighting clothing and avoid breathing vapors.  
Use self-contained breathing apparatus in closed areas. Slick when wet.

SECTION 3 - REACTIVITY HAZARDS:

Stability: Stable  
Incompatibility: Bases, oxidizers.  
Hazardous Decomposition:  
When heated strongly or burned, oxides of carbon, nitrogen oxides, ammonia and harmful organic chemical fumes are released.  
Hazardous Polymerization: Will not occur.

SECTION 4 - FIRST AID PROCEDURES:

Eye Contact: Immediately flush eyes with water for 15 minutes while holding eyelids open. See a doctor at once.  
Skin Contact: Immediately wash with soap and water for 15 minutes. See a doctor at once. Destroy contaminated shoes. Wash clothes thoroughly before reusing.  
Swallowing: DO NOT induce vomiting. Give activated charcoal in water (preferred), take to hospital at once. If charcoal unavailable, give 2 glasses of milk (preferred) or water and take to hospital at once.  
Inhalation: Remove to fresh air. See a doctor if effects occur.  
Notes: None

---

**SECTION 5 - HANDLING PRECAUTIONS:**

Ventilation: General ventilation.

Respiratory Protection:

None normally needed. Use NIOSH approved respirator with organic vapor/acid gas protection (color coded yellow) if vapors are generated and for emergencies.

Protective Clothing:

Clean, body-covering clothing and impervious gloves. For spills and emergencies, also wear boots and slicker (rain) suit.

Eye Protection:

Chemical goggles required and an eye wash in work area.

Exposure Guidelines:

TWA 0.3 mg/m3 for acrylamide monomer. Recommend control of vapors to 10 mg/m3 for polyacrylamide and 10 mg/m3 for petroleum hydrocarbon.

---

**SECTION 6 - SPILL AND DISPOSAL PROCEDURES:**

Spills: Contain with dikes. Put in steel or plastic drum. Soak up residual on inert absorbant (sand).

Disposal Method

Product: Solids may be sanitary landfilled. Liquids may be incinerated or injected in disposal well.

Container: Leave label on drum and sell drum to an approved drum reconditioner or triple rinse, crush, and ship to sanitary landfill unless prohibited by local regulations.

Degradability: Not biodegradable.

Fish Toxicity: Low toxicity to fish.

CERCLA Reportable Quantity: Not established.

RCRA Hazardous Waste Number: None.

---

**SECTION 7 - TOXICOLOGY:**

Eye Contact: Irritant. May cause pain, redness, discomfort.

Skin Contact: Irritant. May cause pain, redness, dermatitis. Not likely to be absorbed in toxic amounts.

Swallowing: No effect expected. Swallowing large amounts may cause illness. LD50 (rats) is greater than 5,000 mg/kg.

Inhalation: Irritant. May cause pain and coughing.

Carcinogens: Not listed by IARC, USA NTP, or USA OSHA.

Other:

May contain trace amounts of acrylamide monomer which can affect nervous system and can cause tumors in lab animals at high exposure levels.

---

**SECTION 8 - ADDITIONAL INFORMATION:**

Special Precautions: None.

Physical Hazard: Slick.

Handling and Storage Precautions:

No special precautions required. Slick when wet.

Packaging Requirements:

Steel or plastic drum or can.

Additional Information: Q1 (Protective Equipment Code)

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SECTION 9 - REGULATORY INFORMATION:

## NFPA Rating:

Health 2 ; Flammability 1 ; Reactivity 0 ; Other: None

WHMIS Classification (Canada): Not determined

TSCA Status: All components of this material are on the TSCA  
inventory.

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SECTIONS AFFECTED BY LAST REVISION:

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SHIPPING INFORMATION:

ICC Tariff Classification: Compound, Gas or Oil Well Drilling

ICC Item Number: 138640 ICC Class: 50 LTL TL

Department of Transportation - (DOT):

Description: Not Regulated

Hazard Class: Not Regulated

Shipping Name: Not Regulated.

DOT Label:

Comment:

DS Tank Ex. #: N/A

CERCLA RQ: Not established.

US Foreign Trade Schedule B# (Export): 433.1095

Canadian Shipments:

Shipping Name:

Special Provision:

Classification:

ICAO Class:

Pkg Group:

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CHEMICAL CODE: J425  
PRODUCT NAME: ACID GELLING AGENT J425

EFFECTIVE DATE: 09 NOV 88                      PREPARED BY: W. W. SHEPHERD

HMIS RATING:  
Health 2      Flammability 1      Reactivity 0

HAZARDOUS INGREDIENTS: PROPRIETARY SUBSTITUTED FATTY AMINE. ACETIC ACID.	CAS NUMBER  000064-19-7
--------------------------------------------------------------------------------	-------------------------------

SECTION 1 - PHYSICAL PROPERTIES:

Chemical Nature: Amine	Form: Liquid
Color: Brown	Odor: Vinegar
Vap. Density: >1	%Sol. In Water: Moderate
pH: Not determined	Sp. Gravity: 1.07 at 72 F
Pour Point: Not determined	Boiling Pt.: 246 F (119 C)
Vap. Pressure: 1 psi at 100 F	% Volatile: 30
Viscosity: Not determined	Bulk Density: Not determined

SECTION 2 - FIRE AND EXPLOSION HAZARDS:

Flash Point: >200 F (>93 C)      Method Used: Not determined  
Ignition Temperature: Not determined  
Explosion Limits in Air - Lower: Not determined      Upper: Not determined  
Extinguishing Media: Water Fog, Alcohol Foam, CO2, Dry Chemical  
Special Fire Fighting Equipment and Hazards:  
    Wear protective fire fighting clothing and avoid breathing vapors.  
    Use self-contained breathing apparatus in closed areas.

SECTION 3 - REACTIVITY HAZARDS:

Stability: Stable  
Incompatibility: Oxidizers, bases.  
Hazardous Decomposition:  
    When heated strongly or burned, oxides of carbon, nitrogen oxides,  
    ammonia and harmful organic chemical fumes are released.  
Hazardous Polymerization: Will not occur.

SECTION 4 - FIRST AID PROCEDURES:

Eye Contact:	Immediately flush eyes with water for 30 minutes while holding eyelids open. See a doctor at once.
Skin Contact:	Immediately wash with soap and water for 30 minutes. See a doctor at once. Destroy contaminated shoes and clothing.
Swallowing:	DO NOT induce vomiting. Give 2 glasses of milk (preferred) or water and take to hospital at once.
Inhalation:	Remove to fresh air. See a doctor if effects occur.
Notes:	None

---

**SECTION 5 - HANDLING PRECAUTIONS:**

Ventilation: General and local ventilation is required.

Respiratory Protection:

Use NIOSH approved respirator with organic vapor/acid gas protection (color coded yellow). Use SCBA (self contained breathing apparatus) in confined areas and for emergencies.

Protective Clothing:

Face shield, boots, slicker (rain) suit, impervious gloves.

Eye Protection:

Chemical goggles required and an eye wash in work area.

Exposure Guidelines: TLV = TWA 10 ppm acetic acid (ACGIH).

---

**SECTION 6 - SPILL AND DISPOSAL PROCEDURES:**

Spills: Contain with dikes. Dilute with water. Neutralize with soda ash or lime. Put in steel drum (plastic drum if acidic).

Disposal Method

Product: Ship via permitted waste hauler to permitted hazardous waste disposal facility for incineration (preferred) or disposal well injection of all liquids and landfilling of solids.

Container: Leave label on drum and sell drum to an approved drum reconditioner or triple rinse, crush, and ship to sanitary landfill unless prohibited by local regulations.

Degradability: No information.

Fish Toxicity: No information.

CERCLA Reportable Quantity: 2,580 gallons (acetic acid).

RCRA Hazardous Waste Number: D002

---

**SECTION 7 - TOXICOLOGY:**

Eye Contact: Corrosive. Rapidly causes pain, burns, corneal injury. May cause permanent damage and blindness.

Skin Contact: Corrosive. Rapidly causes pain, burns, redness, swelling and damage to tissue. Not likely to be absorbed in toxic amounts.

Swallowing: Corrosive. Causes pain and severe burns to mouth, throat and stomach.

Inhalation: Severe irritant. Causes pain, choking, coughing, burning sensation. Can cause soreness.

Carcinogens: Not listed by IARC, USA NTP, or USA OSHA.

Other: None.

---

**SECTION 8 - ADDITIONAL INFORMATION:**

Special Precautions: None.

Physical Hazard: Corrosive.

Handling and Storage Precautions:

Store in closed containers away from oxidizers, strong bases, aldehydes and ketones.

Packaging Requirements:

Plastic (all poly) drum (DOT 34) or plastic can.

Additional Information: Q5Q7 (Protective Equipment Code)

---



SECTION 9 - REGULATORY INFORMATION:NFPA Rating:

Health 2 ; Flammability 1 ; Reactivity 0 ; Other: None

WHMIS Classification (Canada): Not determined

TSCA Status: All components of this material are on the TSCA inventory.

SECTIONS AFFECTED BY LAST REVISION:SHIPPING INFORMATION:

ICC Tariff Classification: Compound, Gas or Oil Well Drilling

ICC Item Number: 138640 ICC Class: 50 LTL TL

Department of Transportation - (DOT):

Description: Hazardous Material

Hazard Class: Corrosive Material

Shipping Name: Corrosive Liquid, N.O.S. (contains acetic acid),  
UN 1760

DOT Label: Corrosive

Comment:

DS Tank Ex. #: N/A

CERCLA RQ: 2,580 gallons (acetic acid).

US Foreign Trade Schedule B# (Export): 3823.90.7000 5

Canadian Shipments:

Shipping Name:

Special Provision:

Classification:

ICAO Class:

Pkg Group:

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CHEMICAL CODE: T133  
PRODUCT NAME: CEMENT EQUIPMENT CLEANER T133

EFFECTIVE DATE: 23 NOV 88 PREPARED BY: W. W. SHEPHERD

HMIS RATING:  
Health 2 Flammability 0 Reactivity 0

HAZARDOUS INGREDIENTS:	CAS NUMBER
AQUEOUS SOLUTION OF PHOSPHORIC ACID AND SURFACTANTS.	007664-38-2

---

SECTION 1 - PHYSICAL PROPERTIES:

Chemical Nature: Acid	Form: Liquid
Color: Colorless	Odor: Faint alcohol
Vap. Density: Not determined	% Sol. In Water: 100
pH: Not determined	Sp. Gravity: 1.26
Pour Point: Not determined	Boiling Pt.: 212-220 F (100-104 C)
Vap. Pressure: Not determined	% Volatile: 90
Viscosity: Not determined	Bulk Density: Not determined

---

SECTION 2 - FIRE AND EXPLOSION HAZARDS:

Flash Point: >200 F (>93 C) Method Used: Not applicable  
Ignition Temperature: Not determined  
Explosion Limits in Air - Lower: Not applicable Upper: Not applicable  
Extinguishing Media: None needed.  
Special Fire Fighting Equipment and Hazards:  
May release hydrogen gas (explosive) when in contact with metals.

---

SECTION 3 - REACTIVITY HAZARDS:

Stability: Stable  
Incompatibility: Bases, metals.  
Hazardous Decomposition:  
May release hydrogen gas (explosive!) when in contact with metals.  
When heated strongly, phosphorus oxides may be released.  
Hazardous Polymerization: Will not occur.

---

SECTION 4 - FIRST AID PROCEDURES:

Eye Contact:	Immediately flush eyes with water for 30 minutes while holding eyelids open. See a doctor at once.
Skin Contact:	Immediately wash with soap and water for 15 minutes. See a doctor at once. Destroy contaminated shoes. Wash clothes thoroughly before reusing.
Swallowing:	DO NOT induce vomiting. Drink Large quantities of milk (preferred) or water and give milk of magnesia. Take to hospital at once.
Inhalation:	Remove to fresh air. See a doctor if effects occur.
Notes:	None

---

**SECTION 5 - HANDLING PRECAUTIONS:**

Ventilation: General ventilation if mist is generated.

Respiratory Protection:

None normally needed. Use NIOSH approved respirator with organic vapor/acid gas protection (color coded yellow) if vapors are generated and for emergencies.

Protective Clothing:

Face shield, boots, slicker (rain) suit, impervious gloves.

Eye Protection:

Chemical goggles required and an eye wash in work area.

Exposure Guidelines:

TLVs are TWA 1 mg/m<sup>3</sup> and PEL 3 mg/m<sup>3</sup> (ACGIH). PEL is 1 mg/m<sup>3</sup> for phosphoric acid (OSHA).

---

**SECTION 6 - SPILL AND DISPOSAL PROCEDURES:**

Spills: Contain with dikes. Dilute with water. Neutralize with soda ash or lime. Put in steel drum (plastic drum if acidic).

Disposal Method

Product: Ship via permitted waste hauler to permitted hazardous waste disposal facility for incineration (preferred) or disposal well injection of all liquids and landfilling of solids.

Container: Sell to approved drum reconitioner or render container unuseable by puncturing or crushing. Send to sanitary landfill unless prohibited by local regulations.

Degradability: Not biodegradable.

Fish Toxicity: Low toxicity to fish.

CERCLA Reportable Quantity: 920 gallons.

RCRA Hazardous Waste Number: D002

---

**SECTION 7 - TOXICOLOGY:**

Eye Contact: Corrosive. Rapidly causes pain, burns, corneal injury. May cause permanent damage and blindness.

Skin Contact: Corrosive. Rapidly causes pain, burns, redness, swelling and damage to tissue. Not likely to be absorbed in toxic amounts.

Swallowing: Corrosive. Harmful if swallowed. Causes pain and severe burns to mouth, throat and stomach. Large amounts may cause illness or death.

Inhalation: Mist. Corrosive. Short exposure can injure lungs, throat, mucous membranes and reduce lung capacity. Causes pain, burns, choking, and coughing.

Carcinogens: Not listed by IARC, USA NTP, or USA OSHA.

Other: A strong acid.

---

**SECTION 8 - ADDITIONAL INFORMATION:**

Special Precautions: None.

Physical Hazard: Corrosive.

Handling and Storage Precautions:

No special precautions required.

Packaging Requirements:

Plastic (all poly) drum (DOT 34) or plastic can.

Additional Information: Q5 (Protective Equipment Code)

---

SECTION 8 - CONTINUED

Will react with stainless steel in the presence of chloride.

SECTION 9 - REGULATORY INFORMATION:

This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:  
phosphoric acid (41 percent).

## NFPA Rating:

Health 2 ; Flammability 0 ; Reactivity 0 ; Other: None

WHMIS Classification (Canada): Not determined

TSCA Status: All components of this material are on the TSCA inventory.

SECTIONS AFFECTED BY LAST REVISION:SHIPPING INFORMATION:

ICC Tariff Classification: Compound, Gas or Oil Well Drilling

ICC Item Number: 138640 ICC Class: 50 LTL TL

Department of Transportation - (DOT):

Description: Hazardous Material and Hazardous Substance

Hazard Class: Corrosive Material

Shipping Name: Phosphoric Acid solution, corrosive material,  
UN 1805.

DOT Label: Corrosive

Comment:

DS Tank Ex. #: N/A

CERCLA RQ: 920 gallons.

US Foreign Trade Schedule B# (Export): 3823.90.7000 5

## Canadian Shipments:

Shipping Name:

Special Provision:

Classification:

ICAO Class:

Pkg Group:

(\*) Indicates a trade or service mark of Dowell Schlumberger Incorporated. The information herein is believed to be accurate and is presented in good faith; however, no warranties or representations are made by Dowell Schlumberger regarding the accuracy or completeness of the information.

CHEMICAL CODE: J877  
PRODUCT NAME: PSG POLYMER SLURRY J877

EFFECTIVE DATE: 14 AUG 90

PREPARED BY: W. W. SHEPHERD

HMIS RATING:

Health 0      Flammability 2      Reactivity 0

HAZARDOUS INGREDIENTS:

PROPRIETARY HIGH MOLECULAR WEIGHT ORGANIC POLYMERS  
IN DIESEL OIL

CAS NUMBER

068476-34-6

SECTION 1 - PHYSICAL PROPERTIES:

Chemical Nature: Polymer	Form: Slurry
Color: Amber	Odor: Diesel
Vap. Density: >1	%Sol. In Water: Insoluble
pH: Not determined	Sp. Gravity: 1.06
Pour Point: Not determined	Boiling Pt.: 350-650 deg F (177-343 C)
Vap. Pressure: <1 mmHg @ 20 deg C (% Volatile: <50 68 F)	
Viscosity: Not determined	Bulk Density: Not determined

---

SECTION 2 - FIRE AND EXPLOSION HAZARDS:

Flash Point: 140 F (60 C)      Method Used: Tag closed cup  
Ignition Temperature: Not determined  
Explosion Limits in Air - Lower: 0.4      Upper: 2.6  
Extinguishing Media: Water Fog, Alcohol Foam, CO2, Dry Chemical  
Special Fire Fighting Equipment and Hazards:  
    Wear protective fire fighting clothing and avoid breathing vapors.  
    Use self-contained breathing apparatus in closed areas.  
    Autoignition temperature = 494 deg F (256 deg C).

---

SECTION 3 - REACTIVITY HAZARDS:

Stability: Stable  
Incompatibility: Oxidizing materials.  
Hazardous Decomposition:  
    When heated strongly or burned, oxides of carbon and harmful organic  
    chemical fumes are released.  
Hazardous Polymerization: Will not occur.

---

SECTION 4 - FIRST AID PROCEDURES:

Eye Contact:	Immediately flush eyes with water for 15 minutes while holding eyelids open. See a doctor at once.
Skin Contact:	Wash thoroughly with soap and water. See a doctor if irritation occurs. Wash clothes thoroughly before reusing.
Swallowing:	DO NOT induce vomiting. Give activated charcoal in water (preferred), take to hospital at once. If charcoal unavailable, give 2 glasses of milk (preferred) or water and take to hospital at once.
Inhalation:	Remove to fresh air. See a doctor if effects occur.
Notes:	None

---

---

**SECTION 5 - HANDLING PRECAUTIONS:**

Ventilation: General and local ventilation is required.

**Respiratory Protection:**

None normally needed. Use NIOSH approved respirator with organic vapor/acid gas protection (color coded yellow) if vapors are generated and for emergencies.

**Protective Clothing:**

Clean, body-covering clothing and rubber gloves. For spills and emergencies, also wear boots and slicker (rain) suit.

**Eye Protection:**

Chemical goggles required and an eye wash in work area.

Exposure Guidelines: TLV = 0.5 mg/m3.

---

**SECTION 6 - SPILL AND DISPOSAL PROCEDURES:**

**Spills:** Contain with dikes. Use explosion proof equipment to recover. Remove all sources of ignition. Soak up residual on inert absorbant (sand). Put in steel or plastic drum approved for flammables.

**Disposal Method**

**Product:** Ship via permitted waste hauler to permitted hazardous waste disposal facility for incineration (preferred) or disposal well injection of all liquids and landfilling of solids.

**Container:** Leave label on drum and sell drum to an approved drum reconditioner or triple rinse, crush, and ship to sanitary landfill unless prohibited by local regulations.

**Degradability:** Partially biodegradable.

**Fish Toxicity:** Toxic to fish. Do not allow to enter waterway.

**CERCLA Reportable Quantity:** Not established.

**RCRA Hazardous Waste Number:** D001

---

**SECTION 7 - TOXICOLOGY:**

**Eye Contact:** Irritant. May cause pain, redness, discomfort.

**Skin Contact:** Irritant. May cause pain, redness, dermatitis. Not likely to be absorbed in toxic amounts.

**Swallowing:** Irritant. May cause pain or discomfort to mouth, throat and stomach.

**Inhalation:** Irritant. May cause pain and coughing. May cause headache and drowsiness including changes to central nervous system.

**Carcinogens:** Not listed by IARC, USA NTP, or USA OSHA.

**Other:** None.

---

**SECTION 8 - ADDITIONAL INFORMATION:**

**Special Precautions:** None.

**Physical Hazard:** Fire

**Handling and Storage Precautions:**

Keep away from heat, sparks, and flame. Store out of direct sunlight in well ventilated area. Keep container closed when not in use. Use with adequate ventilation. Do not cut or weld on container.

**Packaging Requirements:**

Uncoated phosphatized steel drum (DOT 17E); plastic can for short term storage only.

**Additional Information:** Q1 (Protective Equipment Code)

---

SECTION 9 - REGULATORY INFORMATION:NFPA Rating:

Health 0 ; Flammability 2 ; Reactivity 0 ; Other: None

WHMIS Classification (Canada): Not determined

TSCA Status: All components of this material are on the TSCA  
inventory.SECTIONS AFFECTED BY LAST REVISION:SHIPPING INFORMATION:

ICC Tariff Classification: Compounds, gas or oil well drilling.

ICC Item Number: 138640 ICC Class: 50 LTL 35 TL

Department of Transportation - (DOT):

Description: Hazardous Material

Hazard Class: Combustible Liquid

Shipping Name: Combustible Liquid, N.O.S. (diesel), NA 1993

DOT Label: (none)

Comment: Not land regulated in packages of 110 gallons or  
less.

DS Tank Ex. #: N/A

CERCLA RQ: Not established.

US Foreign Trade Schedule B# (Export): 433.1095

Canadian Shipments:

Shipping Name:

Special Provision:

Classification:

ICAO Class:

Pkg Group:

(\*) Indicates a trade or service mark of Dowell Schlumberger Incorporated. The information herein is believed to be accurate and is presented in good faith; however, no warranties or representations are made by Dowell Schlumberger regarding the accuracy or completeness of the information.

CHEMICAL CODE: J237A  
PRODUCT NAME: MATRIX ACIDIZING DIVERTING AGENT J237A

EFFECTIVE DATE: 28 AUG 91 PREPARED BY: W. W. SHEPHERD

HMIS RATING:  
Health 2 Flammability 1 Reactivity 0

HAZARDOUS INGREDIENTS:	CAS NUMBER
PROPRIETARY BLEND OF HYDROCARBON RESINS, SURFACTANTS AND SALTS.	
AMMONIUM HYDROXIDE (3 PERCENT).	001336-21-6
ISOPROPANOL.	000067-63-0

SECTION 1 - PHYSICAL PROPERTIES:

Chemical Nature: Polymer	Form: Liquid
Color: Cream	Odor: Ammonia
Vap. Density: Not available	% Sol. In Water: Dispersible
pH: Not determined	Sp. Gravity: 1.055 at 25/25 C
Pour Point: Not determined	Boiling Pt.: Not available
Vap. Pressure: Not available	% Volatile: 45
Viscosity: Not determined	Bulk Density: Not determined

SECTION 2 - FIRE AND EXPLOSION HAZARDS:

Flash Point: >200 F (>93 C) Method Used: Setaflash CC  
Ignition Temperature: Not determined  
Explosion Limits in Air - Lower: Not determined Upper: Not determined  
Extinguishing Media: Water Fog, Alcohol Foam, CO2, Dry Chemical  
Special Fire Fighting Equipment and Hazards:  
Wear protective fire fighting clothing and avoid breathing vapors.  
Use self-contained breathing apparatus in closed areas.

SECTION 3 - REACTIVITY HAZARDS:

Stability: Stable  
Incompatibility: Oxidizers.  
Hazardous Decomposition:  
When heated strongly or burned, oxides of carbon, nitrogen oxides, ammonia and harmful organic chemical fumes are released.  
Hazardous Polymerization: Will not occur.

SECTION 4 - FIRST AID PROCEDURES:

Eye Contact: Immediately flush eyes with water for 30 minutes while holding eyelids open. See a doctor at once.  
Skin Contact: Immediately wash with soap and water for 15 minutes. See a doctor at once. Destroy contaminated shoes. Wash clothes thoroughly before reusing.  
Swallowing: If several grams are swallowed, induce vomiting with ipecac (preferred), or by giving water and sticking finger down throat. After vomiting give milk (preferred) or water and consult physician.  
Inhalation: Remove to fresh air. See a doctor if effects occur.  
Notes: None



**SECTION 5 - HANDLING PRECAUTIONS:**

Ventilation: General and local ventilation is required.

Respiratory Protection:

None normally needed. Use NIOSH approved respirator with ammonia protection (color coded green). Use SCBA (self contained breathing apparatus) in confined areas and for emergencies.

Protective Clothing:

Clean, body-covering clothing and impervious gloves. For spills and emergencies, also wear boots and slicker (rain) suit.

Eye Protection:

Chemical goggles required and an eye wash in work area.

Exposure Guidelines:

TLVs are TWA 400 ppm and STEL 500 ppm for isopropanol; PEL is 400 ppm for isopropanol. TLVs are TWA 25 ppm, STEL 35 ppm, PEL 50 ppm for ammonia.

**SECTION 6 - SPILL AND DISPOSAL PROCEDURES:**

Spills: Contain with dikes. Put in steel or plastic drum. Flush residual with plenty of water.

Disposal Method

Product: Ship via permitted waste hauler to permitted hazardous waste disposal facility for incineration (preferred) or disposal well injection of all liquids and landfilling of solids.

Container: Sell to approved drum reconditioner or render container unuseable by puncturing or crushing. Send to sanitary landfill unless prohibited by local regulations.

Degradability: No information.

Fish Toxicity: No information.

CERCLA Reportable Quantity: Not established.

RCRA Hazardous Waste Number: None.

**SECTION 7 - TOXICOLOGY:**

Eye Contact: Severe irritant. Causes pain and redness. Prolonged or repeated contact may cause mild burn.

Skin Contact: Irritant. May cause pain, redness, dermatitis. Not likely to be absorbed in toxic amounts.

Swallowing: Irritant. Harmful if swallowed. May cause pain or discomfort to mouth, throat and stomach. Large amounts may cause illness or death. LD50 (female rats) is greater than 1,600 mg/kg.

Inhalation: Irritant. May cause pain and coughing.

Carcinogens: Not listed by IARC, USA NTP, or USA OSHA.

Other: None.

**SECTION 8 - ADDITIONAL INFORMATION:**

Special Precautions: None.

Physical Hazard: None.

Handling and Storage Precautions:

Store in well ventilated area.

Packaging Requirements:

Plastic (all poly) drum (DOT 34) or plastic can.

Additional Information: Q1 (Protective Equipment Code)

SECTION 9 - REGULATORY INFORMATION:NFPA Rating:

Health 2 ; Flammability 1 ; Reactivity 0 ; Other: None

WHMIS Classification (Canada): Not determined

TSCA Status: All components of this material are on the TSCA inventory.

SECTIONS AFFECTED BY LAST REVISION:SHIPPING INFORMATION:

ICC Tariff Classification: Compound, Gas or Oil Well Drilling

ICC Item Number: 138640 ICC Class: 50 LTL TL

Department of Transportation - (DOT):

Description: Not Regulated

Hazard Class: Not Regulated

Shipping Name: Non-Regulated

DOT Label:

Comment:

DS Tank Ex. #: N/A

CERCLA RQ: Not established.

US Foreign Trade Schedule B# (Export): 3823.90.7000 5

Canadian Shipments:

Shipping Name:

Special Provision:

Classification:

ICAO Class:

Pkg Group:

(\*) Indicates a trade or service mark of Dowell Schlumberger Incorporated. The information herein is believed to be accurate and is presented in good faith; however, no warranties or representations are made by Dowell Schlumberger regarding the accuracy or completeness of the information.

<u>H AMERICA MATERIAL SAFETY</u>		<u>HEET</u>
Dowell Schlumberger		Emergency Phone:
P. O. Box 2710, Tulsa, Oklahoma 74101		918-582-0104

CHEMICAL CODE: M007  
PRODUCT NAME: ACTIVATOR M7

EFFECTIVE DATE: 03 OCT 88

PREPARED BY: W. W. SHEPHERD

HMIS RATING:

Health 3      Flammability 0      Reactivity 1

HAZARDOUS INGREDIENTS:

SODIUM HYDROXIDE  
WATER

CAS NUMBER  
001310-73-2  
007732-18-5

SECTION 1 - PHYSICAL PROPERTIES:

Chemical Nature: Alkaline	Form: Liquid
Color: Colorless	Odor: None
Vap. Density: Not determined	% Sol. In Water: 100
pH: >13	Sp. Gravity: 1.52
Pour Point: 54F (12C)	Boiling Pt.: 293 deg F (145 deg C)
Vap. Pressure: Not determined	% Volatile: 50
Viscosity: Not determined	Bulk Density: Not determined

SECTION 2 - FIRE AND EXPLOSION HAZARDS:

Flash Point: >200 F (>93 C)      Method Used: Not applicable  
Ignition Temperature: Not determined  
Explosion Limits in Air - Lower: Not applicable      Upper: Not applicable  
Extinguishing Media: None needed.  
Special Fire Fighting Equipment and Hazards:  
May release hydrogen gas (explosive) when in contact with aluminum and similar metals.

SECTION 3 - REACTIVITY HAZARDS:

Stability: Stable  
Incompatibility:  
Product is strong caustic alkali. May react violently with acid, a number of organic compounds, amphoteric metals (such as aluminum) and heated water.  
Hazardous Decomposition: Sodium oxide.  
Hazardous Polymerization: Will not occur.

SECTION 4 - FIRST AID PROCEDURES:

Eye Contact: Immediately flush eyes with water for 30 minutes while holding eyelids open. See a doctor at once.  
Skin Contact: Immediately wash with soap and water for 30 minutes. See a doctor at once. Destroy contaminated shoes and clothing.  
Swallowing: DO NOT induce vomiting. Give 2 glasses of milk (preferred) or water and take to hospital at once.  
Inhalation: Remove to fresh air. See a doctor if effects occur.  
Notes: None

SECTION 5 - HANDLING PRECAUTIONS:Ventilation:

General and local ventilation if mist is generated.

Respiratory Protection:

Use NIOSH approved respirator with dust and mist protection (3M No. 8710) if mist is generated.

Protective Clothing:

Face shield, boots, slicker (rain) suit, impervious gloves.

Eye Protection:

Chemical goggles required and an eye wash in work area.

Exposure Guidelines: TLV 2 mg/m3 ceiling.

---

SECTION 6 - SPILL AND DISPOSAL PROCEDURES:

Spills: Contain with dikes. Put in steel or plastic drum. May be neutralized with sodium bicarbonate. Flush residual with plenty of water.

Disposal Method

Product: Neutralized material is generally acceptable in sanitary sewers; check local regulations.

Container: Leave label on drum and sell drum to an approved drum reconditioner or triple rinse, crush, and ship to sanitary landfill unless prohibited by local regulations.

Degradability: Not biodegradable.

Fish Toxicity: Low toxicity to fish.

CERCLA Reportable Quantity: 158 gallons.

RCRA Hazardous Waste Number: D002

---

SECTION 7 - TOXICOLOGY:

Eye Contact: Corrosive. Rapidly causes pain, burns, corneal injury. May cause permanent damage and blindness.

Skin Contact: Corrosive. Rapidly causes pain, burns, redness, swelling and damage to tissue. Not likely to be absorbed in toxic amounts.

Swallowing: Corrosive. Causes pain and severe burns to mouth, throat and stomach.

Inhalation: Mist corrosive. Short exposure to mist can injure lungs, throat, mucous membranes and reduce lung capacity. Causes pain, burns, choking, and coughing.

Carcinogens: Not listed by IARC, USA NTP, or USA OSHA.

Other: None.

---

SECTION 8 - ADDITIONAL INFORMATION:

Special Precautions: None.

Physical Hazard: Corrosive

Handling and Storage Precautions:

Avoid storing next to strong acids. Spills are slippery. Diluting with water generates heat. Avoid contact with aluminum.

Packaging Requirements:

Uncoated phosphatized steel drum (DOT 17E) or plastic can.

Additional Information: Q5 (Protective Equipment Code)

---

SECTION 9 - REGULATORY INFORMATION:

This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:  
sodium hydroxide solution (50 percent).

NFPA Rating:

Health 3 ; Flammability 0 ; Reactivity 1 ; Other: None

WHMIS Classification (Canada): Not determined

TSCA Status: All components of this material are on the TSCA inventory.

SECTIONS AFFECTED BY LAST REVISION:SHIPPING INFORMATION:ICC Tariff Classification:

Compound, Boiler Cleaning, Scale Removing, Liquid

ICC Item Number: 50093

ICC Class: 55 LTL 35 TL

Department of Transportation - (DOT):

Description: Hazardous Material

Hazard Class: Corrosive Material

Shipping Name: Sodium Hydroxide Solution, Corrosive Material,  
UN 1824

DOT Label: Corrosive

Comment:

DS Tank Ex. #: DOT-E 4803

CERCLA RQ: 158 gallons.

US Foreign Trade Schedule B# (Export): 421.0830

Canadian Shipments:

Shipping Name: Sodium hydroxide, solution

Special Provision:

Classification: 8

ICAO Class: 8

Pkg Group: II

(\*) Indicates a trade or service mark of Dowell Schlumberger Incorporated. The information herein is believed to be accurate and is presented in good faith; however, no warranties or representations are made by Dowell Schlumberger regarding the accuracy or completeness of the information.

# ENVIROTECH INC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

5796 U.S. HIGHWAY 64 - 3014  
FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615

## Certification of Waste Status

Originating location Lpt. K-8 LINE Auto-Matic Drip  
LOWERY - Ojito P/L District

Disposal Location: Envirotech Soil Remediation Site, Hilltop, NM

"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by EPA's July 1988 Regulatory Determination and that non-exempt waste that is a "hazardous waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the exempt waste in such a manner so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Section 261.3(b)."

Signature

Mark Rankin

Name, Date

Delbert M. Rankin 09/16/9

Company

EL PASO Natural Gas Co.

Address

P.O. Box 4990 - Farmington

PHONE: (505) 632-0615

# Bill of Lading

MONTH OF \_\_\_\_\_

Sept 92

2172

[illegible]

Environmental Science Engineering Inc

## Bill of Lading

92175

MONTH OF May 92 JJ 1810

RECEIVED  
SEP. 11/1992  
OIL CON. DIV.  
DIST. 3





Environmental  
Science &  
Engineering, Inc.

## LETTER OF TRANSMITTAL

TO: *EnviroTECH Inc*  
*5796 U.S. Hwy 64-3014*  
*Farmington NM 87401*

DATE: *6/25/92*

ATTN: *KATH VERLE FARNSWORTH*

PROJECT #: *6921261-7035*

SUBJECT: *K MART / FARMINGTON*

### We are transmitting:

☐ Original  
☒ Copies  
☐ Other (see remarks)

### The following:

☐ Letter  
☐ Proposal  
☐ Plan  
☐ Report  
☐ Other  
☒ *ANALYTICAL RESULTS*

### For your:

☐ Approval  
☐ Signature  
☐ Files  
☐ Information  
☐ Review  
☐ Other

### Remarks:

*— CONTRACT FOR SIGNATURE*

*Please sign both copies of contracts  
& return both copies*

If you have any questions, do not hesitate to contact the undersigned at (303) 790-0770.

Sincerely,

ENVIRONMENTAL SCIENCE & ENGINEERING, INC.

*KUNJAR DAVIDAR*

C-JMC\LTR\TRAN.SAE.1

STANDARD FORM SUBCONTRACTOR AGREEMENT  
(Not Valid for Remedial Services  
or Services in Excess of \$10,000)

Environmental Science & Engineering, Inc.  
2 Inverness Drive East, #201  
Englewood, CO 80112  
(303) 790-0770



Subcontractor: (Show Name and Address)  
Envirotech, Inc.  
5796 U.S. Highway 64-3014  
Farmington, New Mexico 87401

Date: 06/25/92

Page: 1 of 1

1. OWNER AND SITE LOCATION:

K mart #7035  
3000 East Main Street  
Farmington, NM 87401

PRICE  
(Check appropriate box)

Fixed Price  
\$ 504.00 + tax

Not-to-Exceed  
\$

2. SCOPE OF SERVICES AND SCHEDULE:

Dispose of 28 cubic yards of oil-stained soil from the above-referenced K mart site, in accordance with all applicable City, County, State of New Mexico and Federal regulations. Provide manifests for disposal of soil.

SUBCONTRACTOR TYPE

Large Business

Small Business

Small, Disadvantaged  
Business

Woman-Owned Small  
Business

Labor Surplus Area  
Business

3. ATTACHMENTS:

4. DOCUMENTS INCORPORATED BY REFERENCE:

Acceptance of this Agreement is limited to and includes acceptance of the terms above, including all attachments, the Terms and Conditions printed on the reverse side and all documents incorporated by reference.

Authorized:

ENVIRONMENTAL SCIENCE & ENGINEERING, INC.

By: \_\_\_\_\_

Name: \_\_\_\_\_

Accepted: (Subcontractor Name)

Envirotech Inc

By: \_\_\_\_\_

Name: \_\_\_\_\_

FEIN: \_\_\_\_\_



7108 S. Alton Way, Bldg. E, Englewood, Colorado 80112

(303) 850-7606

May 28, 1992

Mr. Kumar Dandavati  
Environmental Science & Engineering  
2 Inverness Dr. East, Suite 201  
Englewood, CO 80112

RE: ECS Project #ESE121

Dear Kumar:

Enclosed are the BTEX and TPH results for the Environmental Science & Engineering Project #6921261-7035-6110 soil samples which we received on May 27.

The samples were analyzed for BTEX by purge and trap concentration (EPA Method 5030) combined with gas chromatography (GC) as described in EPA Method 8020. The samples were purged at 40°C. The quality control results can be found in Table 1 with the sample results. The surrogate standard is trifluorotoluene. It is added to all samples to monitor purging efficiency.

The samples were analyzed for total petroleum hydrocarbons (TPH) by EPA Method 418.1. The sample and quality control results can be found in Table 2.

Sample SP-1 was sent to Evergreen Analytical for the TCLP volatiles and metals analyses. Evergreen will report these results directly to you.

Please call if you have any questions.

Sincerely,

A handwritten signature in black ink, appearing to read 'John Graves', is written over a horizontal line.

John Graves  
Technical Director

May 28, 1992

TABLE 1  
SOIL METHOD 8020 RESULTS  
ESE PROJECT #6921261-7035-6110

REPORTED BY  
ENVIRONMENTAL CHEMISTRY SERVICES, INC.  
ECS PROJECT #ESE121

ND = Not Detected  
Units = mg/kg

SAMPLE RESULTS					
Sample #	Surrogate % Recovery	Benzene	Toluene	Ethyl Benzene	Xylene
TP-1	102	ND	ND	ND	ND
TP-2	98	ND	ND	ND	ND
SP-1	106	ND	ND	ND	ND

QUALITY CONTROL RESULTS					
	Surrogate % Recovery	Benzene	Toluene	Ethyl Benzene	Xylene
TP-1 Spike % Recovery	97 -	0.094 94	0.092 92	0.093 93	0.271 90
TP-1 Spike Duplicate % Recovery	101 -	0.096 96	0.094 94	0.096 96	0.283 94
Spike % Difference	-	2	2	3	4
Blank	105	ND	0.0006	ND	0.001
Detection Limit	-	0.001	0.001	0.001	0.002

May 28, 1992

TABLE 2  
SOIL METHOD 418.1 RESULTS  
ESE PROJECT #6921261-7035-6110

REPORTED BY  
ENVIRONMENTAL CHEMISTRY SERVICES, INC.  
ECS PROJECT #ESE121

ND = Not Detected

SAMPLE RESULTS		
Sample #	Total Petroleum Hydrocarbons	Units
TP-1	ND	mg/kg
TP-2	ND	mg/kg
SP-1	8.5	mg/kg

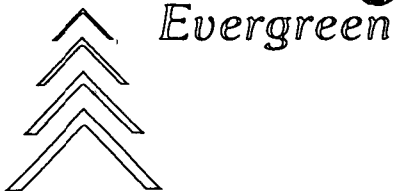
QUALITY CONTROL RESULTS		
	Total Petroleum Hydrocarbons	Units
LCS Spike % Recovery	0.318 94	mg/kg -
LCS Spike Duplicate % Recovery	0.324 95	mg/kg -
Spike % Difference	1	-
Blank	3.5	mg/kg
Detection Limit	5	mg/kg

## CHAIN OF CUSTODY RECORD

**REQUESTED  
TURNAROUND TIME:**

## Standard

[illegible]



June 11, 1992

Mr. Kumar Dandavati  
ESE  
2 Inverness Dr. E #201  
Denver, CO 80112

Data Report : 92-1820  
Client Project : 6921261-7035-6110

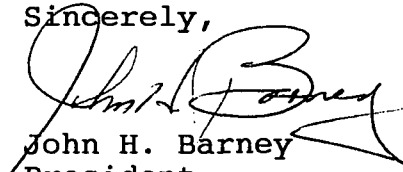
Dear Mr. Dandavati:

Enclosed are the analytical results for the samples shown in the Sample Log Sheet. The invoice for this work will be mailed to your Accounts Payable department shortly. If you have any questions concerning the reported information, please contact Carl Smits or me.

Please Note: Samples marked for return on the Sample Log Sheet are considered either hazardous or unsuitable for municipal disposal or were placed on hold at your request. The former samples will be returned to you immediately for proper storage or disposal. Samples placed on hold will be returned one (1) month from the date of receipt. Samples not considered hazardous will be disposed of at that time.

Thank you for using the services of Evergreen Analytical.

Sincerely,



John H. Barney  
President

et



REQUESTED  
TURNAROUND TIME: Standard

**Environmental Chemistry Services, Inc.**  
7108 S. Alton Way, Bldg. E  
Englewood, CO 80112  
303-850-7606



EVERGREEN ANALYTICAL, INC.  
4036 Youngfield Wheat Ridge CO 80033  
(303) 425-6021

TOXICITY CHARACTERISTIC LEACHING PROCEDURE

SUMMARY REPORT

Client Sample No. : SP-1  
Lab Sample No. : X54251  
Date Sampled : 5/26/92  
Date Received : 5/28/92

Client Project No.: 6921261-7035-6110  
Lab Project No. : 92-1820  
Matrix : Soil

Compound Name	Spike Recovery* %	Corrected Value** mg/L	Regulatory levels *** mg/L
Arsenic	90	< 0.12	5
Barium	87	0.8	100
Cadmium	82	< 0.009	1
Chromium	74	< 0.019	5
Lead	74	< 0.11	5
Mercury	80	< 0.0003	0.2
Selenium	80	< 0.19	1
Silver	44	< 0.032	5
Vinyl Chloride	88	< 0.011	0.2
1,1-Dichloroethylene	86	< 0.012	0.7
Chloroform	79	< 0.013	6.0
1,2-Dichloroethane	82	< 0.012	0.5
Methyl ethyl ketone	67	< 0.15	200.0
Carbon Tetrachloride	77	< 0.026	0.5
Benzene	82	< 0.0061	0.5
Trichloroethylene	83	< 0.012	0.5
Tetrachloroethylene	66	< 0.015	0.7
Chlorobenzene	70	< 0.014	100.0
1,4-Dichlorobenzene	66	< 0.0038	7.5
Hexachloroethane	65	< 0.0038	3.0
Nitrobenzene	52	< 0.0097	2.0
Hexachlorobutadiene	65	< 0.0038	0.5
2,4-Dinitrotoluene	59	< 0.017	0.13
Hexachlorobenzene	79	< 0.0032	0.13
Pyridine	54	< 0.0046	5.0
o-Cresol	21	< 0.023	200.0
m,p-Cresol	18	< 0.027	200.0
2,4,6-Trichlorophenol	22	< 0.046	2.0
2,4,5-Trichlorophenol	32	< 0.031	400.0
Pentachlorophenol	17	< 0.15	100.0
Chlordane (alpha & gamma)		NR	0.03
2,4-D		NR	10.0
Endrin		NR	0.02
Heptachlor (and its Epoxide)		NR	0.008
Lindane		NR	0.4
Methoxychlor		NR	10.0
Toxaphene		NR	0.5
2,4,5-TP (Silvex)		NR	1.0

Qualifiers:

See attached Data Reports for information regarding analytical procedures and data quality control.

NR = Analysis not requested

\* = Spikes are performed once for each similar matrix (water, soil, etc.) and extraction set.

\*\* = Corrected for Spike Recovery. Method Blank values have not been subtracted.

\*\*\* = 40 CFR 261.24 (7-1-90 Edition), Table 1 - Maximum concentration of Contaminants for the Toxicity Characteristics.

X = Value not corrected due to high value of analyte in spiked sample.

*Camhmts*  
Quality Assurance Officer 1820ml.17

EVERGREEN ANALYTICAL, INC.  
4036 Youngfield St. Wheat Ridge, CO 80033  
(303) 425-6021

TCLP, METALS

Date Sampled : 5/26/92      Client Project No.: 6921261-7035-6110  
Date Received : 5/28/92      Lab Project No. : 92-1820  
Date Prepared : 6/2,4,9/92      Method : 40 CFR 261.24  
Date Analyzed : 6/5,9/92      Matrix : Soil

Units: mg/L

Client				
Sample #	<u>SP-1</u>	<u>          </u>	<u>          </u>	<u>          </u>
Evergreen				
Sample #	<u>X54251C</u>	<u>          </u>	<u>          </u>	<u>          </u>
				<u>TCLP</u>
				<u>LIMITS</u>
As	<u>&lt;0.11</u>	<u>          </u>	<u>          </u>	<u>5.0</u>
Ba	<u>0.7</u>	<u>          </u>	<u>          </u>	<u>100.0</u>
Cd	<u>&lt;0.008</u>	<u>          </u>	<u>          </u>	<u>1.0</u>
Cr	<u>&lt;0.014</u>	<u>          </u>	<u>          </u>	<u>5.0</u>
Pb	<u>&lt;0.08</u>	<u>          </u>	<u>          </u>	<u>5.0</u>
Hg	<u>&lt;0.0002</u>	<u>          </u>	<u>          </u>	<u>0.2</u>
Se	<u>&lt;0.15</u>	<u>          </u>	<u>          </u>	<u>1.0</u>
Ag	<u>&lt;0.014</u>	<u>          </u>	<u>          </u>	<u>5.0</u>

NOTE: Results are reported on the leachate from the TCLP extraction.

PM  
Approved

AKA  
Quality Assurance Officer

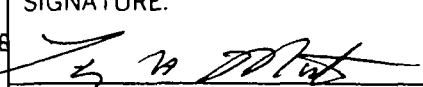
1820et.1

MONTH OF January 92

RECEIVED  
SEP 11 1992  
OIL CON. DIV.  
DIST. 3

U.S. DEPARTMENT OF ENERGY  
WESTERN AREA POWER ADMINISTRATION

RE VED DEC 20

ITEM #		ARTICLES OR SERVICES	QUANTITY	UM	UNIT PRICE	AMOUNT
<p><input checked="" type="checkbox"/> Purchase Order PER: MORRIS YOUNG DATE: 12/17/91 Please furnish the following in accordance with the attached terms and conditions. <input type="checkbox"/> Delivery Order under Contract No. _____ This order is subject to the terms on this side, and the above-numbered contract. <input type="checkbox"/> Contract This order is subject to the terms as specified in the above contract.</p>						
001	DISPOSE OF APPROXIMATELY 15 YARDS OF OILY SOIL FROM SHIPROCK AND WATERFLOW SUBSTATIONS  *** LAST LINE ITEM OF PO ***  <b>PAYMENT INQUIRIES ACCOUNTS PAYABLE (303) 240-6273</b>		15.00	YD	18.00	270.00
SUBMIT INVOICES TO:		ORDER/CONTRACT ISSUED BY:			TOTAL	270.00
U.S. DEPARTMENT OF ENERGY WESTERN AREA POWER ADMINISTRATION MONTROSE DISTRICT OFFICE 1800 South Rio Grande Avenue Montrose, CO 81401		U.S. DEPARTMENT OF ENERGY WESTERN AREA POWER ADMINISTRATION MONTROSE DISTRICT OFFICE ATTN: M1520/MARTIN, LARY / (303) 240-6276 1800 South Rio Grande Avenue Montrose, CO 81401			SIGNATURE:  NAME: <b>LARY A. MARTIN</b> TITLE: Contracting/Ordering Officer	

VENDOR



PHONE: (505) 632-0615

# Bill of Lading

MONTH OF

June JJ 1814 92

RECEIVED  
SEP 1 1932  
OIL CON. DIV.  
DIST. 3

# ENVIROTECH INC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

640 U.S. HIGHWAY 64-3014  
FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615

RECEIVED

SEP 1/1992

CERTIFICATION OF ORIGIN OF  
CONTAMINATED SOILS

OIL CON. DIV.  
DIST. 3

The soil at QUICKLUBE 3536 EAST MAIN, FARMINGTON,  
NEW MEXICO (PROV. 91351) WASTE OIL EXCAVATION

was contaminated by a leaking Underground Storage Tank System.

Len Murray 8-22-91  
EID INSPECTOR DATE

I certify that \_\_\_\_\_ has transported  
\_\_\_\_\_ cubic yards of hydrocarbon  
contaminated soils from \_\_\_\_\_

To Envirotech's Soil Remediation Site at Hilltop, New Mexico.

BY: \_\_\_\_\_ ENVIROTECH INC. DATE

459.DOC

Note: The contents of the tank and the contaminant in the soil  
may be a hazardous waste. Len Murray 8-22-91

OK by  
Roger

# ENVIROTECH INC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

5796 U.S. HIGHWAY 64 • 3014  
FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615

August 6, 1991

Mr. Roger Anderson  
State of New Mexico  
Oil Conservation Division  
PO Box 2088  
Santa Fe, New Mexico 87504

RE: Contaminated Soil From  
Quick Lube  
3536 E. Main  
Farmington, New Mexico  
Project # 91351

Dear Mr. Anderson:

Envirotech Inc. requests authorization to receive soils from the Quick Lube site, 3536 E. Main, Farmington, New Mexico at Envirotech's Soil Remediation Site, Hilltop, New Mexico.

This soil is from a UST site, as per the attached Certification of Origin of Contaminated Soils.

The Laboratory results for TPH by EPA method 418.1 are attached for your file.

We anticipate starting to receive the soils, August 22, 1991. It is estimated that the total volume of soils is approximately 250 cubic yards.

Sincerely,

*Morris D. Young*  
Morris D. Young  
President

685.doc

*Approval Denied Pending  
Full TCLP results  
8/23/91  
RZ*



# ENVIROTECH INC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

5796 U.S. HIGHWAY 64 - 3014  
FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615

September 10, 1991

Mr. Roger Anderson, Environmental Engineer  
State of New Mexico  
Oil Conservation Division  
PO Box 2088  
Santa Fe, New Mexico 87504

RE: Contaminated Soil Analysis &  
Request to Receive From  
Quick Lube  
3536 East Main  
Farmington, New Mexico

Project No: 91351

Dear Mr. Anderson:

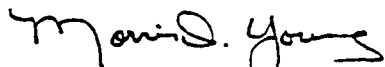
Envirotech Inc., requests authorization to receive soils from the Quick Lube site, 3536 East Main Street, Farmington, New Mexico at Envirotech's Soil Remediation Site, Hilltop, New Mexico.

The soil is from a UST site, as per the attached Certification of Origin of Contaminated Soils.

As Mr. Leonard Murray, of the New Mexico Environmental Department, suspected that the used oil tank might contain hazardous substance, the stockpiled contaminated soils were tested for RCRA Toxic Characteristics. Copies of the faxed laboratory analyses are attached. The soil tested well below all RCRA standards for maximum contaminant concentrations for Toxicity Characteristic Waste.

We will schedule receipt of the soil as soon as possible after, receipt of your approval. It is estimated that the total volume of soil is approximately 300 cubic yards.

Respectfully submitted,



Morris D. Young  
President

Attachments: Certification of Origin of Contaminated Soils  
Laboratory TCLP Parameter Analysis  
Laboratory TPH GPA 418.1 Analysis

SECRET

# Bill of Lading

MONTH OF May 15-92

91351

JJ 1780 ✓

5/16/91

# ENVIROTECH INC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

5796 U.S. HIGHWAY 64 - 3014  
FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615

## CERTIFICATION OF ORIGIN OF CONTAMINATED SOILS

The soil at TROY BIBLE PROPERTY, 1658 U.S. Hwy  
550, AZTEC, NM 87410

was contaminated by a leaking Underground Storage Tank  
System.

Leonard Murray 2-18-92  
EID INSPECTOR DATE

I certify that ENVIROTECH, INC. has transported  
25 cubic yards of hydrocarbon  
contaminated soils from TROY BIBLE PROPERTY, 1658  
U.S. Hwy 550, AZTEC, NM 87410 PROJECT No: 92107

To Envirotech's Soil Remediation Site at Hilltop, New  
Mexico.

BY:

Envirotech Inc.  
ENVIROTECH INC. DATE

459.DOC

RECEIVED  
SEP 1 1992  
OIL CON. DIV  
EST. 9

# ENVIROTECH INC.

92112

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

5796 U.S. HIGHWAY 64 - 3014  
FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615

RECEIVED  
SEP 1 1992  
OIL CON. DIV  
DIST. 2

## Certification of Waste Status

Originating location PITTSBURG & MIDWAY COAL MINING CO.  
MCKINLEY MINE

Disposal Location: Envirotech Soil Remediation Site, Hilltop, NM

"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by EPA's July 1988 Regulatory Determination and that non-exempt waste that is a "hazardous waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the exempt waste in such a manner so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Section 261.3(b)."

Signature

Michael F. Orlin

Name, Date

MICHAEL F. ORLIN 4/2/92

Company

PITTSBURG & MIDWAY COAL CO

Address

PO BOX 338

GALLUP, NM

87305-0338

(505) 371-6225

796 U.S. HIGHWAY 64 - 3014  
FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615

## Certification of Waste Status

Originating location Pittsburg + Midway McKinley Mine

Disposal Location: Envirotech Soil Remediation Site, Hilltop, NM

"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by EPA's July 1988 Regulatory Determination and that non-exempt waste that is a "hazardous waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the exempt waste in such a manner so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Section 261.3(b)."

Signature Norma S. Cady

Name, Date Norma S. Cady, April 2, 1992

Company Navajo EPA

Address P.O. Box 308, Window Rock, Az  
86515

5796 U.S. HIGHWAY 64 - 3014  
FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615

## Certification of Waste Status

Originating location Pittsburg & Midway McKinley Mine

Disposal Location: Envirotech Soil Remediation Site, Hilltop, NM

"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by EPA's July 1988 Regulatory Determination and that non-exempt waste that is a "hazardous waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the exempt waste in such a manner so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Section 261.3(b)."

Signature Norman L. Pricer  
Name, Date Norman L. Pricer 4-2-92  
Company USTB State of N.M.  
Address 1212 E Lobo Canyon Rd. Grants, NM 87020

# ENVIROTECH INC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

5796 U.S. HIGHWAY 64 - 3014  
FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615

8/31/92  
DZ7

August 28, 1992

RECEIVED

AUG 31/1992

OIL CON. DIV.

OIST ?

Mr. Denny Foust  
Environmental Compliance Inspector  
New Mexico Oil Conservation Division  
1000 Rio Brazos Road  
Aztec, New Mexico 87410

Re: Request for Authorization to Receive  
Contaminated Soil.

Project: 92216

Dear Mr. Foust:

UST Consulting Services, Inc. of Dallas, Texas has requested that Envirotech, Inc. receive approximately 30 cubic yards of gasoline contaminated soils for remediation at our Hilltop, New Mexico remediation facility.

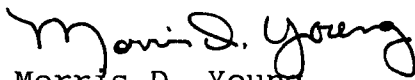
The soil resulted from a UST spill incident at the Federal Aviation Administration Radar facility 17 miles south of Shiprock, New Mexico on Highway 666.

Please find attached copies of the Certificate of Waste Status executed both by the contractor, Mr. Leonard S. Fowler of UST Consulting Services, Inc. and by Ms. Norma Cady of Navajo EPA - UST Program.

Envirotech Inc. requests authorization to receive the soils for remediation.

Your assistance is greatly appreciated, as always.

Sincerely,

  
Morris D. Young  
President

MDY/pb176

CC: Mr. Leonard S. Fowler - UST Consulting Services, Inc.

# ENVIROTECH INC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

U.S. HIGHWAY 64 - 3014  
BIRMINGHAM, NEW MEXICO 87401  
ONE: (505) 632-0615

## Certification of Waste Status

Originating location FAA Facility - 17 miles south of  
Shiprock on Hwy 666

Disposal Location: Envirotech Soil Remediation Site, Hilltop, NM

"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by EPA's July 1988 Regulatory Determination and that non-exempt waste that is a "hazardous waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the exempt waste in such a manner so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Section 261.3(b)."

Signature Norma S. Cadg  
Name, Date Norma S. Cadg, 8-27-92  
Company Navajo EPA - UST Program  
Address P.O. Box 308  
Window Rock, AZ 86515



# ENVIROTECH INC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

5796 U.S. HIGHWAY 64 - 3014  
FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615

RECEIVED  
AUG 31/1992  
OIL CON. DIV.  
DIST. 3

## Certification of Waste Status

Originating location F.A.A. - SHIPROCK, NM SITE

Disposal Location: Envirotech Soil Remediation Site, Hilltop, NM

"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by EPA's July 1988 Regulatory Determination and that non-exempt waste that is a "hazardous waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the exempt waste in such a manner so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Section 261.3(b)."

Signature Leonard S. Fowlee  
Name, Date LEONARD S. FOWLEE  
Company UST CONSULTING SERVICES, INC.  
Address 13612 MIDWAY RD., SUITE 300  
DALLAS, TX 75244

# ENVIROTECH INC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

5796 U.S. HIGHWAY 64 - 3014  
FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615

August 26, 1992

Mr. Denny Foust  
Environmental Compliance Inspector  
New Mexico Oil Conservation Division  
1000 Rio Brazos Road  
Aztec, New Mexico 87410

Re: Request for Authorization to receive  
Contaminated Soil.

Dear Mr. Foust:

ECO-Tank Systems of Farwell, Texas has requested Envirotech receive approximately 18 cubic yards of hydrocarbon contaminated soils for remediation at our Hilltop, New Mexico facility. The soil resulted from a used oil overfill incident at UPS, 2603 West Main Street, Farmington, New Mexico.

ECO-Tank has had the attached TCLP Analysis performed by GTE Environmental Laboratories, Torrance, California. As per the attached analysis the waste is characterized as non hazardous per RCRA 40CFR Part 261.

Envirotech Inc. requests authorization to receive the soils for remediation.

Your assistance is greatly appreciated, as always.

Sincerely,

*Morris D. Young*

Morris D. Young  
President

MDY/cj173

CC: Ms. Lynne Wieber, ECO-Tank

*Approved*  
*8/31/92*  
*D27*  
**RECEIVED**  
AUG 28 1992  
OIL CON. DIV  
DIST. 3

Standard TAT except!  
24-hr for TPH 418.1 on 40-bz  
on 40-bz use also standard TAT

GTEL Client Number: 023352652  
Project I.D.: UPS/2603 W. MAIN  
FARMINGTON  
Work Order Number: T207171

# ANALYTICAL RESULTS

## Semi-volatile Organics in TCLP Leachate<sup>a</sup> EPA Method 8270b

GTEL Sample Number		07171-1			
Client Identification		UO-SP2			
Date Sampled		7-17-92			
Date Leached		7-22-92			
Date Extracted		7-24-92			
Date Analyzed		7-28-92			
Analyte	Reporting Limit, mg/L	Concentration, mg/L			
o-Cresol	0.033	<0.033			
m-Cresol + p-Cresol	0.033	<0.033			
1,4-Dichlorobenzene	0.033	<0.033			
2,4-Dinitrotoluene	0.033	<0.033			
Hexachloro-1,3-Butadiene	0.033	<0.033			
Hexachlorobenzene	0.033	<0.033			
Hexachloroethane	0.033	<0.033			
Nitrobenzene	0.033	<0.033			
Pentachlorophenol	0.17	<0.17			
Pyridine	0.033	<0.033			
2,4,5-Trichlorophenol	0.033	<0.033			
2,4,6-Trichlorophenol	0.033	<0.033			
Dilution Multiplier <sup>c</sup>		1			

- Federal Register, June 29, 1990, 40 CFR, Part 261, Appendix II - Method 1311. These data are corrected for analytical bias as required by Method 1311 by applying a correction determined by matrix spike recovery.
- Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA, November 1986. Aqueous leachates are extracted by Method 3510.
- Indicates the adjustments made for sample dilution.
- Base surrogates expected results = 50 ug/L. Recovery acceptability limits are derived from US EPA Contract Laboratory Program (CLP) requirements.  
Nitrobenzene -d5 = 35.114%, 2-Fluorobiphenyl = 43.116%, p-Terphenyl = 33.141%. Source = Supelco Lot #LA30262.

GTEL Client Number: 023352652  
 Project I.D.: UPS/8603 W. MAIN  
 FARMINGTON  
 Work Order Number: T207171

ANALYTICAL RESULTS  
 Metals in TCLP Leachate<sup>a</sup>

GTEL Sample Number		07171-01			
Client Identification		UO-SP2			
Date Sampled		7-17-92			
Date Leached		7-22-92			
Date Analyzed (Method 6010)		7-28-92			
Date Analyzed (Method 7470)		7-30-92			
Analyte	Method <sup>b</sup>	Reporting Limit, mg/L	Concentration, mg/L		
Arsenic	6010	0.50	<0.50		
Barium	6010	1.0	<1.0		
Cadmium	6010	0.050	<0.050		
Chromium	6010	0.050	<0.050		
Lead	6010	0.50	<0.50		
Mercury	7470	0.001	<0.001		
Selenium	6010	0.20	<0.20		
Silver	6010	0.050	<0.050		
EPA 6010: Dilution Multiplier <sup>c</sup>			1		
EPA 7470: Dilution Multiplier <sup>c</sup>			1		

- a. Federal Register, June 29, 1990, 40 CFR, Part 261, Appendix II - Method 1311. These data are corrected for analytical bias as required by Method 1311 by applying a correction determined by matrix spike recovery.
- b. Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA, November 1986; Digestion by Method 3010 (except for mercury).
- c. Indicates the adjustments made for sample dilution.

GTEL Client Number: 023352852  
Project I.D.: UPS/2603 W. MAIN  
FARMINGTON  
Work Order Number: T207171

# ANALYTICAL RESULTS

## Volatile Organics In TCLP Leachate<sup>a</sup> EPA Method 8240<sup>b</sup>

GTEL Sample Number		07171-1			
Client Identification		UO-SP2			
Date Sampled		7-17-92			
Date Leached		7-22-92			
Date Analyzed		7-24-92			
Analyte	Reporting Limit, mg/L	Concentration, mg/L			
Benzene	0.050	<0.05			
Carbon Tetrachloride	0.050	<0.05			
Chlorobenzene	0.050	<0.05			
Chloroform	0.050	<0.05			
1,2-Dichloroethane	0.050	<0.05			
1,1-Dichloroethylene	0.050	<0.05			
Methyl ethyl ketone	1.0	<1.0			
Tetrachloroethylene	0.050	<0.05			
Trichloroethylene	0.050	<0.05			
Vinyl Chloride	0.10	<0.1			
Dilution Multiplier <sup>c</sup>		1			

- <sup>a</sup> Federal Register, June 28, 1990, 40 CFR, Part 261 Appendix II - Method 1311. These data are corrected for analytical bias as required by Method 1311 by applying a correction determined by matrix spike recovery.
- <sup>b</sup> Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA, November 1986. All samples analyzed by purge and trap.
- <sup>c</sup> Indicates the adjustments made for sample dilution.
- <sup>d</sup> Surrogate expected results = 57 ug/L. Recovery Accountability limits are derived from US EPA Contract Laboratory Program (CLP) requirements.  
1,2-Dichloroethane-d4 = 70-121%, Toluene-d8 = 81-117%, Bromofluorobenzene = 74-121%. Source = Ultra Scientific Lot #C0466.

PROPOSED REMEDIAL ACTION PLAN  
UNOCAL  
PRODUCTION PIT AT WELL LOCATION JICARILLA 1 - N31  
577' FSL & 2301' FWL, SEC. 31, T30N, R1W  
RIO ARriba COUNTY, NEW MEXICO

PREPARED FOR:  
DENNY FOUST  
NEW MEXICO OIL CONSERVATION DIVISION

PROJECT No: 92199

JULY 1992

RECEIVED  
JUL 31 1992  
OIL CON. DIV.  
DIST. 3

ENVIROTECH, Inc.  
Environmental Scientist & Engineers  
5796 U.S. Highway 64-3014  
Farmington, New Mexico

(505) 632-0615

July 1992

Project No: 92199

**PROPOSED REMEDIAL ACTION PLAN**

**UNOCAL**

**PRODUCTION PIT AT WELL LOCATION JICARILLA 1 - N31  
577' FSL & 2301' FWL, SEC. 31, T30N, R1W  
RIO ARriba COUNTY, NEW MEXICO**

INTRODUCTION

Unocal proposes to abate soil contamination associated with a production pit located in the Jicarilla Apache Reservation, 577' FSL & 2303' FWL, Sec 31, T30N, R1W, Rio Arriba County, New Mexico. This remedial action plan was developed by Envirotech, Inc. based on a brief site reconnaissance by Mr. Rex Farnsworth of Envirotech, discussions with Robert L. Caine of Unocal, and the draft "Guidelines to Surface Impoundment Closure" (October 29, 1991), State of New Mexico, Oil Conservation Division (NMOCD).

Implementation of this Remedial Action Plan will be contingent on the approval of NMOCD and Bureau of Indian Affairs (BIA).

PURPOSE & SCOPE OF SERVICES

This purpose of the proposed remediation is to abate soil contamination caused by routine disposal of production and exploration liquids to an unlined production pit, located on the subject well location. The New Mexico Oil Conservation Division's guidelines and protocol will be followed.

The proposed scope of work for this remediation and abatement will consist of:

- A. Notification of the NMOCD and any other appropriate authorities of the intent to remediate the referenced site.
- B. Abatement of the contaminated area by excavation, removal and treatment of the highly contaminated soils in the production pit.
- C. Field assessment during the abatement for closure of the production pit.
- D. Documentation of the abatement and closure.



### SITE DESCRIPTION

The well site, Jicarilla 1 - N31, is located on the Jicarilla Apache Reservation, approximately 1/2 mile south of La Jara Lake in Section 31, T30N, R1W, Rio Arriba County, New Mexico.

The site is an abandoned gas well location with a plugged and abandoned and a production pit. The pit is about 15 by 15 feet and is inclosed by a fence with overhead netting.

Access to the site is available by a dirt road off State Highway 537.

The site is generally level, sloping to the south. The surface consists of a light red silty clay. The site is covered with native grasses, there are large pine trees within 200 feet of the site. La Jara Lake is about 1/2 mile to the south of the site. There is a dirt access road between the subject site and the lake.

Groundwater is estimated to be greater than 50' below the existing well site grade, and in lithified bedrock.

### ABATEMENT & FIELD ASSESSMENT

Based on the previously mentioned information in the site description, we propose to abate the soil contamination at the subject site by excavation of the highly contaminated soils, removal and transportation of the contaminated soils for treatment at a NMOC permitted Soil Remediation Facility, detailed site assessment, and backfilling the site to original grade.

It is anticipated that excavation will be advanced until the soils are visually "clean" and verification test results concur, or to excavation refusal at bedrock. Soil samples will be field screened for volatile hydrocarbons following the Headspace Field Method (Guidelines For Pit Closure, NMOC) using an Organic Vapor Meter (OVM) Model 580B.

Conformation soil samples will be taken from the excavation sides and bottom for Total Petroleum Hydrocarbons (TPH) following US EPA Method 418.1. Soil samples will be collected from the excavation following US EPA SW-846 protocol.

Highly contaminated soils to be defined per the NMOCD guidelines as:

- TPH greater than or equal to 100 ppm.
- OVM reading greater than or equal to 100 ppm

Contaminated soils will be disposed for treatment at Envirotech's Soil Remediation Facility, Hilltop New Mexico. This Facility is a NMOCD approved, permitted, and regulated facility. Attached is a copy of the Certification of Waste Status signed by Mr. Robert Caine of Unocal stating the waste is exempt E & P waste per USEPA 40 CFR Part 261.

generally  
not  
needed

Detailed site assessment will be concurrent with the excavation and removal process. Verification soil samples will be taken in all areas for field screening and/or laboratory analysis. The findings of the field assessment will be documented in a closure report for NMOCD approval.

Once the production pit has been abated by excavation and verification testing indicates removal of all highly contaminated soil, the area will be backfilled with clean fill soil, from the subject site. Finished grade will be slightly above the adjacent well site to prevent ponding and possible recharge in the immediate area of the excavated pit.

#### CLOSURE & LIMITATIONS

This remedial action plan is based on a preliminary site reconnaissance and information provided by Mr. Robert L. Caine of Unocal.

All soil contamination is believed to be caused by petroleum discharges associated with hydrocarbon products at a typical oil well location. No hazardous wastes are believed to be present as defined per RCRA (40 CFR 261).

All work will be performed in accordance with generally accepted professional practices in construction/excavation and geotechnical/environmental/petroleum engineering.

This remedial action plan has been prepared for the use of NMOCD as it pertains to the Unocal facility located near La Jara Lake, on Section 31, T30W, R1W, NMPM, Rio Arriba County, New Mexico.

Respectfully Submitted,  
**ENVIROTECH, INC.**



Michael T. Eason  
Hydrogeologist

Reviewed by:



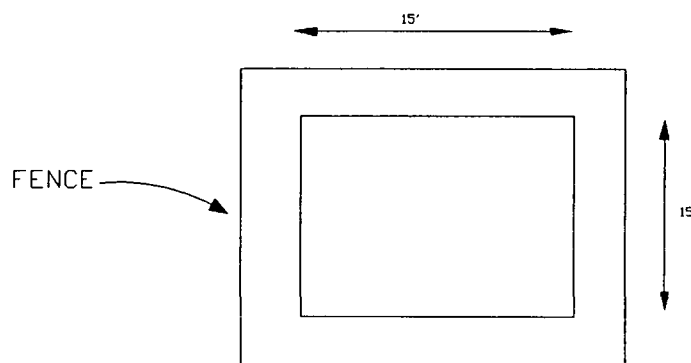
Michael K. Lane P.E.  
Geological Engineer

Attachments:    Site Schematic  
                    Certification of Waste Status  
                    Unocal Letter of Authorization

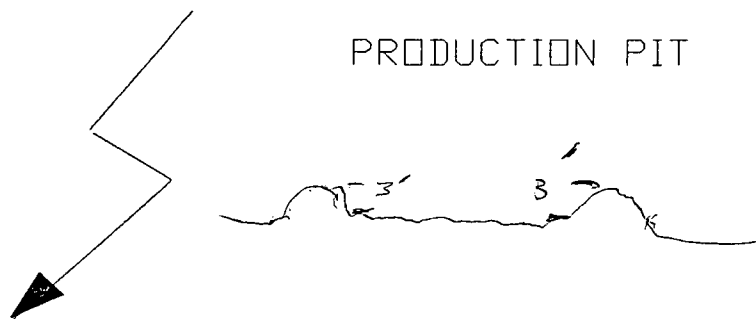
2199REM.PRO



ABONDANED WELL



WELL ROAD



LA JARA LAKE ABOUT  
1/2 MILE SOUTH

NOT TO SCALE: SITE SCHEMATIC BASED ON BRIEF SITE INSPCTION BY Mr. REX FARNWORTH OF ENVIROTECH, INC.

UNOCAL WELL SITE  
JICARILLA 1 - N31  
RIO ARriba COUNTY

PROJECT NO: 92199

JULY 1992

**ENVIROTECH INC.**

ENVIRONMENTAL SCIENTISTS & ENGINEERS  
5796 U.S. HIGHWAY 64-3014  
FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615

SITE SCHEMATIC

DRWN: 7-31-92

DRWN BY: MTE

# ENVIROTECH INC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

5796 U.S. HIGHWAY 64 - 3014  
FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615

## Certification of Waste Status

Originating location Jicarilla 1- N31

Disposal Location: Envirotech Soil Remediation Site, Hilltop, NM

"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by EPA's July 1988 Regulatory Determination and that non-exempt waste that is a "hazardous waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the exempt waste in such a manner so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Section 261.3(b)."

Signature Robert L. Caine  
Name, Date Robert L. Caine - 7/30/92  
Company UNOCAL Oil & Gas  
Address P.O. Box 850 - Bloomfield, NM  
87413

731.doc


Unocal Oil & Gas Division  
Unocal Corporation  
913 West Broadway, P.O. Box 850  
Bloomfield, New Mexico 87413  
Telephone (505) 632-1811

**UNOCAL** 

7/30/92

New Mexico Oil and Gas Division  
Aztec, New Mexico

I hereby authorize Envirotech, Inc. to submit a Pit Closure Notice on Unocal's well Jicarilla 1~ N31, located 577' FSL & 2303' FWL, Sec. 31, T30N, R1W. If you have any questions, please contact me at the above tel. number.

  
Robert L. Caine  
Production Foreman



BRUCE KING  
GOVERNOR

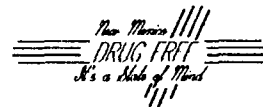
STATE OF NEW MEXICO

ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION  
AZTEC DISTRICT OFFICE

ANITA LOCKWOOD  
CABINET SECRETARY

1000 RIO BRAZOS ROAD  
AZTEC, NEW MEXICO 87410  
(505) 334-6178



FAX TRANSMITTAL SHEET

DATE: 6/17/92

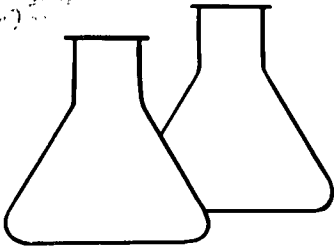
TO: Roger Anderson  
OCD

FROM: Denny Foust

FAX: 505-334-6170

COMMENTS: This is unleaded gas tanker spill  
in Cuba Area, do you need anything additional  
before Envirotech processes material at the  
landfarm

NUMBER OF PAGES INCLUDING COVER: 2



# ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615 • FAX: (505) 632-1865

## EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Monument Oil	Project #:	
Sample ID:	Truck Spill	Date Reported:	06-16-92
Laboratory Number:	1271	Date Sampled:	06-10-92
Sample Matrix:	Soil	Date Received:	06-10-92
Preservative:	Cool	Date Analyzed:	06-11-92
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	500
Toluene	4,380	500
Ethylbenzene	2,300	500
p,m-Xylene	22,700	500
o-Xylene	5,000	500

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	97 %
	Bromfluorobenzene	109 %

Method: Method 5030, Purge-and-Trap, Test Methods for  
Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

Method 8020, Aromatic Volatile Organics, Test Methods  
for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

ND - Parameter not detected at the stated detection limit.

Comments: *Monument Oil, Hwy 96*

Tony Tristano  
Analyst

Val Lawrence  
Review



JJ

1887

# Bill of Lading

PHONE: (505) 632-0615

MONTH OF June 22 '92

MANIFEST		COMPLETE DESCRIPTION OF SHIPMENT					TRANSPORTING COMPANY		
DATE	No.	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	COMPANY	TRK #	DRIVER SIGNATURE
6-23	1	Land Farm	Hwy 96	Fill dirt		20	Envirotech	E50	Daniel Grover
6-23	2	Land Farm	Hwy 96	Fill dirt		20	Envirotech	E50	Daniel Grover
						40 @	2.89		
6-23	1	Hwy 96 MP 13 manment oil	Land Farm	Cont. dirt		20	Envirotech	E50	Daniel Grover
6-23	2	Hwy 96 MP 13 manment oil	Land Farm	Cont. dirt		20	Envirotech	E50	Daniel Grover
						40 @	18.00		
		<del>Gasoline</del> Gasoline Tanker							
		Mike Space	- NM Environmental Department						

# ENVIROTECH INC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

5796 U.S. HIGHWAY 64 - 3014  
FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615

92169

## Certification of Waste Status

Originating location Cuba, New Mexico

Disposal Location: Envirotech Soil Remediation Site, Hilltop, NM

"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by EPA's July 1988 Regulatory Determination and that non-exempt waste that is a "hazardous waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the exempt waste in such a manner so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Section 261.3(b)."

Date of haul  
6-17-92

Signature C. Paul Brown  
Name, Date C. Paul Brown 1-18-93  
Company Monument Oil Co  
Address GRAND Junction, CO

Please complete, sign and return a copy to Envirotech Inc.  
Fax # 505-632-1863

731.doc

# ENVIROTECH INC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

5796 U.S. HIGHWAY 64 - 3014  
FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615

92179

## Certification of Waste Status

originating location FARMINGTON B COM 1

Disposal Location: Envirotech Soil Remediation Site, Hilltop, NM

"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by EPA's July 1988 Regulatory Determination and that non-exempt waste that is a "hazardous waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the exempt waste in such a manner so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Section 261.3(b)."

Date of Haul  
6-10-92

Signature Lynn Gordon  
Name, Date LYNN GORDON  
Company CONOCO INC  
Address 7415 E. MAIN  
FARMINGTON, NM 87402

Please complete, sign and return a copy to Envirotech Inc.  
Fax # 505-632-1865

731.doc

# NVIROTECH INC.

92167

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

796 U.S. HIGHWAY 64 • 3014  
ARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615

Williams or Northwest ??

## Certification of Waste Status

Originating location MANZANARES CDP / DILY GRAVEL

Disposal Location: Envirotech Soil Remediation Site, Hilltop, NM

"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by EPA's July 1988 Regulatory Determination and that non-exempt waste that is a "hazardous waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the exempt waste in such a manner so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Section 261.3(b)."

Date of Haul  
6-2-92

Signature

Name, Date

Company PRODUCTION OPERATORS INC.

Address 1312 AZTEC BLVD. AZTEC N.M.

87410

Please complete, sign and return a copy to Envirotech Inc.  
Fax # 505-632-1365

731.doc

c/o Vell

# ENVIROTECH NC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

5796 U.S. HIGHWAY 64 - 3014  
FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615

May 19, 1992

Mr. Denny G. Foust  
Environmental Geologist  
State of New Mexico Oil Conservation Division  
Aztec District Office  
1000 Rio Brazos Road  
Aztec, New Mexico 87410

RECEIVED  
MAY 21 1992  
OIL CON. DIV.  
DIST. 3

Re: Contaminated Soil Remediation

Dear Mr. Foust:

Farmington Fire Equipment Company and the Farmington City Fire Department have requested Envirotech receive and remediate a drum of diesel fuel contaminated soil that resulted from a fire department demonstration.

The parties will certify that the spill material contains only fuel used for the fire fighting demonstration and, to the best of their knowledge, no hazardous materials have been mixed with this soil.

Your help on this matter is greatly appreciated.

Sincerely,



Morris D. Young  
President

MDY/jmj  
312J.DOC

c: William Smith-Farmington Fire Equipment Company

PHONE: (505) 632-0615

92181

MONTH OF

JJ 92

1848

5/16/91

RE  
**FARMINGTON FIRE EQUIPMENT AND SAFETY**

*"Fire Prevention Specialists"*

92181

P.O. Box 887  
Farmington, NM 87499-0887

505-327-1933  
Fax: 505-326-1233

May 27, 1992

Envirotech Inc.  
5796 U.S. Highway 64-3014  
Farmington, New Mexico 87401

2


Attn: Morris Young  
re: Certification of Waste Status

Dear Mr. Young,

Please find enclosed the Certification of Waste Status that you requested Mr. Smith sign.

If I may be of any further assistance please feel free to contact me at 505-327-1933.

Sincerely,

  
Fred A. Stoyden III,  
Secretary

# ENVIROTECH INC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

5796 U.S. HIGHWAY 64 - 3014  
FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615

## Certification of Waste Status

Originating location 6105 E. MAIN FARMINGTON

Disposal Location: Envirotech Soil Remediation Site, Hilltop, NM

"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by EPA's July 1988 Regulatory Determination and that non-exempt waste that is a "hazardous waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the exempt waste in such a manner so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Section 261.3(b)."

Signature W.E. Smith  
Name, Date W.E. Smith 5-27-92  
Company FARMINGTON FIRE EQUIP.  
Address P.O. Box 887 Farmington



# ENVIROTECH INC.

92181  
UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

5796 U.S. HIGHWAY 64 - 3014  
FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615

May 19, 1992

Verbal  
Authorization  
5/22, 1992

Mr. Denny G. Foust  
Environmental Geologist  
State of New Mexico Oil Conservation Division  
Aztec District Office  
1000 Rio Brazos Road  
Aztec, New Mexico 87410

Re: Contaminated Soil Remediation

Dear Mr. Foust:

Farmington Fire Equipment Company and the Farmington City Fire Department have requested Envirotech receive and remediate a drum of diesel fuel contaminated soil that resulted from a fire department demonstration.

The parties will certify that the spill material contains only fuel used for the fire fighting demonstration and, to the best of their knowledge, no hazardous materials have been mixed with this soil.

Your help on this matter is greatly appreciated.

Sincerely,



Morris D. Young  
President

MDY/jmj  
312J.DOC

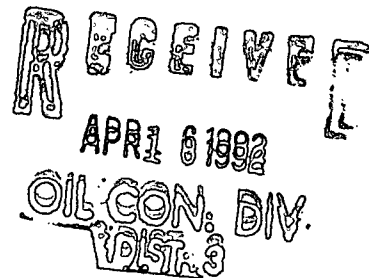
c: William Smith-Farmington Fire Equipment Company

# ENVIROTECH<sup>®</sup> NC.

OK DJ  
UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

5796 U.S. HIGHWAY 64 - 3014  
FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615

April 15, 1992



Mr. Roger Covell  
Homco International  
P. O. Box 2344  
Farmington, NM 87499

Re: Disposal of Homco Wash Bay Solids

Dear Mr. Covell:

As per our recent telephone conversation, Homco International requests definition as to the procedure of acceptance of wash bay solids.

The New Mexico Oil Conservation Division (NMOCD) requires a Toxicity Characteristic Leaching Procedure (TCLP) analysis be performed annually on waste streams of all NMOCD regulated facilities. If the analysis characterizes the waste as non-hazardous, Envirotech can dispose of and treat the waste at our Hilltop, New Mexico, Soil Remediation Facility.

Analysis of your waste stream was performed November 1, 1991, by Byes & Associates, and subsequently approved for acceptance at the remediation facility by Mr. Roger Anderson of NMOCD. This analysis and approval for acceptance is conditional on Homco continuing their operation substantially as in the past. Any major change in operating conditions that substantially alter the waste stream composition, will require a new TCLP analysis for characterization of the waste.

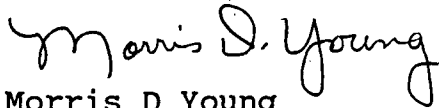
Envirotech is authorized to take only solids for disposal remediation. Any entrained free liquid has to be "stabilized" prior to acceptance. Stabilization is usually accomplished by blending dry granular soils with the waste stream to solidify any free liquids.

Stabilization can be performed either at the generators yard or at a holding area outside Envirotech's facility. Care needs to be taken by the waste transporter so that no materials are spilled or leaked on the roadways during transportation.

Page 2

We appreciate working with you on this matter. Please call if we can be of more help.

Sincerely,



Morris D Young  
President

MDY/vlo  
102V.DOC

cc; Mr. Denny Foust - Environmental Coordinator, NMOCD  
Mr. John Kaszuba - Buyes & Associates  
Mr. Verl Farnsworth - Envirotech Inc.

# ENVIROTECH INC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

5796 U.S. HIGHWAY 64 - 3014  
FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615

April 14, 1992

OK  
7  
RECEIVED  
APR 15 1992  
OIL CON. DIV.  
DIST. 2

Mr. Denny G. Foust  
Environmental Coordinator  
State of New Mexico Oil Conservation Division  
1000 Rio Brazos Road  
Aztec, New Mexico 87410

RE: Request to Receive Soil  
Claudio Chevez UST Site  
303 East Aztec Blvd.  
Aztec, New Mexico

Project No. 92119

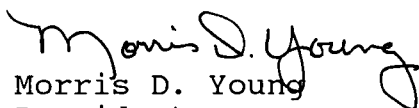
Dear Mr. Foust:

Envirotech Inc. requests authorization to receive soils from the Claudio Chavez UST site, 303 East Aztec Blvd., Aztec, New Mexico at Envirotech's Soil Remediation Site, Hilltop, New Mexico.

Attached please find a copy of the CERTIFICATION OF ORIGIN OF CONTAMINATED SOILS, executed by Mr. Len Murray of the NMED. These soils were contaminated with gasoline fuels from the UST system.

Please contact us if you have any further questions.

Respectfully submitted,  
ENVIROTECH, INC.

  
Morris D. Young  
President

MDY/sr  
166S.DOC

Attachment: CERTIFICATION OF ORIGIN OF CONTAMINATED SOILS

# ENVIROTECH INC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

5796 U.S. HIGHWAY 64 - 3014  
FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615

RECEIVED  
APR 5 1992  
OIL CON. DIV.  
DIST. 3

## Certification of Waste Status

Originating location 303 E. Aztec Blvd., Aztec

Disposal Location: Envirotech Soil Remediation Site, Hilltop, NM

"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by EPA's July 1988 Regulatory Determination and that non-exempt waste that is a "hazardous waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the exempt waste in such a manner so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Section 261.3(b)."

Signature Len Murray  
Name, Date Len Murray 4-14-92  
Company NMED  
Address 724 W. Animas, Farmington

# ENVIROTECH INC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

5796 U.S. HIGHWAY 64 - 3014  
FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615

RECEIVED  
APR 15 1992  
OIL CON. DIV.  
DIST. 3

## Certification of Waste Status

Originating location 303 E Ztec Bldg.

Disposal Location: Envirotech Soil Remediation Site, Hilltop, NM

"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by EPA's July 1988 Regulatory Determination and that non-exempt waste that is a "hazardous waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the exempt waste in such a manner so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Section 261.3(b)."

Signature

Name, Date

Company

Address

Claudio Chavez  
CLAUDIO CHAVEZ 4-14-92  
299 E Ztec Bldg.  
303 E. Ztec Bldg.

5796 U.S. HIGHWAY 64 - 3014  
FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615

Certification of Waste Status

Originating location 303 E. Aztec Blvd., Aztec

Disposal Location: Envirotech Soil Remediation Site, Hilltop, NM

"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by EPA's July 1988 Regulatory Determination and that non-exempt waste that is a "hazardous waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the exempt waste in such a manner so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Section 261.3(b)."

Signature Len Murray  
Name, Date Len Murray 4-14-92  
Company NMED  
Address 724 W. Avenue, Farmington

MONTH OF 4-23-92

[illegible]

		2267	
10	2267	16.00	
6	2267		



# ENVIROTECH INC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

5796 U.S. HIGHWAY 64 - 3014  
FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615

*material  
Never  
Received*

March 23, 1992

Mr. Denny G. Foust  
Environmental Coordinator  
State of New Mexico Oil Conservation Division  
1000 rio Brazos Road  
Aztec, New Mexico 87410

**RECEIVED**  
MAR 26 1992  
OIL CON. DIV.  
DIST. 3

Re: Request for Authorization to  
Receive Contaminated Soil.

Dear Mr. Foust:

As per the attached correspondence, Mr. Don Owens of Navajo Tribal Utility Authority requests authorization for Envirotech to receive and treat contaminated soils that resulted from accidental spills on the Navajo Reservation.

As attached, the soil has been tested for Toxicity Characteristics (TCLP). Analysis results show each parameter concentration below RCRA levels.

We appreciate working with you on this request.

Sincerely,

*Morris D. Young*

Morris D. Young  
President

MDY/sr  
152S.DOC

cc Mr. Don Owens, Navajo Tribal Utility Authority

*see PCB*

RECEIVED MA. 9 1992



## NAVAJO TRIBAL UTILITY AUTHORITY

AN ENTERPRISE OF THE NAVAJO TRIBE

March 16, 1992

Mr. Morris D. Young  
ENVIROTEC INC.  
5796 U.S. Highway 65-3014  
Farmington, New Mexico 87401

Dear Mr. Young,

Navajo Tribal Utility Authority has seven (7) barrels of oil and soil mixed. These are listed below. If you are able to take these, please call me at (602) 729-5721, extension 259, so that I can start a purchase requisition in motion.

- A. Three (3) each barrels labeled #5, #7, and #8. These are the result of a hydraulic hose splitting. The following are enclosed:
  - 1. Material Standard Data Sheet
  - 2. Test Results #349
- B. Four (4) each barrels, labeled #1, #2, #3, and #4. These are the result of a truck hitting a power pole that had a transformer on it.
  - 1. P.C.B. Test Results
  - 2. Test Results #351 and #352 Composite.

Sincerely yours,

NAVAJO TRIBAL UTILITY AUTHORITY

Don A. Owen, Technical Assistant  
Headquarters Operations Division

DAO/cjn  
Enclosures

xc: Harry Begaye, Technical Assistant, Operations Division, NTUA  
Dennis Lee, Materials Supervisor, Purchasing, NTUA  
Patsy Platero, Procurement Clerk, Purchasing, NTUA  
Robert Dennison, Foreman, Vehicle Shop, NTUA



8.17.91  
DATE RECEIVED

67.91  
LAB NUMBER

NAVAJO TRIBAL UTILITY AUTHORITY

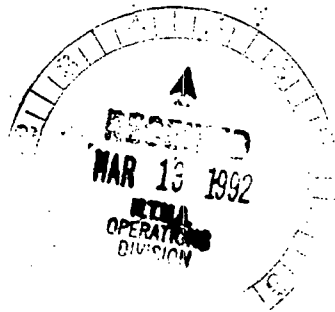
PCB ANALYSIS

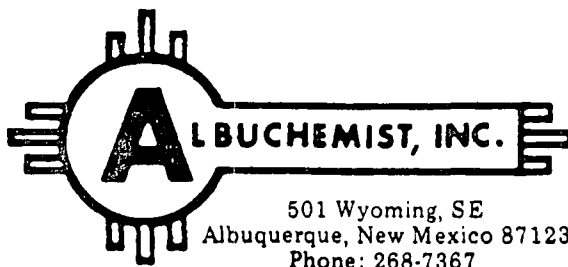
TRANSFORMER  
SERIAL NUMBER 752009436 LOCATION Kayenta Gzle K  
NTUA NUMBER 8883 COLLECTED BY F. Collins  
DATE COLLECTED 8.17.91 DATE COMPLETED 8.17.91  
RESULTS <1 ppm Unidentifiable Peaks TECHNICIAN Craig

REMARKS

PCB in Soil will  
not be ran since  
the oil source  
is <1 ppm.

SAMPLING SITE KAYENTA, AZ NTUA # 8883  
WELL NO. 752009436  
LAB ID NO. F. COLLINS  
DATE 08.17.91 TIME 11:15 AM  
ANALYSIS PCB in Soil  
PRESERVED 9 28 SURFACE TO 1'  
HI 11 AUG 17 PM  
PLAIN OIL OTHER





DATE: October 15, 1991

LAB. NO. 091291-3

FOR: Navajo Tribal Utility Authority  
ATTN: Freida White  
P. O. Box 170

Ft Defiance, New Mexico 86504

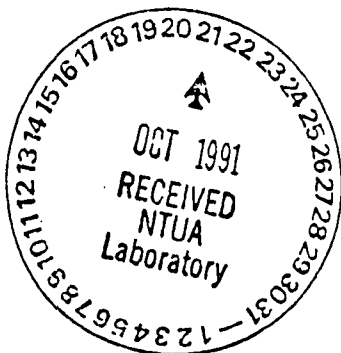
SAMPLE: #349 - Tsaile, 1/4 mile SE

DATE DELIVERED: September 12, 1991

RESULTS:

(see attached sheet)\*

\* - includes data previously sent September 27, 1991

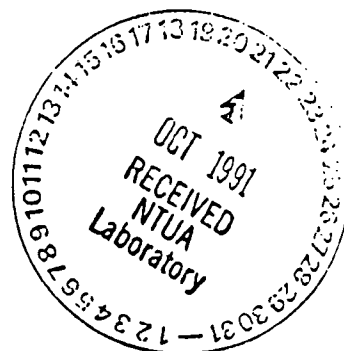


BY:

Chemist

Samples were extracted in accordance with the toxicity characteristic leaching procedure (40 CFR Pt. 268, 7-1-89 & App IX). All results are reported in mg/liter of the extract.

Analyte	Method	349 (Tsaile, 1/4 mile SE)
Arsenic	7061	0.015
Barium	7080	<0.25
Benzene	8240	<0.05
Cadmium	7131	0.013
Carbon tetrachloride	8240	<0.05
Chlordane	8250	
Chlorobenzene	8240	<0.05
Chloroform	8240	<0.05
Chromium	7190	<0.02
o-Cresol	8040	<0.20
m-Cresol	8040	<0.20
p-Cresol	8040	<0.20
2,4-D	8150	
1,4-Dichlorobenzene	8250	<0.20
1,2-Dichloroethane	8240	<0.05
1,1-Dichloroethylene	8240	<0.05
2,4-Dinitrotoluene	8250	<0.10
Endrin	8250	
Heptachlor (& hydroxide)	8250	
Hexachlorobenzene	8250	<0.08
Hexachlorobutadiene	8250	<0.04
Hexachloroethane	8250	<0.08
Lead	7420	<0.05
Lindane	8250	
Mercury	7471	0.0006
Methoxychlor	8250	
Methyl ethyl ketone	8240	<1.0
Nitrobenzene	8250	<0.08
Pentachlorophenol	8250	<0.20
Pyridine	8250	<0.20
Selenium	7741	0.087
Silver	7760	<0.01
Tetrachloroethylene	8240	<0.05
Toxaphene	8250	
Trichloroethylene	8240	<0.05
2,4,5-Trichlorophenol	8250	<0.05
2,4,6-Trichlorophenol	8250	<0.05
2,4,5-TP (Silvex)	8150	
Vinyl chloride	8240	<0.10



ALBUCHEMIST, INC.

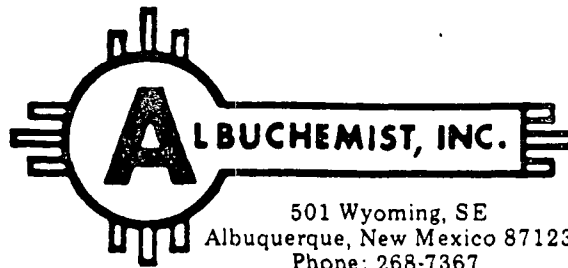
Quality Assurance Requirements:

- A. All data is maintained and available for reference.
- B. One blank for every ten extractions in a particular extraction vessel is run to detect "memory" effects.
- C. Matrix spike data (September 26, 1991):

Regulatory Analyte level (mg/l)	Recovery (%)	Method of standard additions
5.0 Arsenic	92.	n/r
100. Barium	86.	n/r
0.5 Benzene	102.	n/r
1.0 Cadmium	99.	n/r
0.5 Carbon tetrachloride	78.	n/r
0.03 Chlordane	79.	n/r
100. Chlorobenzene	110.	n/r
6.0 Chloroform	110.	n/r
5.0 Chromium	89.	n/r
200. o-Cresol	76.	n/r
200. m-cresol	91.	n/r
200. p-cresol	87.	n/r
10. 2,4-D	110.	n/r
7.5 1,4-Dichlorobenzene	122.	n/r
0.5 1,2-Dichloroethane	102.	n/r
0.7 1,1-Dichloroethylene	115.	n/r
0.13 2,4-Dinitrotoluene	81.	n/r
0.02 Endrin	91.	n/r
0.008 Heptachlor	93.	n/r
3.0 Hexachlorobenzene	108.	n/r
0.5 Hexachlorobutadiene	112.	n/r
3.0 Hexachloroethane	117.	n/r
5.0 Lead	92.	n/r
0.4 Lindane	84.	n/r
0.2 Mercury	89.	n/r
10. Methoxychlor	90.	n/r
200. Methyl ethyl ketone	116.	n/r
2.0 Nitrobenzene	122.	n/r
100. Pentachlorophenol	89.	n/r
5.0 Pyridine	110.	n/r
1.0 Selenium	76.	n/r
5.0 Silver	93.	n/r
0.7 Tetrachloroethylene	116.	n/r
0.5 Toxaphene	91.	n/r
0.5 Trichloroethylene	108.	n/r
400. 2,4,5-Trichlorophenol	82.	n/r
2.0 2,4,6-Trichlorophenol	83.	n/r
1.0 2,4,5-TP (Silvex)	93.	n/r
0.2 Vinyl chloride	106.	n/r

D. TCLP extraction and extract analysis is performed in accordance with the following schedule:

Parameters	TCLP extraction	Extract analysis
volatiles	14 days	14 days
semi-volatiles	40 days	40 days
mercury	28 days	28 days
other metals	180 days	180 days



DATE: October 15, 1991

LAB. NO. 091691-3

FOR: Navajo Tribal Utility Authority  
ATTN: Freida White  
P. O. Box 170

Ft Defiance, New Mexico 86504

SAMPLE: #351 & #352 samples composited

DATE DELIVERED: September 16, 1991

RESULTS:

(see attached sheet) \*

\* - includes data previously sent September 27, 1991



BY:

*Paul Arizon*

Chemist



001380

NAPA TRA HYD FL

Page: 1

THIS MSDS COMPLIES WITH 29 CFR 1910.1200 (THE HAZARD COMMUNICATION STANDARD)

Product Name: NAPA TRA HYD FL

NAPA-ALBUQUERQUE  
PO BOX 25766

08 70 000 0870001-000

Data Sheet No: 0257860-001  
Prepared: 07/11/91  
Supersedes: ( N/A )

ALBUQUERQUE NM 87125

PRODUCT: 00075441  
INVOICE: 074534  
INVOICE DATE: 08/28/91  
TO: NAPA-ALBUQUERQUE  
1510 2ND

ATTN: PLANT MGR / SAFETY DIR.

## SECTION II - PRODUCT IDENTIFICATION

General or Generic ID: PETROLEUM BASED-LUBRICATING OIL

DOT Hazard Classification: NOT APPLICABLE

## SECTION III - COMPONENTS

THE COMPOSITION OF THIS PRODUCT IS BEING WITHHELD AS A TRADE SECRET.

IF PRESENT, IARC, NTP AND OSHA CARCINOGENS AND CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SARA TITLE III SECTION 313 ARE IDENTIFIED IN THIS SECTION.  
SEE DEFINITION PAGE FOR CLARIFICATION

INGREDIENT	% (by WT)	PEL	TLV	Note
PETROLEUM MINERAL OIL	100			

## SECTION IV - PHYSICAL DATA

Boiling Point	NOT APPLICABLE
Vapor Pressure	NOT APPLICABLE
Specific Vapor Density	HEAVIER THAN AIR
Specific Gravity	.910 60.00 Deg F 15.55 Deg C
Percent Volatiles	NOT APPLICABLE
Evaporation Rate	SLOWER THAN ETHER
Appearance	CLEAR TO LIGHT YELLOW
State	LIQUID

## SECTION V - FIRE AND EXPLOSION INFORMATION

FLASH POINT(COC ) 390.0 Deg F ( 198.9 Deg C )

EXPLOSIVE LIMIT NOT APPLICABLE

EXTINGUISHING MEDIA: REGULAR FOAM OR CARBON DIOXIDE OR DRY CHEMICAL

HAZARDOUS DECOMPOSITION PRODUCTS: MAY FORM TOXIC MATERIALS:, CARBON DIOXIDE AND CARBON MONOXIDE, VARIOUS HYDROCARBONS, ETC.

FIREFIGHTING PROCEDURES: WEAR SELF-CONTAINED BREATHING APPARATUS WITH A FULL FACEPIECE OPERATED IN THE POSITIVE PRESSURE DEMAND MODE WHEN FIGHTING FIRES.

WATER OR FOAM MAY CAUSE FROTHING WHICH CAN BE VIOLENT AND POSSIBLY ENDANGER THE LIFE OF THE FIREFIGHTER, ESPECIALLY IF SPRAYED INTO CONTAINERS OF HOT, BURNING LIQUID.

SPECIAL FIRE & EXPLOSION HAZARDS: NEVER USE WELDING OR CUTTING TORCH ON OR NEAR DRUM (EVEN EMPTY) BECAUSE PRODUCT (EVEN JUST RESIDUE) CAN IGNITE EXPLOSIVELY.

NFPA CODES: HEALTH- 1 FLAMMABILITY- 1 REACTIVITY- 0

## SECTION VI - HEALTH HAZARD DATA

PERMISSIBLE EXPOSURE LEVEL: SEE SECTION II

EFFECTS OF ACUTE OVEREXPOSURE:

EYES - MAY CAUSE IRRITATION.  
SKIN - MAY CAUSE IRRITATION.  
BREATHING - INHALATION OF MIST MAY CAUSE IRRITATION OF NASAL AND RESPIRATORY PASSAGES.  
SHALLOWING - MAY CAUSE GASTROINTESTINAL IRRITATION, NAUSEA, VOMITING AND DIARRHEA.

### FIRST AID:

IF ON SKIN: THOROUGHLY WASH EXPOSED AREA WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING. LAUNDER CONTAMINATED CLOTHING BEFORE RE-USE.

IF IN EYES: FLUSH WITH LARGE AMOUNTS OF WATER, LIFTING UPPER AND LOWER LIDS OCCASIONALLY, GET MEDICAL ATTENTION.

IF SWALLOWED: DO NOT INDUCE VOMITING, KEEP PERSON WARM AND QUIET, AND GET MEDICAL ATTENTION.



MATERIAL SAFETY  
DATA SHEET

VALVOLINE, INC.  
Subsidiary of Ashland  
P.O. BOX 14  
LEXINGTON, KENTUCKY 40512  
(606) 264-7000

24-hour  
Emergency  
Telephone  
1 (800) 274-5263 or  
1-800-ASHLAND

001380

NAPA TRA HYD FL

Page: 2

# ~~SECTION V - HEALTH HAZARD DATA (continued)~~

IF BREATHED: IF AFFECTED, REMOVE INDIVIDUAL TO FRESH AIR. IF BREATHING IS DIFFICULT, ADMINISTER OXYGEN. IF BREATHING HAS STOPPED GIVE ARTIFICIAL RESPIRATION. KEEP PERSON WARM, QUIET AND GET MEDICAL ATTENTION.

## PRIMARY ROUTE(S) OF ENTRY:

INHALATION, SKIN CONTACT

# ~~SECTION VI - REACTIVITY DATA~~

HAZARDOUS POLYMERIZATION: CANNOT OCCUR

STABILITY: STABLE

INCOMPATIBILITY: AVOID CONTACT WITH: , STRONG OXIDIZING AGENTS

# ~~SECTION VII - SPILL OR LEAK PROCEDURES~~

## STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

SMALL SPILL: ABSORB LIQUID ON PAPER, VERMICULITE, FLOOR ABSORBENT OR OTHER ABSORBENT MATERIAL.

LARGE SPILL: PREVENT RUN-OFF TO SEWERS, STREAMS OR OTHER BODIES OF WATER. IF RUN-OFF OCCURS, NOTIFY PROPER AUTHORITIES AS REQUIRED, THAT A SPILL HAS OCCURRED.

PERSONS NOT WEARING PROTECTIVE EQUIPMENT SHOULD BE EXCLUDED FROM AREA OF SPILL UNTIL CLEAN-UP HAS BEEN COMPLETED. STOP SPILL AT SOURCE, DIKE AREA OF SPILL TO PREVENT SPREADING, PUMP LIQUID TO SALVAGE TANK. REMAINING LIQUID MAY BE TAKEN UP ON SAND, CLAY, EARTH, FLOOR ABSORBENT, OR OTHER ABSORBENT MATERIAL AND SHOVELED INTO CONTAINERS.

## WASTE DISPOSAL METHOD:

SMALL SPILL: DISPOSE OF IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.

LARGE SPILL: DISPOSE OF IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.

# ~~SECTION VIII - PROTECTIVE EQUIPMENT TO BE USED~~

RESPIRATORY PROTECTION: NOT REQUIRED UNDER NORMAL CONDITIONS OF USE.

VENTILATION: NOT REQUIRED UNDER NORMAL CONDITIONS OF USE.

PROTECTIVE GLOVES: WEAR RESISTANT GLOVES SUCH AS: , NEOPRENE

EYE PROTECTION: CHEMICAL SPLASH GOGGLES IN COMPLIANCE WITH OSHA REGULATIONS ARE ADVISED; HOWEVER, OSHA REGULATIONS ALSO PERMIT OTHER TYPE SAFETY GLASSES. (CONSULT YOUR SAFETY EQUIPMENT SUPPLIER)

OTHER PROTECTIVE EQUIPMENT: NORMAL WORK CLOTHING COVERING ARMS AND LEGS.

# ~~SECTION IX - SPECIAL PRECAUTIONS OR OTHER COMMENTS~~

CONTAINERS OF THIS MATERIAL MAY BE HAZARDOUS WHEN EMPTIED. SINCE EMPTIED CONTAINERS RETAIN PRODUCT RESIDUES (VAPOR, LIQUID, AND/OR SOLID), ALL HAZARD PRECAUTIONS GIVEN IN THIS DATASHEET MUST BE OBSERVED.

THE SPECIFIC CHEMICAL IDENTITY HAS BEEN WITHHELD AS A TRADE SECRET.

THE INFORMATION ACCUMULATED HEREIN IS BELIEVED TO BE ACCURATE BUT IS NOT WARRANTED TO BE WHETHER ORIGINATING WITH THE COMPANY OR NOT. RECIPIENTS ARE ADVISED TO CONFIRM IN ADVANCE OF NEED THAT THE INFORMATION IS CURRENT, APPLICABLE, AND SUITABLE TO THEIR CIRCUMSTANCES.

# ~~SECTION X - LABEL INFORMATION~~

## CAUTION:

MAY CAUSE EYE AND SKIN IRRITATION.

SWALLOWING MAY CAUSE MOUTH AND GASTROINTESTINAL IRRITATION.

INHALATION OF MIST MAY CAUSE IRRITATION OF NASAL AND RESPIRATORY PASSAGES.

## HANDLING & STORAGE:

AVOID CONTACT WITH EYES AND PROLONGED OR REPEATED CONTACT WITH SKIN. WEAR SAFETY GLASSES OR GOGGLES, RESISTANT GLOVES, AND OTHER APPROPRIATE PROTECTIVE EQUIPMENT ESSENTIAL FOR YOUR OPERATION. DO NOT TRANSFER TO UNLABELED CONTAINER. MINIMIZE EXPOSURE THROUGH GOOD HYGIENIC PRACTICES. DO NOT USE CUTTING OR HOLDING TORCH ON THIS CONTAINER (EVEN EMPTY). USE OR STORE ONLY WITH ADEQUATE VENTILATION. BEFORE USE, REVIEW MATERIAL SAFETY DATA SHEET FOR MORE DETAILED INFORMATION, INCLUDING CHRONIC HEALTH EFFECTS. 24-HOUR EMERGENCY NUMBER 1-800-ASHLAND. FOR INDUSTRIAL USE ONLY

## FIRST AID:

EYES: FLUSH THOROUGHLY WITH WATER. GET MEDICAL ATTENTION IMMEDIATELY.

SKIN: WASH THOROUGHLY WITH SOAP AND WATER.

INHALATION: IF AFFECTED, REMOVE TO FRESH AIR. IF BREATHING IS DIFFICULT, GET MEDICAL ATTENTION.

INGESTION: DO NOT INDUCE VOMITING. CALL A PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY.

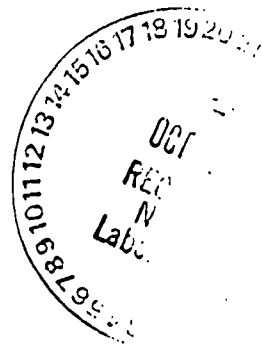
## CHRONIC INFORMATION:

CONTAINS: PETROLEUM OIL

\*\*\* COMPONENTS APPEAR IN SECTION II \*\*\*

Samples were extracted in accordance with the toxicity characteristic leaching procedure (40 CFR Pt. 268, 7-1-89 & App IX). All results are reported in mg/liter of the extract.

Analyte	Method	351 & 352 (composited)
Arsenic	7061	0.024
Barium	7080	<0.25
Benzene	8240	<0.05
Cadmium	7131	0.031
Carbon tetrachloride	8240	<0.05
Chlordane	8250	
Chlorobenzene	8240	<0.05
Chloroform	8240	<0.05
Chromium	7190	<0.02
o-Cresol	8040	<0.20
m-Cresol	8040	<0.20
p-Cresol	8040	<0.20
2,4-D	8150	
1,4-Dichlorobenzene	8250	<0.20
1,2-Dichloroethane	8240	<0.05
1,1-Dichloroethylene	8240	<0.05
2,4-Dinitrotoluene	8250	<0.10
Endrin	8250	
Heptachlor (& hydroxide)	8250	
Hexachlorobenzene	8250	<0.08
Hexachlorobutadiene	8250	<0.04
Hexachloroethane	8250	<0.08
Lead	7420	0.73
Lindane	8250	
Mercury	7471	0.0003
Methoxychlor	8250	
Methyl ethyl ketone	8240	<1.0
Nitrobenzene	8250	<0.08
Pentachlorophenol	8250	<0.20
Pyridine	8250	<0.20
Selenium	7741	0.053
Silver	7760	<0.01
Tetrachloroethylene	8240	<0.05
Toxaphene	8250	
Trichloroethylene	8240	<0.05
2,4,5-Trichlorophenol	8250	<0.05
2,4,6-Trichlorophenol	8250	<0.05
2,4,5-TP (Silvex)	8150	
Vinyl chloride	8240	<0.10



ALBU CHEMIST, INC.

Quality Assurance Requirements:

- A. All data is maintained and available for reference.
- B. One blank for every ten extractions in a particular extraction vessel is run to detect "memory" effects.
- C. Matrix spike data (September 26, 1991):

Regulatory Analyte level (mg/l)	Recovery (%)	Method of standard additions
5.0 Arsenic	92.	n/r
100. Barium	86.	n/r
0.5 Benzene	102.	n/r
1.0 Cadmium	99.	n/r
0.5 Carbon tetrachloride	78.	n/r
0.03 Chlordane	79.	n/r
100. Chlorobenzene	110.	n/r
6.0 Chloroform	110.	n/r
5.0 Chromium	89.	n/r
200. o-Cresol	76.	n/r
200. m-cresol	91.	n/r
200. p-cresol	87.	n/r
10. 2,4-D	110.	n/r
7.5 1,4-Dichlorobenzene	122.	n/r
0.5 1,2-Dichloroethane	102.	n/r
0.7 1,1-Dichloroethylene	115.	n/r
0.13 2,4-Dinitrotoluene	81.	n/r
0.02 Endrin	91.	n/r
0.008 Heptachlor	93.	n/r
3.0 Hexachlorobenzene	108.	n/r
0.5 Hexachlorobutadiene	112.	n/r
3.0 Hexachloroethane	117.	n/r
5.0 Lead	92.	n/r
0.4 Lindane	84.	n/r
0.2 Mercury	89.	n/r
10. Methoxychlor	90.	n/r
200. Methyl ethyl ketone	116.	n/r
2.0 Nitrobenzene	122.	n/r
100. Pentachlorophenol	89.	n/r
5.0 Pyridine	110.	n/r
1.0 Selenium	76.	n/r
5.0 Silver	93.	n/r
0.7 Tetrachloroethylene	116.	n/r
0.5 Toxaphene	91.	n/r
0.5 Trichloroethylene	108.	n/r
400. 2,4,5-Trichlorophenol	82.	n/r
2.0 2,4,6-Trichlorophenol	83.	n/r
1.0 2,4,5-TP (Silvex)	93.	n/r
0.2 Vinyl chloride	106.	n/r

D. TCLP extraction and extract analysis is performed in accordance with the following schedule:

Parameters	TCLP extraction	Extract analysis
volatiles	14 days	14 days
semi-volatiles	40 days	40 days
mercury	28 days	28 days
other metals	180 days	180 days

# ENVIROTECH INC.

OK 1227  
UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

5796 U.S. HIGHWAY 64 - 3014  
FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615

March 23, 1992

RECEIVED  
MAR 26 1992  
OIL CON. DIV.  
DIST 1

Mr. Denny Foust  
New Mexico Oil Conservation Commission  
1000 Rio Brazos Road  
Aztec, New Mexico 87410

Re: Disposal Cement from Halliburton Services  
4109 East Main Street, Farmington, New Mexico

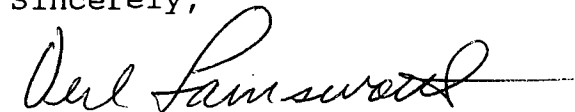
Dear Mr. Foust:

Halliburton Services, of 4109 East Main Street, Farmington, New Mexico has requested authorization to dispose of dry cement at Envirotech's Soil Remediation Facility. This cement is dry powdered cement not used. It is usable cement, except company policy prevents it from being reused once it has been sold to a customer.

Mr. Gary Morris has estimated Halliburton Services will be sending approximately 700 sacks of material.

We request authorization to receive this material.

Sincerely,



Verl Farnsworth  
Construction Superintendent

VF/sr  
153S.DOC

# ENVIROTECH INC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

5796 U.S. HIGHWAY 64 - 3014  
FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615

*Verbal Approval*

March 16, 1992

Mr. Denny G. Foust  
Environmental Coordinator  
State of New Mexico Oil Conservation Division  
1000 Rio Brazos Road  
Aztec, New Mexico 87410

**RECEIVED**  
MAR 18 1992  
OIL CON. DIV.  
DIST. 3

Re: Authorization to Receive  
Contaminated Soils.

Dear Mr. Foust:

Mr. Jake Hatcher of Falcon SeaBoard Oil Company has requested Envirotech receive crude oil contaminated soils for treatment at our Hilltop, New Mexico Soil Remediation Site.

Envirotech Inc. requests authorization to receive approximately 8 cubic yards of crude oil contaminated soils from the Carson 20-1 located T29N R4W, Rio Arriba County.

We appreciate working with you on this request.

Sincerely,

*Morris D. Young*  
Morris D. Young  
President

MDY/sr  
150S.DOC

**ENV RO' TECH<sup>®</sup> NC.**

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

5796 U.S. HIGHWAY 64 - 3014  
FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615

92108

Certification of Waste StatusOriginating location 2100 San Juan Blvd - Farmington N.M. 87401Disposal Location: Envirotech Soil Remediation Site, Hilltop, NM

"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by EPA's July 1988 Regulatory Determination and that non-exempt waste that is a "hazardous waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has not been added or mixed with the exempt waste in such a manner so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Section 261.3(b)."

Date of Haul

~~1-28-92 thru~~  
~~2-7-92~~

Signature W.T. Paulson

Name, Date

W.T. Paulson 1/18/93

Company

TEDKEN OIL Co.

Address

200 So. Fairview, Farmington N.M.  
87401

Please complete, sign and return a copy to Envirotech Inc.  
Fax # 505-632-1865

731.doc

# ENVIROTECH INC.

91383

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

5796 U.S. HIGHWAY 64 - 3014  
FARMINGTON, NEW MEXICO 87401  
PHONE: (505) 632-0615

December 13, 1991

*DENNY FOUST*

Mr. Roger Anderson  
State of New Mexico Oil Conservation Division  
~~P.O. Box 2088~~ 1000 2ND STREET NW ALBUQUERQUE  
~~Santa Fe, New Mexico 87504~~ 87110

Re: Contaminated Soil  
from Wooden Nickel UST  
Bloomfield, New Mexico

Dear Mr. Anderson:

Envirotech Inc. requests authorization to receive soil from a UST removal at the Wooden Nickel, Bloomfield, New Mexico.

The UST contained used motor oil; therefore pursuant to our telephone conversation, we have had a full TCLP Analysis of the soil.

The analysis is being sent directly to you, by Intermountain Laboratories. The Laboratory results show the soil concentration to be well below acceptable RCRA regulatory levels.

Approximately 30 cubic yards of soil were excavated October 31, 1991, and have been stockpiled on a asphalt surface awaiting laboratory results.

Your immediate attention is appreciated.

Sincerely,

*Morris D. Young Jr.*  
Morris D. Young  
President

MDY/sr  
119S.DOC

12/16/91

*Roger gave verbal  
approval* *may*



STATE OF NEW MEXICO  
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT  
OIL CONSERVATION DIVISION

BRUCE KING  
GOVERNOR

POST OFFICE BOX 2088  
STATE LAND OFFICE BUILDING  
SANTA FE, NEW MEXICO 87504  
(505) 827-5800

January 16, 1991

CERTIFIED MAIL -  
RETURN RECEIPT NO. P-327-278-039

Mr. Morris D. Young, President  
Envirotech, Inc.  
3111 Knudsen  
Farmington, New Mexico 87401

RE: Solids Disposal Facility  
San Juan County, New Mexico

RECEIVED  
JAN 22 1991  
OIL CON. DIV.  
DIST. 3

Dear Mr. Young:

The Oil Conservation Division (OCD) has reviewed the data contained in the two facsimile transmissions from your office on January 11, 1991.

The Bloomfield Refinery sludge from the reduced crude storage tank does not exhibit T.C.L.P. hazardous characteristics and is therefore approved for landfarming at your disposal facility.

The data submitted for the contaminated soils you have accepted without authorization at your facility, from the Farmington Bulk Plant is insufficient to determine classification. A representative composite sample will be obtained by Envirotech of contaminated soils from the Bulk plant that have been accepted at the disposal site. Sampling methodology will be pursuant to EPA SW-846. The samples will be analyzed for all T.C. constituents. Detection limites for the analyses will be no higher than those stated in the EPA method required for T.C. constituents. Additional requirements will be determined by this office after review of the analytical results.

After review of the Envirotech file it was noted that there is not a bond in place for your facility. OCD Rule 711 requires that all commercial surface waste disposal facilities shall have a surety or cash bond in the amount of \$25,000. In order for your operations to continue, a bond must be submitted to this office for approval. A copy of the bond form is enclosed for your convenience.



Mr. Morris D. Young  
January 16, 1991  
Page -2-

If you have any questions, please contact me at (505) 827-5884.

Sincerely,

Roger C. Anderson  
Environmental Engineer

Enclosure

RCA/sl



**DAMES & MOORE**

A PROFESSIONAL LIMITED PARTNERSHIP

127 SOUTH 500 EAST, SUITE 300, SALT LAKE CITY, UTAH 84102-1959 (801) 521-9255

August 14, 1990

Envirotech  
3111 Knudsen  
Farmington, NM 87401

Attention: Mr. Morris Young,  
President

Re: Disposal of Tank Farm Contami-  
nated Wastes and Soils to Thriftway  
Disposal Site

ENVIROTECH II

Dear Mr. Young:

As per our telephone conversation of August 8 and 10, 1990, this letter serves as a written formal request to dispose of certain refinery-related contaminated soils and sludges from the Maverik Country Stores Inc. abandoned tank farm (Caribou) near Kirtland, New Mexico to your disposal facility located at the Thriftway Refinery in Bloomfield, New Mexico.

As per our discussions with Mr. Bill Olson of the Oil Conservation Division, the soils and sludges on-site at the aforementioned tank farm (with the exception of the sludge and underlying 4 to 6 inches of soil at the Eastern Sludge Pit) can be disposed of at the Thriftway Disposal Site. Figure 1 shows the locations of the sites, designated sites 1 through 4, where soils and sludges are to be removed and disposed of to Thriftway. Laboratory analytical data for the material are also attached which demonstrate that these wastes from the fuel oil, diesel and crude oil tanks are not hazardous (i.e., do not fail EP toxicity tests). Specifically, we have attached the laboratory analytical test results for:

1. Sludges near the northern diesel fuel tanks (Site 1),

Envirotech  
August 14, 1990  
Page -2-

2. Soils near the fuel oil tank (Site 2),
3. The crude oil tank sludge (Site 3), which was removed from the crude oil tank by Rocky Mountain Construction Services, Inc. (some of which is currently stored in 55-gallon drums on-site, to be disposed of to Thriftway),
4. The sludge and underlying soils at the eastern sludge pit (Site 4), and
5. A composite sample taken from surficial sludges and soils at the three areas (Sites 1, 2 and 3) near the diesel fuel, fuel oil and crude oil tanks.

With respect to the underlying soils in the Eastern Sludge Pit, at depths greater than 4 to 6 inches, these deeper soils can be disposed of at Thriftway. The overlying sludge and soils will, however, be disposed of at CSI in Bennett, Colorado.

The volume (depth and extent) of soil/sludge removal will be determined in the field during excavation, both visually and via headspace analysis for volatile organics. However, we have estimated that approximately 350 cubic yards of waste material will be disposed of at the Thriftway Refinery. As per our conversation of August 10, 1990, the cost for such disposal will be about \$8.00/ton (or cubic yard). Attached is a manifest form that can be used for this project.

A copy of this letter has been forwarded to Mr. Bill Olson for his review and records. As we understand and, upon Mr. Olson's verbal and/or written approval of this request the waste material as described can be delivered and appropriately disposed of at the Thriftway Disposal Site. If possible, we would like to begin disposal the week of August 27, 1990, the same week that CSI is scheduled to begin removal of sludge and upper soil from the Eastern Sludge Pit.



Envirotech  
August 14, 1990  
Page -3-

We appreciate your time and cooperation in this matter. If you have any questions, please call (801) 521-9255.

Very truly yours,  
DAMES & MOORE

Peter F. Olsen  
Associate

Terry D. Vandell  
Senior Hydrogeologist

PFO/TDV:fl

cc: Bill Olson  
With Attachments

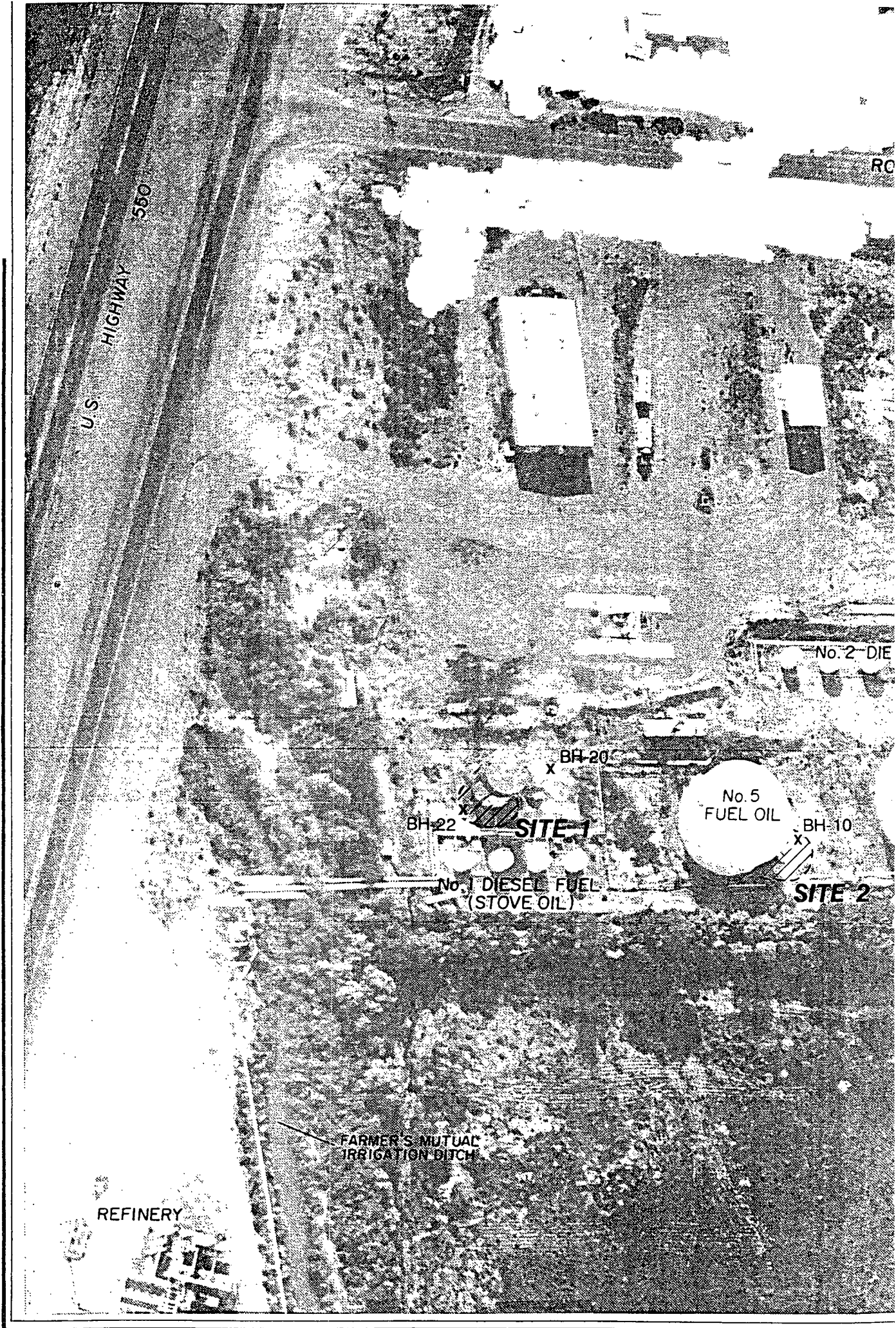
Bill Call  
With Attachments

Levi Todd  
With Attachments



Dames & Moore

FIGURE 1



# INDUSTRIAL WASTE DISPOSAL MANIFEST

**PART I: TO BE COMPLETED BY SHIPPER/GENERATOR**
COMPANY NAME Maverik Country Stores, Inc.BUSINESS ADDRESS P.O. Box 457, Afton, Wyoming 83110-0457ADDRESS OF SHIPMENT ORIGIN U.S. Highway 550, Kirtland, NMAUTHORIZED CONTACT Terry Vandell, Dames & MooreEMERGENCY PHONE (801) 521-9255RECEIVER'S NAME Envirotech/Thriftway Disposal SiteBUSINESS ADDRESS Bloomfield, New MexicoOFFICE PHONE (505) 326-2822SITE ADDRESS Hammond Ditch RoadSITE PHONE (505) 632-3363

ESTIMATED QUANTITY	UNITS	WASTE DESCRIPTION
40	C.yd.	Site 1 Sludge/Soil Near Diesel Fuel Tanks
60	C.yd.	Site 2 Sludge/Soil Near Fuel Tank
60	C.yd.	Site 3 Sludge/Soil From Crude Oil Tank (Drums too)
200	C.yd.	Site 4 Soil, >/4 Inches Below Sludge In Eastern Sludge Pit

The materials described above were consigned to the Carrier named below. I certify that the foregoing is true and correct to the best of my knowledge.

SIGNATURE OF  
AUTHORIZED  
Contact X \_\_\_\_\_

DATE: \_\_\_\_\_

TYPE OR PRINT  
ABOVE NAME:Terry D. Vandell
**PART II: TO BE COMPLETED BY CARRIER/DRIVER**

CARRIER NAME \_\_\_\_\_

BUSINESS ADDRESS \_\_\_\_\_

PHONE NO. \_\_\_\_\_

I certify that the materials in the quantity described above are received by me for shipment to the above destination.

SIGNATURE OF  
AUTHORIZED  
AGENT X \_\_\_\_\_

DATE: \_\_\_\_\_

TYPE OR PRINT  
ABOVE NAME: \_\_\_\_\_
**PART III: TO BE COMPLETED BY RECEIVER**
RECEIVERS NAME Morris YoungPHONE NO. (505) 326-2822SITE ADDRESS Thriftway-Refinery/Hammond Ditch Road /Bloomfield, NM

RECEIVER'S COMMENTS \_\_\_\_\_

I certify that the materials in the quantity described in Part I are received by me.

SIGNATURE OF  
AUTHORIZED  
AGENT X \_\_\_\_\_

DATE: \_\_\_\_\_

TYPE OR PRINT  
ABOVE NAME: \_\_\_\_\_

SLUDGES NEAR DIESEL FUEL TANKS

(SITE 1)



## AROMATIC VOLATILE ORGANICS

## EPA METHOD 8020

Client Name: DAMES AND MOORE

Client ID: BH-20

Laboratory ID: 67196-001

Enseco ID: 67196-001

Matrix: Soil

Sampled: 04/21/88

Received: 04/22/88

Authorized: 04/22/88

Analyzed: 05/03/88

---

<u>Parameter</u>	<u>Result</u>	<u>Units (as received)</u>	<u>Reporting Limit</u>
Benzene	75	ug/kg	50
Chlorobenzene	N.D.	ug/kg	50
1,2-Dichlorobenzene	N.D.	ug/kg	50
1,3-Dichlorobenzene	N.D.	ug/kg	50
1,4-Dichlorobenzene	N.D.	ug/kg	50
Ethylbenzene	76	ug/kg	50
Toluene	120	ug/kg	50
m-Xylene	130	ug/kg	50
o & p-Xylene(s)	150	ug/kg	50

---

N.D. = Not detected

Reported by: Helmer Morse

Approved by: Susan Brillante

Sample: 67196-001

## ANALYTICAL RESULTS FOR TOTAL CHROMATOGRAPHABLE ORGANICS

Client Name: DAMES AND MOORE

Client ID: BH-20

Laboratory ID: 67196-001

Enseco ID: 67196-001

Matrix: Soil

Sampled: 04/21/88

Received: 04/22/88

Authorized: 04/22/88

Prepared: 04/27/88

Analyzed: 04/29/88

---

---

	<u>Value</u>	<u>Units</u>	<u>Detection Limit</u>
Total Chromatographable Organics	54,000,000	ug/kg	830,000
Initial Boiling Point*	250	°C	-
Final Boiling Point*	450	°C	-
Gasoline	ND	ug/kg	8,300,000
Stoddard Solvent	ND	ug/kg	8,300,000
Jet Fuel	ND	ug/kg	8,300,000
Kerosene	ND	ug/kg	8,300,000
Diesel	54,000,000	ug/kg	8,300,000
Motor Oil	ND	ug/kg	83,000,000

\* The initial and final boiling points define the range of compounds detected. The method is capable of detecting compounds between 100°C and 500°C.

\*\* Primary components of this product were detected in the sample. Due to the overall complexity of the chromatogram, reliable identification of this product cannot be achieved.

## INORGANIC PARAMETERS

Client Name: DAMES AND MOORE

Client ID: BH-20

Laboratory ID: 67196-001

Enseco ID: 67196-001

Matrix: Soil

Sampled: 04/21/88

Received: 04/22/88

Authorized: 04/22/88

---

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Reporting Limit</u>	<u>Analytical Method</u>	<u>Analyzed</u>
Oil	10.3	%	0.1		05/03/88
Water	10.9	%	0.1		05/03/88
Solids	78.8	%	0.1		05/03/88

N.D. = Not detected

Approved by: Lindsay Breyer

Sample: 67196-001

## AROMATIC VOLATILE ORGANICS

## EPA METHOD 8020

Client Name: DAMES AND MOORE

Client ID: BH-22

Laboratory ID: 67196-003

Enseco ID: 67196-003

Matrix: Waste

Sampled: 04/21/88

Received: 04/22/88

Authorized: 04/22/88

Analyzed: 05/03/88

<u>Parameter</u>	<u>Result</u>	<u>Units (as received)</u>	<u>Reporting Limit</u>
Benzene	2000	ug/kg	100
Chlorobenzene	N.D.	ug/kg	100
1,2-Dichlorobenzene	N.D.	ug/kg	100
1,3-Dichlorobenzene	N.D.	ug/kg	100
1,4-Dichlorobenzene	N.D.	ug/kg	100
Ethylbenzene	1800	ug/kg	100
Toluene	11000	ug/kg	100
m-Xylene	10000	ug/kg	100
o & p-Xylene(s)	6100	ug/kg	100

N.D. = Not detected

Reported by: Helmer Morse

Approved by: Susan Brillante

Sample: 67196-003

## ANALYTICAL RESULTS FOR TOTAL CHROMATOGRAPHABLE ORGANICS

Client Name: DAMES AND MOORE

Client ID: BH-22

Laboratory ID: 67196-003

Enseco ID: 67196-003

Matrix: Waste

Sampled: 04/21/88

Received: 04/22/88

Authorized: 04/22/88

Prepared: 04/27/88

Analyzed: 04/29/88

---

---

	<u>Value</u>	<u>Units</u>	<u>Detection Limit</u>
Total Chromatographable Organics	130,000,000	ug/kg	830,000
Initial Boiling Point*	100	°C	-
Final Boiling Point*	500	°C	-
Gasoline	ND	-	8,300,000
Stoddard Solvent	ND	-	8,300,000
Jet Fuel	ND	-	8,300,000
Kerosene	ND	-	8,300,000
Diesel	ND	-	8,300,000
Motor Oil	ND	-	83,000,000

\* The initial and final boiling points define the range of compounds detected. The method is capable of detecting compounds between 100°C and 500°C.

\*\* Primary components of this product were detected in the sample. Due to the overall complexity of the chromatogram, reliable identification of this product cannot be achieved.

**METALS PARAMETERS  
TOTAL METALS**

Client Name: DAMES AND MOORE

Client ID: BH-22

Laboratory ID: 67196-003

Enseco ID: 67196-003

Matrix: Waste

Sampled: 04/21/88

Received: 04/22/88

Authorized: 04/22/88

<u>Parameter</u>	<u>Result</u>	<u>Units (as received)</u>	<u>Reporting Limit</u>	<u>Analytical Method</u>	<u>Analyzed</u>
Antimony	N.D.	mg/kg	5	6010	04/29/88
Arsenic	N.D.	mg/kg	0.3	7060	05/06/88
Barium	9.4	mg/kg	0.5	6010	04/29/88
Beryllium	N.D.	mg/kg	0.1	6010	04/29/88
Cadmium	N.D.	mg/kg	0.5	6010	04/29/88
Chromium	N.D.	mg/kg	1	6010	04/29/88
Cobalt	N.D.	mg/kg	1	6010	04/29/88
Lead	N.D.	mg/kg	5	6010	04/29/88
Mercury	N.D.	ug/kg	50	7471	04/29/88
Nickel	N.D.	mg/kg	4	6010	04/29/88
Selenium	N.D.	mg/kg	0.2	7740	05/05/88
Vanadium	N.D.	mg/kg	1	6010	04/29/88

N.D. = Not detected

Approved by: Will Pratt

Sample: 67196-003

## INORGANIC PARAMETERS

Client Name: DAMES AND MOORE

Client ID: BH-22

Laboratory ID: 67196-003

Enseco ID: 67196-003

Matrix: Waste

Sampled: 04/21/88

Received: 04/22/88

Authorized: 04/22/88

---

---

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Reporting Limit</u>	<u>Analytical Method</u>	<u>Analyzed</u>
Oil	93.7	%	0.1		05/03/88
Water	2.0	%	0.1		05/03/88
Solids	4.3	%	0.1		05/03/88

N.D. = Not detected

Approved by: Lindsay Breyer

Sample: 67196-003

SOILS NEAR FUEL OIL TANK

(SITE 2)



## AROMATIC VOLATILE ORGANICS

## EPA METHOD 8020

Client Name: DAMES AND MOORE

Client ID: BH-10 12'

Laboratory ID: 67161-004

Enseco ID: 67161-004

Matrix: Solid

Sampled: 04/17/88

Received: 04/19/88

Authorized: 04/19/88

Analyzed: 04/28/88

<u>Parameter</u>	<u>Result</u>	<u>Units (as received)</u>	<u>Reporting Limit</u>
Benzene	410	ug/kg	200
Chlorobenzene	N.D.	ug/kg	200
1,2-Dichlorobenzene	N.D.	ug/kg	200
1,3-Dichlorobenzene	N.D.	ug/kg	200
1,4-Dichlorobenzene	N.D.	ug/kg	200
Ethylbenzene	10000	ug/kg	200
Toluene	870	ug/kg	200
m-Xylene	63000	ug/kg	200
o & p-Xylene(s)	13000	ug/kg	200

N.D. = Not detected

Reported by: Helmer Morse

Approved by: Susan Brillante

Sample: 67161-004

# INORGANIC PARAMETERS

Client Name: DAMES AND MOORE

Client ID: BH-10 15'

Laboratory ID: 67161-005

Enseco ID: 67161-005

Matrix: Solid

Sampled: 04/17/88

Received: 04/19/88

Authorized: 04/19/88

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Reporting Limit</u>	<u>Analytical Method</u>	<u>Analyzed</u>
Oil	0.7	%	0.1		05/03/88
Water	15.8	%	0.1		05/03/88
Solids	83.5	%	0.1		05/03/88

N.D. = Not detected

Approved by: Lindsay Breyer

Sample: 67161-005

CRUDE OIL TANK ANALYSES

(MATERIAL IN DRUMS)

(SITE 3)



# COMMERCIAL TESTING & ENGINEERING CO.

GENERAL OFFICES: 1919 SOUTH HIGHLAND AVE., SUITE 210-B, LOMBARD, ILLINOIS 60148 • (708) 953-9300

SINCE 1908

Member of the SGS Group (Société Générale de Surveillance)

PLEASE ADDRESS ALL CORRESPONDENCE TO:  
490 ORCHARD ST., GOLDEN, CO 80401  
TELEPHONE: (303) 278-9521  
FAX: (303) 278-1779

Conservation Services Inc.  
777 West 62nd Avenue  
Denver, Colorado 80216

Date: February 23, 1990  
IAD #97-120870-01  
Received: 02/22/90

Attention: Mr. Mark A. Molen

Material: Oil Sludge (From Crude Oil Tank Bottom)

Procedure: EP Toxicity per EPA Reference SW-846, Test Methods for Evaluating Solid Wastes.

Results: EP Toxicity results are reported as milligrams per liter, (mg/L), on an extract basis.

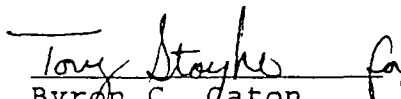
The weight of the sample prepared for the analysis is reported in grams (gm).

The volume of 0.5N acetic acid required for the pH adjustment of the extract is reported in milliliters (ml).

The volume of de-ionized water added and final volume of the extract are also reported in milliliters (ml).

The initial and final pH values of each extract are reported directly.

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

  
Byron C. Caton  
Laboratory Manager

dld/csi0870

EP Toxic Extract Elements

<u>Parameter</u>	<u>03486</u>
Cadmium, Cd	<0.01
Chromium, Cr	0.07
Lead, Pb	0.20
Sample Weight	101.6
Volume of 0.5N Acetic Acid required for pH adjustment	66
Volume of deionized water added to the extract	1934
Initial pH	10.3
Final pH	5.1



CONSERVATION SERVICES, INC. LABORATORY WORKSHEET

CUSTOMER: Rocky Mtn. Const. CONTACT: \_\_\_\_\_  
 WASTE CODE: CO-01- 03486 MANIFEST NO.: \_\_\_\_\_  
 RECEIVED: DATE 2/20/90 TIME \_\_\_\_\_ VOLUME \_\_\_\_\_

PHYSICAL STATE (top to bottom 1 2 3 4) tan bottom sludge LIQUID \_\_\_\_\_ % SOLID \_\_\_\_\_ %  
OIL \_\_\_\_\_ % SLUDGE 100 % OTHER \_\_\_\_\_

DESCRIPTION COLOR black ODOR mild LOOK oil sludge

DENSITY 9.46 [ ] lb/cu.yd 8 lb/gal [ ] g/cc 113.47 g-100ml

MISCIBILITY Miscible in water? [ ] yes X no

SOLUBILITY Soluble in water? [ ] very [ ] slight [ ] none

IGNITABILITY ZLEL \_\_\_\_\_ at \_\_\_\_\_ °F

CLOSED CUP FLASH POINT 750 °F

CORROSIVITY INITIAL pH 8.2 (1.0 % sample solution)

REACTIVITY Any reactions with [ ] AIR [ ] WATER [ ] KILN DUST

ACID ADJUST: 20 ml of a 1.0 % sample solution  
 took 1.0 ml of 10% HCl, final pH 1.5  
 REACTIONS none

BASE ADJUST: 20 ml of a 1.0 % sample solution  
 took 1.0 ml of 10% NaOH, final pH 12.6  
 REACTIONS none

SULFIDES Spot test [ ] positive [ ] negative QUANTITATIVE \_\_\_\_\_

CYANIDES QUANTITATIVE \_\_\_\_\_ AMMONIA QUANTITATIVE \_\_\_\_\_

CHLORIDES Spot test [ ] very [ ] slight X none

RADIOACTIVITY Greater [ ] or Less X than background

SUSPENDED SOLIDS After Centrifuge \_\_\_\_\_ % of total volume

MOISTURE \_\_\_\_\_ % VISCOSITY \_\_\_\_\_ cp (centipoises)

COMMENTS \_\_\_\_\_

AMOUNT OF SAMPLE REMAINING 1/3 Quart none - sample jar broke during move.  
 ANALYST Al. Mordor DATE 2/21/90

CUSTOMER: Rocky Mtn. Const. DATE: 2/21/90  
WASTE CODE: CO-01- -03480

### SOLIDIFICATION REQUIREMENTS

KILN DUST TYPE M.M. WEIGHT OF WASTE 50 MLS = 567 grams

WASTE/WATER RATIO 50 % WASTE 50 % WATER

RATIO FIGURES START: 200 MLS KD = 264.2 G

FINISH: 156.7 MLS KD = 207.0 G

TOTAL: 43.3 MLS KD = 57.2 G

$$\frac{200 \text{ MLS KD}}{x} = \frac{264.2}{207.0 \text{ g. dust left}} \text{ G KD} \quad x = 156.7$$

$$\begin{array}{r} 233.4 \\ 26.4 \\ \hline 207.0 \end{array}$$

KILN DUST TYPE \_\_\_\_\_ WEIGHT OF WASTE \_\_\_\_\_ MLS = \_\_\_\_\_

WASTE/WATER RATIO \_\_\_\_\_ % WASTE \_\_\_\_\_ % WATER

RATIO FIGURES START: \_\_\_\_\_ MLS KD = \_\_\_\_\_ G

FINISH: \_\_\_\_\_ MLS KD = \_\_\_\_\_ G

TOTAL: \_\_\_\_\_ MLS KD = \_\_\_\_\_ G

$$\frac{200 \text{ MLS KD}}{x} = \frac{154.0 \text{ G KD}}{x} \quad x =$$

RATIO 0.45 VOLUME INCREASE 1.25

COMMENTS \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

### NEUTRALIZATION REQUIREMENTS

STARTING SAMPLE VOLUME \_\_\_\_\_

TITRANT USED: \_\_\_\_\_ START \_\_\_\_\_ FINISH \_\_\_\_\_ MLS USED \_\_\_\_\_ FINAL pH \_\_\_\_\_

INDICATOR TYPE \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

To get a pH of \_\_\_\_\_ approximately \_\_\_\_\_ gallons of \_\_\_\_\_  
is needed for each \_\_\_\_\_ of waste.

COMMENTS \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

ANALYST Q. Mander DATE 2/21/90



# CONSERVATION SERVICES, INC.

## OFFICES

2090 E. 104th Ave.  
Denver, CO 80233  
(303) 280-9336  
FAX 280-9848

## FACILITY

41800 East 88th Ave.  
Bennett, CO 80102  
(303) 644-4335

Collected by: (Sampler) (Signature)

Print Name

Stan

Emr of Sampler

Address

Telephone

or ne:

Sampling Address

Telephone

Sampler Pl at No.

CSI Lab Control No

Cc tion/Temp Sample

CSI Customer No.

CSI Salesman

Priority

## CHAIN OF CUSTODY RECORD ANALYTICAL SERVICES REQUEST

PE PHASE

ANALYSIS

QUESTED

FIELD TEST RESULTS

SAMPLE IDENTIFICATION

DATE  
SAMPLED TIME

COMPOSITE  
GRAB

WATER

SOLID

OIL

SLUDGE

CSI HCHA  
ANALYSIS

IGNITABILITY

CORROSIVITY

EP TOXICITY  
EXTRACTION

TCLP  
EXTRACTION

Lead

Cadmium

Chromium

A-R Gotten 5.11

1 9:00

X

X

X

CSI  
LAB  
CON

03486

COMMENTS

lit av: in m l and sent o CTE for E o Qm 2 21/90

FIELD INFORMATION

SPECIAL HANDLING AND/OR STORAGE

RELINQUISHED BY:

REPRESENTING:

CS

TO WHOM:

Greg

DATE/TIME:

2-20-90 15

RELINQUISHED BY:

Q m

REPRESENTING:

CSF

TO WHOM:

Al. Marler

DATE/TIME:

2/20/90 - 4:00

RELINQUISHED BY:

REPRESENTING:

TO WHOM:

DATE/TIME:



## AROMATIC VOLATILE ORGANICS

## EPA METHOD 8020

Client Name: DAMES AND MOORE

Client ID: BH-3 5'-7'

Laboratory ID: 67161-011

Enseco ID: 67161-011

Matrix: Solid

Sampled: 04/17/88

Received: 04/19/88

Authorized: 04/19/88

Analyzed: 05/02/88

<u>Parameter</u>	<u>Result</u>	<u>Units (as received)</u>	<u>Reporting Limit</u>
Benzene	5200	ug/kg	500
Chlorobenzene	N.D.	ug/kg	500
1,2-Dichlorobenzene	N.D.	ug/kg	500
1,3-Dichlorobenzene	N.D.	ug/kg	500
1,4-Dichlorobenzene	N.D.	ug/kg	500
Ethylbenzene	26000	ug/kg	500
Toluene	13000	ug/kg	500
m-Xylene	17000	ug/kg	500
o & p-Xylene(s)	90000	ug/kg	500

N.D. = Not detected

Reported by: Helmer Morse

Approved by: Susan Brillante

Sample: 67161-011

**INORGANIC PARAMETERS**

Client Name: DAMES AND MOORE

Client ID: BH-3 5'-7'

Laboratory ID: 67161-011

Enseco ID: 67161-011

Matrix: Solid

Sampled: 04/17/88

Received: 04/19/88

Authorized: 04/19/88

---

---

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Reporting Limit</u>	<u>Analytical Method</u>	<u>Analyzed</u>
Oil	1.5	%	0.1		05/03/88
Water	14.0	%	0.1		05/03/88
Solids	84.5	%	0.1		05/03/88

N.D. = Not detected

Approved by: Lindsay Breyer

Sample: 67161-011

**METALS PARAMETERS  
EPI TOXICITY METALS**

Client Name: DAMES AND MOORE

Client ID: BH-3 11'

Laboratory ID: 67161-012

Enseco ID: 67161-012

Matrix: Solid

Sampled: 04/17/88

Received: 04/19/88

Authorized: 04/19/88

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Reporting Limit</u>	<u>Analytical Method</u>	<u>Analyzed</u>
Arsenic	N.D.	mg/L	0.1	200.7	05/02/88
Barium	2.7	mg/L	0.005	200.7	05/02/88
Cadmium	N.D.	mg/L	0.005	200.7	05/02/88
Chromium	N.D.	mg/L	0.01	200.7	05/02/88
Lead	N.D.	mg/L	0.05	200.7	05/02/88
Mercury	N.D.	ug/L	1	245.1	04/29/88
Selenium	N.D.	mg/L	0.02	7740	05/05/88
Silver	N.D.	mg/L	0.005	200.7	05/02/88

N.D. = Not detected

Approved by: Will Pratt

Sample: 67161-012

EASTERN SLUDGE PIT  
SOIL/SLUDGE ANALYSES  
(SITE 4)

SAMPLE DESCRIPTION INFORMATION  
for  
Dames and Moore

Lab ID	Client ID	Matrix	Sampled Date	Time	Received Date
008144-0001-SA	MESP-SLI (Eastern Sludge Pit Sludge)	SOIL	18 JAN 90	15:00	20 JAN 90
008144-0002-SA	MESP-Sol (Eastern Sludge Pit Soils, 0.5 to 5.0 feet)	SOIL	18 JAN 90	15:00	20 JAN 90

## General Inorganics

Client Name: Dames and Moore  
Client ID: MESP-SLI  
Lab ID: 008144-0001-SA  
Matrix: SOIL  
Authorized: 20 JAN 90

Enseco ID: 1064809  
Sampled: 18 JAN 90  
Prepared: See Below

Received: 20 JAN 90  
Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date
Cyanide, Reactive	ND	mg/kg	0.1	EPA/OSW	NA	23 JAN 90
Ignitability	>160	deg. F	--	1010/1020	NA	23 JAN 90
Oil and Grease	129000	mg/kg	100	9070 Mod.	NA	24 JAN 90
pH	7.2	units	--	9045/ASTM	NA	23 JAN 90
Sulfide, Reactive	ND	mg/kg	0.5	EPA/OSW	NA	23 JAN 90
Total Petroleum Hydrocarbons	13300	mg/kg	50	9070	NA	23 JAN 90

Note o : This test is unreliable for any sample other than a non-aqueous liquid.

ND = Not detected  
NA = Not applicable

Reported By: Ron Maiorana

Approved By: Kimberly Conroy

Metals

EP Toxicity Leachate

Client Name: Dames and Moore  
Client ID: MESP-SLI  
Lab ID: 008144-0001-SA  
Matrix: SOIL  
Authorized: 20 JAN 90

Enseco ID: 1064809  
Sampled: 18 JAN 90  
Prepared: See Below

Received: 20 JAN 90  
Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date
Arsenic	ND	mg/L	0.1	6010	24 JAN 90	25 JAN 90
Barium	0.10	mg/L	0.01	6010	24 JAN 90	25 JAN 90
Cadmium	ND	mg/L	0.005	6010	24 JAN 90	25 JAN 90
Chromium	ND	mg/L	0.01	6010	24 JAN 90	25 JAN 90
Lead	0.18	mg/L	0.05	6010	24 JAN 90	25 JAN 90
Silver	ND	mg/L	0.01	6010	24 JAN 90	25 JAN 90
Mercury	ND	mg/L	0.002	7470	24 JAN 90	25 JAN 90
Selenium	ND	mg/L	0.05	7740	24 JAN 90	25 JAN 90

ND = Not detected  
NA = Not applicable

Reported By: Fred Velasquez

Approved By: Kimberly Conroy

SAMPLE DESCRIPTION INFORMATION  
for  
Dames and Moore

Lab ID	Client ID	Matrix	Sampled Date	Time	Received Date
009523-0001-SA	ESP-Soil	SOIL	05 MAY 90	04:00	08 MAY 90



## General Inorganics

Client Name: Dames and Moore

Client ID: HESP-Sol

Lab ID: 008144-0002-SA

Matrix: SOIL

Authorized: 20 JAN 90

Enseco ID: 1064810

Sampled: 18 JAN 90

Prepared: See Below

Received: 20 JAN 90

Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date
Cyanide, Reactive	ND	mg/kg	0.1	EPA/OSW	NA	23 JAN 90
Ignitability	>160	deg. F	--	1010/1020	NA	23 JAN 90
Oil and Grease	20300	mg/kg	100	9070 Mod.	NA	24 JAN 90
pH	7.7	units	--	9045/ASTM	NA	23 JAN 90
Sulfide, Reactive	ND	mg/kg	0.5	EPA/OSW	NA	23 JAN 90
Total Petroleum Hydrocarbons	2560	mg/kg	50	9070	NA	23 JAN 90

Note 1: This test is unreliable for any sample other than a non-aqueous liquid.

ND = Not detected

NA = Not applicable

Reported By: Ron Maiorana

Approved By: Kimberly Conroy

## Benzene, Toluene, Ethyl Benzene and Xylenes (BTX)



Method 8020

Client Name: Dames and Moore  
Client ID: ESP-Soil  
Lab ID: 009523-0001-SA  
Matrix: SOIL  
Authorized: 15 MAY 90

Enseco ID: 1075792  
Sampled: 05 MAY 90  
Prepared: NA

Received: 08 MAY 90  
Analyzed: 16 MAY 90

Parameter	Result	Wet wt. Units	Reporting Limit
Benzene	ND	ug/kg	50
Toluene	ND	ug/kg	50
Ethylbenzene	ND	ug/kg	50
Xylenes (total)	ND	ug/kg	100

ND = Not detected  
NA = Not applicable

Reported By: Janet Heida

Approved By: Kim Zilis

Metals

EP Toxicity Leachate

Client Name: Dames and Moore  
 Client ID: MESP-Sol  
 Lab ID: 008144-0002-SA  
 Matrix: SOIL  
 Authorized: 20 JAN 90

Enseco ID: 1064810  
 Sampled: 18 JAN 90  
 Prepared: See Below

Received: 20 JAN 90  
 Analyzed: See Below

Parameter	Result	Units	Reporting Limit	Analytical Method	Prepared Date	Analyzed Date
Arsenic	ND	mg/L	0.1	6010	24 JAN 90	25 JAN 90
Barium	1.6	mg/L	0.01	6010	24 JAN 90	25 JAN 90
Cadmium	ND	mg/L	0.005	6010	24 JAN 90	25 JAN 90
Chromium	ND	mg/L	0.01	6010	24 JAN 90	25 JAN 90
Lead	ND	mg/L	0.05	6010	24 JAN 90	25 JAN 90
Silver	ND	mg/L	0.01	6010	24 JAN 90	25 JAN 90
Mercury	ND	mg/L	0.002	7470	24 JAN 90	25 JAN 90
Selenium	ND	mg/L	0.05	7740	24 JAN 90	25 JAN 90

ND = Not detected  
 NA = Not applicable

Reported By: Fred Velasquez

Approved By: Kimberly Conroy

# ANALYTICAL RESULTS FOR TOTAL CHROMATOGRAPHABLE ORGANICS

Client Name: DAMES AND MOORE

Client ID: BH-26 (Eastern Sludge Pit Sludge)

Laboratory ID: 67196-006

Enseco ID: 67196-006

Matrix: Waste

Sampled: 04/21/88

Received: 04/22/88

Authorized: 04/22/88

Prepared: 04/27/88

Analyzed: 04/29/88

	<u>Value</u>	<u>Units</u>	<u>Detection Limit</u>
Total Chromatographable Organics	130,000,000	ug/kg	170,000
Initial Boiling Point*	170	°C	-
Final Boiling Point*	500	°C	-
Gasoline	ND	ug/kg	1,400,000
Stoddard Solvent	ND	ug/kg	1,400,000
Jet Fuel	ND	ug/kg	1,400,000
Kerosene	ND	ug/kg	1,400,000
Diesel	**	ug/kg	1,400,000
Motor Oil	ND	ug/kg	17,000,000

\* The initial and final boiling points define the range of compounds detected. The method is capable of detecting compounds between 100°C and 500°C.

\*\* Primary components of this product were detected in the sample. Due to the overall complexity of the chromatogram, reliable identification of this product cannot be achieved.

METALS PARAMETERS  
TOTAL METALS

Client Name: DAMES AND MOORE

Client ID: BH-26

Laboratory ID: 67196-006

Enseco ID: 67196-006

Matrix: Waste

Sampled: 04/21/88

Received: 04/22/88

Authorized: 04/22/88

<u>Parameter</u>	<u>Result</u>	<u>Units (as received)</u>	<u>Reporting Limit</u>	<u>Analytical Method</u>	<u>Analyzed</u>
Arsenic	9.0	mg/kg	0.6	7060	05/06/88
Barium	63	mg/kg	0.5	6010	04/29/88
Cadmium	N.D.	mg/kg	0.5	6010	04/29/88
Chromium	12	mg/kg	1	6010	04/29/88
Lead	98	mg/kg	5	6010	04/29/88
Mercury	N.D.	ug/kg	50	7471	04/29/88
Selenium	N.D.	mg/kg	0.2	7740	05/05/88
Silver	N.D.	mg/kg	0.5	6010	04/29/88

N.D. = Not detected

Approved by: Will Pratt

Sample: 67196-006

## INORGANIC PARAMETERS

Client Name: DAMES AND MOORE

Client ID: BH-26

Laboratory ID: 67196-006

Enseco ID: 67196-006

Matrix: Waste

Sampled: 04/21/88

Received: 04/22/88

Authorized: 04/22/88

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Reporting Limit</u>	<u>Analytical Method</u>	<u>Analyzed</u>
Oil	51.3	%	0.1		05/03/88
Water	9.0	%	0.1		05/03/88
Solids	39.7	%	0.1		05/03/88

N.D. = Not detected

Approved by: Lindsay Breyer

Sample: 67196-006

COMPOSITE SURFICIAL SLUDGE/SOIL

(SITES 1,2 AND 3)



# COMMERCIAL TESTING & ENGINEERING CO.

GENERAL OFFICE: 1919 SOUTH HIGHLAND AVE., SUITE 210-B, LOMBARD, ILLINOIS 60148 • (708) 953-9300

Member of the SQS Group (Society of Quality Surveillance)

PLEASE ADDRESS ALL CORRESPONDENCE TO:  
490 ORCHARD ST., GOLDEN, CO 80401  
TELEPHONE: (303) 278-9621  
FAX: (303) 278-1779

Conservation Services Inc.  
777 West 62nd Avenue  
Denver, Colorado 80216

Date: July 11, 1990  
IAD #97-129880-01  
Received: 07/05/90

Attention: Mr. Mark A. Molen

Material: Oil (Surficial Sludge, Sites 1,2,3)

Procedure: EP Toxicity per EPA Reference SW-846, Test Methods for Evaluating Solid Wastes.

Results: EP Toxicity results are reported as milligrams per liter, (mg/L), on an extract basis.

The weight of the sample prepared for the analysis is reported in grams (gm).

The volume of 0.5N acetic acid required for the pH adjustment of the extract is reported in milliliters (ml).

The volume of de-ionized water added and final volume of the extract are also reported in milliliters (ml).

The initial and final pH values of each extract are reported directly.

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

*Byron C. Caton*  
Byron C. Caton  
Laboratory Manager

dld/ca19880



Conservation Services Inc.

IAD #97-129880-01

July 11, 1990

Page 2

EF Toxic Extract Elements

<u>Parameter</u>	<u>03847</u>
Arsenic, As	<0.2
Barium, Ba	0.03
Cadmium, Cd	<0.01
Chromium, Cr	<0.02
Lead, Pb	<0.05
Mercury, Hg	<0.0002
Selenium, Se	<0.2
Silver, Ag	<0.01
Sample Weight	100.0
Volume of 0.5N Acetic Acid required for pH adjustment	0
Volume of deionized water added to the extract	2,000
Final volume of the extract	2,000
Initial pH	4.3
Final pH	4.4

COMMERCIAL TESTING & ENGINEERING CO.

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F-448

CUSTOMER: ROCKY MTN. CONST. CONTACT: \_\_\_\_\_  
 WASTE CODE: CO-01-03847 MANIFEST NO.: \_\_\_\_\_  
 RECEIVED: DATE 7-3-90 TIME \_\_\_\_\_ VOLUME \_\_\_\_\_

PHYSICAL STATE (top to bottom 1 2 3 4) 1 LIQUID 1.0 % SOLID \_\_\_\_\_ %  
 OIL \_\_\_\_\_ % SLUDGE \_\_\_\_\_ % 2 OTHER oily sludge 99%  
 light brown/

DESCRIPTION COLOR brown ODOR mild LOOK \_\_\_\_\_

DENSITY 9.86 [ ] lb/cu.yd [x] lb/gal [ ] g/cc

MISCIBILITY Miscible in water? [x] yes [ ] no

SOLUBILITY Soluble in water? [ ] very [ ] slight [x] none

IGNITABILITY ZLEL - at - of

CLOSED CUP FLASH POINT > 150 of

CORROSIVITY INITIAL pH 7.5 ( 1.0 % sample solution)

REACTIVITY Any reactions with [ ] AIR [ ] WATER [ ] KILN DUST

ACID ADJUST: 20 ml of a 1.0 % sample solution  
 took 1.0 ml of 10% HCl, final pH 2.0  
 REACTIONS none

BASE ADJUST: 20 ml of a 1.0 % sample solution  
 took 1.0 ml of 10% NaOH, final pH 12.5  
 REACTIONS none

SULFIDES Spot test [ ] positive [ ] negative QUANTITATIVE -

CYANIDES QUANTITATIVE - AMMONIA QUANTITATIVE -

CHLORIDES Spot test [ ] very [ ] slight [x] none

RADIOACTIVITY Greater [ ] or Less [x] than background

SUSPENDED SOLIDS After Centrifuge - % of total volume

MOISTURE - % VISCOSITY - cp (centipoises)

COMMENTS Sludge liquifies during flashpoint test heating.  
 A composite of the 3 samples submitted was used for this analysis,  
 and the outside lab work.

AMOUNT OF SAMPLE REMAINING 1 qt.

ANALYST Al. Morales DATE 7-10-90

CUSTOMER: ROCKY MTN. CONST. DATE: 7-11-90  
WASTE CODE: CO-01- -03847

### SOLIDIFICATION REQUIREMENTS

KILN DUST TYPE M.M. WEIGHT OF WASTE 45 MLS=53.2 grams

WASTE/WATER RATIO 45 X WASTE 55 X WATER  
RATIO FIGURES START: 200 MLS KD=264.2 G  
FINISH: 151.55 MLS KD=200.2 G  
TOTAL: 48.45 MLS KD=64.0 G

$$\frac{200 \text{ MLS KD}}{x} = \frac{264.2 \text{ G KD}}{200.2 \text{ g. dust left}} \quad x = 151.55$$

KILN DUST TYPE WEIGHT OF WASTE MLS=

WASTE/WATER RATIO X WASTE X WATER  
RATIO FIGURES START: MLS KD= G  
FINISH: MLS KD= G  
TOTAL: MLS KD= G

$$\frac{200 \text{ MLS KD}}{x} = \frac{154.0 \text{ G KD}}{x}$$

RATIO 0.5 VOLUME INCREASE 1.25

COMMENTS

### NEUTRALIZATION REQUIREMENTS

STARTING SAMPLE VOLUME  
TITRANT USED: START FINISH MLS USED FINAL pH  
INDICATOR TYPE

To get a pH of approximately gallons of  
is needed for each of waste.

COMMENTS

ANALYST Ol. Mosler DATE 7/11/90