

**NM1-11**

**C-138**

**Date: 2000**

District I - (505) 393-6161  
 P.O. Box 1980  
 Hobbs, NM 88241-1980  
 District II - (505) 748-1283  
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 NM 87410  
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New Mexico  
 Energy Minerals and Natural Resources Department  
 Oil Conservation Division  
 2040 South Pacheco Street  
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 (505) 827-7131

Form C-138  
 Originated 8/8/95  
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Env. JN: \_\_\_\_\_

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input checked="" type="checkbox"/> Non-Exempt: <input type="checkbox"/>	4. Generator <u>NATCO</u>
Verbal Approval Received: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	5. Originating Site <u>Main Yard</u>
2. Management Facility Destination <u>Envirotech Soil Remediation Facility Landfarm #2</u>	6. Transporter <u>Envirotech</u>
3. Address of Facility Operator <u>5796 US Highway 64 Farmington, NM 87401</u>	8. State <u>New Mexico</u>
7. Location of Material (Street Address or ULSTR)	<u>2855 Southside River Rd. Farmington, NM.</u>
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

Sludge & solids from refurbishing oil & gas production tanks, separators & dehydrators.  
 equipment list attached  
 Worms screen attached



Estimated Volume 5 drums cy Known Volume (to be entered by the operator at the end of the haul) 5 drums cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 6-9-00  
 Waste Management Facility Authorized Agent  
 TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Denny Faust TITLE: Geologist DATE: 6/15/00  
 APPROVED BY: [Signature] TITLE: Geologist DATE: 6/15/00



**NEW MEXICO ENERGY, MINERALS  
& NATURAL RESOURCES DEPARTMENT**

OIL CONSERVATION DIVISION  
AZTEC DISTRICT OFFICE  
1000 RIO BRAZOS ROAD  
AZTEC, NEW MEXICO 87410  
(505) 334-0170 Fax (505) 334-0170

GARY E. JOHNSON  
GOVERNOR

JENNIFER A. SALISBURY  
CABINET SECRETARY

**CERTIFICATE OF WASTE STATUS**

<p>1. Generator Name and Address: Nateco, 2855 Souths. de River RD.</p>	<p>2. Destination Name: Envirotech Inc. Soil Remediation Remediation Facility Landfarm #2, Hilltop, New Mexico 5796 IIS Hwy 64, Farmington, NM 87401</p>
<p>3. Originating Site (name):  See Attached List.</p>	<p>Location of the Waste (Street address &amp;/or ULSTR):</p>
<p>4. Source and Description of Waste  Sludge and Solids From oil and gas production units that were cleaned</p>	

I, Richard Lambert representative for:  
Nateco (Print Name)

do hereby certify that, according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July, 1988, regulatory determination, the above described waste is: (Check appropriate classification)

EXEMPT oilfield waste       NON-EXEMPT oilfield waste which is non-hazardous by characteristic analysis or by product identification

and that nothing has been added to the exempt or non-exempt non-hazardous waste defined above.

For NON-EXEMPT waste the following documentation is attached (check appropriate items):

- MSDS Information       Other (description):
- RCRA Hazardous Waste Analysis
- Chain of Custody

This waste is in compliance with Regulated Levels of Naturally Occurring Radioactive Material (NORM) pursuant to 20 NMAC 3.1 subpart 1403.C and D.

Name (Original Signature): Richard Lambert

Title: Shop Supervisor

Date: 6/9/00







# NATCO

## INSPECTION FOR N.O.R.M. CONTAMINATION

Location: Natco's Yard (Wash Luck Area) Date: 6-6-00

Survey instrument model: 3-98 (Mid Ludlum) Last calibrated: 8-12-99

Item description: 5 - Blue Disposal barrels

Number of pieces: 5

Location where items originated: From Production Equip. Marked on Wash Deck

Background reading: 17 uR/hr

Highest NORM reading: 20 uR/hr (corrected for background)

Lowest NORM reading: 15 uR/hr (corrected for background)

Any samples taken? If so, how many? 0

5 Pieces inspected.

5 Pieces found to be free of NORM contamination.

0 Pieces found to have NORM contamination.

Remarks: 5 - Disposal barrels are free to be disposed of.

Inspector: Jesse Manzanarez

What is final disposition? Free to be disposed of

Released to: Envirotech Date: 6-6-00

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 Rio Brazos Road  
 Socorro, NM 87410  
 District IV - (505) 827-7131

New Mexico  
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Env. JN: 92142

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input checked="" type="checkbox"/> Non-Exempt: <input type="checkbox"/>	4. Generator <u>PESCO</u>
Verbal Approval Received: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	5. Originating Site <u>Maris Yard</u>
2. Management Facility Destination <u>Envirotech Soil Remediation Facility Landfarm #2</u>	6. Transporter <u>Serrano's</u>
3. Address of Facility Operator <u>5796 US Highway 64 Farmington, NM 87401</u>	8. State <u>New Mexico</u>
7. Location of Material (Street Address or ULSTR)	<u>5680 US Hwy 64 Farmington, NM</u>
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.  All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

Solids generated from cleaning and refurbishing production storage tanks, separators, dehydrators, and other production equipment. (16 bbl 55 gal Tanks).



Estimated Volume 100 bbl cy Known Volume (to be entered by the operator at the end of the haul) 160 bbl/cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 6.9.00  
 Waste Management Facility Authorized Agent  
 TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Denny G. Fount TITLE: Environmental Geol DATE: 6/15/00  
 APPROVED BY: [Signature] TITLE: geologist DATE: 6/15/00

## CERTIFICATE OF WASTE STATUS

<b>1. Generator Name and Address:</b> PESCO 5680 Highway 64 Farmington, New Mexico 87401	<b>2. Destination Name:</b> Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico
<b>3. Originating Site (name):</b> Process Equipment & Service Company 5680 US Highway 64 Farmington, New Mexico 87401  Attach list of originating sites as appropriate	<b>Location of the Waste (Street address &amp;/or ULSTR):</b> Mainyard, stored in 55 gallon drums & 18 Cubic Foot Steel Boxes.
<b>4. Source and Description of Waste</b> Solids generated from cleaning and refurbishing production storage tanks, separators, dehydrators, and other production equipment.	

I, Gary Howe representative for:  
 (Print Name)  
Process Equipment and Service Company, Inc. do hereby certify that,  
 according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July,  
 1988, regulatory determination, the above described waste is: (Check appropriate classification)

EXEMPT oilfield waste       NON-EXEMPT oilfield waste which is non-hazardous by characteristic analysis or by product identification

and that nothing has been added to the exempt or non-exempt non-hazardous waste defined above.

For NON-EXEMPT waste only the following documentation is attached (check appropriate items):

- |  |   |
|--|---|
| <input type="checkbox"/> MSDS Information              | <input type="checkbox"/> Other (description): |
| <input type="checkbox"/> RCRA Hazardous Waste Analysis |   |
| <input type="checkbox"/> Chain of Custody              |   |

Name (Original Signature): *Gary Howe*  
 Title: Safety Director  
 Date: 6-9-00



# Process Equipment & Service Company, Inc.

5680 U.S. HIGHWAY 64 • 87401 / P.O. BOX 929 • 87499  
FARMINGTON, NEW MEXICO  
PHONE: (505) 327-2222 • FAX: (505) 327-7550

## NORM SURVEY DATA SHEET

Facility / location: PESCO Date: 6-8-00

Meter Model: DOSIMETER 3007A Serial No: 9808-238

Detector Model: DOSIMETER 3012 Serial No: 201-887-7100

Calibration Date: 4-5-99

Battery Check: (X)

Background Radiation Level: 0.03 mR/hr

Description of material surveyed:

Two pits

### Item / Material Surveyed:

Waste Material: 60 Bbls approx. gals

Equipment:

mR/hr: 0.03

Manufacturer: \_\_\_\_\_

Serial No: \_\_\_\_\_

Description: \_\_\_\_\_

Job No: \_\_\_\_\_

Comments:

Waste sludge from cleaning Oil + Gas  
field Equipment from field

Survey Conducted by:

GARY W HOWE

(Print Name)

Gary W Howe

(Signature)

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 Artesia, NM 88210  
 District III - (505) 334-6178  
 Rio Brazos Road  
 Roswell, NM 87410  
 District IV - (505) 827-7131

New Mexico  
 Energy Minerals and Natural Resources Department  
 Oil Conservation Division  
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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input checked="" type="checkbox"/> Non-Exempt: <input type="checkbox"/> Verbal Approval Received: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	4. Generator <u>Richardson OPERATING</u>
2. Management Facility Destination <u>Envirotech Soil Remediation Facility Landfarm #2</u>	5. Originating Site <u>CR. 6500</u>
3. Address of Facility Operator <u>5796 US Highway 64 Farmington, NM 87401</u>	6. Transporter <u>Envirotech</u>
7. Location of Material (Street Address or ULSTR) <u>N. Bad Lane CR. 6500 @ Hwy 64, Kirtland.</u>	8. State <u>New Mexico</u>
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

Cleanup of crude oil spilled on pavement @ intersect. of Hwy 64 and CR. 6500 when a tank (production) was being moved from the Kirtland 3-1 well location



Estimated Volume 12 cy Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_ cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 6.9.00  
 Waste Management Facility Authorized Agent  
 TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Denny Foust TITLE: Geologist DATE: 6/15/00  
 APPROVED BY: [Signature] TITLE: Geologist DATE: 6/15/00



NEW MEXICO ENERGY, MINERALS  
& NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION  
AZTEC DISTRICT OFFICE  
1000 RIO BRAZOS ROAD  
AZTEC, NEW MEXICO 87410  
(505) 334-6170 Fax (505) 334-6170

GARY E. JOHNSON  
GOVERNOR

JENNIFER A. SALISBURY  
CABINET SECRETARY

## CERTIFICATE OF WASTE STATUS

<p>1. Generator Name and Address:  <u>RICHARDSON Operating</u>  <u>3100 La Plata Hwy</u>  <u>FARMINGTON, NM. 87401</u></p>	<p>2. Destination Name:  <u>Envirotech Inc.</u>  <u>Soil Remediation Remediation Facility</u>  <u>Landfarm #2, Hilltop, New Mexico</u>  <u>5796 US Hwy 64, Farmington, NM 87401</u></p>
<p>3. Originating Site (name):  <u>Kirtland 3-1</u></p>	<p>Location of the Waste (Street address &amp;/or ULSTR):  <u>Hwy 64 @ CR 6500</u></p>
<p>Attach list of originating sites as appropriate</p>	
<p>4. Source and Description of Waste  <u>Clean up of residual crude oil spilled during</u>  <u>transport of TANK. (± 15 gallons of crude oil).</u></p>	

I, JOHN Durham representative for:  
 (Print Name)  
RICHARDSON Operating do hereby certify that,  
 according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July,  
 1988, regulatory determination, the above described waste is: (Check appropriate classification)

EXEMPT oilfield waste       NON-EXEMPT oilfield waste which is non-hazardous by characteristic analysis or by product identification

and that nothing has been added to the exempt or non-exempt non-hazardous waste defined above.

For NON-EXEMPT waste the following documentation is attached (check appropriate items):

MSDS Information       Other (description):  
 RCRA Hazardous Waste Analysis  
 Chain of Custody

This waste is in compliance with Regulated Levels of Naturally Occurring Radioactive Material (NORM) pursuant to 20 NMAC 3.1 subpart 1403.C and D.

Name (Original Signature): John Durham

Title: OP Manager

Date: 6/2/00

District I - (505) 393-6161  
 P.O. Box 1950  
 Hobbs, NM 88241-1980  
 District II - (505) 748-1283  
 811 S. First  
 Artesia, NM 88210  
 District III - (505) 334-6178  
 Rio Brazos Road  
 Alamogordo, NM 87410  
 District IV - (505) 827-7131

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 Energy Minerals and Natural Resources Department  
 Oil Conservation Division  
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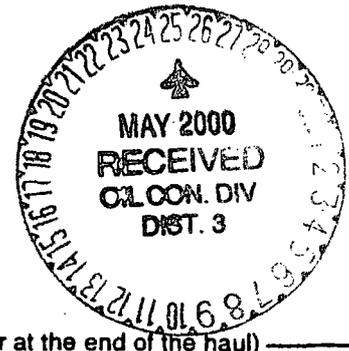
Env. JN: \_\_\_\_\_

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input checked="" type="checkbox"/> Non-Exempt: <input type="checkbox"/> Verbal Approval Received: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Dennis Faust 4.10.00 13:00	4. Generator Richardson Oleum
2. Management Facility Destination Envirotech Soil Remedia. Facility Landfarm #2	5796 US Highway 64 Farmington, NM 87401	5. Originating Site Spill on CR 6500
3. Address of Facility Operator	5796 US Highway 64 Farmington, NM 87401	6. Transporter Envirotech
7. Location of Material (Street Address or ULSTR)	Northland Lane CR. 6500 Highway 64 to 200yd North	8. State New Mexico
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.		

BRIEF DESCRIPTION OF MATERIAL:

Crude oil spill on pavement. soil used to  
 cleanup. crude was transported to LF#2  
 (4.10.00 upset)



Estimated Volume 12 cy Known Volume (to be entered by the operator at the end of the haul) 9 cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 5.25.00  
 Waste Management Facility Authorized Agent  
 TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Dennis G. Faust TITLE: Geologist DATE: 5/26/00  
 APPROVED BY: Charlie Perrin TITLE: Deputy O&G Inspector DATE: 5/26/00



# NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION  
AZTEC DISTRICT OFFICE  
1000 RIO GRAZOS ROAD  
AZTEC, NEW MEXICO 87410  
(505) 334-6178 Fax (505) 334-6179

GARY E. JOHNSON  
GOVERNOR

JENNIFER A. SALISBURY  
CABINET SECRETARY

## CERTIFICATE OF WASTE STATUS

<b>1. Generator Name and Address:</b> Richard SON operating 3100 LAPLATA Farmington	<b>2. Destination Name:</b> Envirotech Inc. Soil Remediation Remediation Facility Landfarm #2, Hilltop, New Mexico 5796 IIS Hwy 64, Farmington, NM 87401
<b>3. Originating Site (name):</b> Kirtland 3-1  <small>Attach list of originating sites as appropriate</small>	<b>Location of the Waste (Street address &amp;/or ULSTR):</b>
<b>4. Source and Description of Waste</b> 15 BALS OF Produced oil THAT WAS LEFT IN WATER STORAGE TANK	

I, John Rushton (Print Name) representative for:

Richardson operating do hereby certify that, according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July, 1988, regulatory determination, the above described waste is: (Check appropriate classification)

EXEMPT oilfield waste       NON-EXEMPT oilfield waste which is non-hazardous by characteristic analysis or by product identification

and that nothing has been added to the exempt or non-exempt non-hazardous waste defined above.

For NON-EXEMPT waste the following documentation is attached (check appropriate items):

- MSDS Information       Other (description):
- RCRA Hazardous Waste Analysis
- Chain of Custody

This waste is in compliance with Regulated Levels of Naturally Occurring Radioactive Material (NORM) pursuant to 20 NMAC 3.1 subpart 1403.C and D.

Name (Original Signature): John Rushton

Title: Op. Man

Date: 5/24

District I - (505) 393-6161  
 P. O. Box 1980  
 Hobbs, NM 88241-1980  
 District II - (505) 748-1283  
 811 S. First  
 Artesia, NM 88210  
 District III - (505) 334-6178  
 Rio Brazos Road  
 Farmington, NM 87410  
 District IV - (505) 827-7131

**New Mexico**  
**Energy Minerals and Natural Resources Department**  
**Oil Conservation Division**  
 2040 South Pacheco Street  
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Env. JN: 97057-

**REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE**

1. RCRA Exempt: <input checked="" type="checkbox"/> Non-Exempt: <input type="checkbox"/> Verbal Approval Received: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	4. Generator <u>EPFS.</u> 5. Originating Site <u>Jaquez Cont #1 #E1</u> 6. Transporter <u>Phillip Services</u> 8. State <u>New Mexico</u>
2. Management Facility Destination <u>Envirotech Soil Remediation Facility Landfarm #2</u> 3. Address of Facility Operator <u>5796 US Highway 64 Farmington, NM 87401</u>	7. Location of Material (Street Address or ULSTR) <u>N Tzanraw SJC. sec 6</u>
9. <u>Circle One:</u> A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.  All transporters must certify the wastes delivered are only those consigned for transport.	

**BRIEF DESCRIPTION OF MATERIAL:**

petroleum hydrocarbon soil generated @ cleanup of  
 Drip pit.



Estimated Volume 60 cy Known Volume (to be entered by the operator at the end of the haul) 118 cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 6.13.00  
Waste Management Facility Authorized Agent  
 TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

**(This space for State Use)**

APPROVED BY: Denny Faust TITLE: Geologist DATE: 6/15/00  
 APPROVED BY: [Signature] TITLE: Geologist DATE: 6/15/00

## CERTIFICATE OF WASTE STATUS

<b>1. Generator Name and Address:</b>  El Paso Field Services Co. 614 Reilly Avenue Farmington, NM 87401	<b>2. Destination Name:</b>  Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico
<b>3. Originating Site (name):</b> Jaquez Com C#1 and E #1 <b>Location of Waste(Street address &amp;/or ULSTR):</b> T29N,R9W, Sec. 6  Attach list of originating sites as appropriate	
<b>4. Source and Description of Waste</b> Contaminated soil. Contamination originating from drip pit.	

I, Scott Pope representative for:  
 (Print Name)

El Paso Field Services Co. do hereby certify that,  
 according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July,  
 1988 regulatory determination, the above described waste is: (Check appropriate classification)

**EXEMPT** Oilfield waste       **NON-EXEMPT** oilfield waste which is non-hazardous by  
 characteristic analysis or by product identification

and that nothing has been added to the exempt or non-hazardous waste defined above.

For **NON-EXEMPT** waste only, the following documentation is attached (check appropriate items):

- MSDS Information       Other (description)
- RCRA Hazardous Waste Analysis
- Chain of Custody

Name (Original Signature): 

Title: Senior Environmental Scientist

Date: 6/13/00

District I - (505) 393-6161  
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New Mexico  
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 Oil Conservation Division  
 2040 South Pacheco Street  
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 Oil Conservation Division

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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/>	Denny Faust 5:26:00 9:50	4. Generator	CF&M
Verbal Approval Received: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		5. Originating Site	AZTEC Moto Cross
2. Management Facility Destination	Envirotech Soil Remedia. Facility Landfarm #2	6. Transporter	CF&M
3. Address of Facility Operator	5796 US Highway 64 Farmington, NM 87401	8. State	New Mexico
7. Location of Material (Street Address or ULSTR)			Sec 12, T30N, R11W San Juan County, NM
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.			

BRIEF DESCRIPTION OF MATERIAL:

lube oil (?). discharge @ motocross track

(Burlington Site Compressor site)  
~~spill~~ spill



Estimated Volume 60 cy Known Volume (to be entered by the operator at the end of the haul) 10 cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 06-08-00  
 Waste Management Facility Authorized Agent  
 TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Denny Faust TITLE: Geologist DATE: 6/15/00  
 APPROVED BY: Martyn G'Kelly TITLE: Environmental Geologist DATE: 6/19/00

District I - (505) 393-6161  
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Env. JN: 50650-01

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/>	Dennis Faust 5:26:00 9:50	4. Generator <u>CF&amp;M</u>
Verbal Approval Received: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		5. Originating Site <u>AZTEC Moto Cross</u>
2. Management Facility Destination <u>Envirotech Soil Remediation Facility Landfarm #2</u>		6. Transporter <u>CF&amp;M</u>
3. Address of Facility Operator <u>5796 US Highway 64 Farmington, NM 87401</u>		8. State <u>New Mexico</u>
7. Location of Material (Street Address or ULSTR)		<u>Sec 12, T30N, R11W San Juan County, NM</u>
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.  All transporters must certify the wastes delivered are only those consigned for transport.		

BRIEF DESCRIPTION OF MATERIAL:

Lube oil (?). discharge @ motocross track



Estimated Volume 60 cy Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_ cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 06-08-00  
 Waste Management Facility Authorized Agent  
 TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Dennis Faust TITLE: Geologist DATE: 6/15/00

APPROVED BY: \_\_\_\_\_ TITLE: \_\_\_\_\_ DATE: \_\_\_\_\_



**NEW MEXICO ENERGY, MINERALS  
& NATURAL RESOURCES DEPARTMENT**

OIL CONSERVATION DIVISION  
AZTEC DISTRICT OFFICE  
1800 RIO BRAZOS ROAD  
AZTEC, NEW MEXICO 87410  
(505) 334-6170 Fax (505) 334-6170

GARY E. JOHNSON  
GOVERNOR

JENNIFER A. SALISBURY  
CABINET SECRETARY

**CERTIFICATE OF WASTE STATUS**

<b>1. Generator Name and Address:</b> CF&M OIL FIELD SERVICE INC #37 COUNTY ROAD 5267 FARMINGTON NM 87401	<b>2. Destination Name:</b> Envirotech Inc. Soil Remediation Remediation Facility Landfarm #2, Hilltop, New Mexico 5796 US Hwy 64, Farmington, NM 87401
<b>3. Originating Site (name):</b> <span style="float: right;"><b>Location of the Waste (Street address &amp;/or ULSTR):</b></span> AZTEC MOTOCROSS TRACK. AZTEC NEW MEXICO UNIT "O" SEC. 12, TOWNSHIP 30 NORTH, RANGE 11 WEST 1220 FT FROM SOUTHLINE, 1813 FT FROM WESTLINE SAN JUAN COUNTY  <small>Attach list of originating sites as appropriate</small>	
<b>4. Source and Description of Waste</b> OIL FIELD WASTE RESIDUAL OIL FROM THE TRUCK TANK BOTTOMS	

I, GERRY FOXWELL representative for:  
(Print Name)

CF&M OIL FIELD SERVICES INC do hereby certify that,  
 according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July,  
 1988, regulatory determination, the above described waste is: (Check appropriate classification)

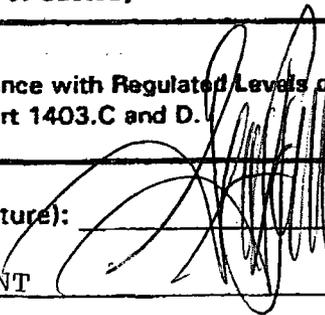
EXEMPT oilfield waste       NON-EXEMPT oilfield waste which is non-hazardous by characteristic  
 analysis or by product identification

and that nothing has been added to the exempt or non-exempt non-hazardous waste defined above.

For NON-EXEMPT waste the following documentation is attached (check appropriate items):

- MSDS Information       Other (description):  
 RCRA Hazardous Waste Analysis  
 Chain of Custody

This waste is in compliance with Regulated Levels of Naturally Occurring Radioactive Material (NORM) pursuant  
 to 20 NMAC 3.1 subpart 1403.C and D.

Name (Original Signature): 

Title: PRESIDENT

Date: 06/07/00

Client:	CF & M	Project #:	005001
Sample ID:	5 Point on North Jumps	Date Reported:	05-26-00
Laboratory Number:	H341	Date Sampled:	05-25-00
Chain of Custody:	7886	Date Received:	05-25-00
Sample Matrix:	Soil	Date Analyzed:	05-26-00
Preservative:	Cool	Date Digested:	05-26-00
Condition:	Cool & Intact	Analysis Needed:	RCRA Metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)
Arsenic	0.124	0.002
Barium	1.20	0.002
Cadmium	0.126	0.002
Chromium	0.188	0.002
Lead	0.472	0.002
Mercury	0.006	0.002
Selenium	ND	0.002
Silver	0.028	0.002

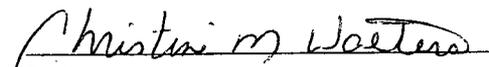
ND - Parameter not detected at the stated detection limit.

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

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

Comments: **Aztec Motor Cross Track.**

  
Analyst

  
Review

TRACE METAL ANALYSIS  
Quality Control /  
Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	05-26-TM QA/QC	Date Reported:	05-26-00
Laboratory Number:	H341	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	Trace Metals	Date Analyzed:	05-26-00
Condition:	N/A	Date Digested:	05-26-00

Blank & Duplicate Conc. (mg/L)	Instrument Blank (mg/L)	Method Blank	Detection Limit	Sample	Duplicate	% Diff.	Acceptance Range
Arsenic	ND	ND	0.002	0.124	0.128	3.2%	0% - 30%
Barium	ND	ND	0.002	1.20	1.20	0.0%	0% - 30%
Cadmium	ND	ND	0.002	0.126	0.126	0.0%	0% - 30%
Chromium	ND	ND	0.002	0.188	0.190	1.1%	0% - 30%
Lead	ND	ND	0.002	0.472	0.470	0.4%	0% - 30%
Mercury	ND	ND	0.002	0.006	0.006	0.0%	0% - 30%
Selenium	ND	ND	0.002	ND	ND	0.0%	0% - 30%
Silver	ND	ND	0.002	0.028	0.028	0.0%	0% - 30%

Spike Conc. (mg/L)	Spike Added	Sample	Spiked Sample	Percent Recovery	Acceptance Range
Arsenic	1.00	0.124	1.12	100%	80% - 120%
Barium	1.00	1.20	2.20	100%	80% - 120%
Cadmium	1.00	0.126	1.12	99%	80% - 120%
Chromium	1.00	0.188	1.19	100%	80% - 120%
Lead	1.00	0.472	1.47	100%	80% - 120%
Mercury	0.100	0.006	0.104	98%	80% - 120%
Selenium	1.00	ND	0.996	100%	80% - 120%
Silver	1.00	0.028	1.03	100%	80% - 120%

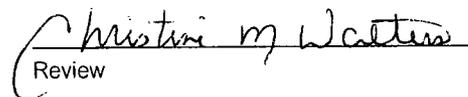
ND - Parameter not detected at the stated detection limit.

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

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

Comments: QA/QC for sample H341.

  
Analyst

  
Review

# CHAIN OF CUSTODY RECORD

7886

Client / Project Name <b>CFEM</b>			Project Location <b>AZTEL Motor Cross Track.</b>		ANALYSIS / PARAMETERS						
Sampler: <b>HARLAN W BROWN</b>			Client No. <b>00050-01</b>		No. of Containers <b>PCRA 8 units.</b>						Remarks
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix							
<b>5 Point. on North jumps</b>	<b>5-25-00</b>	<b>13:30</b>	<b>H341</b>	<b>Soil</b>	<b>1</b>	<b>✓</b>					

Relinquished by: (Signature) <b>HARLAN W BROWN</b>	Date <b>5-25-00</b>	Time <b>14:10</b>	Received by: (Signature) <b>Jim L. Ap... ..</b>	Date <b>5-25-00</b>	Time <b>14:10</b>
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

**ENVIROTECH INC.**

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

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

District I - (505) 393-6161  
 P.O. Box 1980  
 Hobbs, NM 88241-1980  
 District II - (505) 748-1283  
 811 S. First  
 Artesia, NM 88210  
 District III - (505) 334-6178  
 Rio Brazos Road  
 NM 87410  
 District IV - (505) 827-7131

New Mexico  
 Energy Minerals and Natural Resources Department  
 Oil Conservation Division  
 2040 South Pacheco Street  
 Santa Fe, New Mexico 87505  
 (505) 827-7131

Form C-138  
 Originated 8/8/95

Submit Original  
 Plus 1 Copy  
 to appropriate  
 District Office

Env. JN: 97057

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input checked="" type="checkbox"/> Non-Exempt: <input type="checkbox"/> Verbal Approval Received: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> <i>Denny Faust verbal 6:5:00 12:10</i>	4. Generator <u>EPFS</u>
2. Management Facility Destination <u>Envirotech Soil Remediation Facility Landfarm #2</u>	5. Originating Site <u>Kutz Separator</u>
3. Address of Facility Operator <u>5796 US Highway 64 Farmington, NM 87401</u>	6. Transporter <u>Island</u>
7. Location of Material (Street Address or ULSTR)	8. State <u>New Mexico</u>
9. <u>Circle One:</u> A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.	



BRIEF DESCRIPTION OF MATERIAL:  
Coal fines & hydrocarbon sledge from exempt field liquids

Estimated Volume 80 bbl cy Known Volume (to be entered by the operator at the end of the haul) 16066/5 cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 6.6.00  
Waste Management Facility Authorized Agent  
 TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Denny Faust TITLE: Geologist DATE: 6/8/00  
 APPROVED BY: Chuck Perry TITLE: Deputy Oil Conservation Director DATE: 6/8/00

## CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:  El Paso Field Services Co. 614 Reilly Avenue Farmington, NM 87401	2. Destination Name:  Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico
3. Originating Site (name):  Kutz Hydrocarbon Recovery Facility	Location of Waste(Street address &/or ULSTR):  Sec. 11, T29N, R11W, San Juan County, NM
Attach list of originating sites as appropriate	
4. Source and Description of Waste  Coal fines and hydrocarbon sludge from exempt field liquids	

I, David Bays representative for:  
 (Print Name)

El Paso Field Services Co. do hereby certify that, according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July, 1988 regulatory determination, the above described waste is: (Check appropriate classification)

**EXEMPT** Oilfield waste       **NON-EXEMPT** oilfield waste which is non-hazardous by characteristic analysis or by product identification

and that nothing has been added to the exempt or non-hazardous waste defined above.

For **NON-EXEMPT** waste only, the following documentation is attached (check appropriate items):

MSDS Information       Other (description)  
 RCRA Hazardous Waste Analysis  
 Chain of Custody

Name (Original Signature): David Bays

Title: Principal Environmental Scientist

Date: June 6, 2000

District I - (505) 393-6161  
 P. O. Box 1980  
 Hobbs, NM 88241-1980  
 District II - (505) 748-1283  
 811 S. First  
 Artesia, NM 88210  
 District III - (505) 334-6178  
 Rio Brazos Road  
 NM 87410  
 District IV - (505) 827-7131

New Mexico  
 Energy Minerals and Natural Resources Department  
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 MAY 22 2000  
 Environmental Bureau  
 Oil Conservation Division  
 2040 South Pacheco Street  
 Santa Fe, New Mexico 87505  
 (505) 827-7131

Form C-138  
 Originated 8/8/95

Submit Original  
 Plus 1 Copy  
 to appropriate  
 District Office

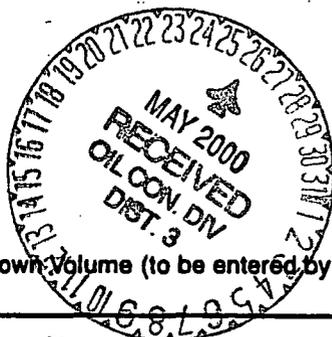
Env. JN: 92132

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/>	4. Generator <u>Halliburton Energy Service</u>
Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	5. Originating Site <u>Main Road</u>
2. Management Facility Destination <u>Envirotech Soil Remediation Facility Landfarm #2</u>	6. Transporter <u>Envirotech</u>
3. Address of Facility Operator <u>5796 US Highway 64 Farmington, NM 87401</u>	8. State <u>New Mexico</u>
7. Location of Material (Street Address or ULSTR)	<u>4109 E. Main St. Farmington, NM 87401</u>
9. <u>Circle One:</u> A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.  All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

Continuation of wash bay solids  
TRCP & Reaffirmation Statement Attached



Estimated Volume 40 cy Known Volume (to be entered by the operator at the end of the haul) 53 cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 5-17-00  
 Waste Management Facility Authorized Agent  
 TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Denny G. Fount TITLE: Geologist DATE: 5/18/00

APPROVED BY: [Signature] TITLE: S. ... DATE: 5/22/00

District I - (505) 393-6161  
 P.O. Box 1980  
 Hobbs, NM 88241-1980  
 District II - (505) 748-1283  
 811 S. First  
 Artesia, NM 88210  
 District III - (505) 334-6178  
 Rio Brazos Road  
 Artesia, NM 87410  
 District IV - (505) 827-7131

New Mexico  
 Energy Minerals and Natural Resources Department  
 Oil Conservation Division  
 2040 South Pacheco Street  
 Santa Fe, New Mexico 87505  
 (505) 827-7131

Form C-138  
 Originated 8/8/95

Submit Original  
 Plus 1 Copy  
 to appropriate  
 District Office

Env. JN: 92132

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/>	4. Generator <u>Halliburton Energy Service</u>
Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	5. Originating Site <u>Main Land</u>
2. Management Facility Destination <u>Envirotech Soil Remediation Facility Landfarm #2</u>	6. Transporter <u>Envirotech</u>
3. Address of Facility Operator <u>5796 US Highway 64 Farmington, NM 87401</u>	8. State <u>New Mexico</u>
7. Location of Material (Street Address or ULSTR)	<u>4109 E. Main St. Farmington, NM 87401</u>
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.  All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

Continuation of wash bay solids  
 TCEP & Reaffirmation Statement



Estimated Volume 40 cy Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_ cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 5-17-00  
 Waste Management Facility Authorized Agent  
 TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Denny Z. Fent TITLE: Geologist DATE: 5/18/00  
 APPROVED BY: \_\_\_\_\_ TITLE: \_\_\_\_\_ DATE: \_\_\_\_\_

RECEIVED MAY 17 2000



NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
AZTEC DISTRICT OFFICE
1000 RIO BRAZOS ROAD
AZTEC, NEW MEXICO 87410
(505) 334-6178 Fax (505) 334-6170

GARY E. JOHNSON
GOVERNOR

JENNIFER A. SALISBURY
CABINET SECRETARY

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address: Halliburton Energy Service, 4109 E Main, Farmington N Mexico 87401
2. Destination Name: Envirotech Inc., Soil Remediation Remediation Facility, Landfarm #2, Hilltop, New Mexico, 5796 US Hwy 64, Farmington, NM 87401
3. Originating Site (name): Wash Bay (S) above Holding Area
Location of the Waste (Street address &/or ULSTR): 4109 E Main, Farmington N Mex
4. Source and Description of Waste: Wash Bay solids (continuation)

I, DOUG HODGES representative for:

Halliburton Energy Service (Print Name)

do hereby certify that, according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July, 1988, regulatory determination, the above described waste is: (Check appropriate classification)

EXEMPT oilfield waste

NON-EXEMPT oilfield waste which is non-hazardous by characteristic analysis or by product identification

and that nothing has been added to the exempt or non-exempt non-hazardous waste defined above.

For NON-EXEMPT waste the following documentation is attached (check appropriate items):

- MSDS Information
RCRA Hazardous Waste Analysis
Chain of Custody
Other (description):

This waste is in compliance with Regulated Levels of Naturally Occurring Radioactive Material (NORM) pursuant to 20 NMAC 3.1 subpart 1403.C and D.

Name (Original Signature): Doug Hodges

Title: Maintenance Supervisor

Date: 5/16/00

# ENVIROTECH INC.

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

RECEIVED MAY 17 2000

## REAFFIRMATION OF WASTE STATUS / NON-EXEMPT WASTE

I hereby certify that the attached Request For Approval and Certificate of Waste Status are for materials generated using the same procedures and equipment employed to generate the waste on which Toxicity Characteristic Leaching Procedures (TCLP) analysis was performed. I further certify that said material is from operations in the immediate Four Corners area.

Date of TCLP 12-10-00

Printed Name DOUG HODGES

Title / Agency Chautauque Supervision

Address 4109 E Main

Farmington N Mex

Signature Doug Hodges

Date 5/16/00

February 17, 2000

Mr. Doug Hodges  
Halliburton Energy Services  
4109 E. Main  
Farmington, NM 87402

Phone: (505) 325-3575

Client No.: 92132-01

Job No.: 213201

Dear Mr. Hodges,

Enclosed are the analytical results for the sample collected from the location designated as "4109 E. Main, Farmington, NM". One sludge sample was collected by Envirotech personnel on 2/10/00, and received by the Envirotech laboratory on 2/10/00 for TCLP W/O Herbicides and Pesticides.

The sample was documented on Envirotech Chain of Custody No. 7673 and assigned Laboratory No. G811 (Wash Bay Sludge) for tracking purposes.

The sample was analyzed 2/10/00 through 2/16/00 using USEPA or equivalent methods.

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

Respectfully submitted,  
**Envirotech, Inc.**

  
Christine M. Walters  
Laboratory Coordinator / Environmental Scientist

enc.

CMW/cmw

C:/files/labreports/Hall.wpd

## SUSPECTED HAZARDOUS WASTE ANALYSIS

Client:	Halliburton Energy Services	Project #:	213201
Sample ID:	Wash Bay Sludge	Date Reported:	02-10-00
Lab ID#:	G811	Date Sampled:	02-10-00
Sample Matrix:	Sludge	Date Received:	02-10-00
Preservative:	Cool	Date Analyzed:	02-10-00
Condition:	Cool and Intact	Chain of Custody:	7673

Parameter	Result
-----------	--------

<b>IGNITABILITY:</b>	<b>Negative</b>	
<b>CORROSIVITY:</b>	<b>Negative</b>	<b>pH = 7.60</b>
<b>REACTIVITY:</b>	<b>Negative</b>	

RCRA Hazardous Waste Criteria

Parameter	Hazardous Waste Criterion
IGNITABILITY:	Characteristic of Ignitability as defined by 40 CFR, Subpart C, Sec. 261.21. (i.e. Sample ignition upon direct contact with flame or flash point < 60° C.)
CORROSIVITY:	Characteristic of Corrosivity as defined by 40 CFR, Subpart C, Sec. 261.22. (i.e. pH less than or equal to 2.0 or pH greater than or equal to 12.5 )
REACTIVITY:	Characteristic of Reactivity as defined by 40 CFR, Subpart C, Sec. 261.23. (i.e. Violent reaction with water, strong base, strong acid, or the generation of Sulfide or Cyanide gases at STP with pH between 2.0 and 12.5)

Reference: 40 CFR part 261 Subpart C sections 261.21 - 261.23, July 1, 1992.

Comments: 4109 E. Main, Farmington, NM.

  
Analyst

  
Review

Client:	Halliburton Energy Services	Project #:	213201
Sample ID:	Wash Bay Sludge	Date Reported:	02-16-00
Laboratory Number:	G811	Date Sampled:	02-10-00
Chain of Custody:	7673	Date Received:	02-10-00
Sample Matrix:	TCLP Extract	Date Extracted:	02-11-00
Preservative:	Cool	Date Analyzed:	02-14-00
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	0.0429	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	0.0066	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

ND - Parameter not detected at the stated detection limit.

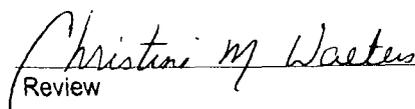
QA/QC Acceptance Criteria	Parameter	Percent Recovery
	Trifluorotoluene	98%
	Bromofluorobenzene	99%

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.  
Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994.  
Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Note: Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments: 4109 E. Main, Farmington, NM.

  
Analyst

  
Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW



## EPA METHOD 8040 PHENOLS

Client:	Halliburton Energy Services	Project #:	213201
Sample ID:	Wash Bay Sludge	Date Reported:	02-16-00
Laboratory Number:	G811	Date Sampled:	02-10-00
Chain of Custody:	7673	Date Received:	02-10-00
Sample Matrix:	TCLP Extract	Date Extracted:	02-11-00
Preservative:	Cool	Date Analyzed:	02-15-00
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limit (mg/L)
<b>o-Cresol</b>	ND	0.020	200
<b>p,m-Cresol</b>	ND	0.040	200
<b>2,4,6-Trichlorophenol</b>	ND	0.020	2.0
<b>2,4,5-Trichlorophenol</b>	ND	0.020	400
<b>Pentachlorophenol</b>	ND	0.020	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	<b>2-Fluorophenol</b>	98%
	<b>2,4,6-Tribromophenol</b>	99%

References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

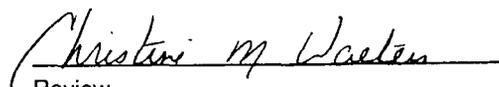
Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

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

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments: 4109 E. Main, Farmington, NM.

  
Analyst

  
Review

Client:	Halliburton Energy Services	Project #:	213201
Sample ID:	Wash Bay Sludge	Date Reported:	02-16-00
Laboratory Number:	G811	Date Sampled:	02-10-00
Chain of Custody:	7673	Date Received:	02-10-00
Sample Matrix:	TCLP Extract	Date Extracted:	02-11-00
Preservative:	Cool	Date Analyzed:	02-15-00
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	0.020	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

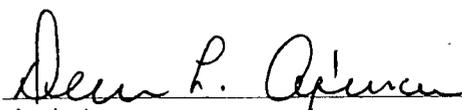
ND - Parameter not detected at the stated detection limit.

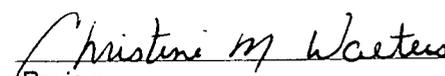
QA/QC Acceptance Criteria	Parameter	Percent Recovery
	2-fluorobiphenyl	96%

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.  
Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note: Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments: 4109 E. Main, Farmington, NM.

  
Analyst

  
Review

EPA METHOD 1311  
TOXICITY CHARACTERISTIC  
LEACHING PROCEDURE  
TRACE METAL ANALYSIS

Client:	Halliburton Energy Services	Project #:	213201
Sample ID:	Wash Bay Sludge	Date Reported:	02-16-00
Laboratory Number:	G811	Date Sampled:	02-10-00
Chain of Custody:	7673	Date Received:	02-10-00
Sample Matrix:	TCLP Extract	Date Analyzed:	02-16-00
Preservative:	Cool	Date Extracted:	02-11-00
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
Arsenic	0.064	0.001	5.0
Barium	0.640	0.001	21
Cadmium	0.035	0.001	0.11
Chromium	0.024	0.001	0.60
Lead	0.034	0.001	0.75
Mercury	0.002	0.001	0.025
Selenium	0.021	0.001	5.7
Silver	0.019	0.001	0.14

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, December 1996.

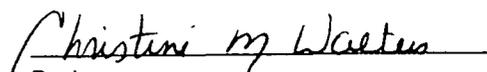
Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, December 1996.

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

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

Comments: 4109 E. Main, Farmington, NM.

  
Analyst

  
Review

# CHAIN OF CUSTODY RECORD

7673

Client / Project Name <i>Halliburton Energy Services</i>			Project Location <i>4109 E Main Farmington, NM</i>		ANALYSIS / PARAMETERS								
Sampler: <i>Harlan M. Brown</i>			Client No. <i>92132-01</i>		No. of Containers <i>1</i>	TEMP <i>w/o H&amp;A</i>						Remarks	
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix									
<i>Wash Bay Sludge</i>	<i>02-10-00</i>	<i>9:10</i>	<i>6811</i>	<i>Sludge</i>		<input checked="" type="checkbox"/>							
Relinquished by: (Signature) <i>Harlan M. Brown</i>			Date <i>02-10-00</i>	Time <i>10:05</i>	Received by: (Signature) <i>Debra L. O'Brien</i>						Date <i>2-10-00</i>	Time <i>10:01</i>	
Relinquished by: (Signature)					Received by: (Signature)								
Relinquished by: (Signature)					Received by: (Signature)								
<b>ENVIROTECH INC.</b> 5796 U.S. Highway 64 Farmington, New Mexico 87401 (505) 632-0615										Sample Receipt			
											Y	N	N/A
										Received Intact	<input checked="" type="checkbox"/>		
										Cool - Ice/Blue Ice	<input checked="" type="checkbox"/>		

District I - (505) 393-6161  
 P. O. Box 1980  
 Hobbs, NM 88241-1980  
 District II - (505) 748-1283  
 811 S. First  
 Artesia, NM 88210  
 District III - (505) 334-6178  
 7 Rio Brazos Road  
 Roswell, NM 87410  
 District IV - (505) 827-7131

New Mexico  
 Energy Minerals and Natural Resources Department  
 Oil Conservation Division  
 2040 South Pacheco Street  
 Santa Fe, New Mexico 87505  
 (505) 827-7131

Form C-138  
 Originated 8/8/95  
 Submit Original  
 Plus 1 Copy  
 to appropriate  
 District Office

Env. JN: \_\_\_\_\_

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input checked="" type="checkbox"/> Non-Exempt: <input type="checkbox"/>	Danny Foust 5:26:00 7:37	4. Generator <u>Western Gas Resources</u>
Verbal Approval Received: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		5. Originating Site <u>San Juan River Plant</u>
2. Management Facility Destination <u>Envirotech Soil Remediation Facility Landfarm #2</u>		6. Transporter <u>Envirotech</u>
3. Address of Facility Operator <u>5796 US Highway 64 Farmington, NM 87401</u>		8. State <u>New Mexico</u>
7. Location of Material (Street Address or ULSTR)		<u>99 ROAD 6500</u> <u>Next to land, NW</u>
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.		

BRIEF DESCRIPTION OF MATERIAL:

Pigging sludge



Never Hauled 4/12/00  
DGF

Estimated Volume ± 10 cy Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_ cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 05-26-00  
 Waste Management Facility Authorized Agent  
 TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Denny Foust TITLE: Geologist DATE: 5/26/00  
 APPROVED BY: Chad Turner TITLE: Platy 026 Inspector DATE: 5/26/00

RECEIVED MAY 25 2000



NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
AZTEC DISTRICT OFFICE
1000 RIO BRAZOS ROAD
AZTEC, NEW MEXICO 87410
(505) 334-5179 Fax (505) 334-6170

GARY E. JOHNSON
GOVERNOR

JENNIFER A. SALISBURY
CABINET SECRETARY

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address: Western Gas Resources, P.O. Box 70, 99 Rd 6500, Kirtland, N.M. 87417
2. Destination Name: Envirotech Inc., Soil Remediation Remediation Facility, Landfarm #2, Hilltop, New Mexico, 5796 IIS Hwy 64, Farmington, NM 87401
3. Originating Site (name): Pig Receiver San Juan River Plant, 99 Rd. 6500 Kirtland N.M. 87417
4. Source and Description of Waste: Piggings Sludge - Iron Sulfide

I, Tim Bates representative for: Western Gas Resources Inc. do hereby certify that, according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July, 1988, regulatory determination, the above described waste is: (Check appropriate classification)

[X] EXEMPT oilfield waste [ ] NON-EXEMPT oilfield waste which is non-hazardous by characteristic analysis or by product identification

and that nothing has been added to the exempt or non-exempt non-hazardous waste defined above.

For NON-EXEMPT waste the following documentation is attached (check appropriate items):

- MSDS Information
RCRA Hazardous Waste Analysis
Chain of Custody
Other (description):

This waste is in compliance with Regulated Levels of Naturally Occurring Radioactive Material (NORM) pursuant to 20 NMAC 3.1 subpart 1403.C and D.

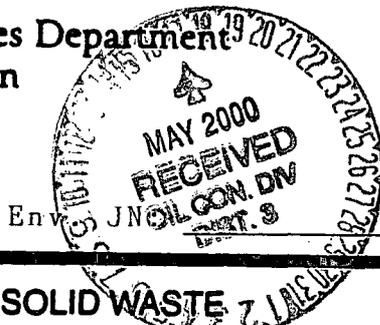
Name (Original Signature): Tim Bates
Title: Field Supervisor
Date: 5-24-2000

District I - (505) 393-6161  
 P.O. Box 1980  
 Hobbs, NM 88241-1980  
 District II - (505) 748-1283  
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 District III - (505) 334-6178  
 1 Rio Brazos Road  
 Roswell, NM 87410  
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New Mexico  
 Energy Minerals and Natural Resources Department  
 Oil Conservation Division  
 2040 South Pacheco Street  
 Santa Fe, New Mexico 87505  
 (505) 827-7131

Form C-138  
 Originated 8/8/95

Submit Original  
 Plus 1 Copy  
 to appropriate  
 District Office



REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/>	4. Generator <u>Scrumbo bogger Production Operators</u>
Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	5. Originating Site <u>POT YANKEE</u>
2. Management Facility Destination <u>Envirotech Soil Remediation Facility Landfarm #2</u>	6. Transporter <u>TBA</u>
3. Address of Facility Operator <u>5796 US Highway 64 Farmington, NM 87401</u>	8. State <u>New Mexico</u>
7. Location of Material (Street Address or ULSTR)	<u>4000 Lomas St Farmington, NM 87401</u>
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.  All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

Used motor oil contaminated soil.  
TCLP metals analysis attached.  
MSDS ATTACHED.

Estimated Volume 10 cy Known Volume (to be entered by the operator at the end of the haul) 12 cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 5.15.00  
Waste Management Facility Authorized Agent  
 TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Denny Feunt TITLE: Geologist DATE: 5/17/00  
 APPROVED BY: [Signature] TITLE: Environmental DATE: 5-16-00

## CERTIFICATE OF WASTE STATUS

1. Generator Name and Address: Schlumberger Production Operator's, Inc 4000 Lomas Street Farmington, NM 87401	2. Destination Name: Envirotech Soil Remediation Facility Landfarm # 2 Hwy 550 (formerly Hwy 44) Hilltop, NM
---	--

3. Originating Site (Name): Production Operator's Yard 4000 Lomas Street Farmington, NM
--

4. Source and Description of Waste: Used motor oil. Material was upset from compressors during normal operations and maintenance.
--

I, Charley Weahkee representative for:  
 (Print Name)

Schlumberger, Production Operator's, Inc. do hereby certify that according to the Resource Conservation Act (RCRA) and Environmental Protection Agency's July, 1988, regulatory determination, the above described waste is:

(Check appropriate classification)  
 EXEMPT oilfield waste                       **NON-EXEMPT** oilfield waste  
 which is non-hazardous by characteristic analysis or by product identification and That nothing has been added to the exempt Non-hazardous waste defined above.

For EXEMPT waste only, the following documentation is attached (check appropriate items)  <input type="checkbox"/> NORM Survey <input type="checkbox"/> TCLP Analysis	For NON-EXEMPT waste only, the following documentation is attached (check appropriate items)  <input checked="" type="checkbox"/> MSDS Information <input checked="" type="checkbox"/> TCLP Analysis <input checked="" type="checkbox"/> Chain of Custody <input checked="" type="checkbox"/> NORM Survey <input type="checkbox"/> Other (description)
--	--

Name (Original Signature): Charley J. Weahkee  
 Title: QHSE Coordinator POI  
 Date: 5/15/00



## Inter-Mountain Laboratories, Inc.

Phone (505) 326-4737 Fax (505) 325-4182

2506 West Main Street, Farmington, NM 87401

Client: Production Operators, Inc.

Project: POI YARD

Sample ID: Sample #1/2 Comp.

Lab ID: 0300S01962

Matrix: Soil

Condition: Cool/Intact

Date Reported: 05/12/00

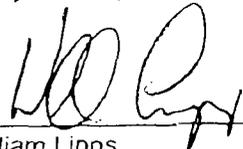
Date Sampled: 05/11/00

Date Received: 05/11/00

Date Analyzed: 05/11/00

Parameter	Analytical Result	PQL	MCL	Units
<b>RCRA Metals</b>				
Arsenic	<6	6	100	mg/Kg
Barium	474	1	2000	mg/Kg
Cadmium	<0.5	0.5	20	mg/Kg
Chromium	7	1	100	mg/Kg
Lead	9	5	100	mg/Kg
Mercury	<0.1	0.1	4	mg/Kg
Selenium	<4	4	20	mg/Kg
Silver	<2	2	100	mg/Kg

Reference: SW-846 - "Test Methods for Evaluating Solid Waste: Physical/Chemical Methods", United States Environmental Protection Agency, Final Update 1, July 1992.

Reviewed By: 

William Lipps

Method  
3050

## MOBIL OIL CORPORATION MATERIAL SAFETY DATA BULLETIN

REVISED:06/30/92

\*\*\*\*\* I. PRODUCT IDENTIFICATION \*\*\*\*\*  
MOBIL PEGASUS 485

SUPPLIER: MOBIL OIL CORP. 24-HOUR EMERGENCY (CALL COLLECT):  
(609) 737-4411

CHEMICAL NAMES AND SYNONYMS: CHEMTREC:  
PET. HYDROCARBONS AND ADDITIVES (800) 424-9300

USE OR DESCRIPTION: PRODUCT AND MSDS INFORMATION:  
NATURAL GAS ENGINE OIL (800) 662-4525

## \*\*\*\*\* II. TYPICAL CHEMICAL AND PHYSICAL PROPERTIES \*\*\*\*\*

APPEARANCE: Dark Amber Liquid ODOR: Mild PH: NA

VISCOSITY AT 100 F, SUS: 649.0 AT 40 C, CS: 124.0

VISCOSITY AT 210 F, SUS: 72.0 AT 100 C, CS: 13.0

FLASH POINT F(C): > 450(232) (ASTM D-92)

MELTING POINT F(C): NA POUR POINT F(C): 5(-15)

BOILING POINT F(C): > 600(316)

RELATIVE DENSITY, 15/4 C: 0.88 SOLUBILITY IN WATER: Negligible

VAPOR PRESSURE-mm Hg 20C: < .1

NA=Not Applicable NE=Not Established D=Decomposes  
FOR FURTHER INFORMATION, CONTACT YOUR LOCAL MARKETING OFFICE.

## \*\*\*\*\* III. POTENTIALLY HAZARDOUS INGREDIENTS \*\*\*\*\*

None

SEE SECTIONS XII AND XIII FOR REGULATORY AND FURTHER COMPOSITIONAL DATA.

SOURCES: A=ACGIH-TLV, A\*=Suggested-TLV, M=Mobil, O=OSHA, S=Supplier  
NOTE: Limits shown for guidance only. Follow applicable regulations.

## \*\*\*\*\* IV. HEALTH HAZARD DATA \*\*\*\*\*

--- INCLUDES AGGRAVATED MEDICAL CONDITIONS, IF ESTABLISHED ---  
THRESHOLD LIMIT VALUE: 5.00 mg/m<sup>3</sup> Suggested for Oil Mist  
EFFECTS OF OVEREXPOSURE: Not expected to be a problem.

## \*\*\*\*\* V. EMERGENCY AND FIRST AID PROCEDURES \*\*\*\*\*

--- FOR PRIMARY ROUTES OF ENTRY ---

EYE CONTACT: Flush thoroughly with water. If irritation persists, call  
a physician.

SKIN CONTACT: Wash contact areas with soap and water.

INHALATION: Not expected to be a problem.

INGESTION: Not expected to be a problem. However, if greater than 1/2  
liter(pint) ingested, immediately give 1 to 2 glasses of water and  
call a physician, hospital emergency room or poison control center  
for assistance. Do not induce vomiting or give anything by mouth  
to an unconscious person.

## \*\*\*\*\* VI. FIRE AND EXPLOSION HAZARD DATA \*\*\*\*\*

FLASH POINT F(C): &gt; 450(232) (ASTM D-92)

FLAMMABLE LIMITS. LEL: .6% UEL: 7.0%

EXTINGUISHING MEDIA: Carbon dioxide, foam, dry chemical and water fog.

SPECIAL FIRE FIGHTING PROCEDURES: Water or foam may cause frothing.

Use water to keep fire exposed containers cool. Water spray may be used to flush spills away from exposure. For fires in enclosed areas, firefighters must use self-contained breathing apparatus.

Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None.

NFPA HAZARD ID: Health: 0, Flammability: 1, Reactivity: 0

## \*\*\*\*\* VII. REACTIVITY DATA \*\*\*\*\*

STABILITY (Thermal, Light, etc.): Stable

CONDITIONS TO AVOID: Extreme heat.

INCOMPATIBILITY (Materials to Avoid): Strong oxidizers

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide.

HAZARDOUS POLYMERIZATION: Will not occur.

## \*\*\*\*\* VIII. SPILL OR LEAK PROCEDURE \*\*\*\*\*

ENVIRONMENTAL IMPACT: Report spills as required to appropriate authorities. U. S. Coast Guard regulations require immediate reporting of spills that could reach any waterway including intermittent dry creeks. Report spill to Coast Guard toll free number (800) 424-8802. In case of accident or road spill notify CHEMTREC (800) 424-9300.

PROCEDURES IF MATERIAL IS RELEASED OR SPILLED: Adsorb on fire retardant treated sawdust, diatomaceous earth, etc. Shovel up and dispose of at an appropriate waste disposal facility in accordance with current applicable laws and regulations, and product characteristics at time of disposal.

WASTE MANAGEMENT: Product is suitable for burning in an enclosed, controlled burner for fuel value or disposal by supervised incineration. Such burning may be limited pursuant to the Resource Conservation and Recovery Act. In addition, the product is suitable for processing by an approved recycling facility or can be disposed of at any government approved waste disposal facility. Use of these methods is subject to user compliance with applicable laws and regulations and consideration of product characteristics at time of disposal.

## \*\*\*\*\* IX. SPECIAL PROTECTION INFORMATION \*\*\*\*\*

EYE PROTECTION: Normal industrial eye protection practices should be employed.

SKIN PROTECTION: No special equipment required. However, good personal hygiene practices should always be followed.

RESPIRATORY PROTECTION: No special requirements under ordinary conditions of use and with adequate ventilation.

VENTILATION: No special requirements under ordinary conditions of use and with adequate ventilation.

## \*\*\*\*\* X. SPECIAL PRECAUTIONS \*\*\*\*\*

No special precautions required.

## \*\*\*\*\* XI. TOXICOLOGICAL DATA \*\*\*\*\*

## ---ACUTE TOXICOLOGY---

ORAL TOXICITY (RATS): Slightly toxic ---Based on testing of similar products and/or the components.

DERMAL TOXICITY (RABBITS): Slightly toxic ---Based on testing of similar products and/or the components.

INHALATION TOXICITY (RATS): Not applicable ---Harmful concentrations of mists and/or vapors are unlikely to be encountered through any customary or reasonably foreseeable handling, use, or misuse of this product.

EYE IRRITATION (RABBITS): Expected to be non-irritating. ---Based on testing of similar products and/or the components.

SKIN IRRITATION (RABBITS): Expected to be non-irritating. ---Based on testing of similar products and/or the components.

## ---SUBCHRONIC TOXICOLOGY (SUMMARY)---

Severely solvent refined and severely hydrotreated mineral base oils have been tested at Mobil Environmental and Health Sciences Laboratory by dermal application to rats 5 days/week for 90 days at doses significantly higher than those expected during normal industrial exposure. Extensive evaluations including microscopic examination of internal organs and clinical chemistry of body fluids, showed no adverse effects.

## ---CHRONIC TOXICOLOGY (SUMMARY)---

The base oils in this product are severely solvent refined and/or severely hydrotreated. Chronic mouse skin painting studies of similar oils showed no evidence of carcinogenic effects.

## \*\*\*\*\* XII. REGULATORY INFORMATION \*\*\*\*\*

GOVERNMENTAL INVENTORY STATUS: All components registered in accordance with TSCA.

## DOT:

Shipping Name: Not applicable  
Hazard Class: Not applicable

US OSHA HAZARD COMMUNICATION STANDARD: Product assessed in accordance with OSHA 29 CFR 1910.1200 and determined not to be hazardous.

RCRA INFORMATION: The unused product, in our opinion, is not specifically listed by the EPA as a hazardous waste (40 CFR, Part 261D), nor is it formulated to contain materials which are listed hazardous wastes. It does not exhibit the hazardous characteristics of ignitability, corrosivity, or reactivity and is not formulated with contaminants as determined by the Toxicity Characteristic Leaching Procedure (TCLP). However, used product may be regulated.

U.S. Superfund Amendments and Reauthorization Act (SARA) Title III: This product contains no "EXTREMELY HAZARDOUS SUBSTANCES".

SARA (311/312 - FORMERLY 302) REPORTABLE HAZARD CATEGORIES: None

This product contains no chemicals reportable under SARA (313) toxic release program.

THE FOLLOWING PRODUCT INGREDIENTS ARE CITED ON THE LISTS BELOW:

CHEMICAL NAME	CAS NUMBER	LIST CITATIONS
ZINC (ELEMENTAL ANALYSIS) (.03%)	7440-66-6	15
PHOSPHORODITHOIC ACID, O,O-DI C1-14-ALKYL ESTERS, ZINC SALTS (2:1) (ZDDP) (.24%)	68649-42-3	15

--- KEY TO LIST CITATIONS ---

- 1 = OSHA Z,      2 = ACGIH,      3 = IARC,      4 = NTP,      7 = NFPA 49,
- 8 = NFPA 325M,    9 = DOT HMT,    10 = CA RTK,    11 = IL RTK,    12 = MA RTK,
- 13 = MN RTK,    14 = NJ RTK,    15 = MI 293,    16 = FL RTK,    17 = PA RTK,
- 18 = CA P65.

--- NTP, IARC, AND OSHA INCLUDE CARCINOGENIC LISTINGS ---

NOTE: MOBIL PRODUCTS ARE NOT FORMULATED TO CONTAIN PCBS.

\*\*\*\*\* XIII. INGREDIENTS \*\*\*\*\*

INGREDIENT DESCRIPTION	PERCENT	CAS NUMBER
CONTAINS THE FOLLOWING BASE OILS:	> 95.00	
DISTILLATES (PETROLEUM), HYDROTREATED HEAVY PARAFFINIC		64742-54-7
DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC		64742-65-0
AMINES, POLYETHYLENEPOLY-, REACTION PRODUCTS WITH SUCCINIC ANHYDRIDE POLYBUTENYL DERIVS.	< 2.00	68439-80-5
SULFONIC ACIDS, PETROLEUM, CALCIUM SALTS	< 2.00	61789-86-4
ZINC DITHIOPHOSPHATE	0.26 NJT	800967-5469P

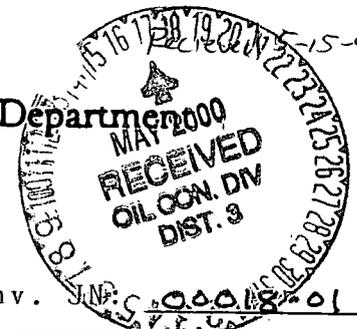
\*\*\*\*\* APPENDIX \*\*\*\*\*  
 FOR MOBIL USE ONLY: MHC: 1\* 1\* NA 0\* 0\*, MPPEC: A, PPEC: A, US92-465  
 APPROVE CCODE:10 06/30/92 REQ: US - MARKETING

\*\*\*\*\*  
 INFORMATION GIVEN HEREIN IS OFFERED IN GOOD FAITH AS ACCURATE, BUT WITHOUT GUARANTEE. CONDITIONS OF USE AND SUITABILITY OF THE PRODUCT FOR PARTICULAR USES ARE BEYOND OUR CONTROL; ALL RISKS OF USE OF THE PRODUCT ARE THEREFORE ASSUMED BY THE USER AND WE EXPRESSLY DISCLAIM ALL WARRANTIES OF EVERY KIND AND NATURE, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE IN RESPECT TO THE USE OR SUITABILITY OF THE PRODUCT. NOTHING IS INTENDED AS A RECOMMENDATION FOR USES WHICH INFRINGE VALID PATENTS OR AS EXTENDING LICENSE UNDER VALID PATENTS. APPROPRIATE WARNINGS AND SAFE HANDLING PROCEDURES SHOULD BE PROVIDED TO HANDLERS AND USERS.  
 \*\*\*\*\*

PREPARED BY: MOBIL OIL CORPORATION  
 ENVIRONMENTAL HEALTH AND SAFETY DEPARTMENT, PRINCETON, NJ  
 FOR FURTHER INFORMATION, CONTACT:  
 MOBIL OIL CORPORATION, PRODUCT FORMULATION AND QUALITY CONTROL  
 3225 GALLOWES ROAD, FAIRFAX, VA 22037 (800) 227-0707 X3265

District I - (505) 393-6161  
 P.O. Box 1980  
 Hobbs, NM 88241-1980  
 District II - (505) 748-1283  
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 District III - (505) 334-6178  
 Rio Brazos Road  
 Socorro, NM 87410  
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New Mexico  
 Energy Minerals and Natural Resources Department  
 Oil Conservation Division  
 2040 South Pacheco Street  
 Santa Fe, New Mexico 87505  
 (505) 827-7131



Form C-138  
 Originated 8/8/95  
 Submit Original  
 Plus 1 Copy  
 to appropriate  
 District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/> <i>Engineer Cleanup</i>	4. Generator <i>ILLEGAL Dump</i>
Verbal Approval Received: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	5. Originating Site <i>C.R. 5030 SITE</i>
2. Management Facility Destination <i>Envirotech Soil Remediation Facility Landfarm #2</i>	6. Transporter <i>Envirotech</i>
3. Address of Facility Operator <i>5796 US Highway 64 Farmington, NM 87401</i>	8. State <i>New Mexico</i>
7. Location of Material (Street Address or ULSTR)	<i>See 9, 729N, R11W, S1C.</i>
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

*Clean up of soil contaminated w/ emulsified oil & water  
 w/o H&P  
 TCLP Analysis Attached  
 RCRA RCE Attached*

Estimated Volume *± 300* cy Known Volume (to be entered by the operator at the end of the haul) *404* cy

SIGNATURE: *Harlan M. Brown* TITLE: Landfarm Manager DATE: *05.15.00*  
 Waste Management Facility Authorized Agent  
 TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)  
 APPROVED BY: *Denny Feun* TITLE: *Geologist* DATE: *5/17/00*  
 APPROVED BY: *Matthew J. Kelly* TITLE: *Environmental Geologist* DATE: *5-16-00*



NEW MEXICO ENERGY, MINERALS  
& NATURAL RESOURCES DEPARTMENT

RECEIVED MAY 4 2000

OIL CONSERVATION DIVISION  
AZTEC DISTRICT OFFICE  
1000 RIO BRAZOS ROAD  
AZTEC, NEW MEXICO 87410  
(505) 334-6170 Fax (505) 334-6170

GARY E. JOHNSON  
GOVERNOR

JENNIFER A. SALISBURY  
CABINET SECRETARY

## CERTIFICATE OF WASTE STATUS

<p>1. Generator Name and Address: USDI - BLM Environmental Compliance 1235 E. La Plata Hwy, Ste A. Farmington, NM - 87401</p>	<p>2. Destination Name: Envirotech Inc. Soil Remediation Remediation Facility Landfarm #2, Hilltop, New Mexico 5796 US Hwy 64, Farmington, NM 87401</p>
<p>3. Originating Site (name): ILLEGAL Dumpsite County Rd. 5030</p> <p>Attach list of originating sites as appropriate</p>	<p>Location of the Waste (Street address &amp;/or ULSTR): SE 1/4 Sec 9, T29N, R11W, S3C.</p>
<p>4. Source and Description of Waste Illegally dumped emulsified oil &amp; water.</p>	

I, Ruben A. Sanchez representative for:  
(Print Name)  
Bureau of Land Mgmt. Dept. of Interior <sup>1235 La Plata Hwy</sup> <sub>Farmington, NM</sub> do hereby certify that,  
according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July,  
1988, regulatory determination, the above described waste is: (Check appropriate classification)

EXEMPT oilfield waste  NON-EXEMPT oilfield waste which is non-hazardous by characteristic analysis or by product identification

and that nothing has been added to the exempt or non-exempt non-hazardous waste defined above.

For NON-EXEMPT waste the following documentation is attached (check appropriate items):

MSDS Information  Other (description):  
 RCRA Hazardous Waste Analysis  
 Chain of Custody

This waste is in compliance with Regulated Levels of Naturally Occurring Radioactive Material (NORM) pursuant to 20 NMAC 3.1 subpart 1403.C and D.

Name (Original Signature): Ruben A. Sanchez  
Title: Environmental Protection Team Lead  
Date: May 2, 2000

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

April 19, 2000

Mr. Ruben Sanchez  
Bureau of Land Management  
1235 La Plata Hwy  
Farmington, NM 87401

Phone: (505) 599-6319

Project No.: 00018  
Job No.: 001801

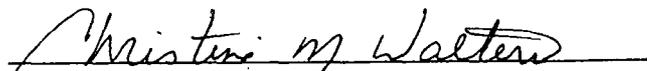
Dear Mr. Randalman,

Enclosed are the analytical results for one soil sample collected from the location designated as "CR 5030". One soil sample was collected by Envirotech designated personnel on 4/11/00, and received by the Envirotech laboratory on 4/11/00 for TCLP W/O Herbicides and Pesticides.

The sample was documented on Envirotech Chain of Custody No. 7782 and assigned Laboratory No. H097 (5 Pt. #1) for tracking purposes. The sample was analyzed 4/12/00 - 4/18/00 using USEPA or equivalent methods.

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

Respectfully submitted,  
Envirotech, Inc.



Christine M. Walters  
Laboratory Coordinator / Environmental Scientist

enc.

CMW/cmw

C:/files/labreports/BLM.wpd

## SUSPECTED HAZARDOUS WASTE ANALYSIS

Client:	BLM	Project #:	001801
Sample ID:	5 Pt. #1	Date Reported:	04-18-00
Lab ID#:	H097	Date Sampled:	04-11-00
Sample Matrix:	Soil	Date Received:	04-11-00
Preservative:	Cool	Date Analyzed:	04-12-00
Condition:	Cool and Intact	Chain of Custody:	7782

Parameter	Result
-----------	--------

<b>IGNITABILITY:</b>	<b>Negative</b>	
<b>CORROSIVITY:</b>	<b>Negative</b>	<b>pH = 8.78</b>
<b>REACTIVITY:</b>	<b>Negative</b>	

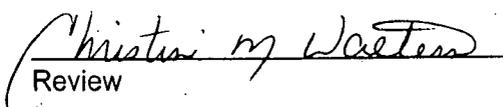
### RCRA Hazardous Waste Criteria

Parameter	Hazardous Waste Criterion
IGNITABILITY:	Characteristic of Ignitability as defined by 40 CFR, Subpart C, Sec. 261.21. (i.e. Sample ignition upon direct contact with flame or flash point < 60° C.)
CORROSIVITY:	Characteristic of Corrosivity as defined by 40 CFR, Subpart C, Sec. 261.22. (i.e. pH less than or equal to 2.0 or pH greater than or equal to 12.5)
REACTIVITY:	Characteristic of Reactivity as defined by 40 CFR, Subpart C, Sec. 261.23. (i.e. Violent reaction with water, strong base, strong acid, or the generation of Sulfide or Cyanide gases at STP with pH between 2.0 and 12.5)

Reference: 40 CFR part 261 Subpart C sections 261.21 - 261.23, July 1, 1992.

Comments: CR 5030. 5 Pt. Composite.

  
Analyst

  
Review

Client:	BLM	Project #:	001801
Sample ID:	5 Pt. #1	Date Reported:	04-17-00
Laboratory Number:	H097	Date Sampled:	04-11-00
Chain of Custody:	7782	Date Received:	04-11-00
Sample Matrix:	Soil	Date Extracted:	04-12-00
Preservative:	Cool	Date Analyzed:	04-14-00
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	0.0416	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	0.0158	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

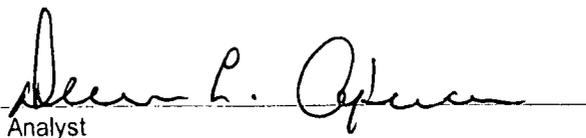
ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery
	Trifluorotoluene	98%
	Bromofluorobenzene	99%

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
 Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.  
 Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994.  
 Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Note: Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments: CR 5030.

  
Analyst

  
Review

Client:	BLM	Project #:	001801
Sample ID:	5 Pt. #1	Date Reported:	04-18-00
Laboratory Number:	H097	Date Sampled:	04-11-00
Chain of Custody:	7782	Date Received:	04-11-00
Sample Matrix:	TCLP Extract	Date Extracted:	04-12-00
Preservative:	Cool	Date Analyzed:	04-14-00
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	ND	0.020	200
p,m-Cresol	ND	0.040	200
2,4,6-Trichlorophenol	ND	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400
Pentachlorophenol	ND	0.020	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	2-Fluorophenol	98%
	2,4,6-Tribromophenol	99%

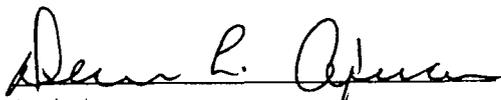
References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

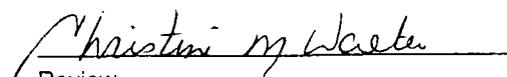
Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

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

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments: CR 5030. 5 Pt. Composite.

  
Analyst

  
Review

Client:	BLM	Project #:	001801
Sample ID:	5 Pt. #1	Date Reported:	04-18-00
Laboratory Number:	H097	Date Sampled:	04-11-00
Chain of Custody:	7782	Date Received:	04-11-00
Sample Matrix:	TCLP Extract	Date Extracted:	04-12-00
Preservative:	Cool	Date Analyzed:	04-14-00
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	0.020	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

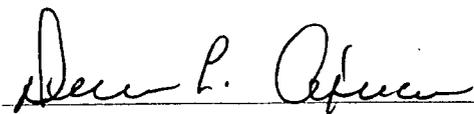
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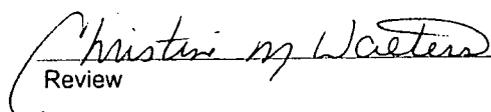
QA/QC Acceptance Criteria	Parameter	Percent Recovery
	2-fluorobiphenyl	98%

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.  
Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note: Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments: CR 5030. 5 Pt. Composite.

  
Analyst

  
Review

EPA METHOD 1311  
TOXICITY CHARACTERISTIC  
LEACHING PROCEDURE  
TRACE METAL ANALYSIS

Client:	BLM	Project #:	001801
Sample ID:	5 Pt. #1	Date Reported:	04-18-00
Laboratory Number:	H097	Date Sampled:	04-11-00
Chain of Custody:	7782	Date Received:	04-11-00
Sample Matrix:	TCLP Extract	Date Analyzed:	04-18-00
Preservative:	Cool	Date Extracted:	04-12-00
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
Arsenic	0.031	0.001	5.0
Barium	1.42	0.001	21
Cadmium	0.012	0.001	0.11
Chromium	0.008	0.001	0.60
Lead	0.035	0.001	0.75
Mercury	ND	0.001	0.025
Selenium	0.004	0.001	5.7
Silver	0.001	0.001	0.14

ND - Parameter not detected at the stated detection limit.

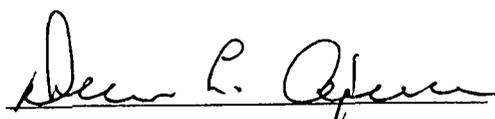
References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, December 1996.

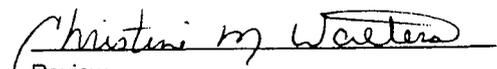
Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, December 1996.

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

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

Comments: CR 5030. 5 Pt. Composite.

  
Analyst

  
Review

# **FNVIROTECH LABS**

**PRACTICAL SOLUTIONS FOR A BETTER TOMORROW**

**QUALITY ASSURANCE / QUALITY CONTROL**

**DOCUMENTATION**

EPA METHODS 8010/8020  
AROMATIC / HALOGENATED  
VOLATILE ORGANICS  
Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	04-17-00
Laboratory Number:	04-14-TCV	Date Sampled:	N/A
Sample Matrix:	Water	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	04-14-00
Condition:	N/A	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	ND	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	ND	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

ND - Parameter not detected at the stated detection limit.

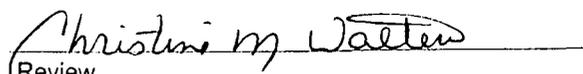
QA/QC Acceptance Criteria	Parameter	Percent Recovery
	Trifluorotoluene	100%
	Bromofluorobenzene	100%

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.  
Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994.  
Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Note: Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments: QA/QC for samples H096 - H098.

  
Analyst

  
Review

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	04-17-00
Laboratory Number:	04-12-TCV-MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	04-14-00
Condition:	N/A	Date Extracted:	04-12-00
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	ND	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	ND	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

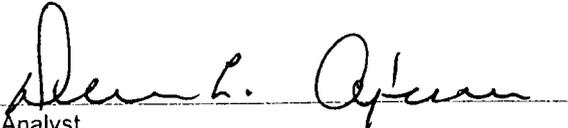
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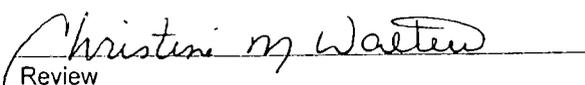
QA/QC Acceptance Criteria	Parameter	Percent Recovery
	Trifluorotoluene	99%
	Bromofluorobenzene	98%

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.  
Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994.  
Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Note: Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments: QA/QC for samples H096 - H098.

  
Analyst

  
Review

EPA METHODS 8010/8020  
 AROMATIC / HALOGENATED  
 VOLATILE ORGANICS  
 QUALITY ASSURANCE REPORT

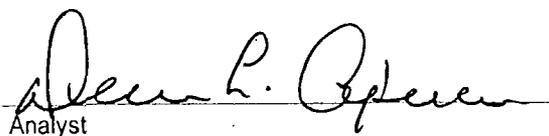
Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	04-17-00
Laboratory Number:	H096	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	04-14-00
Condition:	N/A	Date Extracted:	04-12-00

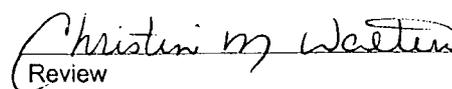
Parameter	Sample Result (mg/L)	Duplicate Sample Result (mg/L)	Detection Limits (mg/L)	Percent Difference
Vinyl Chloride	ND	ND	0.0001	0.0%
1,1-Dichloroethene	ND	ND	0.0001	0.0%
2-Butanone (MEK)	0.0162	0.0161	0.0001	0.7%
Chloroform	ND	ND	0.0001	0.0%
Carbon Tetrachloride	ND	ND	0.0001	0.0%
Benzene	0.135	0.135	0.0001	0.0%
1,2-Dichloroethane	ND	ND	0.0001	0.0%
Trichloroethene	ND	ND	0.0003	0.0%
Tetrachloroethene	ND	ND	0.0005	0.0%
Chlorobenzene	ND	ND	0.0003	0.0%
1,4-Dichlorobenzene	ND	ND	0.0002	0.0%

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
 Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.  
 Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994.  
 Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Comments: QA/QC for samples H096 - H098.

  
 Analyst

  
 Review

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Spike	Date Reported:	04-17-00
Laboratory Number:	H096	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	04-14-00
Condition:	N/A	Date Extracted:	04-12-00

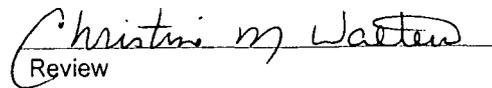
Parameter	Sample Result (mg/L)	Spike Added (mg/L)	Spiked Sample Result (mg/L)	Det. Limit (mg/L)	Percent Recovery	SW-846 % Rec. Accept. Range
Vinyl Chloride	ND	0.050	0.0495	0.0001	99%	28-163
1,1-Dichloroethene	ND	0.050	0.0494	0.0001	99%	43-143
2-Butanone (MEK)	0.0162	0.050	0.0657	0.0001	99%	47-132
Chloroform	ND	0.050	0.0498	0.0001	100%	49-133
Carbon Tetrachloride	ND	0.050	0.0491	0.0001	98%	43-143
Benzene	0.135	0.050	0.1846	0.0001	100%	39-150
1,2-Dichloroethane	ND	0.050	0.0494	0.0001	99%	51-147
Trichloroethene	ND	0.050	0.0494	0.0003	99%	35-146
Tetrachloroethene	ND	0.050	0.0494	0.0005	99%	26-162
Chlorobenzene	ND	0.050	0.0494	0.0003	99%	38-150
1,4-Dichlorobenzene	ND	0.050	0.0494	0.0002	99%	42-143

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
 Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.  
 Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994.  
 Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Comments: QA/QC for samples H096 - H098.

  
 Analyst

  
 Review

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	04-18-00
Laboratory Number:	04-14-TCA	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	04-14-00
Condition:	N/A	Analysis Requested:	TCLP

Analytical Results	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limit (mg/L)
Parameter			
o-Cresol	ND	0.020	200
p,m-Cresol	ND	0.040	200
2,4,6-Trichlorophenol	ND	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400
Pentachlorophenol	ND	0.020	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	2-fluorophenol	98 %
	2,4,6-tribromophenol	99 %

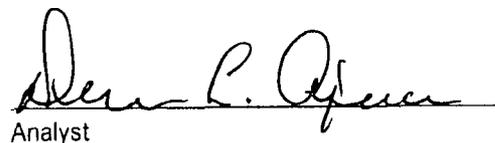
References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

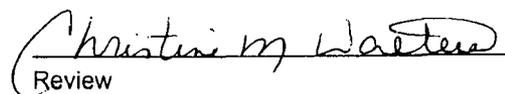
Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

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

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments: QA/QC for samples H096 - H098.

  
Analyst

  
Review

EPA METHOD 8040  
PHENOLS  
Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	04-18-00
Laboratory Number:	04-12-TCA	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	04-12-00
Condition:	Cool & Intact	Date Analyzed:	04-14-00
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	ND	0.020	200
p,m-Cresol	ND	0.040	200
2,4,6-Trichlorophenol	ND	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400
Pentachlorophenol	ND	0.020	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	2-Fluorophenol	98%
	2,4,6-Tribromophenol	99%

References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

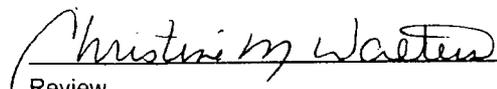
Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

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

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments: QA/QC for samples H096 - H098.

  
Analyst

  
Review

EPA METHOD 8040  
**PHENOLS**  
 Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	04-18-00
Laboratory Number:	H096	Date Sampled:	N/A
Sample Matrix:	Water	Date Received:	N/A
Preservative:	Cool	Date Extracted:	N/A
Condition:	Cool & Intact	Date Analyzed:	04-14-00
		Analysis Requested:	TCLP

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Detection Limit (mg/L)	Percent Difference
o-Cresol	ND	ND	0.020	0.0%
p,m-Cresol	ND	ND	0.040	0.0%
2,4,6-Trichlorophenol	ND	ND	0.020	0.0%
2,4,5-Trichlorophenol	ND	ND	0.020	0.0%
Pentachlorophenol	ND	ND	0.020	0.0%

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Maximum Difference
	8040 Compounds	30.0%

References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

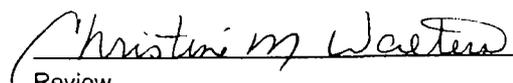
Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

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

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments: **QA/QC for samples H096 - H098.**

  
 Analyst

  
 Review

EPA Method 8090  
Nitroaromatics and Cyclic Ketones  
TCLP Base/Neutral Organics  
Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	04-18-00
Laboratory Number:	04-14-TBN	Date Sampled:	N/A
Sample Matrix:	Hexane	Date Received:	N/A
Preservative:	N/A	Date Extracted:	N/A
Condition:	N/A	Date Analyzed:	04-14-00
		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	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

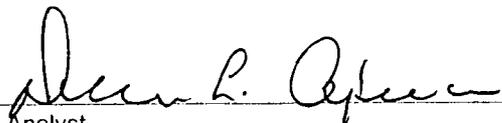
ND - Parameter not detected at the stated detection limit.

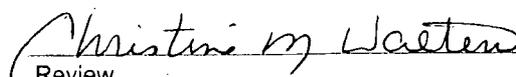
QA/QC Acceptance Criteria	Parameter	Percent Recovery
	2-fluorobiphenyl	99%

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.  
Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note: Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments: QA/QC for samples H096 - H098.

  
Analyst

  
Review

EPA Method 8090  
Nitroaromatics and Cyclic Ketones  
TCLP Base/Neutral Organics  
QUALITY ASSURANCE REPORT

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	04-18-00
Laboratory Number:	04-12-TBN	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	04-12-00
Condition:	Cool and Intact	Date Analyzed:	04-14-00
		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	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

ND - Parameter not detected at the stated detection limit.

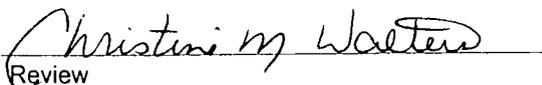
QA/QC Acceptance Criteria	Parameter	Percent Recovery
	2-fluorobiphenyl	98%

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.  
Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note: Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments: QA/QC for samples H096 - H098.

  
Analyst

  
Review

EPA Method 8090  
Nitroaromatics and Cyclic Ketones  
TCLP Base/Neutral Organics  
QA/QC Matrix Duplicate Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	04-18-00
Laboratory Number:	H096	Date Sampled:	N/A
Sample Matrix:	Water	Date Received:	N/A
Preservative:	N/A	Date Extracted:	04-12-00
Condition:	N/A	Date Analyzed:	04-14-00
		Analysis Requested:	TCLP

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Percent Difference	Det. Limit (mg/L)
Pyridine	ND	ND	0.0%	0.020
Hexachloroethane	ND	ND	0.0%	0.020
Nitrobenzene	ND	ND	0.0%	0.020
Hexachlorobutadiene	ND	ND	0.0%	0.020
2,4-Dinitrotoluene	ND	ND	0.0%	0.020
HexachloroBenzene	ND	ND	0.0%	0.020

ND - Parameter not detected at the stated detection limit.

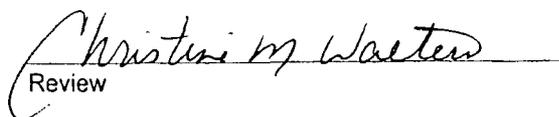
QA/QC Acceptance Criteria	Parameter	Maximum Difference
	8090 Compounds	30%

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.  
Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note: Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments: QA/QC for samples H096 - H098.

  
Analyst

  
Review

EPA METHOD 1311  
TOXICITY CHARACTERISTIC  
LEACHING PROCEDURE  
TRACE METAL ANALYSIS  
Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	04-18-TCM QA/QC	Date Reported:	04-18-00
Laboratory Number:	H096	Date Sampled:	N/A
Sample Matrix:	Water	Date Received:	N/A
Analysis Requested:	TCLP Metals	Date Analyzed:	04-18-00
Condition:	N/A	Date Extracted:	N/A

Blank & Duplicate Conc. (mg/L)	Instrument Blank	Method Blank	Detection Limit	Sample	Duplicate	% Diff.	Acceptance Range
Arsenic	ND	ND	0.001	0.022	0.022	0.0%	0% - 30%
Barium	ND	ND	0.001	2.87	2.86	0.3%	0% - 30%
Cadmium	ND	ND	0.001	0.006	0.006	0.0%	0% - 30%
Chromium	ND	ND	0.001	0.001	0.001	0.0%	0% - 30%
Lead	ND	ND	0.001	0.027	0.026	3.7%	0% - 30%
Mercury	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Selenium	ND	ND	0.001	0.006	0.006	0.0%	0% - 30%
Silver	ND	ND	0.001	ND	ND	0.0%	0% - 30%

Spike Conc. (mg/L)	Spike Added	Sample	Spiked Sample	Percent Recovery	Acceptance Range
Arsenic	0.500	0.022	0.521	99.8%	80% - 120%
Barium	0.500	2.87	3.35	99.4%	80% - 120%
Cadmium	0.500	0.006	0.505	99.8%	80% - 120%
Chromium	0.500	0.001	0.500	99.8%	80% - 120%
Lead	0.500	0.027	0.528	100.2%	80% - 120%
Mercury	0.050	ND	0.048	96.0%	80% - 120%
Selenium	0.500	0.006	0.505	99.8%	80% - 120%
Silver	0.500	ND	0.499	99.8%	80% - 120%

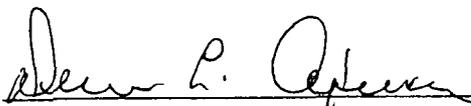
ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, Dec. 1996

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, December 1996.

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

Comments: QA/QC for samples H096 - H098.

  
Analyst

  
Review

# CHAIN OF CUSTODY RECORD

7782

Client / Project Name <i>BLM/</i>			Project Location <i>CR 5030</i>		ANALYSIS / PARAMETERS									
Sampler: <i>REP</i>			Client No. <i>001801</i>		No. of Containers <i>REP</i>	<i>✓</i>							Remarks	
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix										
<i>SPT. #1</i>	<i>4-11-00</i>	<i>1430</i>	<i>H097</i>	<i>SOIL</i>	<i>1</i>	<i>✓</i>								<i>SPT. COMPOSITE</i>
														<i>SAMPLE PRESERVE</i>
														<i>COOL</i>

Relinquished by: (Signature) <i>[Signature]</i>	Date <i>4-11-00</i>	Time <i>1450</i>	Received by: (Signature) <i>Christa Wertz</i>	Date <i>4-11-00</i>	Time <i>14:50</i>
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

**ENVIROTECH INC.**

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

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

District I - (505) 393-6161  
 P. O. Box 1980  
 Hobbs, NM 88241-1980  
 District II - (505) 748-1283  
 811 S. First  
 Artesia, NM 88210  
 District III - (505) 334-6178  
 Rio Brazos Road  
 Alamogordo, NM 87410  
 District IV - (505) 827-7131

New Mexico  
 Energy, Minerals and Natural Resources  
 Oil Conservation Division  
 2040 South Pacheco Street  
 Santa Fe, New Mexico 87505  
 (505) 827-7131

RECEIVED  
 Department  
 MAY 05 2000  
 Environmental Bureau  
 Oil Conservation Division  
 Env. JN: 95026

Form C-138  
 Originated 8/8/95  
 Submit Original  
 Plus 1 Copy  
 to appropriate  
 District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/>	4. Generator <u>BJ Services</u>
Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	5. Originating Site <u>HP. 28.75 Hwt 511</u>
2. Management Facility Destination <u>Envirotech Soil Remediation Facility Landfarm #2</u>	6. Transporter <u>Envirotech</u>
3. Address of Facility Operator <u>5796 US Highway 64 Farmington, NM 87401</u>	8. State <u>New Mexico</u>
7. Location of Material (Street Address or ULSTR)	<u>SE SE Sec 22, T32N R 8W</u>
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.	<u>SJ. County N.M.</u>

BRIEF DESCRIPTION OF MATERIAL:

Clean up of motor oil, Auto Freeze, hydraulic oil @ a four vehicle accident on Nat Hwy 511  
 TCLP Metals attached



Estimated Volume 8 cy Known Volume (to be entered by the operator at the end of the haul) 8 cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 05.03.00  
 Waste Management Facility Authorized Agent  
 TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Denny Faust TITLE: Geologist DATE: 5/4/00  
 APPROVED BY: Marvin J. Kubi TITLE: Environmental Geologist DATE: 5/5/00

District I - (505) 393-6161  
 P. O. Box 1980  
 Hobbs, NM 88241-1980  
 District II - (505) 748-1283  
 811 S. First  
 Artesia, NM 88210  
 District III - (505) 334-6178  
 7 Rio Brazos Road  
 Socorro, NM 87410  
 District IV - (505) 827-7131

New Mexico  
 Energy Minerals and Natural Resources Department  
 Oil Conservation Division  
 2040 South Pacheco Street  
 Santa Fe, New Mexico 87505  
 (505) 827-7131

Form C-138  
 Originated 8/8/95

Submit Original  
 Plus 1 Copy  
 to appropriate  
 District Office

Env. JN: 95026

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/>	4. Generator <u>BJ Services</u>
Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	5. Originating Site <u>HP. 28.75 Hwt 511</u>
2. Management Facility Destination <u>Envirotech Soil Remediation Facility Landfarm #2</u>	6. Transporter <u>Envirotech</u>
3. Address of Facility Operator <u>5796 US Highway 64 Farmington, NM 87401</u>	8. State <u>New Mexico</u>
7. Location of Material (Street Address or ULSTR)	<u>SESE Sec 22, T32N R 8W</u>
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.  All transporters must certify the wastes delivered are only those consigned for transport.	<u>SJ. County NM.</u>

BRIEF DESCRIPTION OF MATERIAL:

Clean up of motor oil, Auto Freeze, hydraulic oil @ a four vehicle accident on NM Hwt 511  
 TCLP Metals attached



Estimated Volume 8 cy Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_ cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 05.03.00  
 Waste Management Facility Authorized Agent  
 TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Denny Font TITLE: Geologist DATE: 5/4/00

APPROVED BY: \_\_\_\_\_ TITLE: \_\_\_\_\_ DATE: \_\_\_\_\_



NEW MEXICO ENERGY, MINERALS  
& NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION  
AZTEC DISTRICT OFFICE  
1000 RIO BRAZOS ROAD  
AZTEC, NEW MEXICO 87410  
(505) 334-6178 Fax (505) 334-6170

GARY E. JOHNSON  
GOVERNOR

JENNIFER A. SALISBURY  
CABINET SECRETARY

## CERTIFICATE OF WASTE STATUS

<p>1. Generator Name and Address: BJ Services 3250 Southside River Road Farmington, NM 87401</p>	<p>2. Destination Name: Esuvatech FOC, Landfill #2 Hill Top, N.M. 14 mile S. of Bloomfield.</p>
<p>3. Originating Site (name): M.D. 28.75 NM Hwy 511 Truck accident</p> <p>Attach list of originating sites as appropriate</p>	<p>Location of the Waste (Street address &amp;/or ULSTR): SESE, Sec 22, T.32N R8W S.J.C. NM.</p>
<p>4. Source and Description of Waste Soil contaminated with motor oil, hydraulic fluid &amp; auto freeze @ a 4 vehicle truck accident.</p>	

I, Les Baugh representative for:  
(Print Name)  
BJ Services do hereby certify that,  
according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July,  
1988, regulatory determination, the above described waste is: (Check appropriate classification)

EXEMPT oilfield waste       NON-EXEMPT oilfield waste which is non-hazardous by characteristic analysis or by product identification

and that nothing has been added to the exempt or non-exempt non-hazardous waste defined above.

For NON-EXEMPT waste the following documentation is attached (check appropriate items):

MSDS Information       Other (description):  
 RCRA Hazardous Waste Analysis  
 Chain of Custody

This waste is in compliance with Regulated Levels of Naturally Occurring Radioactive Material (NORM) pursuant to 20 NMAC 3.1 subpart 1403.C and D.

Name (Original Signature): Les Baugh  
Title: Facilities Supervisor  
Date: 5/3/00

EPA METHOD 1311  
TOXICITY CHARACTERISTIC  
LEACHING PROCEDURE  
TRACE METAL ANALYSIS

Client:	B J Services	Project #:	502604
Sample ID:	Absorbent Composite	Date Reported:	04-21-00
Laboratory Number:	H124	Date Sampled:	04-19-00
Chain of Custody:	7630	Date Received:	04-19-00
Sample Matrix:	TCLP Extract	Date Analyzed:	04-21-00
Preservative:	Cool	Date Extracted:	04-20-00
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
Arsenic	0.094	0.001	5.0
Barium	1.02	0.001	21
Cadmium	0.049	0.001	0.11
Chromium	0.031	0.001	0.60
Lead	0.033	0.001	0.75
Mercury	0.002	0.001	0.025
Selenium	0.062	0.001	5.7
Silver	0.009	0.001	0.14

ND - Parameter not detected at the stated detection limit.

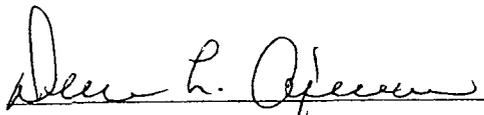
References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, December 1996.

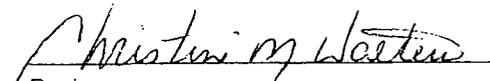
Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, December 1996.

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

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

Comments: Mile Marker 26.75 Hiway 511 N.

  
Analyst

  
Review

Client:	QA/QC	Project #:	N/A
Sample ID:	04-21-TCM QA/QC	Date Reported:	04-21-00
Laboratory Number:	H112	Date Sampled:	N/A
Sample Matrix:	Water	Date Received:	N/A
Analysis Requested:	TCLP Metals	Date Analyzed:	04-21-00
Condition:	N/A	Date Extracted:	N/A

Blank & Duplicate Conc. (mg/L)	Instrument Blank	Method Blank	Detection Limit	Sample	Duplicate	% Diff.	Acceptance Range
Arsenic	ND	ND	0.001	0.109	0.107	1.8%	0% - 30%
Barium	ND	ND	0.001	6.07	6.05	0.3%	0% - 30%
Cadmium	ND	ND	0.001	0.051	0.050	2.0%	0% - 30%
Chromium	ND	ND	0.001	0.560	0.559	0.2%	0% - 30%
Lead	ND	ND	0.001	0.601	0.603	0.3%	0% - 30%
Mercury	ND	ND	0.001	0.004	0.004	0.0%	0% - 30%
Selenium	ND	ND	0.001	0.037	0.035	5.4%	0% - 30%
Silver	ND	ND	0.001	0.048	0.047	2.1%	0% - 30%

Spike Conc. (mg/L)	Spike Added	Sample	Spiked Sample	Percent Recovery	Acceptance Range
Arsenic	0.500	0.109	0.608	99.8%	80% - 120%
Barium	0.500	6.07	6.55	99.7%	80% - 120%
Cadmium	0.500	0.051	0.550	99.8%	80% - 120%
Chromium	0.500	0.560	1.58	149.1%	80% - 120%
Lead	0.500	0.601	1.10	99.9%	80% - 120%
Mercury	0.050	0.004	0.054	100.0%	80% - 120%
Selenium	0.500	0.037	0.536	99.8%	80% - 120%
Silver	0.500	0.048	0.546	99.6%	80% - 120%

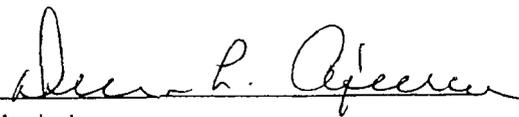
ND - Parameter not detected at the stated detection limit.

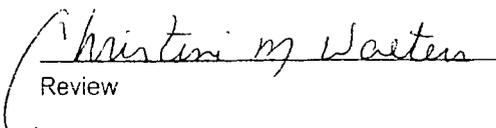
References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, Dec. 1996

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, December 1996.

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

Comments: QA/QC for samples H112 and H124 - H125.

  
Analyst

  
Review

# CHAIN OF CUSTODY RECORD

7630

Client / Project Name <b>BS Services</b>			Project Location <b>Highway 511 N mile marker 26.75</b>		ANALYSIS / PARAMETERS					
Sampler: <b>Kelly Johnson</b>			Client No. <b>502604</b>		No. of Containers <b>1</b>	TCUP Metals				Remarks
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix						
<b>Absorbant Composite</b>	<b>4/19/00</b>	<b>11:00AM</b>	<b>H124</b>	<b>Soil <del>TCUP</del> Metals</b>						

Relinquished by: (Signature) <b>Kelly Johnson</b>	Date <b>4/19/00</b>	Time <b>3:00pm</b>	Received by: (Signature) <b>Derek P. O'Brien</b>	Date <b>4/19/00</b>	Time <b>15:00</b>
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

## ENVIROTECH INC.

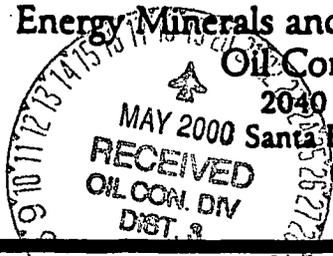
5796 U.S. Highway 64  
Farmington, New Mexico 87401  
(505) 632-0615

Sample Receipt		
	Y	N/A
Received Intact	<input checked="" type="checkbox"/>	
Cool - Ice/Blue Ice	<input checked="" type="checkbox"/>	

District I - (505) 393-6161  
 P.O. Box 1980  
 Hobbs, NM 88241-1980  
 District II - (505) 748-1283  
 811 S. First  
 Artesia, NM 88210  
 District III - (505) 334-6178  
 Rio Brazos Road  
 Artesia, NM 87410  
 District IV - (505) 827-7131

New Mexico  
 Energy Minerals and Natural Resources Department  
 RECEIVED  
 MAY 05 2000  
 Environmental Bureau  
 Oil Conservation Division  
 Env. JN: 95026

Form C-138  
 Originated 8/8/95  
 Submit Original  
 Plus 1 Copy  
 to appropriate  
 District Office



**REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE**

1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/>  Verbal Approval Received:      Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	4. Generator <u>B.J. Services</u>
2. Management Facility Destination <u>Envirotech Soil Remediation Facility Landfarm #2</u>	5. Originating Site <u>Main Yard</u>
3. Address of Facility Operator <u>5796 US Highway 64 Farmington, NM 87401</u>	6. Transporter <u>Envirotech</u>
7. Location of Material (Street Address or ULSTR)	8. State <u>New Mexico</u>
9. <u>Circle One:</u>  A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.  All transporters must certify the wastes delivered are only those consigned for transport.	

**BRIEF DESCRIPTION OF MATERIAL:**

Construction of wash bay Solids.  
TCLP  
Reaffirmation Statement Attached



Estimated Volume 40 cy      Known Volume (to be entered by the operator at the end of the haul) 34 cy

SIGNATURE: Harlan M. Brown      TITLE: Landfarm Manager      DATE: 5.3.00  
Waste Management Facility Authorized Agent  
 TYPE OR PRINT NAME: Harlan M. Brown      TELEPHONE NO. 505-632-0615

*(This space for State Use)*

APPROVED BY: Denny G. Furt      TITLE: Geologist      DATE: 5/4/00

APPROVED BY: Martyn G. Kelly      TITLE: Environmental Geologist      DATE: 5/5/00

District I - (505) 393-6161  
 P.O. 1980  
 Hobbs, NM 8 241-1980  
 District II - (505) 748-1283  
 811-S. First  
 Artesia, NM 88210  
 District III - (505) 334-6178  
 Rio Brazos Road  
 NM 87410  
 District IV - (505) 827-7131

New Mexico  
 Energy Minerals and Natural Resources Department  
 Oil Conservation Division  
 2040 South Pacheco Street  
 Santa Fe, New Mexico 87505  
 (505) 827-7131

Form C-138  
 Originated 8/8/95  
 Submit Original  
 Plus 1 Copy  
 to appropriate  
 District Office

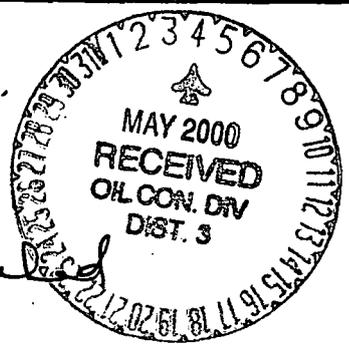
Env. JN: 95026

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/>	4. Generator <u>B.I. Services</u>
Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	5. Originating Site <u>Main Yard</u>
2. Management Facility Destination <u>Envirotech Soil Remediation Facility Landfarm #2</u>	6. Transporter <u>Envirotech</u>
3. Address of Facility Operator <u>5796 US Highway 64 Farmington, NM 87401</u>	8. State <u>New Mexico</u>
7. Location of Material (Street Address or ULSTR)	<u>3250 Southside River Road</u>
9. <u>Circle One:</u> A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

Construction of wash bay solids.  
TCLP  
Reclamation Statement Attached



Estimated Volume 40 cy Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_ cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 5.3.00  
Waste Management Facility Authorized Agent  
 TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Derry G. Fount TITLE: Geologist DATE: 5/4/00  
 APPROVED BY: \_\_\_\_\_ TITLE: \_\_\_\_\_ DATE: \_\_\_\_\_



NEW MEXICO ENERGY, MINERALS  
& NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION  
AZTEC DISTRICT OFFICE  
1000 RIO BRAZOS ROAD  
AZTEC, NEW MEXICO 87410  
(505) 334-6170 Fax (505) 334-6170

GARY E. JOHNSON  
GOVERNOR

JENNIFER A. SALISBURY  
CABINET SECRETARY

## CERTIFICATE OF WASTE STATUS

1. Generator Name and Address: BJ Services 3250 South side River Road Farmington, New Mexico 87401	2. Destination Name: EnviroTech Soil Remediation Facility LANDfarm #2 Hilltop, New Mexico
3. Originating Site (name): BJ Services, Main Yard 3250 South side River Road Farmington, N.M. 87401 Attach list of originating sites as appropriate	Location of the Waste (Street address &/or ULSTR): Same - Wash Bay Solids Facility
4. Source and Description of Waste CONTINUATION OF Wash Bay Solids.	

I, Les Baugh representative for:  
(Print Name)

BJ Services do hereby certify that, according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July, 1988, regulatory determination, the above described waste is: (Check appropriate classification)

EXEMPT oilfield waste       NON-EXEMPT oilfield waste which is non-hazardous by characteristic analysis or by product identification

and that nothing has been added to the exempt or non-exempt non-hazardous waste defined above.

For NON-EXEMPT waste the following documentation is attached (check appropriate items):

MSDS Information       Other (description):  
 RCRA Hazardous Waste Analysis      Reaffirmation Statement  
 Chain of Custody

This waste is in compliance with Regulated Levels of Naturally Occurring Radioactive Material (NORM) pursuant to 20 NMAC 3.1 subpart 1403.C and D.

Name (Original Signature): Les Baugh  
Title: Facilities Supervisor  
Date: 5/3/00

# ENVIROTECH INC.

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## REAFFIRMATION OF WASTE STATUS / NON-EXEMPT WASTE

I hereby certify that the attached Request For Approval and Certificate of Waste Status are for materials generated using the same procedures and equipment employed to generate the waste on which Toxicity Characteristic Leaching Procedures (TCLP) analysis was performed. I further certify that said material is from operations in the immediate Four Corners area.

Date of TCLP

2/17/00

Printed Name

Les Baugh

Title / Agency

Facilities Supervisor

Address

3250 Southside River RoadFarminston, New Mexico

Signature

Les Baugh

Date

5/3/00

# ENVIROTECH LABS

**PRACTICAL SOLUTIONS FOR A BETTER TOMORROW**

February 17, 2000

Mr. Les Baugh  
BJ Services  
3250 E. Southside River Rd.  
Farmington, NM 87401

Phone: (505) 327-6222

Client No.: 95026-01

Job No.: 502601

Dear Mr. Baugh,

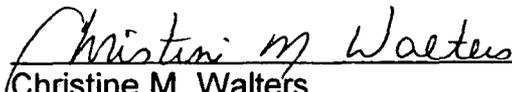
Enclosed are the analytical results for the sample collected from the location designated as "3250 Southside River Rd., Farmington, NM". One sludge sample was collected by Envirotech personnel on 2/10/00, and received by the Envirotech laboratory on 2/10/00 for TCLP W/O Herbicides and Pesticides.

The sample was documented on Envirotech Chain of Custody No. 7672 and assigned Laboratory No. G810 (Wash Bay Sludge) for tracking purposes.

The sample was analyzed 2/10/00 through 2/16/00 using USEPA or equivalent methods.

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

Respectfully submitted,  
**Envirotech, Inc.**

  
Christine M. Walters  
Laboratory Coordinator / Environmental Scientist

enc.

CMW/cmw

C:/files/labreports/BJ.wpd

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## SUSPECTED HAZARDOUS WASTE ANALYSIS

Client:	B J Services	Project #:	502601
Sample ID:	Wash Bay Sludge	Date Reported:	02-10-00
Lab ID#:	G810	Date Sampled:	02-10-00
Sample Matrix:	Sludge	Date Received:	02-10-00
Preservative:	Cool	Date Analyzed:	02-10-00
Condition:	Cool and Intact	Chain of Custody:	7672

Parameter	Result
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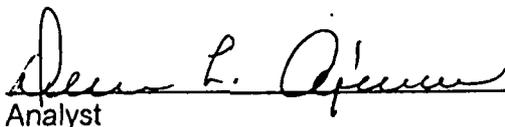
<b>IGNITABILITY:</b>	<b>Negative</b>	
<b>CORROSIVITY:</b>	<b>Negative</b>	<b>pH = 8.80</b>
<b>REACTIVITY:</b>	<b>Negative</b>	

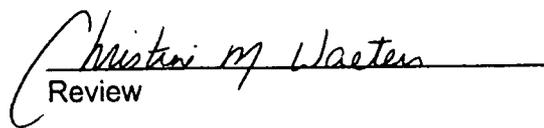
### RCRA Hazardous Waste Criteria

Parameter	Hazardous Waste Criterion
IGNITABILITY:	Characteristic of Ignitability as defined by 40 CFR, Subpart C, Sec. 261.21. (i.e. Sample ignition upon direct contact with flame or flash point < 60° C.)
CORROSIVITY:	Characteristic of Corrosivity as defined by 40 CFR, Subpart C, Sec. 261.22. (i.e. pH less than or equal to 2.0 or pH greater than or equal to 12.5)
REACTIVITY:	Characteristic of Reactivity as defined by 40 CFR, Subpart C, Sec. 261.23. (i.e. Violent reaction with water, strong base, strong acid, or the generation of Sulfide or Cyanide gases at STP with pH between 2.0 and 12.5)

Reference: 40 CFR part 261 Subpart C sections 261.21 - 261.23, July 1, 1992.

Comments: 3250 Southside River Rd., Farmington, NM.

  
Analyst

  
Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	BJ Services	Project #:	502601
Sample ID:	Wash Bay Sludge	Date Reported:	02-16-00
Laboratory Number:	G810	Date Sampled:	02-10-00
Chain of Custody:	7672	Date Received:	02-10-00
Sample Matrix:	TCLP Extract	Date Extracted:	02-11-00
Preservative:	Cool	Date Analyzed:	02-14-00
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	0.0129	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	0.0038	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

ND - Parameter not detected at the stated detection limit.

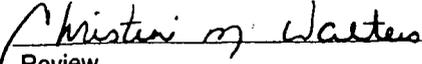
QA/QC Acceptance Criteria	Parameter	Percent Recovery
	Trifluorotoluene	98%
	Bromofluorobenzene	99%

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.  
Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994.  
Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Note: Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments: 3250 Southside River Rd., Farmington, NM.

  
Analyst

  
Review

# ENVIROTECH LABS

**PRACTICAL SOLUTIONS FOR A BETTER TOMORROW**

## EPA METHOD 8040 PHENOLS

Client:	BJ Services	Project #:	502601
Sample ID:	Wash Bay Sludge	Date Reported:	02-16-00
Laboratory Number:	G810	Date Sampled:	02-10-00
Chain of Custody:	7672	Date Received:	02-10-00
Sample Matrix:	TCLP Extract	Date Extracted:	02-11-00
Preservative:	Cool	Date Analyzed:	02-15-00
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	ND	0.020	200
p,m-Cresol	ND	0.040	200
2,4,6-Trichlorophenol	ND	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400
Pentachlorophenol	ND	0.020	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	2-Fluorophenol	98%
	2,4,6-Tribromophenol	99%

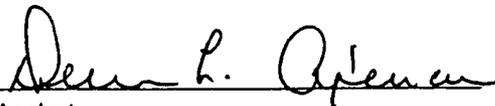
References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

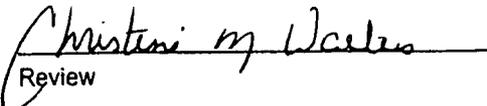
Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

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

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments: 3250 Southside River Rd., Farmington, NM.

  
Analyst

  
Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8090  
Nitroaromatics and Cyclic Ketones  
TCLP Base/Neutral Organics

Client:	BJ Services	Project #:	502601
Sample ID:	Wash Bay Sludge	Date Reported:	02-16-00
Laboratory Number:	G810	Date Sampled:	02-10-00
Chain of Custody:	7672	Date Received:	02-10-00
Sample Matrix:	TCLP Extract	Date Extracted:	02-11-00
Preservative:	Cool	Date Analyzed:	02-15-00
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	0.020	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

ND - Parameter not detected at the stated detection limit.

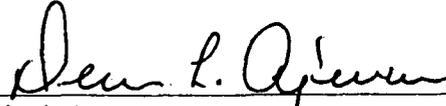
QA/QC Acceptance Criteria	Parameter	Percent Recovery
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2-fluorobiphenyl 99%

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.  
Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note: Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments: 3250 Southside River Rd., Farmington, NM.

  
Analyst

  
Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	BJ Services	Project #:	502601
Sample ID:	Wash Bay Sludge	Date Reported:	02-16-00
Laboratory Number:	G810	Date Sampled:	02-10-00
Chain of Custody:	7672	Date Received:	02-10-00
Sample Matrix:	TCLP Extract	Date Analyzed:	02-16-00
Preservative:	Cool	Date Extracted:	02-11-00
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
Arsenic	0.067	0.001	5.0
Barium	0.585	0.001	21
Cadmium	0.035	0.001	0.11
Chromium	0.022	0.001	0.60
Lead	0.031	0.001	0.75
Mercury	ND	0.001	0.025
Selenium	0.037	0.001	5.7
Silver	0.016	0.001	0.14

ND - Parameter not detected at the stated detection limit.

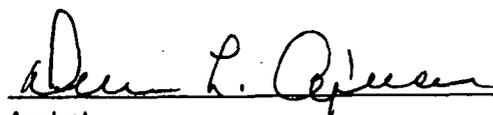
References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, December 1996.

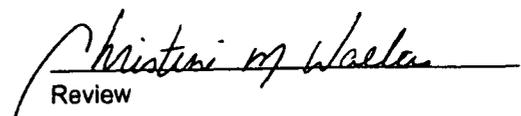
Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, December 1996.

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

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

Comments: 3250 Southside River Rd., Farmington, NM.

  
Analyst

  
Review

# **ENVIROTECH LABS**

**PRACTICAL SOLUTIONS FOR A BETTER TOMORROW**

**QUALITY ASSURANCE / QUALITY CONTROL**

**DOCUMENTATION**

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	02-16-00
Laboratory Number:	02-14-TCV	Date Sampled:	N/A
Sample Matrix:	Water	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	02-14-00
Condition:	N/A	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	ND	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	ND	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

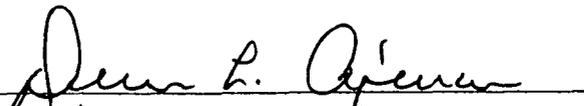
ND - Parameter not detected at the stated detection limit.

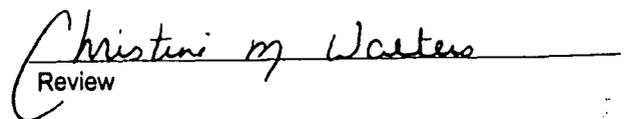
QA/QC Acceptance Criteria	Parameter	Percent Recovery
	Trifluorotoluene	100%
	Bromofluorobenzene	100%

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.  
Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994.  
Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Note: Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments: QA/QC for samples G810 - G811 and G836.

  
Analyst

  
Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	02-16-00
Laboratory Number:	02-11-TCV	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	02-14-00
Condition:	N/A	Date Extracted:	02-11-00
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	ND	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	ND	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

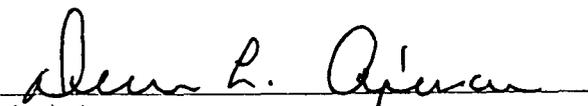
ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery
	Trifluorotoluene	99%
	Bromofluorobenzene	98%

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.  
Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994.  
Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Note: Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments: QA/QC for samples G810 - G811 and G836.

  
Analyst

  
Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS QUALITY ASSURANCE REPORT

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	02-16-00
Laboratory Number:	G810	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	02-14-00
Condition:	N/A	Date Extracted:	02-11-00

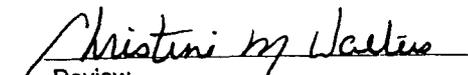
Parameter	Sample Result (mg/L)	Duplicate Sample Result (mg/L)	Detection Limits (mg/L)	Percent Difference
Vinyl Chloride	ND	ND	0.0001	0.0%
1,1-Dichloroethene	ND	ND	0.0001	0.0%
2-Butanone (MEK)	0.0129	0.0129	0.0001	0.0%
Chloroform	ND	ND	0.0001	0.0%
Carbon Tetrachloride	ND	ND	0.0001	0.0%
Benzene	0.0038	0.0038	0.0001	0.0%
1,2-Dichloroethane	ND	ND	0.0001	0.0%
Trichloroethene	ND	ND	0.0003	0.0%
Tetrachloroethene	ND	ND	0.0005	0.0%
Chlorobenzene	ND	ND	0.0003	0.0%
1,4-Dichlorobenzene	ND	ND	0.0002	0.0%

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.  
Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994.  
Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Comments: QA/QC for samples G810 - G811 and G836.

  
Analyst

  
Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHODS 8010/8020  
AROMATIC / HALOGENATED  
VOLATILE ORGANICS  
QUALITY ASSURANCE REPORT

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Spike	Date Reported:	02-16-00
Laboratory Number:	G810	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	02-14-00
Condition:	N/A	Date Extracted:	02-11-00

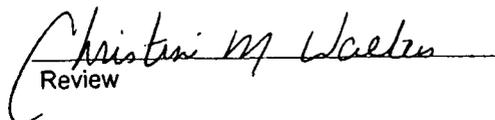
Parameter	Sample Result (mg/L)	Spike Added (mg/L)	Spiked Sample Result (mg/L)	Det. Limit (mg/L)	Percent Recovery	SW-846 % Rec. Accept. Range
Vinyl Chloride	ND	0.050	0.0495	0.0001	99%	28-163
1,1-Dichloroethene	ND	0.050	0.0494	0.0001	99%	43-143
2-Butanone (MEK)	0.0129	0.050	0.0624	0.0001	99%	47-132
Chloroform	ND	0.050	0.0498	0.0001	100%	49-133
Carbon Tetrachloride	ND	0.050	0.0491	0.0001	98%	43-143
Benzene	0.0038	0.050	0.0536	0.0001	100%	39-150
1,2-Dichloroethane	ND	0.050	0.0494	0.0001	99%	51-147
Trichloroethene	ND	0.050	0.0494	0.0003	99%	35-146
Tetrachloroethene	ND	0.050	0.0494	0.0005	99%	26-162
Chlorobenzene	ND	0.050	0.0494	0.0003	99%	38-150
1,4-Dichlorobenzene	ND	0.050	0.0494	0.0002	99%	42-143

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.  
Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994.  
Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Comments: QA/QC for samples G810 - G811 and G836.

  
Analyst

  
Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA METHOD 8040 PHENOLS Quality Assurance Report Laboratory Blank

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	02-16-00
Laboratory Number:	02-15-TCA	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	02-15-00
Condition:	N/A	Analysis Requested:	TCLP

Analytical Results	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limit (mg/L)
Parameter			
o-Cresol	ND	0.020	200
p,m-Cresol	ND	0.040	200
2,4,6-Trichlorophenol	ND	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400
Pentachlorophenol	ND	0.020	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	2-fluorophenol	98 %
	2,4,6-tribromophenol	99 %

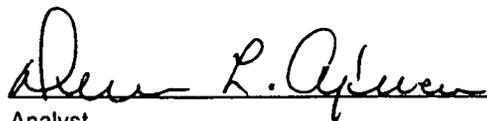
References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

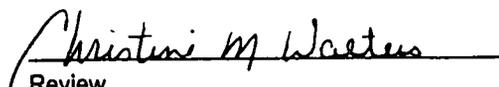
Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

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

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments: QA/QC for samples G810 - G811 and G836.

  
Analyst

  
Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA METHOD 8040 PHENOLS Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	02-16-00
Laboratory Number:	02-11-TCA	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	02-11-00
Condition:	Cool & Intact	Date Analyzed:	02-15-00
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	ND	0.020	200
p,m-Cresol	ND	0.040	200
2,4,6-Trichlorophenol	ND	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400
Pentachlorophenol	ND	0.020	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	2-Fluorophenol	98%
	2,4,6-Tribromophenol	99%

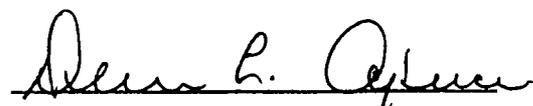
References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

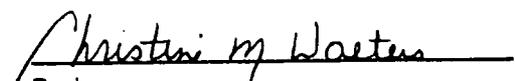
Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

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

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments: QA/QC for samples G810 - G811 and G836.

  
Analyst

  
Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA METHOD 8040 PHENOLS Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	02-16-00
Laboratory Number:	G810	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	02-11-00
Condition:	Cool & Intact	Date Analyzed:	02-15-00
		Analysis Requested:	TCLP

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Detection Limit (mg/L)	Percent Difference
o-Cresol	ND	ND	0.020	0.0%
p,m-Cresol	ND	ND	0.040	0.0%
2,4,6-Trichlorophenol	ND	ND	0.020	0.0%
2,4,5-Trichlorophenol	ND	ND	0.020	0.0%
Pentachlorophenol	ND	ND	0.020	0.0%

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Maximum Difference
	8040 Compounds	30.0%

References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

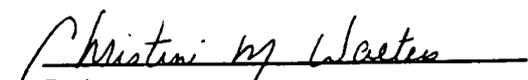
Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

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

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments: QA/QC for samples G810 - G811 and G836.

  
Analyst

  
Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8090  
Nitroaromatics and Cyclic Ketones  
TCLP Base/Neutral Organics  
Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	02-16-00
Laboratory Number:	02-15-TBN	Date Sampled:	N/A
Sample Matrix:	Hexane	Date Received:	N/A
Preservative:	N/A	Date Extracted:	N/A
Condition:	N/A	Date Analyzed:	02-15-00
		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	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

ND - Parameter not detected at the stated detection limit.

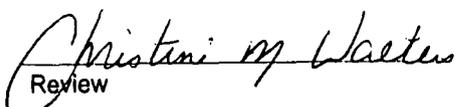
QA/QC Acceptance Criteria	Parameter	Percent Recovery
	2-fluorobiphenyl	97%

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.  
Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note: Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments: QA/QC for samples G810 - G811 and G836.

  
Analyst

  
Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8090  
Nitroaromatics and Cyclic Ketones  
TCLP Base/Neutral Organics  
QUALITY ASSURANCE REPORT

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	02-16-00
Laboratory Number:	02-11-TBN	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	02-11-00
Condition:	Cool and Intact	Date Analyzed:	02-15-00
		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	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

ND - Parameter not detected at the stated detection limit.

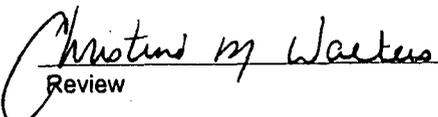
QA/QC Acceptance Criteria	Parameter	Percent Recovery
	2-fluorobiphenyl	96%

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.  
Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note: Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments: QA/QC for samples G810 - G811 and G836.

  
Analyst

  
Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8090  
Nitroaromatics and Cyclic Ketones  
TCLP Base/Neutral Organics  
QA/QC Matrix Duplicate Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	02-16-00
Laboratory Number:	G810	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Extracted:	02-11-00
Condition:	N/A	Date Analyzed:	02-15-00
		Analysis Requested:	TCLP

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Percent Difference	Det. Limit (mg/L)
Pyridine	ND	ND	0.0%	0.020
Hexachloroethane	ND	ND	0.0%	0.020
Nitrobenzene	ND	ND	0.0%	0.020
Hexachlorobutadiene	ND	ND	0.0%	0.020
2,4-Dinitrotoluene	ND	ND	0.0%	0.020
HexachloroBenzene	ND	ND	0.0%	0.020

ND - Parameter not detected at the stated detection limit.

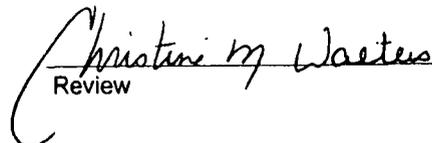
QA/QC Acceptance Criteria	Parameter	Maximum Difference
	8090 Compounds	30%

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.  
Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note: Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments: QA/QC for samples G810 - G811 and G836.

  
Analyst

  
Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311  
TOXICITY CHARACTERISTIC  
LEACHING PROCEDURE  
TRACE METAL ANALYSIS  
Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	02-16-TCM QA/QC	Date Reported:	02-16-00
Laboratory Number:	G810	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP Metals	Date Analyzed:	02-16-00
Condition:	N/A	Date Extracted:	N/A

Blank & Duplicate Conc. (mg/L)	Instrument Blank	Method Blank	Detection Limit	Sample	Duplicate	% Diff	Acceptance Range
Arsenic	ND	ND	0.001	0.067	0.066	1.5%	0% - 30%
Barium	ND	ND	0.001	0.585	0.582	0.5%	0% - 30%
Cadmium	ND	ND	0.001	0.035	0.035	0.0%	0% - 30%
Chromium	ND	ND	0.001	0.022	0.022	0.0%	0% - 30%
Lead	ND	ND	0.001	0.031	0.031	0.0%	0% - 30%
Mercury	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Selenium	ND	ND	0.001	0.037	0.036	2.7%	0% - 30%
Silver	ND	ND	0.001	0.016	0.016	0.0%	0% - 30%

Spike Concentration	Spike Added	Sample	Spiked Sample	Percent Recovery	Acceptance Range
Arsenic	0.500	0.067	0.566	99.8%	80% - 120%
Barium	0.500	0.585	1.08	99.8%	80% - 120%
Cadmium	0.500	0.035	0.534	99.8%	80% - 120%
Chromium	0.500	0.022	0.521	99.8%	80% - 120%
Lead	0.500	0.031	0.530	99.8%	80% - 120%
Mercury	0.050	ND	0.049	98.0%	80% - 120%
Selenium	0.500	0.037	0.535	99.6%	80% - 120%
Silver	0.500	0.016	0.515	99.8%	80% - 120%

ND - Parameter not detected at the stated detection limit.

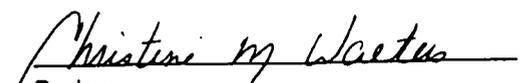
References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, Dec. 1996

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, December 1996.

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

Comments: QA/QC for samples G810 - G811 and G836.

  
Analyst

  
Review

# CHAIN OF CUSTODY RECORD

7672

Client / Project Name <b>J Services</b>			Project Location <b>3250 Southside River Rd Farmington, NJ.</b>		ANALYSIS / PARAMETERS						
Client Name <b>Harold M. Brown</b>			Client No. <b>95026 -01</b>		No. of Containers <b>1</b>	TCUA <b>2/6 H&amp;P</b>					Remarks
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix							
<b>34 Bay Sludge</b>	<b>2-10-00</b>	<b>8:55</b>	<b>6810</b>	<b>Sludge</b>	<b>1</b>	<b>✓</b>					

Shipped by: (Signature) <b>Harold M. Brown</b>	Date <b>2-10-00</b>	Time <b>10:03</b>	Received by: (Signature) <b>John P. Green</b>	Date <b>2/10/00</b>	Time <b>10:03</b>
Shipped by: (Signature)			Received by: (Signature)		
Shipped by: (Signature)			Received by: (Signature)		

## ENVIROTECH INC.

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

Sample Receipt			
	Y	N	N/A
Received Intact	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cool - Ice/Blue Ice	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

District I - (505) 393-6161  
 P.O. Box 1980  
 Hobbs, NM 88241-1980  
 District II - (505) 748-1283  
 811 S. First  
 Artesia, NM 88210  
 District III - (505) 334-6178  
 Rio Brazos Road  
 Roswell, NM 87410  
 District IV - (505) 827-7131

New Mexico  
 Energy Minerals and Natural Resources Department  
 Oil Conservation Division  
 2040 South Pacheco Street  
 Santa Fe, New Mexico 87505  
 (505) 827-7131

Form C-138  
 Originated 8/8/95

Submit Original  
 Plus 1 Copy  
 to appropriate  
 District Office

Env. JN: \_\_\_\_\_

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input checked="" type="checkbox"/> Non-Exempt: <input type="checkbox"/> Verbal Approval Received: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Denny Faust 4.2600 7:00 a.m.	4. Generator Phillips Petroleum
2. Management Facility Destination Envirotech Soil Remediation Facility Landfarm #2	5796 US Highway 64 Farmington, NM 87401	5. Originating Site SJ 31.6 #232
3. Address of Facility Operator	6. Transporter Cimmaron	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	"G" Sec 1 T30N R7W RAC. N4	
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.		

BRIEF DESCRIPTION OF MATERIAL:

petroleum hydrocarbon contaminated soil cleaned up @ the overflow of a production pit (tank).



Estimated Volume 12 cy Known Volume (to be entered by the operator at the end of the haul) 5 cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 04-27-00  
 Waste Management Facility Authorized Agent  
 TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Denny Faust TITLE: Geologist DATE: 4/28/00  
 APPROVED BY: Chen J. Lan TITLE: Deputy O&G Inspector DATE: 4/28/00

Danny Faust  
4.26.00  
7:00 A.M.

### CERTIFICATE OF WASTE STATUS

1. Generator Name and Address: Phillips Petroleum Company 5525 Hwy 64, NEBU 3004 Farmington, NM 87401	2. Destination Name: Envirotech Landfarm NM Hwy 44 (US Hwy 550) Hilltop, NM
--	--

3. Originating Site (Name): San Juan 31-6 # 232
--

4. Source and Description of Waste: Approximately 12 cubic yards of hydrocarbon stained soil as a result of an upset (over filled) pit tank.
---

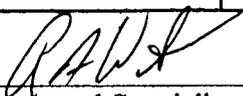
I, R.A. Wirtanen representative for:  
(Print Name)  
Phillips Petroleum do hereby certify

that according to the Resource Conservation Act (RCRA) and Environmental Protection Agency's July, 1988, regulatory determination, the above described waste is:  
(Check appropriate classification)

EXEMPT oilfield waste

NON-EXEMPT oilfield waste  
which is non-hazardous by characteristic analysis or by product identification and that nothing has been added to the exempt non-hazardous waste defined above.

For EXEMPT waste only, the following documentation is attached (check appropriate items)  <input type="checkbox"/> NORM Survey <input type="checkbox"/> TCLP Analysis	For NON-EXEMPT waste only, the following documentation is attached (check appropriate items)  <input type="checkbox"/> MSDS Information <input type="checkbox"/> TCLP Analysis <input type="checkbox"/> Chain of Custody <input type="checkbox"/> NORM Survey <input type="checkbox"/> Other (description)
--	--

Name (Original Signature):  4/27/00  
Title: Sr. Safety and Environmental Specialist  
Date: April 25, 2000

District I - (505) 393-6161  
 P. O. Box 1980  
 Hobbs, NM 88241-1980  
 District II - (505) 748-1283  
 811 S. First  
 Artesia, NM 88210  
 District III - (505) 334-6178  
 Rio Brazos Road  
 NM 87410  
 District IV - (505) 827-7131

New Mexico  
 Energy Minerals and Natural Resources Department  
 RECEIVED  
 Oil Conservation Division  
 2040 South Pacheco Street  
 Santa Fe, New Mexico 87505  
 (505) 827-7131

Form C-138  
 Originated 8/8/95

APR 27 2000  
 Environmental Bureau  
 Oil Conservation Division  
 Env. JN: 92132

Submit Original  
 Plus 1 Copy  
 to appropriate  
 District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/>	4. Generator <u>Harrison Energy Services</u>
Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	5. Originating Site <u>Site FC 33-11 well # 1-3</u>
2. Management Facility Destination <u>Envirotech Soil Remedia. Facility Landfarm #2</u>	6. Transporter <u>Paland</u>
3. Address of Facility Operator <u>5796 US Highway 64 Farmington, NM 87401</u>	8. State <u>Colorado → NM</u>
7. Location of Material (Street Address or ULSTR)	<u>Sec 1, T33N, R11W La Plata Co, Co</u>
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.  All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

Clean up of LGC VIII Stimulation Fluid released on location



Estimated Volume 500 gal cy Known Volume (to be entered by the operator at the end of the haul) 10665 cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 4.25.00  
 Waste Management Facility Authorized Agent  
 TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Denny Faust TITLE: Geologist DATE: 4/25/00  
 APPROVED BY: [Signature] TITLE: Environmental Geologist DATE: 4/27/00

District I - (505) 393-6161  
 P.O. Box 1980  
 Hobbs, NM 88241-1980  
 District II - (505) 748-1283  
 811 S. First  
 Artesia, NM 88210  
 District III - (505) 334-6178  
 Rio Brazos Road  
 Socorro, NM 87410  
 District IV - (505) 827-7131

New Mexico  
 Energy Minerals and Natural Resources Department  
 Oil Conservation Division  
 2040 South Pacheco Street  
 Santa Fe, New Mexico 87505  
 (505) 827-7131

Form C-138  
 Originated 8/8/95

Submit Original  
 Plus 1 Copy  
 to appropriate  
 District Office

Env. JN: 92132

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/>	4. Generator <u>Harlan Brown Energy Services</u>
Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	5. Originating Site <u>S.M. FC 33-11 Well # 1-3</u>
2. Management Facility Destination <u>Envirotech Soil Remediation Facility Landfarm #2</u>	6. Transporter <u>Poland</u>
3. Address of Facility Operator <u>5796 US Highway 64 Farmington, NM 87401</u>	8. State <u>Colorado → NM</u>
7. Location of Material (Street Address or ULSTR)	<u>Sec 1, T33N, R11W Lb. Plaza City, Co</u>
9. <u>Circle One:</u> A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.  All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

Clean up of LGC VIII Stimulation Fluid released on location



Estimated Volume 500 gal cy Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_ cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 4-25-00  
 Waste Management Facility Authorized Agent  
 TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Denny Faust TITLE: Geologist DATE: 4/25/00  
 APPROVED BY: \_\_\_\_\_ TITLE: \_\_\_\_\_ DATE: \_\_\_\_\_



NEW MEXICO ENERGY, MINERALS  
& NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION  
AZTEC DISTRICT OFFICE  
1000 RIO BRAZOS ROAD  
AZTEC, NEW MEXICO 87410  
(505) 334-6170 Fax (505) 334-6170

GARY E. JOHNSON  
GOVERNOR

JENNIFER A. SALISBURY  
CABINET SECRETARY

## CERTIFICATE OF WASTE STATUS

<p>1. Generator Name and Address: Halliburton Energy Services 4109 E. Main St. Farmington, N.M. 87401</p>	<p>2. Destination Name: Envirotech Inc. Soil Remediation Remediation Facility Landfarm #2, Hilltop, New Mexico 5796 IIS Hwy 64, Farmington, NM 87401</p>
<p>3. Originating Site (name): 33-11 Southern Ute FC well #1-3</p> <p>Attach list of originating sites as appropriate</p>	<p>Location of the Waste (Street address &amp;/or ULSTR): Sec 1, T33N, R11W La Plata County, Co (Southern Ute).</p>
<p>4. Source and Description of Waste Line Break on location; cleanup of stimulation fluid (0.35% LGC VIII)</p>	

I, ROBERT SMITH representative for:  
(Print Name)

HALLIBURTON ENERGY SERVICE do hereby certify that,  
according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July,  
1988, regulatory determination, the above described waste is: (Check appropriate classification)

EXEMPT oilfield waste  NON-EXEMPT oilfield waste which is non-hazardous by characteristic  
analysis or by product identification

and that nothing has been added to the exempt or non-exempt non-hazardous waste defined above.

For **NON-EXEMPT** waste the following documentation is attached (check appropriate items):

MSDS Information  Other (description):  
 RCRA Hazardous Waste Analysis  
 Chain of Custody

This waste is in compliance with Regulated Levels of Naturally Occurring Radioactive Material (NORM) pursuant  
to 20 NMAC 3.1 subpart 1403.C and D.

Name (Original Signature): ROBERT SMITH

Title: NSE ADVISOR

Date: 03-10-2000



# SOUTHERN UTE INDIAN TRIBE

---

April 19, 2000

Robert Smith  
Health, Safety and Environmental Advisor  
Halliburton Energy Services  
4109 East Main Street  
P.O. Box 960  
Farmington, NM 87499-0960

Re: Tribal Notification of Transportation of Non-exempt Oil Field Waste  
500 gallons of non-exempt, stimulation fluid containing LGC-VIII contaminated soil  
Halliburton Energy Services, SU FC 33-11 well # 1-3 NESW Sec. 1 T33N R11W

Dear Mr. Smith:

Thank you for notifying the Environmental Programs Division of the Southern Ute Indian Tribe of the transport of soil contaminated with 500 gallons of RCRA non-exempt stimulation fluid containing LGC-VIII from the above referenced site to a land farm in New Mexico. It is our understanding that the contaminated soil will be transported to Envirotech's landfarm in New Mexico.

Certification may be required by the state in New Mexico Oil Conservation Commission (NMOCCD) from your company, the transporter or generator. Transportation of this waste may be subject to other state and federal laws.

Sincerely,

*Fran King Brown*  
*MB-acting*

Fran King Brown  
Division Head  
Environmental Programs

SAM  
632-1865

Jerry Dmoran 320-6495



# FRACTURING CALL SHEET

Date: 1/27/00  
Land/Water: LAND

Quote Number: \_\_\_\_\_ Sales Order: \_\_\_\_\_ K.B. Number: \_\_\_\_\_  
 Company: RED WILLOW Lease: SOUTHERN UTE FC 33-11 Well Number: #1-3  
 Company Rep.: BOB SAGEL Mobil: 970-749-0473 Pager: \_\_\_\_\_ Office: \_\_\_\_\_  
 Contractor: KEY Unit Number: 8 Unit Type: \_\_\_\_\_  
 Town: \_\_\_\_\_ County: LA PLATA State: COLORADO  
 Round Trip Mileage: \_\_\_\_\_ API Number: \_\_\_\_\_ H2S Present? \_\_\_\_\_ % CO2 Present? \_\_\_\_\_ %

### Directions

HWY 550 NORTH TO CEDAR HILL T.L. STAY ON MAIN ROAD TO UTE RESERVATION AND FOLLOW RIG SIGNS TO LOCATION.

### Well Related Information

Legal Description: 1-33N-11W Reservoir Properties: \_\_\_\_\_ Current Production: \_\_\_\_\_  
 Formation Name: FRUITLAND COAL Packer Depth: \_\_\_\_\_

	New/Used	Weight	Connection	Grade	Size	From MD	To MD	From TVD	To TVD	Max PSI	Comments
Casing	U	17.00			5.500	0	TD			4,250	
Liner											
Tbg./DP.											Shots / Ft.
Perforations					0.450	3,344	3,421				232 HOLES
Perforations											
Perforations											

Notes:

### Well Fluids

Fluid Types	EA	Total Volume	Water	Acid	Chemicals	Deviation:	TVD:
		Tanks/W				BHP:	Static Temp.: 125
		Tanks W/				BPM: 60	PSI: 2,773 Max PSI 4,250
		Tanks W/				Fluid BPM:	N2 scfm N2 %
		Tanks W/				N2 VOL	

### Frac Information

Job Purpose		1ST STAGE—DELTA SANDWEDGE					
Gel System	Vol	Gallons	Acid System	10%FORMIC	Vol	1,000	Gallons
Treatment	Density	Lb/Gal	Treatment	Density	Lb/Gal	Lb/Gal	Lb/Gal
Prop. Type	BRADY	Size 20/40	Lbs 251,000	Prop. Type	Size	Lbs	Lbs
Prop. Type		Size	Lbs	Prop. Type	Size	Lbs	Lbs
Surfactant		Gal/Lb	/1000	Surfactant	Gal/Lb	/1000	/1000
Foamer	Losurf300	Gal/Lb	85	Surfactant	SSO-21	Gal/Lb	2 /1000
Fluid Loss		Gal/Lb	/1000	Fluid Loss		Gal/Lb	/1000
Gelling Agent	LGC-8	Gal/Lb	675	Gelling Agent		Gal/Lb	/1000
Breaker Type	GBW-30	Gal/Lb	110	Breaker Type		Gal/Lb	/1000
Breaker Type	Opti.H.T.E	Gal/Lb	80	Inhibitor	MSA-II	Gal/Lb	1 /1000
CrossLinker	BC-140	Gal/Lb	220	Iron Control		Gal/Lb	/1000
Fric.Reducer		Gal/Lb	/1000	Iron Control		Gal/Lb	/1000
Buffer Type		Gal/Lb	/1000	Buffer Type		Gal/Lb	/1000
Biocide		Gal/Lb	/1000	Buffer Type		Gal/Lb	/1000
Clay Control		Gal/Lb	/1000	Clay Control		Gal/Lb	/1000
Sandwedge	LIQ.COAT	Gal/Lb	600	Other		Gal/Lb	/1000
Bindr.	X WHIT	Iron	X	Mfld Tr.	X	Frac Van	X H2O Mfld
Pre Gel	X Ann Pmp	Mt. Mov.	X	Size SG		Chem	X N2 Pump
HHP fluid	6,000 Pop Off	Ball Inj.		LGC Trk		Acid Tran	X N2 Pump
Hold Tnk.	X Pop Off	Balls		QC	X	Acid V12	N2 Trans.

### Procedure and/or Third Party Equipment Requirements

Call Taken By: PAT KEMPER Time: \_\_\_\_\_ Is Credit OK? \_\_\_\_\_ Checked By: \_\_\_\_\_  
 Discount% Mileage: \_\_\_\_\_ % Service: \_\_\_\_\_ % Tools: \_\_\_\_\_ % Agreed Price: \_\_\_\_\_  
 Ordered By: BOB SAGEL Operator Called: \_\_\_\_\_ Time Ready \_\_\_\_\_ W/C  
 Materials From: \_\_\_\_\_ Crew From: \_\_\_\_\_  
 Associated PSL's: \_\_\_\_\_

DEPARTMENT OF TRANSPORTATION (DOT)

FOR PN# 516005670

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HALLIBURTON SERVICES  
DUNCAN, OKLAHOMA 73536

DATE: 02/11/00  
REVISED DATE: 08/10/95

EMERGENCY TELEPHONE: 800/666-9260 OR 580/251-3359  
EMERGENCY TELEPHONE: 800/666-9260 OR 580/251-3359

\* \* \* \* \*

POTENTIAL HAZARDS

FIRE OR EXPLOSION

FLAMMABLE/COMBUSTIBLE MATERIAL; MAY BE IGNITED BY HEAT, SPARKS OR FLAMES.  
VAPORS MAY TRAVEL TO A SOURCE OF IGNITION AND FLASH BACK.  
CONTAINER MAY EXPLODE IN HEAT OF FIRE.  
VAPOR EXPLOSION HAZARD INDOORS, OUTDOORS OR IN SEWERS.  
RUNOFF TO SEWER MAY CREATE FIRE OR EXPLOSION HAZARD.

HEALTH HAZARDS

MAY BE POISONOUS IF INHALED OR ABSORBED THROUGH SKIN.  
VAPORS MAY CAUSE DIZZINESS OR SUFFOCATION.  
CONTACT MAY IRRITATE OR BURN SKIN AND EYES.  
FIRE MAY PRODUCE IRRITATING OR POISONOUS GASES.  
RUNOFF FROM FIRE CONTROL OR DILUTION WATER MAY CAUSE POLLUTION.

EMERGENCY ACTION

KEEP UNNECESSARY PEOPLE AWAY; ISOLATE HAZARD AREA AND DENY ENTRY.  
STAY UPWIND; KEEP OUT OF LOW AREAS.  
POSITIVE PRESSURE SELF-CONTAINED BREATHING APPARATUS (SCBA) AND STRUCTURAL FIREFIGHTERS' PROTECTIVE CLOTHING WILL PROVIDE LIMITED PROTECTION.  
ISOLATE FOR 1/2 MILE IN ALL DIRECTIONS IF TANK, RAIL CAR OR TANK TRUCK IS INVOLVED IN FIRE.

FIRE

SMALL FIRES: DRY CHEMICAL, CO2, WATER SPRAY OR REGULAR FOAM.  
LARGE FIRES: WATER SPARY, FOG OR REGULAR FOAM.  
MOVE CONTAINER FROM FIRE AREA IF YOU CAN DO IT WITHOUT RISK.  
APPLY COOLING WATER TO SIDES OF CONTAINERS THAT ARE EXPOSED TO FLAMES UNTIL WELL AFTER FIRE IS OUT. STAY AWAY FROM ENDS OF TANKS.  
FOR MASSIVE FIRE IN CARGO AREA, USE UNMANNED HOSE HOLDER OR MONITOR NOZZLES; IF THIS IS IMPOSSIBLE, WITHDRAW FROM AREA AND LET FIRE BURN.  
WITHDRAW IMMEDIATELY IN CASE OF RISING SOUND FROM VENTING SAFETY DEVICE OR ANY DISCOLORATION OF TANK DUE TO FIRE.

SPILL OR LEAK

SHUT OFF IGNITION SOURCES; NO FLARES, SMOKING OR FLAMES IN HAZARD AREA.  
STOP LEAK IF YOU CAN DO IT WITHOUT RISK.  
WATER SPRAY MAY REDUCE VAPOR; BUT IT MAY NOT PREVENT IGNITION IN CLOSED SPACES.  
SMALL SPILLS: TAKE UP WITH SAND OR OTHER NONCOMBUSTIBLE ABSORBENT MATERIAL AND PLACE INTO CONTAINERS FOR LATER DISPOSAL.

LARGE SPILLS: DIKE FAR AHEAD OF LIQUID SPILL FOR LATER DISPOSAL.

FIRST AID

MOVE VICTIM TO FRESH AIR AND CALL EMERGENCY MEDICAL CARE; IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION; IF BREATHING IS DIFFICULT,

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GIVE OXYGEN.

IN CASE OF CONTACT WITH MATERIAL, IMMEDIATELY FLUSH EYES WITH RUNNING WATER FOR AT LEAST 15 MINUTES. WASH SKIN WITH SOAP AND WATER.

REMOVE AND ISOLATE CONTAMINATED CLOTHING AND SHOES AT THE SITE.

CALL Emergency Response Telephone Number on Shipping

Paper "FIRST". If Shipping Paper "NOT AVAILABLE" OR "NO ANSWER", CALL CHEMTREC AT 1-800-424-9300

LGC-VIII CONCENTRATE - BULK

PAGE 1

MATERIAL SAFETY DATA SHEET
HALLIBURTON ENERGY SERVICES
DUNCAN, OKLAHOMA 73536

DATE: 02-11-00
REVISED DATE 04-07-99

EMERGENCY TELEPHONE: 800/666-9260 OR 580/251-3359
EMERGENCY TELEPHONE: 800/666-9260 OR 580/251-3359

SECTION I - PRODUCT DESCRIPTION

CHEMICAL CODE: LGC-VIII CONCENTRATE - BULK PART NUMBER: 516005670
PKG QTY: CARGO TANK APPLICATION: CONCENTRATE
SERVICE USED: STIMULATION

SECTION II - COMPONENT INFORMATION

Table with 4 columns: COMPONENT, PERCENT, TLV, PEL. Rows include GUAR GUM, ETHOXYLATED NONYLPHENOL, and DIESEL.

SECTION III - PHYSICAL DATA

PROPERTY MEASUREMENT

Table with 2 columns: PROPERTY, MEASUREMENT. Rows include APPEARANCE (YELLOWISH LIQUID, GEL), ODOR (DIESEL), SPECIFIC GRAVITY (1.035), BULK DENSITY (8.62 LB/GAL), PH (NOT DETERMINED), SOLUBILITY IN WATER AT 20 DEG C (NIL), BIODEGRADABILITY (SLOWLY), PERCENT VOLATILES (100), EVAPORATION RATE (BUTYL ACETATE=1) (<1), VAPOR DENSITY (5-6), VAPOR PRESSURE (N/D), BOILING POINT (300 F / 148 C), POUR POINT (N/D), FREEZE POINT (N/D), SOLUBILITY IN SEAWATER (NOT EVALUATED), PARTITION COEF (OCTANOL IN WATER) (NOT EVALUATED).

SECTION IV - FIRE AND EXPLOSION DATA

NFPA(704) RATING:

Table with 4 columns: HEALTH (1), FLAMMABILITY (2), REACTIVITY (0), SPECIAL (NONE). Rows include FLASH POINT (128 F / 53 C), AUTOIGNITION TEMPERATURE (ND F / ND C), FLAMMABLE LIMITS (LOWER N/D, UPPER N/D).

EXTINGUISHING MEDIA:

USE WATER SPRAY, FOAM, DRY CHEMICAL, OR CARBON DIOXIDE.

SPECIAL FIRE FIGHTING PROCEDURES:

USE WATER SPRAY TO COOL FIRE-EXPOSED SURFACES.

FULL PROTECTIVE CLOTHING AND NIOSH/MSHA APPROVED SELF-CONTAINED BREATHING APPARATUS REQUIRED FOR FIRE FIGHTING PERSONNEL.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

MAY BE IGNITED BY HEAT, SPARKS, OR FLAMES. FIGHT FIRE FROM A SAFE DISTANCE AND FROM A PROTECTED LOCATION. HEAT MAY BUILD PRESSURE AND RUPTURE CLOSED

PN: 516005670

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CONTAINERS, SPREADING THE FIRE AND INCREASING THE RISK OF BURNS AND INJURIES.

INCOMPLETE THERMAL DECOMPOSITION MAY PRODUCE CARBON DIOXIDE, CARBON MONOXIDE AND NITROGEN OXIDES.

\* \* \* \* \* SECTION V - HEALTH HAZARD DATA \* \* \* \* \*

CALIFORNIA PROPOSITION 65:

PRODUCT OR PRODUCT COMPONENTS ARE REGULATED UNDER CALIF. PROPOSITION 65.

CARCINOGENIC DETERMINATION:

PRODUCT OR COMPONENTS ARE LISTED AS A POTENTIAL CARCINOGEN ACCORDING TO : NTP, IARC, AND OSHA

PRODUCT TOXICITY DATA: NOT DETERMINED

PRODUCT TLV: NOT ESTABLISHED

----- EFFECTS OF EXPOSURE -----

ROUTES OF EXPOSURE:

EYE OR SKIN CONTACT, INHALATION.

EYE:

MAY CAUSE EYE IRRITATION.

SKIN:

FREQUENT OR PROLONGED CONTACT WILL DRY AND DEFAT THE SKIN, POSSIBLY LEADING TO IRRITATION AND DERMATITIS. REPEATED CONTACT MAY SENSITIZE THE SKIN.

INHALATION:

HIGH CONCENTRATIONS MAY CAUSE CENTRAL NERVOUS SYSTEM DEPRESSION. THIS MAY BE EVIDENCED BY GIDDINESS, HEADACHES, DIZZINESS, NAUSEA, VOMITING OR POSSIBLY UNCONSCIOUSNESS.

VAPORS, MIST OR SPRAY MAY CAUSE IRRITATION.

INGESTION:

IRRITATION OF THE MOUTH AND THROAT, ABDOMINAL PAIN, NAUSEA AND VOMITING, DIARRHEA, AND COLLAPSE MAY RESULT FROM INGESTION.

ASPIRATION INTO LUNGS BY INGESTION OR VOMITING, MAY CAUSE CHEMICAL PNEUMONITIS RESULTING IN EDEMA AND HEMORRAGE AND MAY BE FATAL. SYMPTOMS INCLUDE INCREASED RESPIRATORY RATE AND BLuish DISCOLORATION OF SKIN.

COUGHING AND GAGGING ARE OFTEN NOTED AT THE TIME OF ASPIRATION.

CHRONIC EFFECTS:

PROLONGED OR REPEATED APPLICATION OF A SIMILAR PRODUCT TO THE SKIN OF LAB LABORATORY MICE WITHOUT WASHING BETWEEN APPLICATIONS RESULTED IN INCREASED INCIDENCE OF SKIN TUMORS. IT IS SUSPECTED THAT TUMORS MAY BE DUE IN PART TO SEVERELY IRRITATED CONDITIONS FROM CONTINUOUS CONTACT WITH THE PRODUCT.

OTHER SYMPTOMS AFFECTED:

BECAUSE OF ITS IRRITATING PROPERTIES, THIS MATERIAL MAY AGGRAVATE AN EXISTING DERMATITIS.

----- EMERGENCY AND FIRST AID PROCEDURES -----

EYE:

IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. IF IRRITATION PERSISTS, SEEK PROMPT MEDICAL ATTENTION.

SKIN:

PROMPTLY WASH SKIN WITH SOAP AND WATER. IF IRRITATION DEVELOPS, SEEK MEDICAL

ATTENTION.

INHALATION:

REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION, PREFERABLY MOUTH-TO-MOUTH. IF BREATHING IS DIFFICULT, GIVE OXYGEN. SEEK PROMPT MEDICAL ATTENTION.

INGESTION:

DO NOT INDUCE VOMITING! ASPIRATION INTO LUNGS DUE TO VOMITING CAN CAUSE CHEMICAL PNEUMONITIS WHICH CAN BE FATAL. IF VOMITING OCCURS SPONTANEOUSLY, KEEP HEAD BELOW HIPS TO PREVENT ASPIRATION OF LIQUID INTO LUNGS.

\* \* \* \* \* SECTION VI - REACTIVITY DATA \* \* \* \* \*

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STABILITY: STABLE

CONDITIONS TO AVOID:

HEAT, SPARKS AND OPEN FLAME.

INCOMPATIBILITY (MATERIALS TO AVOID):

STRONG OXIDIZERS.

HAZARDOUS DECOMPOSITION PRODUCTS:

NITROGEN OXIDES, CARBON DIOXIDE AND/OR CARBON MONOXIDE.

HAZARD POLYMERIZATION: WON'T OCCUR

CONDITIONS TO AVOID:

NOT APPLICABLE.

\* \* \* \* \* SECTION VII - SPILL OR LEAK PROCEDURES \* \* \* \* \*

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

USE PROTECTIVE EQUIPMENT. ISOLATE SPILL AREA AND STOP LEAK WHERE SAFE. REMOVE IGNITION SOURCES. CONTAIN AND ABSORB SPILL WITH SAND OR OTHER INERT MATERIAL. SCOOP OR SWEEP UP USING NON-SPARKING TOOLS. IN ENCLOSED AREAS, WEAR SELF-CONTAINED BREATHING APPARATUS.

WASTE DISPOSAL METHOD:

GET APPROVAL FROM HAZARDOUS WASTE DISPOSAL SITE AUTHORIZED UNDER EPA-RCRA SUBTITLE C OR STATE EQUIVALENT. SHIP TO SITE.

\* \* \* \* \* SECTION VIII - SPECIAL PROTECTION INFORMATION \* \* \* \* \*

RESPIRATORY PROTECTION (USE NIOSH/MSHA APPROVED EQUIPMENT):

ORGANIC VAPOR CARTRIDGE RESPIRATOR WITH A DUST-MIST FILTER.

IN OXYGEN DEFICIENT AREAS OR CONFINED SPACES, POSITIVE PRESSURE SUPPLIED-AIR RESPIRATOR WITH 5-MINUTE AUXILIARY BOTTLE, OR PRESSURE-DEMAND OR POSITIVE PRESSURE SELF-CONTAINED BREATHING APPARATUS.

VENTILATION:

USE ONLY WITH ADEQUATE VENTILATION. LOCAL EXHAUST VENTILATION SHOULD BE USED IN AREAS WITHOUT GOOD CROSS VENTILATION.

LOCAL EXHAUST VENTILATION MUST BE DESIGNED FOR COMBUSTIBLE ATMOSPHERES (NEC CLASS II EQUIPMENT).

PROTECTIVE GLOVES:

IMPERVIOUS RUBBER GLOVES.

EYE PROTECTION:

WEAR GOGGLES AND/OR FACE SHIELD. PROVIDE EYEWASH AND QUICK DRENCH SYSTEM.

OTHER PROTECTIVE EQUIPMENT:

RUBBER APRON TO PREVENT DIRECT SKIN CONTACT.

\* \* \* \* \* SECTION IX - SPECIAL PRECAUTIONS \* \* \* \* \*

PRECAUTIONARY LABELING LGC-VIII CONCENTRATE - BULK

516.005670

WARNING!

MAY CAUSE HEADACHE, DIZZINESS AND OTHER CENTRAL NERVOUS SYSTEM EFFECTS. MAY CAUSE IRRITATION TO THE EYES, SKIN OR RESPIRATORY SYSTEM.

COMBUSTIBLE!

FOR PRECAUTIONARY STATEMENTS, REFER TO SECTIONS IV-VIII.

OTHER HANDLING AND STORAGE CONDITIONS:

- STORE AWAY FROM OXIDIZERS.
- KEEP FROM HEAT, SPARKS, AND OPEN FLAME.
- KEEP CONTAINER CLOSED WHEN NOT IN USE.
- AVOID CONTACT WITH SKIN, EYES AND CLOTHING.
- AVOID BREATHING VAPORS.

CONTAINER DISPOSITION:

EMPTY CONTAINER COMPLETELY. TRANSPORT CONTAINER WITH ALL CLOSURES IN PLACE. RETURN FOR REUSE OR DISPOSE IN A SANITARY LANDFILL BY FIRST OBTAINING LANDFILL OPERATOR'S AUTHORIZATION.

\*\*\*\*\* SECTION X - TRANSPORTATION INFORMATION \*\*\*\*\*

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DOT SHIPPING DESCRIPTION:

DIESEL FUEL SOLUTION - 3 - NA1993 - III

\*\*\*\*\* SECTION XI - ENVIRONMENTAL EVALUATION \*\*\*\*\*

EPA SUPERFUND(SARA) TITLE III - HAZARD CLASSIFICATION & ASSOCIATED INFORMATION

FIRE: Y PRESSURE: N REACTIVE: N ACUTE (IMMEDIATE): Y  
CHRONIC (DELAYED): Y MIXTURE OR PURE MATERIAL: MIX

B. EPA - CERCLA/SUPERFUND, 40 CFR 302 (REPORTABLE SPILL QUANTITY)  
N/A

C. EPA - SARA TITLE III, CFR 355 (EXTREMELY HAZARDOUS SUBSTANCES)  
PRODUCT CONTAINS NO EXTREMELY HAZARDOUS COMPONENTS

D. EPA - SARA TITLE III, 40 CFR 372 (LIST OF TOXIC CHEMICALS)

COMPONENT NAME	CAS-REG-NO	PCT
ETHOXYLATED NONYLPHENOL	9016-45-9	1-10 %

E. COMPONENTS LISTED ON FOLLOWING CHEMICAL INVENTORIES  
TSCA YES CEPA NE EEC N/D ACOIN N/D NPR NE DRSM NE

H. EPA - RCRA (HAZARDOUS WASTE), 40 CFR 261

IF PRODUCT BECOMES A WASTE, IT DOES MEET THE CRITERIA OF A HAZARDOUS WASTE AS DEFINED BY US EPA BECAUSE OF:

IGNITABILITY

\*\*\*\*\*

THE INFORMATION WHICH IS CONTAINED IN THIS DOCUMENT IS BASED UPON AVAILABLE DATA AND BELIEVED TO BE CORRECT. HOWEVER, AS SUCH AS IT HAS BEEN OBTAINED FROM VARIOUS SOURCES, INCLUDING THE MANUFACTURER AND INDEPENDENT LABORATORIES, IT IS GIVEN WITHOUT WARRANTY OR REPRESENTATION THAT IT IS COMPLETE, ACCURATE AND CAN BE RELIED UPON. HALLIBURTON HAS NOT ATTEMPTED TO CONCEAL IN ANY WAY THE DELETERIOUS ASPECTS OF THE PRODUCT LISTED HEREIN, BUT MAKES NO WARRANTY AS TO SUCH. FURTHER, AS HALLIBURTON CANNOT ANTICIPATE NOR CONTROL THE MANY

SITUATIONS IN WHICH THE LISTED PRODUCT OR THIS INFORMATION MAY BE USED BY OUR CUSTOMER, THERE IS NO GUARANTEE THAT THE HEALTH AND SAFETY PRECAUTIONS SUGGESTED WILL BE PROPER UNDER ALL CONDITIONS. IT IS THE SOLE RESPONSIBILITY OF EACH USER OF THE LISTED PRODUCT TO DETERMINE AND COMPLY WITH THE REQUIREMENTS OF ALL APPLICABLE LAWS AND REGULATIONS REGARDING ITS USE OR DISPOSAL. THIS INFORMATION IS GIVEN SOLELY FOR THE PURPOSES OF HEALTH AND SAFETY TO PERSONS AND PROPERTY. ANY OTHER USE OF THIS INFORMATION IS EXPRESSLY PROHIBITED. HEALTH, SAFETY AND ENVIRONMENT DEPARTMENT, HALLIBURTON ENERGY SERVICES.



SAM

632-1865

Jerry Dmoran

320-6496



# FRACTURING CALL SHEET

Date: 1/27/00  
Land/Water: LAND

Quote Number: \_\_\_\_\_ Sales Order: \_\_\_\_\_ K.B. Number: \_\_\_\_\_  
 Company: RED WILLOW Lease: SOUTHERN UTE FC 33-11 Well Number: #1-3  
 Company Rep.: BOB SAGEL Mobil: 970-749-0473 Pager: \_\_\_\_\_ Office: \_\_\_\_\_  
 Contractor: KEY Unit Number: 6 Unit Type: \_\_\_\_\_  
 Town: \_\_\_\_\_ County: LA PLATA State: COLORADO  
 Round Trip Mileage: \_\_\_\_\_ API Number: \_\_\_\_\_ H2S Present? % CO2 Present? %

### Directions

HWY 550 NORTH TO CEDAR HILL T.L. STAY ON MAIN ROAD TO UTE RESERVATION AND FOLLOW RIG SIGNS TO LOCATION.

### Well Related Information

Legal Description: 1-33N-11W Reservoir Properties: \_\_\_\_\_ Current Production: \_\_\_\_\_  
 Formation Name: FRUITLAND COAL Packer Depth: \_\_\_\_\_

	New/Used	Weight	Connection	Grade	Size	From MD	To MD	From TVD	To TVD	Max PSI	Comments
Casing	U	17.00			5.500	0	TD			4,250	
Liner											
Tbg./DP.											Shots / Ft.
Perforations					0.450	3,344	3,421				232 HOLES
Perforations											
Perforations											

Notes:

### Well Fluid

Fluid Types	EA	Total Volume	Water	Acid	Chemicals	Deviation:	TVD:
		Tanks/W				BHP:	Static Temp.: 125
		Tanks W/				BPM: 60	PSI: 2,773 Max PSI 4,250
		Tanks W/				Fluid BPM:	N2 scfm N2 %
		Tanks W/				N2 VOL	

### Job Purpose 1ST STAGE - DELTA SANDWEDGE

Job Purpose	Vol	Gallons	Acid System	10%FORMIC	Vol	1,000	Gallons
Gel System	Density	Lb/Gal	Treatment		Density		Lb/Gal
Treatment	BRADY	251,000	Prop. Type		Size		Lbs
Prop. Type	Size 20/40		Prop. Type		Size		Lbs
Prop. Type	Size		Prop. Type		Size		Lbs
Surfactant	Gal/Lb	/1000	Surfactant		Gal/Lb	/1000	
Foamer	Losurf300	85	Surfactant	SSD-21	Gal/Lb	2	2 /1000
Fluid Loss	Gal/Lb	5-1 /1000	Surfactant		Gal/Lb	/1000	/1000
Gelling Agent	LGC-9	675	Fluid Loss		Gal/Lb	/1000	/1000
Breaker Type	GBW-30	110	Gelling Agent		Gal/Lb	/1000	/1000
Breaker Type	Opti.H.T.E	80	Breaker Type		Gal/Lb	/1000	/1000
CrossLinker	BC-140	220	Inhibitor	MSA-II	Gal/Lb	1	1 /1000
Fric.Reducer	Gal/Lb	1.75 /1000	Iron Control		Gal/Lb	/1000	/1000
Buffer Type	Gal/Lb	/1000	Iron Control		Gal/Lb	/1000	/1000
Biocide	Gal/Lb	/1000	Buffer Type		Gal/Lb	/1000	/1000
Clay Control	Gal/Lb	/1000	Buffer Type		Gal/Lb	/1000	/1000
Sandwedge	LIQ.COAT	600	Clay Control		Gal/Lb	/1000	/1000
Blindr.	X	WHIT	Other		Gal/Lb	/1000	/1000

Blindr.	X	WHIT	Iron	X	Mnfd Tr.	X	Frac Van	X	H2O Mnfd	X
Pre Gel	X	Ann Pmp	Mt. Mov.	X	Size SG		Chem	X	N2 Pump	
HHP fluid	6,000	Pop Off	Ball Inj.		LGC Trk		Acid Tran	X	N2 Pump	
Hold Tnk.	X	Pop Off	Balls		QC	X	Acid V12		N2 Trans.	

### Procedure and/or Third Party Equipment Requirements

Call Taken By: PAT KEMPER Time: \_\_\_\_\_ Is Credit OK? \_\_\_\_\_ Checked By: \_\_\_\_\_  
 Discount% Mileage: \_\_\_\_\_ % Service: \_\_\_\_\_ % Tools: \_\_\_\_\_ % Agreed Price: \_\_\_\_\_  
 Ordered By: BOB SAGEL Operator Called: \_\_\_\_\_ Time Ready \_\_\_\_\_ W/C \_\_\_\_\_  
 Materials From: \_\_\_\_\_ Crew From: \_\_\_\_\_  
 Associated PSL's: \_\_\_\_\_

District I - (505) 393-6161  
 P.O. Box 1280  
 Hobbs, NM 88241-1980  
 District II - (505) 748-1283  
 811 S. First  
 Artesia, NM 88210  
 District III - (505) 334-6178  
 7 Rio Brazos Road  
 Socorro, NM 87410  
 District IV - (505) 827-7131

New Mexico  
 Energy Minerals and Natural Resources Department  
 Oil Conservation Division  
 2040 South Pacheco Street  
 Santa Fe, New Mexico 87505  
 (505) 827-7131

RECEIVED

Form C-138  
 Originated 8/8/95

APR 17 2000

Environmental Bureau  
 Oil Conservation Division

Submit Original  
 Plus 1 Copy  
 to appropriate  
 District Office

Env. JN: 97057.25

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/>	4. Generator <u>EPFS</u>
Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	5. Originating Site <u>Honzonara Camp Station</u>
2. Management Facility Destination <u>Envirotech Soil Remediation Facility Landfarm #2</u>	6. Transporter <u>Envirotech</u>
3. Address of Facility Operator <u>5796 US Highway 64 Farmington, NM 87401</u>	8. State <u>New Mexico</u>
7. Location of Material (Street Address or ULSTR)	<u>"E" Sec 16, T29N, R9W S1C NW</u>
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.  All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

clean up of over flow of oily waste water tank.  
TCLP Attached



Estimated Volume 20 cy Known Volume (to be entered by the operator at the end of the haul) 24 cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 4.12.00  
 Waste Management Facility Authorized Agent  
 TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Denny G. Fent TITLE: Geologist DATE: 4/13/2000  
 APPROVED BY: Martinez J. Kelly TITLE: Environmental Geologist DATE: 4/17/00

(505) 393-6161  
 Box 1980  
 Hobbs, NM 88241-1980  
 District II - (505) 748-1283  
 811 S. First  
 Artesia, NM 88210  
 District III - (505) 334-6178  
 Rio Brazos Road  
 NM 87410  
 District IV - (505) 827-7131

New Mexico  
 Energy Minerals and Natural Resources Department  
 Oil Conservation Division  
 2040 South Pacheco Street  
 Santa Fe, New Mexico 87505  
 (505) 827-7131

Form C-138  
 Originated 8/8/95

Submit Original  
 Plus 1 Copy  
 to appropriate  
 District Office

Env. JN: 97057.25

**REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE**

1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/>  Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	4. Generator <u>EPFS</u>
2. Management Facility Destination <u>Envirotech Soil Remediation Facility Landfarm #2</u>	5. Originating Site <u>Manzaneros Camp Station</u>
3. Address of Facility Operator <u>5796 US Highway 64 Farmington, NM 87401</u>	6. Transporter <u>Envirotech</u>
7. Location of Material (Street Address or ULSTR)	8. State <u>New Mexico</u>
9. <u>Circle One:</u>  A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.  All transporters must certify the wastes delivered are only those consigned for transport.	

**BRIEF DESCRIPTION OF MATERIAL:**

Clean up of overflow of oily wastewater tank.  
 TCLP Attended

Estimated Volume 20 cy Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_ cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 4.12.00  
Waste Management Facility Authorized Agent  
 TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

*(This space for State Use)*

APPROVED BY: Denny G. Feint TITLE: Geologist DATE: 4/13/2000  
 APPROVED BY: \_\_\_\_\_ TITLE: \_\_\_\_\_ DATE: \_\_\_\_\_

## CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:  El Paso Field Services Co. 614 Reilly Avenue Farmington, NM 87401	2. Destination Name:  Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico
3. Originating Site (name):  Manzanares Compressor Station	Location of Waste(Street address &/or ULSTR):  E-16-29N-9W. San Juan Co., NM
Attach list of originating sites as appropriate	
4. Source and Description of Waste  Overflow of oily wastewater tank	

I, David Bays representative for:  
(Print Name)

El Paso Field Services Co. do hereby certify that,  
according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July,  
1988 regulatory determination, the above described waste is: (Check appropriate classification)

EXEMPT Oilfield waste       NON-EXEMPT oilfield waste which is non-hazardous by  
characteristic analysis or by product identification

and that nothing has been added to the exempt or non-hazardous waste defined above.

---

For **NON-EXEMPT** waste only, the following documentation is attached (check appropriate items):

MSDS Information       Other (description)  
 RCRA Hazardous Waste Analysis  
 Chain of Custody

---

Name (Original Signature): David Bays

Title: Principal Environmental Scientist

Date: April 5, 2000

District I - (505) 393-6161

P. O. Box 1940

Hobbs, NM 88241-1980

District II - (505) 748-1283

811 S. First

Artesia, NM 88210

District III - (505) 334-6178

1000 Rio Brazos Road

Aztec, NM 87410

District IV - (505) 827-7131

# State of New Mexico

Energy Minerals and Natural Resources Departments

Oil Conservation Division

2040 South Pacheco Street

Santa Fe, New Mexico 87505

(505) 827-7131

Form C-141

Originated 2/13/97

Submit 2 Copies to  
Appropriate District  
Office in accordance  
with Rule 116

## Release Notification and Corrective Action

### OPERATOR

Initial Report

Final Report

Name El Paso Field Services Co.	Contact David Bays
Address 614 Reilly Ave Farmington, NM 87401	Telephone No. (505) 599-2256
Facility Name Manzanares Compressor Station	Facility Type Natural Gas Compressor Station

Surface Owner BLM	Mineral Owner	Lease No.
----------------------	---------------	-----------

### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
E	16	29N	9W					San Juan

### NATURE OF RELEASE

Type of Release Used lube oil mixed with wash down water	Volume released 20 bbls.	Volume Recovered none
Source of Release oily wastewater tank overflowed onto ground	Date and Hour of Occurrence 4/3/00 8:00AM	Date and Hour of Discovery 4/3/00 8:00AM
Was Immediate Notice Give? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? NMOCD - Denny Foust	
By Whom? David Bays	Date and Hour 4/3/00 9:00AM	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting Watercourse.	
If a Watercourse was Impacted, Describe Fully.*		
Describe Cause of Problem and Remedial Action Taken.* The oily wastewater tank overflowed due to high volume of rain water falling onto the compressor skids. In the future the tank will be pumped out more often during period of heavy rain.		
Describe Area Affected and Cleanup Action Taken.* The oily wastewater drained approximately 300 feet across the station yard onto a small area off site. The landowner was contacted, the soil was excavated and stockpiled for off site disposal after waste characterization results are received.		
Describe General Conditions Prevailing (Temperature, Precipitation, etc.)* Dry, light winds, soils damp from recent rains		
I hereby certify that the information given is true and correct to the best of my knowledge and belief: Signature: <i>David Bays</i>	<u>OIL CONSERVATION DIVISION</u>	
Printed Name: David Bays	Approved by District Supervisor:	
Title: Principal Environmental Scientist	Approval Date:	Expiration Date:
Date: 3/5/00	Phone: (505) 599-2256	Conditions of Approval:
		Attached: <input type="checkbox"/>

\*Attach Additional Sheets If Necessary

## SUSPECTED HAZARDOUS WASTE ANALYSIS

Client:	EPFS	Project #:	705725
Sample ID:	Lube Oil Upset	Date Reported:	04-11-00
Lab ID#:	H015	Date Sampled:	04-05-00
Sample Matrix:	Soil	Date Received:	04-05-00
Preservative:	Cool	Date Analyzed:	04-06-00
Condition:	Cool and Intact	Chain of Custody:	7778

Parameter	Result
-----------	--------

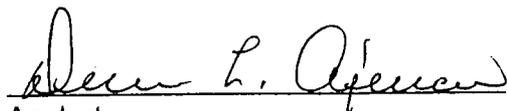
<b>IGNITABILITY:</b>	<b>Negative</b>
<b>CORROSIVITY:</b>	<b>Negative</b> <b>pH = 8.43</b>
<b>REACTIVITY:</b>	<b>Negative</b>

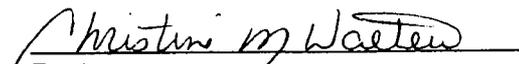
### RCRA Hazardous Waste Criteria

Parameter	Hazardous Waste Criterion
IGNITABILITY:	Characteristic of Ignitability as defined by 40 CFR, Subpart C, Sec. 261.21. (i.e. Sample ignition upon direct contact with flame or flash point < 60° C.)
CORROSIVITY:	Characteristic of Corrosivity as defined by 40 CFR, Subpart C, Sec. 261.22. (i.e. pH less than or equal to 2.0 or pH greater than or equal to 12.5)
REACTIVITY:	Characteristic of Reactivity as defined by 40 CFR, Subpart C, Sec. 261.23. (i.e. Violent reaction with water, strong base, strong acid, or the generation of Sulfide or Cyanide gases at STP with pH between 2.0 and 12.5)

Reference: 40 CFR part 261 Subpart C sections 261.21 - 261.23, July 1, 1992.

Comments: **Manzanares Comp. Station.**

  
Analyst

  
Review

Client:	EPFS	Project #:	705725
Sample ID:	Lube Oil Upset	Date Reported:	04-10-00
Laboratory Number:	H015	Date Sampled:	04-05-00
Chain of Custody:	7778	Date Received:	04-05-00
Sample Matrix:	TCLP Extract	Date Extracted:	04-06-00
Preservative:	Cool	Date Analyzed:	04-07-00
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	0.0092	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	0.0010	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

ND - Parameter not detected at the stated detection limit.

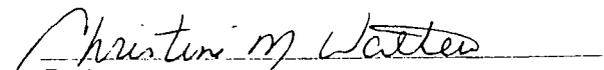
QA/QC Acceptance Criteria	Parameter	Percent Recovery
	Trifluorotoluene	98%
	Bromofluorobenzene	99%

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
 Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.  
 Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994.  
 Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Note: Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments: **Manzanares Comp. Station.**

  
Analyst

  
Review

Client:	EPFS	Project #:	705725
Sample ID:	Lube Oil Upset	Date Reported:	04-12-00
Laboratory Number:	H015	Date Sampled:	04-05-00
Chain of Custody:	7778	Date Received:	04-05-00
Sample Matrix:	TCLP Extract	Date Extracted:	04-06-00
Preservative:	Cool	Date Analyzed:	04-12-00
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	ND	0.020	200
p,m-Cresol	ND	0.040	200
2,4,6-Trichlorophenol	ND	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400
Pentachlorophenol	ND	0.020	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	2-Fluorophenol	98%
	2,4,6-Tribromophenol	99%

References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

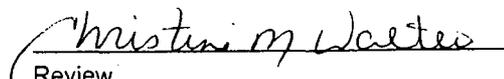
Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

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

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments: **Manzanares Comp. Station.**

  
Analyst

  
Review

Client:	EPFS	Project #:	705725
Sample ID:	Lube Oil Upset	Date Reported:	04-12-00
Laboratory Number:	H015	Date Sampled:	04-05-00
Chain of Custody:	7778	Date Received:	04-05-00
Sample Matrix:	TCLP Extract	Date Extracted:	04-06-00
Preservative:	Cool	Date Analyzed:	04-11-00
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	0.020	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

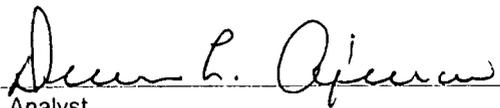
ND - Parameter not detected at the stated detection limit.

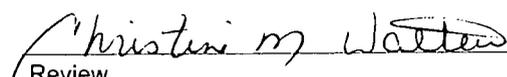
QA/QC Acceptance Criteria	Parameter	Percent Recovery
	2-fluorobiphenyl	98%

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.  
Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note: Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments: Manzanares Comp. Station.

  
Analyst

  
Review

EPA METHOD 1311  
TOXICITY CHARACTERISTIC  
LEACHING PROCEDURE  
TRACE METAL ANALYSIS

Client:	EPFS	Project #:	705725
Sample ID:	Lube Oil Upset	Date Reported:	04-11-00
Laboratory Number:	H015	Date Sampled:	04-05-00
Chain of Custody:	7778	Date Received:	04-05-00
Sample Matrix:	TCLP Extract	Date Analyzed:	04-10-00
Preservative:	Cool	Date Extracted:	04-06-00
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
Arsenic	0.033	0.001	5.0
Barium	1.20	0.001	21
Cadmium	0.019	0.001	0.11
Chromium	0.007	0.001	0.60
Lead	0.028	0.001	0.75
Mercury	ND	0.001	0.025
Selenium	ND	0.001	5.7
Silver	0.001	0.001	0.14

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, December 1996.

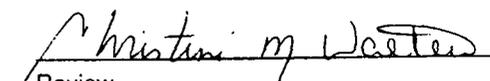
Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, December 1996.

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

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

Comments: **Manzanares Comp. Station.**

  
Analyst

  
Review

# ENVIROTECH LABS

**PRACTICAL SOLUTIONS FOR A BETTER TOMORROW**

**QUALITY ASSURANCE / QUALITY CONTROL**

**DOCUMENTATION**

**EPA METHODS 8010/8020  
AROMATIC / HALOGENATED  
VOLATILE ORGANICS  
Quality Assurance Report**

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	04-10-00
Laboratory Number:	04-07-TCLP VOL	Date Sampled:	N/A
Sample Matrix:	Water	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	04-07-00
Condition:	N/A	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	ND	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	ND	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

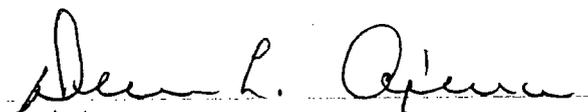
ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery
	Trifluorotoluene	100%
	Bromofluorobenzene	100%

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
 Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.  
 Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994.  
 Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Note: Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments: QA/QC for sample H015.

  
 Analyst

  
 Review

EPA METHODS 8010/8020  
AROMATIC / HALOGENATED  
VOLATILE ORGANICS  
Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	04-10-00
Laboratory Number:	04-06-TV-MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	04-07-00
Condition:	N/A	Date Extracted:	04-06-00
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	ND	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	ND	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

ND - Parameter not detected at the stated detection limit.

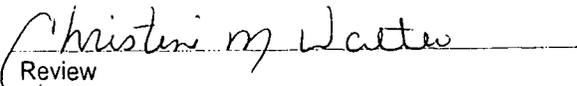
QA/QC Acceptance Criteria	Parameter	Percent Recovery
	Trifluorotoluene	99%
	Bromofluorobenzene	98%

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.  
Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994.  
Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Note: Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments: QA/QC for sample H015.

  
Analyst

  
Review

EPA METHODS 8010/8020  
AROMATIC / HALOGENATED  
VOLATILE ORGANICS  
QUALITY ASSURANCE REPORT

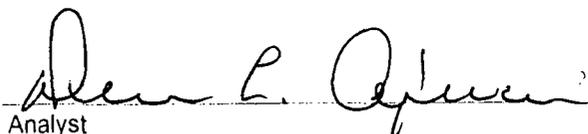
Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	04-10-00
Laboratory Number:	H015	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	04-07-00
Condition:	N/A	Date Extracted:	04-06-00

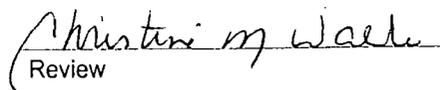
Parameter	Sample Result (mg/L)	Duplicate Sample Result (mg/L)	Detection Limits (mg/L)	Percent Difference
Vinyl Chloride	ND	ND	0.0001	0.0%
1,1-Dichloroethene	ND	ND	0.0001	0.0%
2-Butanone (MEK)	0.0092	0.0092	0.0001	0.0%
Chloroform	ND	ND	0.0001	0.0%
Carbon Tetrachloride	ND	ND	0.0001	0.0%
Benzene	0.0010	0.0010	0.0001	0.0%
1,2-Dichloroethane	ND	ND	0.0001	0.0%
Trichloroethene	ND	ND	0.0003	0.0%
Tetrachloroethene	ND	ND	0.0005	0.0%
Chlorobenzene	ND	ND	0.0003	0.0%
1,4-Dichlorobenzene	ND	ND	0.0002	0.0%

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.  
Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994.  
Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Comments: QA/QC for sample H015.

  
Analyst

  
Review

EPA METHODS 8010/8020  
AROMATIC / HALOGENATED  
VOLATILE ORGANICS  
QUALITY ASSURANCE REPORT

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Spike	Date Reported:	04-10-00
Laboratory Number:	H015	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	04-07-00
Condition:	N/A	Date Extracted:	04-06-00

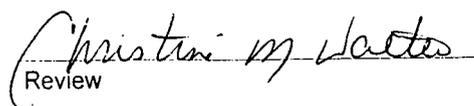
Parameter	Sample Result (mg/L)	Spike Added (mg/L)	Spiked Sample Result (mg/L)	Det. Limit (mg/L)	Percent Recovery	SW-846 % Rec. Accept. Range
Vinyl Chloride	ND	0.050	0.0495	0.0001	99%	28-163
1,1-Dichloroethene	ND	0.050	0.0494	0.0001	99%	43-143
2-Butanone (MEK)	0.0092	0.050	0.0587	0.0001	99%	47-132
Chloroform	ND	0.050	0.0498	0.0001	100%	49-133
Carbon Tetrachloride	ND	0.050	0.0491	0.0001	98%	43-143
Benzene	0.0010	0.050	0.0508	0.0001	100%	39-150
1,2-Dichloroethane	ND	0.050	0.0494	0.0001	99%	51-147
Trichloroethene	ND	0.050	0.0494	0.0003	99%	35-146
Tetrachloroethene	ND	0.050	0.0494	0.0005	99%	26-162
Chlorobenzene	ND	0.050	0.0494	0.0003	99%	38-150
1,4-Dichlorobenzene	ND	0.050	0.0494	0.0002	99%	42-143

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.  
Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994.  
Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Comments: QA/QC for sample H015.

  
Analyst

  
Review

**EPA METHOD 8040  
PHENOLS  
Quality Assurance Report  
Laboratory Blank**

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	04-12-00
Laboratory Number:	04-12-TCA	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	04-12-00
Condition:	N/A	Analysis Requested:	TCLP

Analytical Results	Concentration	Detection	Regulatory
Parameter	(mg/L)	Limit	Limit
		(mg/L)	(mg/L)
o-Cresol	ND	0.020	200
p,m-Cresol	ND	0.040	200
2,4,6-Trichlorophenol	ND	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400
Pentachlorophenol	ND	0.020	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	2-fluorophenol	98 %
	2,4,6-tribromophenol	99 %

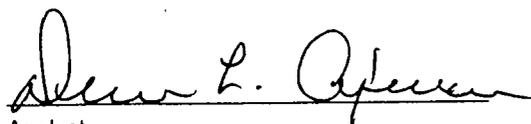
References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

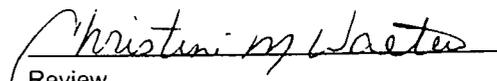
Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

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

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments: QA/QC for sample H015.

  
Analyst

  
Review

**EPA METHOD 8040  
PHENOLS  
Quality Assurance Report**

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	04-12-00
Laboratory Number:	04-06-TCA-MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	04-06-00
Condition:	Cool & Intact	Date Analyzed:	04-12-00
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	ND	0.020	200
p,m-Cresol	ND	0.040	200
2,4,6-Trichlorophenol	ND	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400
Pentachlorophenol	ND	0.020	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	2-Fluorophenol	98%
	2,4,6-Tribromophenol	99%

References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

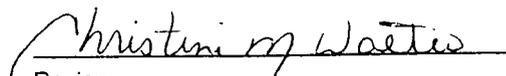
Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

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

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments: **QA/QC for sample H015.**

  
Analyst

  
Review

EPA METHOD 8040  
PHENOLS  
Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	04-12-00
Laboratory Number:	H015	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	04-06-00
Condition:	Cool & Intact	Date Analyzed:	04-12-00
		Analysis Requested:	TCLP

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Detection Limit (mg/L)	Percent Difference
o-Cresol	ND	ND	0.020	0.0%
p,m-Cresol	ND	ND	0.040	0.0%
2,4,6-Trichlorophenol	ND	ND	0.020	0.0%
2,4,5-Trichlorophenol	ND	ND	0.020	0.0%
Pentachlorophenol	ND	ND	0.020	0.0%

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Maximum Difference
	8040 Compounds	30.0%

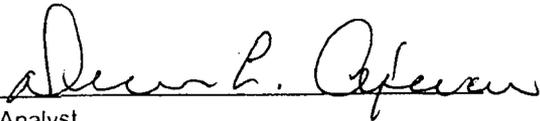
References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

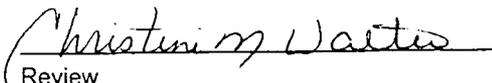
Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

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

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments: QA/QC for sample H015.

  
Analyst

  
Review

**EPA Method 8090  
Nitroaromatics and Cyclic Ketones  
TCLP Base/Neutral Organics  
Quality Assurance Report**

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	04-12-00
Laboratory Number:	04-11-TBN	Date Sampled:	N/A
Sample Matrix:	Hexane	Date Received:	N/A
Preservative:	N/A	Date Extracted:	N/A
Condition:	N/A	Date Analyzed:	04-11-00
		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	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery
	2-fluorobiphenyl	96%

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
 Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.  
 Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note: Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments: QA/QC for sample H015.

  
 Analyst

  
 Review

**EPA Method 8090  
Nitroaromatics and Cyclic Ketones  
TCLP Base/Neutral Organics  
QUALITY ASSURANCE REPORT**

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	04-12-00
Laboratory Number:	04-06-BN-MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	04-06-00
Condition:	Cool and Intact	Date Analyzed:	04-11-00
		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	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

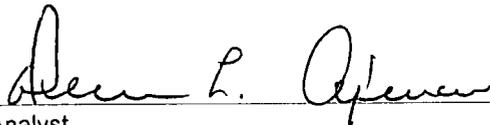
ND - Parameter not detected at the stated detection limit.

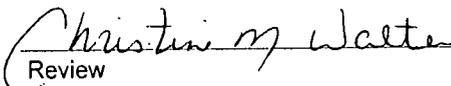
QA/QC Acceptance Criteria	Parameter	Percent Recovery
	2-fluorobiphenyl	95%

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.  
Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note: Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments: QA/QC for sample H015.

  
Analyst

  
Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8090  
Nitroaromatics and Cyclic Ketones  
TCLP Base/Neutral Organics  
QA/QC Matrix Duplicate Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	04-12-00
Laboratory Number:	H015	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Extracted:	04-06-00
Condition:	N/A	Date Analyzed:	04-11-00
		Analysis Requested:	TCLP

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Percent Difference	Det. Limit (mg/L)
Pyridine	ND	ND	0.0%	0.020
Hexachloroethane	ND	ND	0.0%	0.020
Nitrobenzene	ND	ND	0.0%	0.020
Hexachlorobutadiene	ND	ND	0.0%	0.020
2,4-Dinitrotoluene	ND	ND	0.0%	0.020
HexachloroBenzene	ND	ND	0.0%	0.020

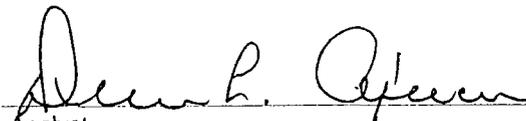
ND - Parameter not detected at the stated detection limit.

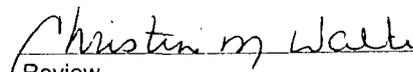
QA/QC Acceptance Criteria	Parameter	Maximum Difference
	8090 Compounds	30%

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.  
Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note: Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments: QA/QC for sample H015.

  
Analyst

  
Review

EPA METHOD 1311  
TOXICITY CHARACTERISTIC  
LEACHING PROCEDURE  
TRACE METAL ANALYSIS  
Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	04-10-TCM QA/QC	Date Reported:	04-11-00
Laboratory Number:	H015	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP Metals	Date Analyzed:	04-10-00
Condition:	N/A	Date Extracted:	N/A

Blank & Duplicate Conc. (mg/L)	Instrument Blank	Method Blank	Detection Limit	Sample	Duplicate	% Diff	Acceptance Range
Arsenic	ND	ND	0.001	0.033	0.032	3.0%	0% - 30%
Barium	ND	ND	0.001	1.20	1.18	1.7%	0% - 30%
Cadmium	ND	ND	0.001	0.019	0.019	0.0%	0% - 30%
Chromium	ND	ND	0.001	0.007	0.007	0.0%	0% - 30%
Lead	ND	ND	0.001	0.028	0.028	0.0%	0% - 30%
Mercury	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Selenium	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Silver	ND	ND	0.001	0.001	0.001	0.0%	0% - 30%

Spike Conc. (mg/L)	Spike Added	Sample	Spiked Sample	Percent Recovery	Acceptance Range
Arsenic	0.500	0.033	0.532	99.8%	80% - 120%
Barium	0.500	1.20	1.69	99.4%	80% - 120%
Cadmium	0.500	0.019	0.518	99.8%	80% - 120%
Chromium	0.500	0.007	0.507	100.0%	80% - 120%
Lead	0.500	0.028	0.527	99.8%	80% - 120%
Mercury	0.050	ND	0.049	98.0%	80% - 120%
Selenium	0.500	ND	0.499	99.8%	80% - 120%
Silver	0.500	0.001	0.500	99.8%	80% - 120%

ND - Parameter not detected at the stated detection limit.

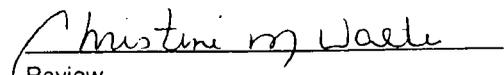
References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, Dec. 1996

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, December 1996.

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

Comments: QA/QC for sample H015.

  
Analyst

  
Review

# CHAIN OF CUSTODY RECORD

7778

Client / Project Name			Project Location		ANALYSIS / PARAMETERS									
EPFS			MANZARES Comp Station.											
Sampler: HARLAN H. BROWN			Client No. 97057-25		No. of Containers 1	TRCP 4/0 HELP								Remarks
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix										
Lube Oil Upset	04/05/00	9:20	H015	Soil	1	✓								
Relinquished by: (Signature) <i>Harlan H. Brown</i>			Date	Time	Received by: (Signature) <i>Debra L. Cyprian</i>			Date	Time					
			04/05/00	10:55				04/05/00	10:58					
Relinquished by: (Signature)					Received by: (Signature)									
Relinquished by: (Signature)					Received by: (Signature)									
<b>ENVIROTECH INC.</b> 5796 U.S. Highway 64 Farmington, New Mexico 87401 (505) 632-0615							Sample Receipt							
								Y	N	N/A				
							Received Intact	✓						
							Cool - Ice/Blue Ice	✓						

District I - (505) 393-6161  
 P.O. Box 1980  
 Hobbs, NM 88241-1980  
 District II - (505) 748-1283  
 811 S. First  
 Artesia, NM 88210  
 District III - (505) 334-6178  
 Rio Brazos Road  
 NM 87410  
 District IV - (505) 827-7131

New Mexico  
 Energy Minerals and Natural Resources Department  
 Oil Conservation Division  
 2040 South Pacheco Street  
 Santa Fe, New Mexico 87505  
 (505) 827-7131

Form C-138  
 Originated 8/8/95

Submit Original  
 Plus 1 Copy  
 to appropriate  
 District Office

Env. JN: 92132-07

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/>	Danger found OIC to Hold for Approval	4. Generator <u>Halliburton          Energy Services</u>
Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		5. Originating Site <u>Main Yard</u>
2. Management Facility Destination <u>Envirotech Soil Remediation          Facility Landfarm #2</u>		6. Transporter <u>Envirotech</u>
3. Address of Facility Operator <u>5796 US Highway 64          Farmington, NM 87401</u>		8. State <u>New Mexico</u>
7. Location of Material (Street Address or ULSTR)		<u>4109 E. Main          Farmington, NM 87401</u>
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.  All transporters must certify the wastes delivered are only those consigned for transport.		

BRIEF DESCRIPTION OF MATERIAL:

Cleanup of LEC VIII Concentrate released as a result of vandalism.  
 Gear gun product activated to gel due to contact w/ storm  
 water on pavement and is 2nd containment.  
 MSDS attached.



Estimated Volume 4600 gal. cy Known Volume (to be entered by the operator at the end of the haul) 643666 cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 03-27-00  
 Waste Management Facility Authorized Agent  
 TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Denny G. Feist TITLE: Geologist DATE: 3/28/00  
 APPROVED BY: Roger [Signature] TITLE: Bureau Chief DATE: 3/31/00



NEW MEXICO ENERGY, MINERALS  
& NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION  
AZTEC DISTRICT OFFICE  
1000 RIO BRAZOS ROAD  
AZTEC, NEW MEXICO 87410  
(505) 334-6170 Fax (505) 334-6170

GARY E. JOHNSON  
GOVERNOR

JENNIFER A. SALISBURY  
CABINET SECRETARY

**CERTIFICATE OF WASTE STATUS**

<p>1. Generator Name and Address: HALLIBURTON ENERGY SERVICES 4109 E MAZUS ST. FARMINGTON N.M. 87410</p>	<p>2. Destination Name: Envirotech Inc. Soil Remediation Remediation Facility Landfarm #2, Hilltop, New Mexico 5796 US Hwy 64, Farmington, NM 87401</p>
<p>3. Originating Site (name): MAZUS ST. FACILITY</p>	<p>Location of the Waste (Street address &amp;/or ULSTR):</p>
<p>Attach list of originating sites as appropriate</p>	
<p>4. Source and Description of Waste VANDERBILT LGC-B TANK</p>	<p>4600 gals of diesel based gelling agent. W87 3/28/00</p>

I, ROBERT SMITH (Print Name) representative for:

HALLIBURTON ENERGY SERVICES do hereby certify that, according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July, 1988, regulatory determination, the above described waste is: (Check appropriate classification)

EXEMPT oilfield waste       NON-EXEMPT oilfield waste which is non-hazardous by characteristic analysis or by product identification

and that nothing has been added to the exempt or non-exempt non-hazardous waste defined above.

For NON-EXEMPT waste the following documentation is attached (check appropriate items):

- MSDS Information
- RCRA Hazardous Waste Analysis
- Chain of Custody
- Other (description):

This waste is in compliance with Regulated Levels of Naturally Occurring Radioactive Material (NORM) pursuant to 20 NMAC 3.1 subpart 1403.C and D.

Name (Original Signature): ROBERT SMITH

Title: HES ADVISOR

Date: 3-24-00

4600g

LGC-VIII CONCENTRATE - BULK

MATERIAL SAFETY DATA SHEET  
HALLIBURTON ENERGY SERVICES  
DUNCAN, OKLAHOMA 73536

DATE: 03-23-00  
REVISED DATE 04-07-99

EMERGENCY TELEPHONE: 800/666-9260 OR 580/251-3359  
EMERGENCY TELEPHONE: 800/666-9260 OR 580/251-3359

\*\*\*\*\* SECTION I - PRODUCT DESCRIPTION \*\*\*\*\*

CHEMICAL CODE: LGC-VIII CONCENTRATE - BULK PART NUMBER: 516005670  
PKG QTY: CARGO TANK APPLICATION: CONCENTRATE  
SERVICE USED: STIMULATION

\*\*\*\*\* SECTION II - COMPONENT INFORMATION \*\*\*\*\*

COMPONENT	PERCENT	TLV	PEL
GUAR GUM <i>4000 lb.</i>	31-60 %	10 MG/M3	15 MG/M3
ETHOXYLATED NONYLPHENOL	1-10 %	NOT EST	NOT EST
DIESEL <i>1080 gallon</i>	31-60 %	NOT EST	NOT EST

\*\*\*\*\* SECTION III - PHYSICAL DATA \*\*\*\*\*

PROPERTY MEASUREMENT

APPEARANCE	YELLOWISH LIQUID, GEL
ODOR	DIESEL
SPECIFIC GRAVITY (H2O=1)	1.035
BULK DENSITY	8.62 LB/GAL
PH	NOT DETERMINED
SOLUBILITY IN WATER AT 20 DEG C. GMS/100ML H2O	NIL
BIODEGRADABILITY	SLOWLY
PERCENT VOLATILES	100
EVAPORATION RATE (BUTYL ACETATE=1)	<1
VAPOR DENSITY	5-6
VAPOR PRESSURE (MMHG)	N/D
BOILING POINT (760 MMHG)	300 F / 148 C
POUR POINT	N/D
FREEZE POINT	N/D
SOLUBILITY IN SEAWATER	NOT EVALUATED
PARTITION COEF (OCTANOL IN WATER)	NOT EVALUATED

\*\*\*\*\* SECTION IV - FIRE AND EXPLOSION DATA \*\*\*\*\*

NFPA(704) RATING:  
 HEALTH 1 FLAMMABILITY 2 REACTIVITY 0 SPECIAL NONE  
 FLASH POINT 128 F / 53 C FLASH MTHD TCC  
 AUTOIGNITION TEMPERATURE ND F / ND C  
 FLAMMABLE LIMITS (OZ. PER CU. FT.) LOWER N/D UPPER N/D

\*\*\*\*\*  
 EXTINGUISHING MEDIA:  
 USE WATER SPRAY, FOAM, DRY CHEMICAL, OR CARBON DIOXIDE.  
 SPECIAL FIRE FIGHTING PROCEDURES:  
 USE WATER SPRAY TO COOL FIRE-EXPOSED SURFACES.

FULL PROTECTIVE CLOTHING AND NIOSH/MSHA APPROVED SELF-CONTAINED BREATHING APPARATUS REQUIRED FOR FIRE FIGHTING PERSONNEL.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

MAY BE IGNITED BY HEAT, SPARKS, OR FLAMES. FIGHT FIRE FROM A SAFE DISTANCE AND FROM A PROTECTED LOCATION. HEAT MAY BUILD PRESSURE AND RUPTURE CLOSED

PN: 516005670

PAGE 2

CONTAINERS, SPREADING THE FIRE AND INCREASING THE RISK OF BURNS AND INJURIES.

INCOMPLETE THERMAL DECOMPOSITION MAY PRODUCE CARBON DIOXIDE, CARBON MONOXIDE AND NITROGEN OXIDES.

\* \* \* \* \* SECTION V - HEALTH HAZARD DATA \* \* \* \* \*

CALIFORNIA PROPOSITION 65:

PRODUCT OR PRODUCT COMPONENTS ARE REGULATED UNDER CALIF. PROPOSITION 65.

CARCINOGENIC DETERMINATION:

PRODUCT OR COMPONENTS ARE LISTED AS A POTENTIAL CARCINOGEN ACCORDING TO : NTP, IARC, AND OSHA

PRODUCT TOXICITY DATA: NOT DETERMINED

PRODUCT TLV: NOT ESTABLISHED

----- EFFECTS OF EXPOSURE -----

ROUTES OF EXPOSURE:

EYE OR SKIN CONTACT, INHALATION.

EYE:

MAY CAUSE EYE IRRITATION.

SKIN:

FREQUENT OR PROLONGED CONTACT WILL DRY AND DEFAT THE SKIN, POSSIBLY LEADING TO IRRITATION AND DERMATITIS. REPEATED CONTACT MAY SENSITIZE THE SKIN.

INHALATION:

HIGH CONCENTRATIONS MAY CAUSE CENTRAL NERVOUS SYSTEM DEPRESSION. THIS MAY BE EVIDENCED BY GIDDINESS, HEADACHES, DIZZINESS, NAUSEA, VOMITING OR POSSIBLY UNCONSCIOUSNESS.

VAPORS, MIST OR SPRAY MAY CAUSE IRRITATION.

INGESTION:

IRRITATION OF THE MOUTH AND THROAT, ABDOMINAL PAIN, NAUSEA AND VOMITING, DIARRHEA, AND COLLAPSE MAY RESULT FROM INGESTION.

ASPIRATION INTO LUNGS BY INGESTION OR VOMITING, MAY CAUSE CHEMICAL PNEUMONITIS RESULTING IN EDEMA AND HEMORRAGE AND MAY BE FATAL. SYMPTOMS INCLUDE INCREASED RESPIRATORY RATE AND BLUISH DISCOLORATION OF SKIN.

COUGHING AND GAGGING ARE OFTEN NOTED AT THE TIME OF ASPIRATION.

CHRONIC EFFECTS:

PROLONGED OR REPEATED APPLICATION OF A SIMILAR PRODUCT TO THE SKIN OF LAB LABORATORY MICE WITHOUT WASHING BETWEEN APPLICATIONS RESULTED IN INCREASED INCIDENCE OF SKIN TUMORS. IT IS SUSPECTED THAT TUMORS MAY BE DUE IN PART TO SEVERELY IRRITATED CONDITIONS FROM CONTINUOUS CONTACT WITH THE PRODUCT.

OTHER SYMPTOMS AFFECTED:

BECAUSE OF ITS IRRITATING PROPERTIES, THIS MATERIAL MAY AGGRAVATE AN EXISTING DERMATITIS.

----- EMERGENCY AND FIRST AID PROCEDURES -----

EYE:

IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. IF IRRITATION PERSISTS, SEEK PROMPT MEDICAL ATTENTION.

SKIN:

PROMPTLY WASH SKIN WITH SOAP AND WATER. IF IRRITATION DEVELOPS, SEEK MEDICAL

ATTENTION.

INHALATION:

REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION, PREFERABLY MOUTH-TO-MOUTH. IF BREATHING IS DIFFICULT, GIVE OXYGEN. SEEK PROMPT MEDICAL ATTENTION.

INGESTION:

DO NOT INDUCE VOMITING! ASPIRATION INTO LUNGS DUE TO VOMITING CAN CAUSE CHEMICAL PNEUMONITIS WHICH CAN BE FATAL. IF VOMITING OCCURS SPONTANEOUSLY, KEEP HEAD BELOW HIPS TO PREVENT ASPIRATION OF LIQUID INTO LUNGS.

\* \* \* \* \* SECTION VI - REACTIVITY DATA \* \* \* \* \*

PN: 516005670

PAGE 3

STABILITY: STABLE

CONDITIONS TO AVOID:

HEAT, SPARKS AND OPEN FLAME.

INCOMPATIBILITY (MATERIALS TO AVOID):

STRONG OXIDIZERS.

HAZARDOUS DECOMPOSITION PRODUCTS:

NITROGEN OXIDES, CARBON DIOXIDE AND/OR CARBON MONOXIDE.

HAZARD POLYMERIZATION: WON'T OCCUR

CONDITIONS TO AVOID:

NOT APPLICABLE.

\* \* \* \* \* SECTION VII - SPILL OR LEAK PROCEDURES \* \* \* \* \*

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

USE PROTECTIVE EQUIPMENT. ISOLATE SPILL AREA AND STOP LEAK WHERE SAFE. REMOVE IGNITION SOURCES. CONTAIN AND ABSORB SPILL WITH SAND OR OTHER INERT MATERIAL. SCOOP OR SWEEP UP USING NON-SPARKING TOOLS. IN ENCLOSED AREAS, WEAR SELF-CONTAINED BREATHING APPARATUS.

WASTE DISPOSAL METHOD:

GET APPROVAL FROM HAZARDOUS WASTE DISPOSAL SITE AUTHORIZED UNDER EPA-RCRA SUBTITLE C OR STATE EQUIVALENT. SHIP TO SITE.

\* \* \* \* \* SECTION VIII - SPECIAL PROTECTION INFORMATION \* \* \* \* \*

RESPIRATORY PROTECTION (USE NIOSH/MSHA APPROVED EQUIPMENT):

ORGANIC VAPOR CARTRIDGE RESPIRATOR WITH A DUST-MIST FILTER.

IN OXYGEN DEFICIENT AREAS OR CONFINED SPACES, POSITIVE PRESSURE SUPPLIED-AIR RESPIRATOR WITH 5-MINUTE AUXILIARY BOTTLE, OR PRESSURE-DEMAND OR POSITIVE PRESSURE SELF-CONTAINED BREATHING APPARATUS.

VENTILATION:

USE ONLY WITH ADEQUATE VENTILATION. LOCAL EXHAUST VENTILATION SHOULD BE USED IN AREAS WITHOUT GOOD CROSS VENTILATION.

LOCAL EXHAUST VENTILATION MUST BE DESIGNED FOR COMBUSTIBLE ATMOSPHERES (NEC CLASS II EQUIPMENT).

PROTECTIVE GLOVES:

IMPERVIOUS RUBBER GLOVES.

EYE PROTECTION:

WEAR GOGGLES AND/OR FACE SHIELD. PROVIDE EYEWASH AND QUICK DRENCH SYSTEM.

OTHER PROTECTIVE EQUIPMENT:

RUBBER APRON TO PREVENT DIRECT SKIN CONTACT.

\* \* \* \* \* SECTION IX - SPECIAL PRECAUTIONS \* \* \* \* \*

PRECAUTIONARY LABELING LGC-VIII CONCENTRATE - BULK

516.005670

WARNING!

MAY CAUSE HEADACHE, DIZZINESS AND OTHER CENTRAL NERVOUS SYSTEM EFFECTS.  
MAY CAUSE IRRITATION TO THE EYES, SKIN OR RESPIRATORY SYSTEM.

COMBUSTIBLE!

FOR PRECAUTIONARY STATEMENTS, REFER TO SECTIONS IV-VIII.

OTHER HANDLING AND STORAGE CONDITIONS:

- STORE AWAY FROM OXIDIZERS.
- KEEP FROM HEAT, SPARKS, AND OPEN FLAME.
- KEEP CONTAINER CLOSED WHEN NOT IN USE.
- AVOID CONTACT WITH SKIN, EYES AND CLOTHING.
- AVOID BREATHING VAPORS.

CONTAINER DISPOSITION:

EMPTY CONTAINER COMPLETELY. TRANSPORT CONTAINER WITH ALL CLOSURES IN PLACE. RETURN FOR REUSE OR DISPOSE IN A SANITARY LANDFILL BY FIRST OBTAINING LANDFILL OPERATOR'S AUTHORIZATION.

\* \* \* \* \* SECTION X - TRANSPORTATION INFORMATION \* \* \* \* \*

PN: 516005670

PAGE 4

DOT SHIPPING DESCRIPTION:

DIESEL FUEL SOLUTION - 3 - NA1993 - III

\* \* \* \* \* SECTION XI - ENVIRONMENTAL EVALUATION \* \* \* \* \*

EPA SUPERFUND(SARA) TITLE III - HAZARD CLASSIFICATION & ASSOCIATED INFORMATION

FIRE: Y PRESSURE: N REACTIVE: N ACUTE (IMMEDIATE): Y  
CHRONIC (DELAYED): Y MIXTURE OR PURE MATERIAL: MIX

B. EPA - CERCLA/SUPERFUND, 40 CFR 302 (REPORTABLE SPILL QUANTITY)  
N/A

C. EPA - SARA TITLE III, CFR 355 (EXTREMELY HAZARDOUS SUBSTANCES)  
PRODUCT CONTAINS NO EXTREMELY HAZARDOUS COMPONENTS

D. EPA - SARA TITLE III, 40 CFR 372 (LIST OF TOXIC CHEMICALS)

COMPONENT NAME	CAS-REG-NO	PCT
ETHOXYLATED NONYLPHENOL	9016-45-9	1-10 %

E. COMPONENTS LISTED ON FOLLOWING CHEMICAL INVENTORIES

TSCA YES	CEPA NE	EEC N/D	ACQIN N/D	NPR NE	DRSM NE

H. EPA - RCRA (HAZARDOUS WASTE), 40 CFR 261

IF PRODUCT BECOMES A WASTE, IT DOES MEET THE CRITERIA OF A HAZARDOUS WASTE AS DEFINED BY US EPA BECAUSE OF:

IGNITABILITY

\* \* \* \* \*

THE INFORMATION WHICH IS CONTAINED IN THIS DOCUMENT IS BASED UPON AVAILABLE DATA AND BELIEVED TO BE CORRECT. HOWEVER, AS SUCH AS IT HAS BEEN OBTAINED FROM VARIOUS SOURCES, INCLUDING THE MANUFACTURER AND INDEPENDENT LABORATORIES, IT IS GIVEN WITHOUT WARRANTY OR REPRESENTATION THAT IT IS COMPLETE, ACCURATE AND CAN BE RELIED UPON. HALLIBURTON HAS NOT ATTEMPTED TO CONCEAL IN ANY WAY THE DELETERIOUS ASPECTS OF THE PRODUCT LISTED HEREIN, BUT MAKES NO WARRANTY AS TO SUCH. FURTHER, AS HALLIBURTON CANNOT ANTICIPATE NOR CONTROL THE MANY

District I - (505) 393-6161  
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 Hobbs, NM 88241-1980  
 District II - (505) 748-1283  
 811 S. First  
 Artesia, NM 88210  
 District III - (505) 334-6178  
 Rio Brazos Road  
 Socorro, NM 87410  
 District IV - (505) 827-7131

New Mexico  
 Energy Minerals and Natural Resources Department  
 Oil Conservation Division  
 2040 South Pacheco Street  
 Santa Fe, New Mexico 87505  
 (505) 827-7131

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 Originated 8/8/95

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 to appropriate  
 District Office

Env. JN: 92142

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input checked="" type="checkbox"/> Non-Exempt: <input type="checkbox"/> Verbal Approval Received: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Derry Faust. 32700 13:30	4. Generator <u>PESCO</u>
2. Management Facility Destination Envirotech Soil Remediation Facility Landfarm #2	5796 US Highway 64 Farmington, NM 87401	5. Originating Site <u>Main Yard</u>
3. Address of Facility Operator	5796 US Highway 64 Farmington, NM 87401	6. Transporter <u>Envirotech</u>
7. Location of Material (Street Address or ULSTR)	5680 US Hwy 64 Farmington, NM 87401	8. State <u>New Mexico</u>
9. <u>Circle One:</u> A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.		

BRIEF DESCRIPTION OF MATERIAL:

Solids generated during cleaning & refurbishing oil & natural gas production equipment including storage tanks, separators, dehydrators and other production equipment.  
 Norms analysis attached



Estimated Volume 15 cy Known Volume (to be entered by the operator at the end of the haul) 6 2/3 cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 03-27-00  
 Waste Management Facility Authorized Agent  
 TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Derry G. Faust TITLE: Geologist DATE: 3/28/00  
 APPROVED BY: Chad T. Linn TITLE: Deputy Inspector DATE: 3/28/2000

## CERTIFICATE OF WASTE STATUS

<b>1. Generator Name and Address:</b> PESCO 5680 Highway 64 Farmington, New Mexico 87401	<b>2. Destination Name:</b> Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico
<b>3. Originating Site (name):</b> Process Equipment & Service Company 5680 US Highway 64 Farmington, New Mexico 87401  <i>Attach list of originating sites as appropriate</i>	<b>Location of the Waste (Street address &amp;/or ULSTR):</b> Mainyard, stored in 55 gallon drums & 18 Cubic Foot Steel Boxes.
<b>4. Source and Description of Waste</b> Solids generated from cleaning and refurbishing production storage tanks, separators, dehydrators, and other production equipment.	

I, Gary Howe (Print Name) representative for: Process Equipment and Service Company, Inc. do hereby certify that, according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July, 1988, regulatory determination, the above described waste is: (Check appropriate classification)

EXEMPT oilfield waste       NON-EXEMPT oilfield waste which is non-hazardous by characteristic analysis or by product identification

and that nothing has been added to the exempt or non-exempt non-hazardous waste defined above.

For NON-EXEMPT waste only the following documentation is attached (check appropriate items):

- MSDS Information       Other (description):
- RCRA Hazardous Waste Analysis
- Chain of Custody

Name (Original Signature): *Gary W Howe*  
 Title: Safety Director  
 Date: 3-24-00



# Process Equipment & Service Company, Inc.

5680 U.S. HIGHWAY 64 • 87401 / P.O. BOX 929 • 87499  
FARMINGTON, NEW MEXICO  
PHONE: (505) 327-2222 • FAX: (505) 327-7550

## NORM SURVEY DATA SHEET

Facility / location: PESCO Date: 3-24-00

Meter Model: DOSIMETER 3007A Serial No: 9808-238

Detector Model: DOSIMETER 3012 Serial No: 201-887-7100

Calibration Date: 4-5-99

Battery Check: (X)

Background Radiation Level: 0.03 mR/hr

Description of material surveyed:  
Solid waste from oil field tanks and vessels

### Item / Material Surveyed:

Waste Material: \_\_\_\_\_ approx. gals

Equipment: \_\_\_\_\_ mR/hr: 0.03

Manufacturer: \_\_\_\_\_

Serial No: \_\_\_\_\_

Description: \_\_\_\_\_

Job No: \_\_\_\_\_

Comments: 19 CONTAINERS

Survey Conducted by: GARY W HOWE  
(Print Name)

Gary W Howe  
(Signature)

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 Lordsburg, NM 87410  
 District IV - (505) 827-7131

New Mexico  
 Energy Minerals and Natural Resources Department  
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 Santa Fe, New Mexico 87505  
 (505) 827-7131

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 Originated 8/8/95

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 Plus 1 Copy  
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 District Office

Env. JN: \_\_\_\_\_

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/>	4. Generator <u>Phillips Petroleum</u>
Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	5. Originating Site <u>Kee Energy Simon's Mesa Yard</u>
2. Management Facility Destination <u>Envirotech Soil Remediation Facility Landfarm #2</u>	6. Transporter <u>Barella</u>
3. Address of Facility Operator <u>5796 US Highway 64 Farmington, NM 87401</u>	8. State <u>New Mexico</u>
7. Location of Material (Street Address or ULSTR)	<u>"G" Sec 33 T30N R6W Rio Arriba County, NM</u>
9. <u>Circle One:</u>	
A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.	
B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.	
All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

Clean up of diesel leaks at a fuel storage tank (AST).  
(MSDS).



Estimated Volume 4 cy Known Volume (to be entered by the operator at the end of the haul) 4 cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 03.16.00  
 Waste Management Facility Authorized Agent  
 TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Denny L. Kant TITLE: Geologist DATE: 3/20/2000  
 APPROVED BY: Matthew J. Pugh TITLE: Environmental DATE: 3-22-00

District I - (505) 393-6161  
 P.O. Box 1980  
 Hobbs, NM 88241-1980  
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**REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE**

1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/>  Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	4. Generator <u>Phillips Petroleum</u> 5. Originating Site <u>Kor Energy Simms Mesa Yard</u>
2. Management Facility Destination <u>Envirotech Soil Remediation Facility Landfarm #2</u>	6. Transporter <u>Barrella</u>
3. Address of Facility Operator <u>5796 US Highway 64 Farmington, NM 87401</u>	8. State <u>New Mexico</u>
7. Location of Material (Street Address or ULSTR)	<u>"G" Sec 33 T30N R6W          Rio Arriba County, NM</u>
9. <u>Circle One:</u>  A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.  All transporters must certify the wastes delivered are only those consigned for transport.	

**BRIEF DESCRIPTION OF MATERIAL:**

Clean up of diesel leaks at a fuel storage tank (AST).  
 (MSDS).



Estimated Volume 4 cy Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_ cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 03-16-00  
Waste Management Facility Authorized Agent  
 TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

*(This space for State Use)*

APPROVED BY: Denny G. Jent TITLE: Geologist DATE: 3/20/2000  
 APPROVED BY: \_\_\_\_\_ TITLE: \_\_\_\_\_ DATE: \_\_\_\_\_



# ENVIROTECH INC.

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

March 14, 2000

Key Energy Services

Attn: Bob James

P.O. Box 900

Farmington, New Mexico 87499

505-327-4935

Fax 505-327-4962

Re: Diesel spill cleanup at Key Energy's Simms Mesa Yard

Dear Bob:

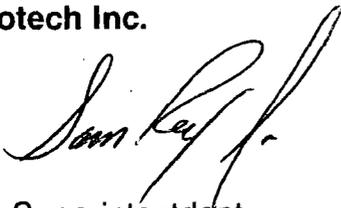
The following is a summary of cleanup activities conducted by Envirotech personnel at the Simms Mesa yard. In response to a release of diesel at two locations on the site Envirotech provided laborers (2), a backhoe, and dump truck to clean up diesel contaminated soil related to a leak at an aboveground storage tank located at the site. The two releases were approximately the same size (see attached figure). Soil was excavated to depths of 4" to 8" depending on odors observed in the soil. No soil samples were collected to confirm clean closure. Approximately 4 cubic yards of soil was removed during the cleanup. Clean soil for backfill of the excavated areas was obtained from a designated location within the fenced compound.

Diesel contaminated soil was transported to Envirotech's Soil Remediation Facility, Landfarm #2 for remediation. Profile of the soil is based on information obtained from Material Safety Data Sheets for the product.

If you have questions or comments regarding this cleanup please feel free to contact us at 505-632-0615.

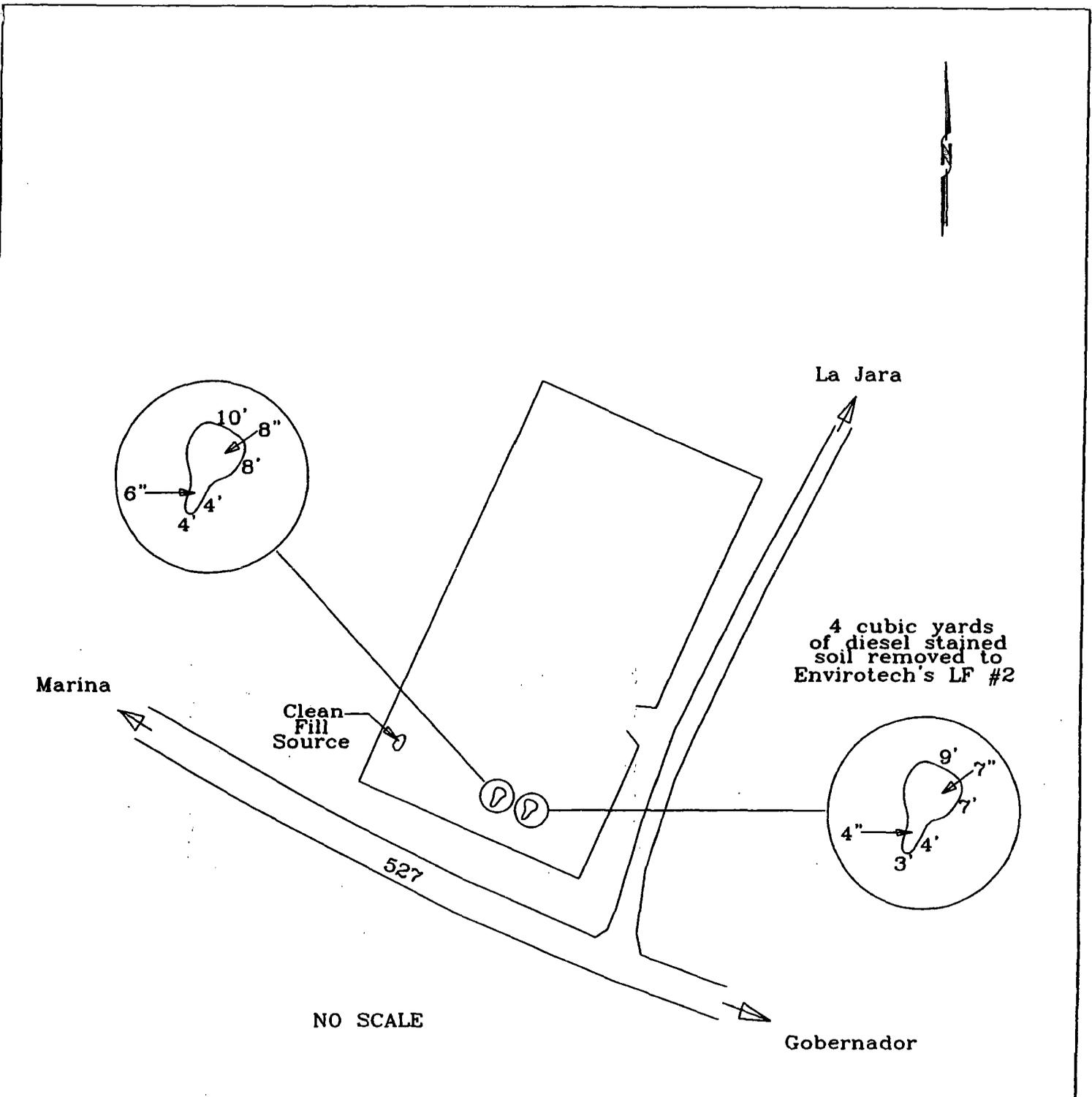
Sincerely,

**Envirotech Inc.**



Sam Ray Jr.

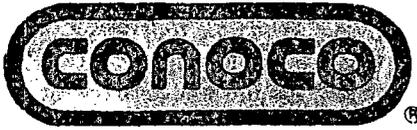
Construction Superintendent



4 cubic yards  
of diesel stained  
soil removed to  
Envirotech's LF #2

All angles, directions, and distances determined  
by sighting and pacing from existing site features.  
Accuracy of measurements implied only to the  
degree of accuracy of method.

<p><b>Key Energy</b> Simms Mesa Yard Diesel Fuel Spill Compressor Location "G", Sec. 33, T30N, R6W Rio Arriba, County, NM Project No.: 97070</p>	<p><b>Envirotech Inc.</b> Environmental Scientists &amp; Engineers 5796 US Highway 64 Farmington, New Mexico</p>	<p><b>Site Map</b></p>	
		<p>Figure 1</p>	<p>Date: 03/00</p>
		<p>DRW: HMB</p>	<p>PRJ MGR: SR Jr.</p>



GASC0220

Revised 10-JAN-1994

Printed 5-APR-1994

## No. 2 Diesel Fuel

### CHEMICAL PRODUCT/COMPANY IDENTIFICATION

#### Material Identification

CAS Number 68476-34-6

#### # Tradenames and Synonyms

Diesel Fuel No. 2, Low Sulfur  
Diesel Fuel No. 2, High Sulfur

3502, 3504, 3510, 3512, 4152

#### Company Identification

MANUFACTURER/DISTRIBUTOR  
CONOCO INC.  
P.O. BOX 2197  
HOUSTON, TX 77252

#### PHONE NUMBERS

Product Information 1-713-293-5550  
Transport Emergency CHEMTREC 1-800-424-9300  
Medical Emergency 1-800-441-3637

### COMPOSITION/INFORMATION ON INGREDIENTS

#### Components Material

CAS Number %

Diesel Fuel, No. 2 68476-34-6 100

### HAZARDS IDENTIFICATION

#### Potential Health Effects

Primary Routes of Exposure/Entry: Skin, Inhalation.

Signs and Symptoms of Exposure/Medical Conditions  
Aggravated by Exposure:

The product may cause irritation to the eyes, lungs, and skin after prolonged or repeated exposure. Extreme

(Continued)

---

## **HAZARDS IDENTIFICATION** (Continued)

overexposure or aspiration into the lungs may cause lung damage and death. Overexposure may cause weakness, headache, nausea, confusion, blurred vision, drowsiness, and other nervous system effects; greater exposure may cause dizziness, slurred speech, flushed face, unconsciousness, and convulsions.

It is highly unlikely that human exposure at or below the recommended exposure level poses a significant health hazard. In this regard, good workplace practices and proper engineering designs will minimize exposure.

### **Decomposition Products:**

Studies in mice and rats have shown that chronic exposure (8 hours/day, 7 days/week, 24 months) to unfiltered diesel exhaust produced tumors of the lung and also lymphomas. On the basis of these studies, NIOSH recommends that whole diesel exhaust be regarded as a potential carcinogen.

Carbon monoxide is a gas that can result from incomplete combustion of hydrocarbons, from detoxification of some chemicals like methylene chloride, tobacco smoke, and even from natural body processes. Carbon monoxide binds tightly to hemoglobin and interferes with oxygen transport to body tissues. Overexposure can cause headache, nausea, nervous system depression, coma, and death.

---

### **Carcinogenicity Information**

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

---

---

## **FIRST AID MEASURES**

### **First Aid** **INHALATION**

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

### **SKIN CONTACT**

Wash skin thoroughly with soap and water. If irritation develops and persists, consult a physician.

### **EYE CONTACT**

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

### **INGESTION**

(Continued)

---

**FIRST AID MEASURES** (Continued)

If swallowed, do not induce vomiting. Immediately give 2 glasses of water. Never give anything by mouth to an unconscious person. Call a physician.

**Notes to Physicians**

Activated charcoal mixture may be administered. To prepare activated charcoal mixture, suspend 50 grams activated charcoal in 400 mL water and mix thoroughly. Administer 5 mL/kg, or 350 mL for an average adult.

---

---

**FIRE FIGHTING MEASURES****Flammable Properties**

Flash Point	130 F (54 C)
Method	TCC
Flammable limits in Air, % by Volume	
LEL	0.4
UEL	6
Autoignition	494 F (257 C)

Vapor forms explosive mixture with air. Vapors or gases may travel considerable distances to ignition source and flash back.

NFPA Classification            Class II Combustible Liquid.

**Extinguishing Media**

Water Spray, Foam, Dry Chemical, CO2.

---

**Fire Fighting Instructions**

Special Fire Fighting Procedures: Use water to keep fire-exposed containers cool. If leak or spill has not ignited, use water spray to disperse the vapors and to provide protection for personnel attempting to stop a leak. Water spray may be used to flush spills away from exposures.

Unusual Fire and Explosion Hazards: Products of combustion may contain carbon monoxide, carbon dioxide and other toxic materials. Do not enter enclosed or confined space without proper protective equipment including respiratory protection.

---

---

**ACCIDENTAL RELEASE MEASURES****Safeguards (Personnel)**

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

Remove source of heat, sparks, flame, impact, friction and electricity including internal combustion engines and power tools. If equipment is used for spill cleanup, it must be explosion proof and suitable for flammable liquid and vapor.

(Continued)

---

**ACCIDENTAL RELEASE MEASURES**(Continued)

NOTE: Vapors released from the spill may create an explosive atmosphere.

**Initial Containment**

Dike spill. Prevent material from entering sewers, waterways, or low areas.

**Spill Clean Up**

Soak up with sawdust, sand, oil dry or other absorbent material.

---

---

**HANDLING AND STORAGE****Handling (Personnel)**

Avoid breathing vapors or mist. Wash thoroughly after handling. Wash clothing after use.

**Handling (Physical Aspects)**

Ground container when pouring. Keep away from heat, sparks and flames.

**Storage**

Store in a well ventilated place. Keep container tightly closed. Store in accordance with National Fire Protection Association recommendations. Store away from heat, sparks and flames, oxidizers.

---

---

**EXPOSURE CONTROLS/PERSONAL PROTECTION****Engineering Controls**

Use only with adequate ventilation. Keep container tightly closed.

**Personal Protective Equipment**

Respiratory Protection: Select appropriate NIOSH-approved respiratory protection when needed to avoid inhalation of mist or vapors and to maintain exposures below acceptable limits.

Protective Gloves: Impervious gloves, such as neoprene or NBR, should be worn when the potential exists for prolonged or repeated skin exposure.

Eye Protection: Safety glasses with side shields. Chemical goggles required when exposed to spray or mist or if splashing is probable.

Other Protective Equipment: Coveralls if splashing is probable. Launder contaminated clothing before reuse.

---

**Exposure Guidelines****Exposure Limits**

No. 2 Diesel Fuel

PEL (OSHA)

None Established

TLV (ACGIH)

None Established

---

(Continued)

---

## PHYSICAL AND CHEMICAL PROPERTIES

### # Physical Data

Boiling Point	350-690 F (177-366 C)
Vapor Pressure	1 mm Hg @ 68 F (20 C)
Vapor Density	>1 (Air = 1)
% Volatiles	(by volume) Nil
Solubility in Water	Insoluble
Odor	Aromatic
Form	Liquid
Color	*
Specific Gravity	0.84-0.88 @ 60 F (16 C)

\*Color : High Sulfur - Green  
Low Sulfur - Red or Undyed (Clear or Straw-Colored)

---

## STABILITY AND REACTIVITY

### Chemical Stability

Stable at normal temperatures and storage conditions.

---

### Conditions to Avoid

Avoid heat, sparks, and flame.

---

### Incompatibility with Other Materials

Incompatible or can react with strong oxidizers.

---

### Decomposition

Incomplete combustion may produce carbon monoxide.

---

### Polymerization

Polymerization will not occur.

---

## TOXICOLOGICAL INFORMATION

### Animal Data

Animal studies have shown that prolonged or repeated inhalation exposures to high concentrations of some petroleum distillates have caused liver tumors in mice and kidney damage and tumors in male rats. However, kidney effects were not seen in similar studies involving female rats, guinea pigs, dogs, or monkeys. Present studies indicate the kidney effects will only occur in male rats. Also, human studies do not indicate this peculiar sensitivity for kidney damage and studies reported in 1992 showed that this particular type of rat kidney damage is not useful in predicting a human health hazard. The significance of liver tumors in mice exposed to high doses of chemicals is highly speculative and probably not a good indicator for predicting a potential human carcinogenic hazard.

Mouse skin painting studies have shown that petroleum middle distillates (boiling range 100-700 F; naphtha, jet fuel, diesel fuel, kerosene, etc.) can cause skin cancer when repeatedly applied and never washed from the animal's skin. The relative

(Continued)

---

**TOXICOLOGICAL INFORMATION**(Continued)

significance of this to human health is uncertain since the petroleum distillates were not washed from the skin and resulting skin effects (irritation, cell damage, etc.) may play a role in the tumorigenic response. A few studies have shown that washing the animal's skin with soap and water between treatments greatly reduces the carcinogenic effect of some petroleum oils.

Diesel Fuel -

Skin : Extremely irritating; no mortality at 5 ml/kg  
in rabbits

Oral : LD50 of 9 ml/kg in rats

---

---

**DISPOSAL CONSIDERATIONS****Waste Disposal**

Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations. Do not flush to surface water or sanitary sewer system.

By itself, the liquid is expected to be a RCRA ignitable hazardous waste.

---

---

**TRANSPORTATION INFORMATION****Shipping Information**

INTERNATIONAL HM-181

Proper Shipping Name	Gas Oil
Hazard Class	3
UN/NA Number	UN 1202
Packing Group	III
Label	Flammable liquid
Placard	Flammable

DOMESTIC HM-181

Proper Shipping Name	Diesel fuel
Hazard Class	Combustible liquid
UN/NA Number	NA 1993
Packing Group	III
Label	None
Placard	Combustible
Special Information	If shipped by vessel or air, use international description.

(Continued)

## REGULATORY INFORMATION

### U.S. Federal Regulations

#### OSHA HAZARD DETERMINATION

This material is hazardous as defined by OSHA's Hazard Communication Standard, 29 CFR 1910.1200.

#### CERCLA/SUPERFUND

Not applicable; this material is covered by the CERCLA petroleum exclusion. Releases are not reportable.

#### SARA, TITLE III, 302/304

This material is not known to contain extremely hazardous substances.

#### TITLE III HAZARD CLASSIFICATIONS SECTIONS 311, 312

Acute : Yes  
Chronic : Yes  
Fire : Yes  
Reactivity : No  
Pressure : No

#### SARA, TITLE III, 313

This material is not known to contain any chemical(s) at a level of 1.0% or greater (0.1% for carcinogens) on the list of Toxic Chemicals and subject to release reporting requirements.

#### TSCA

This material is in the TSCA Inventory of Chemical Substances (40 CFR 710) and/or is otherwise in compliance with TSCA.

#### RCRA

This material, when discarded or disposed of, is not specifically listed as a hazardous waste in Federal regulations. It could become a hazardous waste if it is mixed with, or comes in contact with, a listed hazardous waste. If it is a hazardous waste, regulations at 40 CFR 262-266 and 268 may apply.

#### CLEAN WATER ACT

The material contains the following ingredient(s) which is considered hazardous if spilled into navigable waters and therefore reportable to the National Response Center (1-800-424-8802).

Ingredient(s)	Petroleum Hydrocarbons
Reportable Quantity	Film or sheen upon, or discoloration of, any water surface.

### State Regulations (U.S.)

#### CALIFORNIA "PROP 65"

This material is not known to contain any ingredient(s) subject to the Act.

#### PENNSYLVANIA WORKER & COMMUNITY RIGHT TO KNOW ACT

This material contains the following ingredient(s) subject to the

(Continued)

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**REGULATORY INFORMATION** (Continued)

Pennsylvania Worker and Community Right to Know Hazardous Substances List.

Ingredient Category	Diesel Fuel Oil Hazardous Substance
---------------------	--

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**Canadian Regulations**

CLASS B Division 3 - Combustible Liquid.

CLASS D Division 2 Subdivision B - Toxic Material. Chronic Toxic Effects.

Transport/Medical Emergency Phone Number: 1-613-348-3616

---

**OTHER INFORMATION****NFPA, NPCA-HMIS**

NFPA Rating	
Health	0
Flammability	2
Reactivity	0

NPCA-HMIS Rating	
Health	1
Flammability	2
Reactivity	0

Personal Protection rating to be supplied by user depending on use conditions.

---

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The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

Responsibility for MSDS Address	MSDS Administrator Conoco Inc. PO Box 2197 Houston, TX 77252
Telephone	713/293-5550

---

# Indicates updated section.

---

End of MSDS

District I - (505) 393-6161  
 P.O. Box 1980  
 Hobbs, NM 88241-1980  
 District II - (505) 748-1283  
 811 S. First  
 Artesia, NM 88210  
 District III - (505) 334-6178  
 1 Rio Brazos Road  
 Roswell, NM 87410  
 District IV - (505) 827-7131

New Mexico  
 Energy Minerals and Natural Resources Department  
 Oil Conservation Division  
 2040 South Pacheco Street  
 Santa Fe, New Mexico 87505  
 (505) 827-7131

Form C-138  
 Originated 8/8/95  
 Submit Original  
 Plus 1 Copy  
 to appropriate  
 District Office

Env. JN: 96052-

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input checked="" type="checkbox"/> Non-Exempt: <input type="checkbox"/> Verbal Approval Received: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<i>Dennis Faust      Verbal      3.10.00      11:00 AM.</i>	4. Generator <u>Phillips Petroleum</u>
2. Management Facility Destination <u>Envirotech Soil Remediation Facility Landfarm #2</u>	5. Originating Site <u>29.5 #214</u>	6. Transporter
3. Address of Facility Operator <u>5796 US Highway 64 Farmington, NM 87401</u>	8. State <u>New Mexico</u>	
7. Location of Material (Street Address or ULSTR)	<u>NE, Sec 27, T29N R5W R4C N M</u>	
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.		

BRIEF DESCRIPTION OF MATERIAL:

*cleanup of condensate spill @ a production pit tank.*



Estimated Volume 12 cy Known Volume (to be entered by the operator at the end of the haul) 12 cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 3.21.00  
 Waste Management Facility Authorized Agent  
 TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Dennis Faust TITLE: Geologist DATE: 3/21/00  
 APPROVED BY: Charlie T. Bern TITLE: deputy district DATE: 3/21/2000

## CERTIFICATE OF WASTE STATUS

1. Generator Name and Address: Phillips Petroleum Company 5525 Hwy 64, NEBU 3004 Farmington, NM 87401	2. Destination Name: Envirotech Landfarm NM Hwy 44 (US Hwy 550) Hilltop, NM
--	--

3. Originating Site (Name): San Juan 29-5 # 214
--

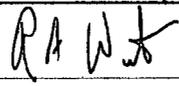
4. Source and Description of Waste: Approximately 12 cubic yards of hydrocarbon stained soil as a result of an upset (over filled) pit tank.
---

I, R. A. Wirtanen representative for:  
 (Print Name)  
Phillips Petroleum do hereby certify

that according to the Resource Conservation Act (RCRA) and Environmental Protection Agency's July, 1988, regulatory determination, the above described waste is:  
 (Check appropriate classification)

**EXEMPT** oilfield waste                       **NON-EXEMPT** oilfield waste  
 which is non-hazardous by characteristic analysis or by product identification and that nothing has been added to the exempt non-hazardous waste defined above.

For <b>EXEMPT</b> waste only, the following documentation is attached (check appropriate items)  <input type="checkbox"/> NORM Survey <input type="checkbox"/> TCLP Analysis	For <b>NON-EXEMPT</b> waste only, the following documentation is attached (check appropriate items)  <input type="checkbox"/> MSDS Information <input type="checkbox"/> TCLP Analysis <input type="checkbox"/> Chain of Custody <input type="checkbox"/> NORM Survey <input type="checkbox"/> Other (description)
---	---

Name (Original Signature):  3/10/00  
 Title: Sr. Safety and Environmental Specialist  
 Date: March 10, 2000

District I - (505) 393-6161  
 District II - (505) 748-1283  
 District III - (505) 334-6178  
 District IV - (505) 827-7131

**New Mexico**  
**Energy Minerals and Natural Resources Department**  
**Oil Conservation Division**  
 2040 South Pacheco Street  
 Santa Fe, New Mexico 87505  
 (505) 827-7131

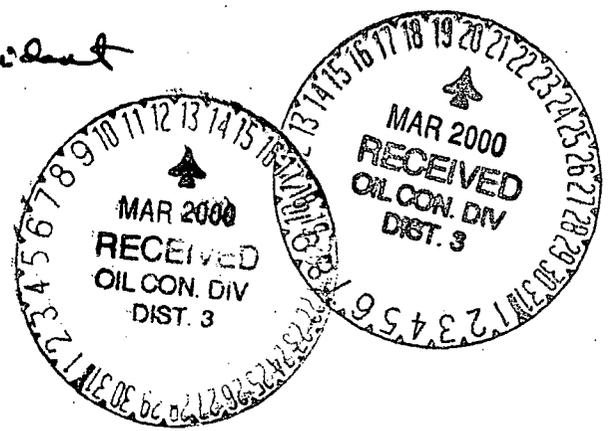
RECEIVED Form C-138  
 Originated 8/8/95  
**MAR 16 2000**  
 Environmental Bureau  
 Oil Conservation Division  
 Submit Original Plus 1 Copy to appropriate District Office  
 Env. JN: 92132.02

**REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE**

1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/> <i>Dump First Verbal 10.7.99 16115</i> Verbal Approval Received: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	4. Generator <i>Halliburton</i> 5. Originating Site <i>Truck Accident</i>
2. Management Facility Destination <i>Envirotech Soil Remediation Facility Landfarm #2</i>	6. Transporter <i>Envirotech</i>
3. Address of Facility Operator <i>5796 US Highway 64 Farmington, NM 87401</i>	8. State <i>New Mexico</i>
7. Location of Material (Street Address or ULSTR)	<i>NW 1/4 Sec 25, T27N, R5W Rio Arriba County NM</i>
9. <u>Circle One:</u> A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.  All transporters must certify the wastes delivered are only those consigned for transport.	

**BRIEF DESCRIPTION OF MATERIAL:**

*Cleanup of AQF-2 spilled @ Truck accident  
 Ridge above Terrizo Wash*



Estimated Volume 36 cy cy Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_ cy

SIGNATURE: *Harlan M. Brown* TITLE: Landfarm Manager DATE: 03.13.00  
Waste Management Facility Authorized Agent  
 TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

*(This space for State Use)*

APPROVED BY: *Darryl Feut* TITLE: *Geologist* DATE: *3/13/00*  
 APPROVED BY: *Madeline J. King* TITLE: *Environmental Geologist* DATE: *3-17-00*

District I - (505) 393-6161  
 P.O. Box 1980  
 Hobbs, NM 88241-1980  
 District II - (505) 748-1283  
 810 S. First  
 Artesia, NM 88210  
 District III - (505) 334-6178  
 Rio Brazos Road  
 NM 87410  
 District IV - (505) 827-7131

New Mexico  
 Energy Minerals and Natural Resources Department  
 Oil Conservation Division  
 2040 South Pacheco Street  
 Santa Fe, New Mexico 87505  
 (505) 827-7131

Form C-138  
 Originated 8/8/95

Submit Original  
 Plus 1 Copy  
 to appropriate  
 District Office

Env. JN: 92132.02

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/>	<i>Dunn Forest Verbal 10.7.99 16115</i>	4. Generator <i>Halliburton</i>
Verbal Approval Received: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		5. Originating Site <i>Truck Accident</i>
2. Management Facility Destination <i>Envirotech Soil Remedia. Facility Landfarm #2</i>		6. Transporter <i>Envirotech</i>
3. Address of Facility Operator <i>5796 US Highway 64 Farmington, NM 87401</i>		8. State <i>New Mexico</i>
7. Location of Material (Street Address or ULSTR)		<i>NW 1/4 Sec 25, T27N, R5W Rio Arriba County NM</i>
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.  All transporters must certify the wastes delivered are only those consigned for transport.		

BRIEF DESCRIPTION OF MATERIAL:

*Cleanup of AQF-2 spilled @ Truck accident  
 Ridge above Carrizo wash*



Estimated Volume 36 cy cy Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_ cy

SIGNATURE: *Harlan M. Brown* TITLE: Landfarm Manager DATE: 03.18.00  
 Waste Management Facility Authorized Agent  
 TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: \_\_\_\_\_ TITLE: \_\_\_\_\_ DATE: \_\_\_\_\_

APPROVED BY: \_\_\_\_\_ TITLE: \_\_\_\_\_ DATE: \_\_\_\_\_



# NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

Don't forget  
verbal  
10.7.99  
16:15  
OIL CONSERVATION DIVISION  
AZTEC DISTRICT OFFICE  
1000 RIO BRAZOS ROAD  
AZTEC, NEW MEXICO 87410  
(505) 334-6170 Fax (505) 334-6170

GARY E. JOHNSON  
GOVERNOR

JENNIFER A. SALISBURY  
CABINET SECRETARY

## CERTIFICATE OF WASTE STATUS

<p>1. Generator Name and Address: Halliburton Energy Services 4109 E. Main St. Farmington, NM 87401</p>	<p>2. Destination Name: Envirotech Inc. Soil Remediation Remediation Facility Landfarm #2, Hilltop, New Mexico 5796 US Hwy 64, Farmington, NM 87401</p>
<p>3. Originating Site (name): NW NW Sec 25, T27N R5W Rio Arriba County, NM.</p> <p>Attach list of originating sites as appropriate</p>	<p>Location of the Waste (Street address &amp;/or ULSTR):</p>
<p>4. Source and Description of Waste Cleanup of AQF-2 spilled @ Truck accident.</p>	

I, ROBERT SMITH (Print Name) representative for:

HALLIBURTON ENERGY SERVICE do hereby certify that, according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July, 1988, regulatory determination, the above described waste is: (Check appropriate classification)

EXEMPT oilfield waste

NON-EXEMPT oilfield waste which is non-hazardous by characteristic analysis or by product identification

and that nothing has been added to the exempt or non-exempt non-hazardous waste defined above.

For NON-EXEMPT waste the following documentation is attached (check appropriate items):

- MSDS Information
- RCRA Hazardous Waste Analysis
- Chain of Custody
- Other (description):

This waste is in compliance with Regulated Levels of Naturally Occurring Radioactive Material (NORM) pursuant to 20 NMAC 3.1 subpart 1403.C and D.

Name (Original Signature): ROBERT SMITH

Title: HSE ADVISOR

Date: 03-10-2000

Danny Foust  
Jabbar  
10.7.99  
16:15



AQF-2 FOAMING AGENT - HAL-TANK

PAGE 1

MATERIAL SAFETY DATA SHEET  
HALLIBURTON ENERGY SERVICES  
DUNCAN, OKLAHOMA 73536

DATE: 07-22-98  
REVISED DATE 01-17-9

EMERGENCY TELEPHONE: 580/251-4689 OR 580/251-3569  
AFTER HOURS: 580/251-3760

\*\*\*\*\* SECTION I - PRODUCT DESCRIPTION \*\*\*\*\*

CHEMICAL CODE: AQF-2 FOAMING AGENT - HAL-TANK PART NUMBER: 51600519  
PKG QTY: 330 GALLON TANK APPLICATION: FOAMING AGENT  
SERVICE USED: STIMULATION

\*\*\*\*\* SECTION II - COMPONENT INFORMATION \*\*\*\*\*

COMPONENT	PERCENT	TLV	PEL
ETHYLENE GLYCOL MONOBUTYL ETHER	11-30 %	25 PPM S	25 PPM S

\*\*\*\*\* SECTION III - PHYSICAL DATA \*\*\*\*\*

PROPERTY	MEASUREMENT
APPEARANCE	CLEAR LIGHT YELLOW LIQUID
ODOR	BLAND
SPECIFIC GRAVITY (H2O=1)	1.038
BULK DENSITY	8.65 LB/GAL
PH	6.5-8.5 FOR 10% SOL.
SOLUBILITY IN WATER AT 20 DEG C. GMS/100ML H2O	SOLUBLE
BIODEGRADABILITY	N/D
PERCENT VOLATILES	73-78
EVAPORATION RATE (BUTYL ACETATE=1)	N/D
VAPOR DENSITY	N/D
VAPOR PRESSURE (MMHG)	N/D
BOILING POINT (760 MMHG)	N/D
POUR POINT	N/D
FREEZE POINT	N/D
SOLUBILITY IN SEAWATER	NOT EVALUATED
PARTITION COEF (OCTANOL IN WATER)	NOT EVALUATED

\*\*\*\*\* SECTION IV - FIRE AND EXPLOSION DATA \*\*\*\*\*

NFPA(704) RATING:  
HEALTH 1 FLAMMABILITY 2 REACTIVITY 0 SPECIAL NONE  
FLASH POINT 142 F / 61 C FLASH MTHD PMCC  
AUTOIGNITION TEMPERATURE ND ND  
FLAMMABLE LIMITS (% BY VOLUME) LOWER N/D UPPER N/D

\*\*\*\*\*  
EXTINGUISHING MEDIA:

USE WATER SPRAY, FOAM, DRY CHEMICAL, OR CARBON DIOXIDE.

SPECIAL FIRE FIGHTING PROCEDURES:

FULL PROTECTIVE CLOTHING AND NIOSH/MSHA APPROVED SELF-CONTAINED BREATHING APPARATUS REQUIRED FOR FIRE FIGHTING PERSONNEL.

PN: 516005190

PAGE 2

UNUSUAL FIRE AND EXPLOSION HAZARDS:

INCOMPLETE THERMAL DECOMPOSITION MAY PRODUCE CARBON DIOXIDE, CARBON MONOXIDE AND SULFUR OXIDES.

\* \* \* \* \* SECTION V - HEALTH HAZARD DATA \* \* \* \* \*

CALIFORNIA PROPOSITION 65:

PRODUCT OR PRODUCT COMPONENTS ARE NOT REGULATED UNDER CALIF. PROPOSITION 65.

CARCINOGENIC DETERMINATION:

PRODUCT OR COMPONENTS ARE NOT LISTED AS A POTENTIAL CARCINOGEN ACCORDING TO : "NTP, IARC, OSHA, OR, ACIGH".

PRODUCT TOXICITY DATA: NOT DETERMINED

PRODUCT TLV: NOT ESTABLISHED

----- EFFECTS OF EXPOSURE -----

ROUTES OF EXPOSURE:

EYE OR SKIN CONTACT, INHALATION.

EYE:

MAY CAUSE MODERATE IRRITATION.

SKIN:

MAY BE ABSORBED THROUGH SKIN. CONTACT MAY CAUSE SKIN IRRITATION.

INHALATION:

HIGH CONCENTRATIONS MAY CAUSE CENTRAL NERVOUS SYSTEM DEPRESSION. THIS MAY BE EVIDENCED BY GIDDINESS, HEADACHES, DIZZINESS, NAUSEA, VOMITING OR POSSIBLY UNCONSCIOUSNESS.

CHRONIC EFFECTS:

CONTAINS ETHYLENE GLYCOL MONOBUTYL ETHER. ANIMAL STUDIES INDICATE FETAL AND TESTICULAR TOXICITY WITH RELATED GLYCOL ETHERS.

OTHER SYMPTOMS AFFECTED:

BECAUSE OF ITS IRRITATING PROPERTIES, THIS MATERIAL MAY AGGRAVATE AN EXISTING DERMATITIS. BREATHING OF VAPOR AND/OR MISTS MAY AGGRAVATE ASTHMA AND INFLAMMATORY OR FIBROTIC PULMONARY DISEASE.

----- EMERGENCY AND FIRST AID PROCEDURES -----

EYE:

IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. SEEK PROMPT MEDICAL ATTENTION.

SKIN:

PROMPTLY WASH SKIN WITH SOAP AND WATER.

INHALATION:

REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION, PREFERABLY MOUTH-TO-MOUTH. IF BREATHING IS DIFFICULT, GIVE OXYGEN. SEEK PROMPT MEDICAL ATTENTION.

INGESTION:

DO NOT INDUCE VOMITING! GIVE UP TO TWO (2) QUARTS OF WATER TO DILUTE. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. SEEK MEDICAL ATTENTION.

\* \* \* \* \* SECTION VI - REACTIVITY DATA \* \* \* \* \*

PN: 516005190

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STABILITY: STABLE

CONDITIONS TO AVOID:

NOT APPLICABLE.

INCOMPATIBILITY (MATERIALS TO AVOID):

STRONG OXIDIZERS.

HAZARDOUS DECOMPOSITION PRODUCTS:

SULFUR DIOXIDE, CARBON DIOXIDE AND CARBON MONOXIDE.

HAZARD POLYMERIZATION: WON" T OCCUR

CONDITIONS TO AVOID:

NOT APPLICABLE.

\* \* \* \* \* SECTION VII - SPILL OR LEAK PROCEDURES \* \* \* \* \*

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

USE PROTECTIVE EQUIPMENT. ISOLATE SPILL AND STOP LEAK WHERE SAFE. CONTAIN AND ABSORB SPILL WITH AN INERT MATERIAL. SCOOP UP AND REMOVE.

WASTE DISPOSAL METHOD:

GET APPROVAL FROM LANDFILL OPERATOR AND TRANSPORT ABSORBED MATERIAL TO SANITARY LANDFILL.

\* \* \* \* \* SECTION VIII - SPECIAL PROTECTION INFORMATION \* \* \* \* \*

RESPIRATORY PROTECTION (USE NIOSH/MSHA APPROVED EQUIPMENT):

ORGANIC VAPOR CARTRIDGE RESPIRATOR.

VENTILATION:

USE ONLY WITH ADEQUATE VENTILATION. LOCAL EXHAUST VENTILATION SHOULD BE USED IN AREAS WITHOUT GOOD CROSS VENTILATION.

PROTECTIVE GLOVES:

IMPERVIOUS RUBBER GLOVES.

EYE PROTECTION:

GOGGLES AND/OR FACE SHIELD.

OTHER PROTECTIVE EQUIPMENT:

RUBBER APRON TO PREVENT DIRECT SKIN CONTACT.

\* \* \* \* \* SECTION IX - SPECIAL PRECAUTIONS \* \* \* \* \*

PRECAUTIONARY LABELING AQF-2 FOAMING AGENT - HAL-TANK

516.005190

WARNING!

MAY CAUSE HEADACHE, DIZZINESS AND OTHER CENTRAL NERVOUS SYSTEM EFFECTS.

MAY CAUSE EYE AND SKIN IRRITATION.

COMBUSTIBLE!

FOR PRECAUTIONARY STATEMENTS, REFER TO SECTIONS IV-VIII.

OTHER HANDLING AND STORAGE CONDITIONS:

STORE AWAY FROM OXIDIZERS.

STORE IN A COOL WELL VENTILATED LOCATION.

KEEP CONTAINER CLOSED WHEN NOT IN USE.

AVOID CONTACT WITH SKIN, EYES AND CLOTHING.

AVOID BREATHING VAPORS.

CONTAINER DISPOSITION:

EMPTY CONTAINER COMPLETELY. TRANSPORT CONTAINER WITH ALL CLOSURES IN

PLACE. RETURN FOR REUSE OR DISPOSE IN A SANITARY LANDFILL BY FIRST

OBTAINING LANDFILL OPERATOR'S AUTHORIZATION.

PN: 516005190

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## \* \* \* \* \* SECTION X - TRANSPORTATION INFORMATION \* \* \* \* \*

## DOT SHIPPING DESCRIPTION:

COMBUSTIBLE LIQUID, N.O.S. - COMBUSTIBLE LIQUID - NA1993 - III  
(CONTAINS ETHYLENE GLYCOL MONOBUTYL ETHER)

## IATA SHIPPING DESCRIPTION:

NOT RESTRICTED

## IMO SHIPPING DESCRIPTION:

NOT RESTRICTED

## CAN SHIPPING DESCRIPTION:

NOT RESTRICTED

## ADR SHIPPING DESCRIPTION:

NOT RESTRICTED

## \* \* \* \* \* SECTION XI - ENVIRONMENTAL EVALUATION \* \* \* \* \*

## EPA SUPERFUND (SARA) TITLE III - HAZARD CLASSIFICATION &amp; ASSOCIATED INFORMATION

FIRE: Y PRESSURE: N REACTIVE: N ACUTE (IMMEDIATE): Y  
CHRONIC (DELAYED): N MIXTURE OR PURE MATERIAL: MIX

B. EPA - CERCLA/SUPERFUND, 40 CFR 302 (REPORTABLE SPILL QUANTITY)  
N/A

C. EPA - SARA TITLE III, CFR 355 (EXTREMELY HAZARDOUS SUBSTANCES)  
PRODUCT CONTAINS NO EXTREMELY HAZARDOUS COMPONENTS

D. EPA - SARA TITLE III, 40 CFR 372 (LIST OF TOXIC CHEMICALS)  
ETHYLENE GLYCOL MONOBUTYL 111-76-2 11-30 %

## E. COMPONENTS LISTED ON FOLLOWING CHEMICAL INVENTORIES

TSCA YES	CEPA NE	EEC N/D	ACON N/D	NPR NE	DRSM NE
----------	---------	---------	----------	--------	---------

## F. EXTRACTION METAL AND TRACE CONTENTS

ARSENIC:	IN LIQUID > 5 MG/L,	SOLID > 500 MG/KG	NOT EVALUATED
BARIUM :	IN LIQUID > 100 MG/L,	SOLID > 10000 MG/KG	NOT EVALUATED
CADIUM:	IN LIQUID > 1 MG/L,	SOLID > 100 MG/KG	NOT EVALUATED
CHROMIUM(VI) :	IN LIQUID > 5 MG/L,	SOLID > 500 MG/KG	NOT EVALUATED
CHROMIUM(III) :	IN LIQUID > 560 MG/L,	SOLID > 2500 MG/KG	NOT EVALUATED
LEAD:	IN LIQUID > 5 MG/L,	SOLID > 1000 MG/KG	NOT EVALUATED
MERCURY:	IN LIQUID > 0.2 MG/L,	SOLID > 2000 MG/KG	NOT EVALUATED
SELENIUM:	IN LIQUID > 1 MG/L,	SOLID > 100 MG/KG	NOT EVALUATED
SILVER:	IN LIQUID > 5 MG/L,	SOLID > 500 MG/KG	NOT EVALUATED
ANTIMONY:	IN LIQUID > 15 MG/L,	SOLID > 500 MG/KG	NOT EVALUATED
BERYLLIUM:	IN LIQUID > 0.75 MG/L,	SOLID > 75 MG/KG	NOT EVALUATED
COBALT:	IN LIQUID > 80 MG/L,	SOLID > 8000 MG/KG	NOT EVALUATED
COPPER:	IN LIQUID > 25 MG/L,	SOLID > 2500 MG/KG	NOT EVALUATED
FLUORIDE:	IN LIQUID > 180 MG/L,	SOLID > 18000 MG/KG	NOT EVALUATED
MOLYBDENUM:	IN LIQUID > 350 MG/L,	SOLID > 3500 MG/KG	NOT EVALUATED

PN: 516005190

PAGE 5

NICKEL:	IN LIQUID > 20 MG/L,	SOLID > 2000 MG/KG	NOT EVALUATED
THALLIUM:	IN LIQUID > 7 MG/L,	SOLID > 700 MG/KG	NOT EVALUATED
VANADIUM:	IN LIQUID > 24 MG/L,	SOLID > 2400 MG/KG	NOT EVALUATED
ZINC:	IN LIQUID > 250 MG/L,	SOLID > 5000 MG/KG	NOT EVALUATED
CYANIDE:	IN LIQUID > 250 MG/L,	SOLID > 250 MG/KG	NOT EVALUATED
H2S:	IN LIQUID > 500 MG/L,	SOLID > 500 MG/KG	NOT EVALUATED
ORGANO-TIN:	IN LIQUID OR	SOLID > 100 MG/L	NOT EVALUATED
ORGANO-PHOS:	IN LIQUID OR	SOLID > 100 MG/L	NOT EVALUATED
TIN:	IN LIQUID OR	SOLID > 100 MG/L	NOT EVALUATED
PERSISTENT ORGANO-			
HALOGENS:	IN LIQUID OR	SOLID > 100 MG/L	NOT EVALUATED

G. OTHER COMPONENTS

CONTAINS BENZENE	NO
CONTAINS TOLUENE	NO
CONTAINS XYLENE	NO
REPORTABLE SPILL QUANTITY FOR BENZENE, TOLUENE, XYLENE	NOT APPLICABLE

H. EPA - RCRA (HAZARDOUS WASTE), 40 CFR 261

IF PRODUCT BECOMES A WASTE, IT DOES NOT MEET THE CRITERIA OF A HAZARDOUS WASTE

I. UNITED KINGDOM - DOE (CHEMICAL NOTIFICATION SCHEME)

TOXICITY CATEGORY NOT EVALUATED

\* \* \* \* \*

THE INFORMATION WHICH IS CONTAINED IN THIS DOCUMENT IS BASED UPON AVAILABLE DATA AND BELIEVED TO BE CORRECT. HOWEVER, AS SUCH AS IT HAS BEEN OBTAINED FROM VARIOUS SOURCES, INCLUDING THE MANUFACTURER AND INDEPENDENT LABORATORIES, IT IS GIVEN WITHOUT WARRANTY OR REPRESENTATION THAT IT IS COMPLETE, ACCURATE AND CAN BE RELIED UPON. HALLIBURTON HAS NOT ATTEMPTED TO CONCEAL IN ANY WAY THE DELETERIOUS ASPECTS OF THE PRODUCT LISTED HEREIN, BUT MAKES NO WARRANTY AS TO SUCH. FURTHER, AS HALLIBURTON CANNOT ANTICIPATE NOR CONTROL THE MANY SITUATIONS IN WHICH THE LISTED PRODUCT OR THIS INFORMATION MAY BE USED BY OUR CUSTOMER, THERE IS NO GUARANTEE THAT THE HEALTH AND SAFETY PRECAUTIONS SUGGESTED WILL BE PROPER UNDER ALL CONDITIONS. IT IS THE SOLE RESPONSIBILITY OF EACH USER OF THE LISTED PRODUCT TO DETERMINE AND COMPLY WITH THE REQUIREMENTS OF ALL APPLICABLE LAWS AND REGULATIONS REGARDING ITS USE OR DISPOSAL. THIS INFORMATION IS GIVEN SOLELY FOR THE PURPOSES OF HEALTH AND SAFETY TO PERSONS AND PROPERTY. ANY OTHER USE OF THIS INFORMATION IS EXPRESSLY PROHIBITED. HEALTH, SAFETY AND ENVIRONMENT DEPARTMENT, HALLIBURTON ENERGY SERVICES.

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 P.O. Box 1980  
 Hobbs, NM 88241-1980  
 District II - (505) 748-1283  
 811 S. First  
 Artesia, NM 88210  
 District III - (505) 334-6178  
 Rio Brazos Road  
 Roswell, NM 87410  
 District IV - (505) 827-7131

New Mexico  
 Energy Minerals and Natural Resources Department  
 Oil Conservation Division  
 2040 South Pacheco Street  
 Santa Fe, New Mexico 87505  
 (505) 827-7131

Form C-138  
 Originated 8/8/95

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 MAR 03 2000  
 Environmental Bureau  
 Env. Oil Conservation Division

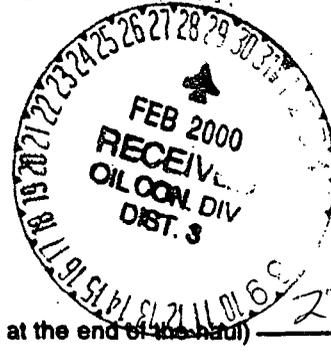
Submit Original  
 Plus 1 Copy  
 to appropriate  
 District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/>	2. Management Facility Destination	4. Generator WFS:
Verbal Approval Received: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Envirotech Soil Remediation Facility Landfarm #2	5. Originating Site Horse Canyon Reboiler
3. Address of Facility Operator	6. Transporter SCAT	8. State New Mexico
5796 US Highway 64 Farmington, NM 87401		
7. Location of Material (Street Address or ULSTRA)		See 26, T30N, R9W.
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.  All transporters must certify the wastes delivered are only those consigned for transport.		

BRIEF DESCRIPTION OF MATERIAL:

Reboiler sludge removed to repair reboiler element.  
 TCEP Attached; MSDS provided previous submittals.



Estimated Volume ± 20 bbl cy Known Volume (to be entered by the operator at the end of the haul) 27 bbl cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 02.29.00  
 Waste Management Facility Authorized Agent  
 TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Denny G. Faust TITLE: Geologist DATE: 3/01/2000  
 APPROVED BY: Monty G. Kelly TITLE: Environmental Geologist DATE: 3/6/2000

District I - (505) 393-6161  
 P. O. Box 1980  
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 District II - (505) 748-1283  
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 Rio Brazos Road  
 Socorro, NM 87410  
 District IV - (505) 827-7131

New Mexico  
 Energy Minerals and Natural Resources Department  
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 2040 South Pacheco Street  
 Santa Fe, New Mexico 87505  
 (505) 827-7131

Form C-138  
 Originated 8/8/95

Submit Original  
 Plus 1 Copy  
 to appropriate  
 District Office

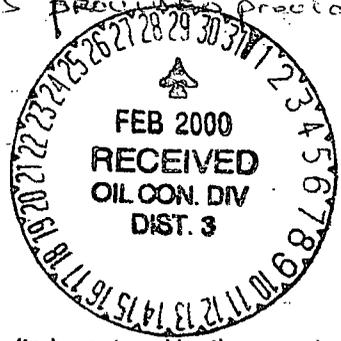
Env. JN: \_\_\_\_\_

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/>	Denny Faust 2:22:00 2:10 P.M.	4. Generator W.F.S.
Verbal Approval Received: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		5. Originating Site Horse Canyon Reboiler
2. Management Facility Destination Envirotech Soil Remediation Facility Landfarm #2		6. Transporter SCAT
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401		8. State New Mexico
7. Location of Material (Street Address or ULSTR)		Sec 26, T30N, R9W.
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.  All transporters must certify the wastes delivered are only those consigned for transport.		

BRIEF DESCRIPTION OF MATERIAL:

Reboiler sludge removed to repair reboiler element.  
 TCEP Attached; MSDS provided per previous submittals.



Estimated Volume ± 20 bbl cy Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_ cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 02-29-00  
 Waste Management Facility Authorized Agent  
 TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Denny G. Faust TITLE: Geologist DATE: 3/01/2000  
 APPROVED BY: \_\_\_\_\_ TITLE: \_\_\_\_\_ DATE: \_\_\_\_\_

# CERTIFICATE OF WASTE STATUS

<b>1. Generator Name and Address:</b> WILLIAMS FIELD SERVICES CO 295 CHIPETA WAY SALT LAKE CITY, UT 84154	<b>2. Destination Name:</b> Envirotech Inc. 5796 U.S HWY 64 FARMINGTON, N.M. 87401
<b>3. Originating Site (name):</b> Horse Canyon Reclaimers Sec 26 T30N R9W  <small>Attach list of originating sites as appropriate</small>	<b>Location of the Waste (Street address &amp;/or ULSTR):</b>
<b>4. Source and Description of Waste</b> REBOILER SLUDGE	

I, BILL BEEVERS representative for:  
WILLIAMS (Print Name)  
 do hereby certify that, according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July, 1988, regulatory determination, the above described waste is: (Check appropriate classification)

EXEMPT oilfield waste       NON-EXEMPT oilfield waste which is non-hazardous by characteristic analysis or by product identification

and that nothing has been added to the exempt or non-exempt non-hazardous waste defined above.

For NON-EXEMPT waste only the following documentation is attached (check appropriate items):  
 MSDS Information *no msds attached see previous filing*      Other (description):  
 RCRA Hazardous Waste Analysis  
 Chain of Custody

Name (Original Signature): Bill Beever  
 Title: Deputy Spec  
 Date: 2/22/00



# Process Equipment & Service Company, Inc.

5680 U.S. HIGHWAY 64 • 87401 / P.O. BOX 929 • 87499  
FARMINGTON, NEW MEXICO  
PHONE: (505) 327-2222 • FAX: (505) 327-7550

## NORM SURVEY DATA SHEET

Facility / location: Williams Horse Canyon Site Date: 2-23-2000

Meter Model: DOSIMETER 3007A Serial No: 9808-238

Detector Model: DOSIMETER 3012 Serial No: 201-887-7100

Calibration Date: 4-5-99

Battery Check: (X)

Background Radiation Level: 0.03 mR/hr

Description of material surveyed:

Waste Sludge for Evaporator  
2" Pipe from Reboiler

### Item / Material Surveyed:

Waste Material: 150 approx. gals

Equipment:

mR/hr: 0.06

Manufacturer: \_\_\_\_\_

Serial No: \_\_\_\_\_

Description: \_\_\_\_\_

Job No: \_\_\_\_\_

Comments:

Survey Conducted by:

GARY W HOWE

(Print Name)

Gary W Howe

(Signature)

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

March 5, 1999

Mr. Bill Beevers  
Williams Field Service, Inc.  
Manzanares District  
P.O. Box 215  
Bloomfield, NM 87413

(505) 320-4642  
Fax (505) 632-4781

Project No.: 97050  
Job No. : 705004

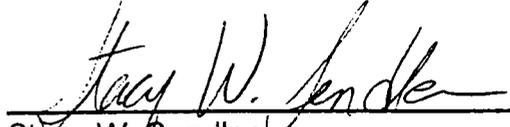
Dear Mr. Beevers,

Enclosed are the analytical results for one liquid sample collected from the location designated as "Horse Canyon". One liquid sample identified as "Waste Water" was collected by WFS designated personnel on 02/22/99, and delivered to the Envirotech laboratory on 02/22/99 for Hazardous Waste Characterization analysis (Volatile and Semi-volatile Organics, Trace Metals, Reactivity, Corrosivity, and Ignitability).

The sample was documented on Envirotech Chain of Custody No. 6615 and assigned Laboratory No. E696 for tracking purposes. The sample was analyzed 02/22/99 through 03/05/99 using USEPA or equivalent methods.

Should you have any questions or require additional information, please do not hesitate to contact us at (505) 632-0615. It has been our pleasure doing business with you and we hope you will consider Envirotech, Inc. for any of your future environmental contracting needs.

Respectfully submitted,  
**Envirotech, Inc.**

  
\_\_\_\_\_  
Stacy W. Sandler  
Environmental Scientist/Laboratory Manager

enclosure

SWS\sws\97050-04.lb2/wpd

Client:	Williams Field Service	Project #:	705004
Sample ID:	Waste Water	Date Reported:	03-03-99
Laboratory Number:	E696	Date Sampled:	02-22-99
Chain of Custody:	6615	Date Received:	02-22-99
Sample Matrix:	Water	Date Analyzed:	03-03-99
Preservative:	Cool	Date Extracted:	N/A
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
Arsenic	0.0473	0.0001	5.0
Barium	0.219	0.001	21
Cadmium	0.0083	0.0001	0.11
Chromium	0.0963	0.0001	0.60
Lead	0.0211	0.0001	0.75
Mercury	ND	0.0001	0.025
Selenium	0.0171	0.0001	5.7
Silver	ND	0.0001	0.14

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, December 1996.

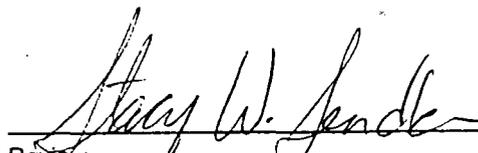
Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, December 1996.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA. December 1996.

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

Comments: **Horse Canyon.**

  
Analyst

  
Review

## SUSPECTED HAZARDOUS WASTE ANALYSIS

Client:	Williams Field Service	Project #:	705004
Sample ID:	Waste Water	Date Reported:	02-26-99
Lab ID#:	E696	Date Sampled:	02-22-99
Sample Matrix:	Water	Date Received:	02-22-99
Preservative:	Cool	Date Analyzed:	02-23-99
Condition:	Cool and Intact	Chain of Custody:	6615

Parameter	Result
-----------	--------

IGNITABILITY:	Negative	
CORROSIVITY:	Negative	pH = 6.87
REACTIVITY:	Negative	

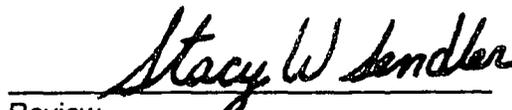
### RCRA Hazardous Waste Criteria

Parameter	Hazardous Waste Criterion
IGNITABILITY:	Characteristic of Ignitability as defined by 40 CFR, Subpart C, Sec. 261.21. (i.e. Sample ignition upon direct contact with flame or flash point < 60° C.)
CORROSIVITY:	Characteristic of Corrosivity as defined by 40 CFR, Subpart C, Sec. 261.22. (i.e. pH less than or equal to 2.0 or pH greater than or equal to 12.5)
REACTIVITY:	Characteristic of Reactivity as defined by 40 CFR, Subpart C, Sec. 261.23. (i.e. Violent reaction with water, strong base, strong acid, or the generation of Sulfide or Cyanide gases at STP with pH between 2.0 and 12.5)

Reference: 40 CFR part 261 Subpart C sections 261.21 - 261.23, July 1, 1992.

Comments: Horse Canyon.

  
Analyst

  
Review

Client:	Williams Field Service	Project #:	705004
Sample ID:	Waste Water	Date Reported:	03-01-99
Laboratory Number:	E696	Date Sampled:	02-22-99
Chain of Custody:	6615	Date Received:	02-22-99
Sample Matrix:	Water	Date Extracted:	N/A
Preservative:	Cool	Date Analyzed:	02-26-99
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	0.637	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	0.303	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	0.0035	0.0003	0.5
Tetrachloroethene	0.0012	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

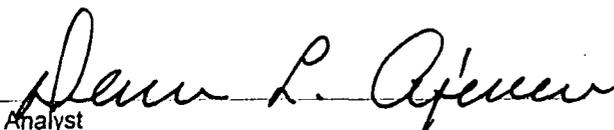
ND - Parameter not detected at the stated detection limit.

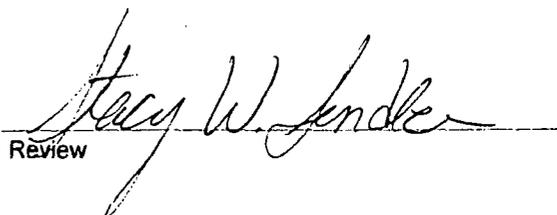
QA/QC Acceptance Criteria	Parameter	Percent Recovery
	Trifluorotoluene	98%
	Bromofluorobenzene	99%

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.  
Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994.  
Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Note: Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments: Horse Canyon.

  
Analyst

  
Review

Client:	Williams field Service	Project #:	705004
Sample ID:	Waste Water	Date Reported:	03-01-99
Laboratory Number:	E696	Date Sampled:	02-22-99
Chain of Custody:	6615	Date Received:	02-22-99
Sample Matrix:	Water	Date Extracted:	N/A
Preservative:	Cool	Date Analyzed:	03-01-99
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	4.53	0.020	200
p,m-Cresol	6.08	0.040	200
2,4,6-Trichlorophenol	1.05	0.020	2.0
2,4,5-Trichlorophenol	17.1	0.020	400
Pentachlorophenol	ND	0.020	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	2-Fluorophenol	98%
	2,4,6-Tribromophenol	99%

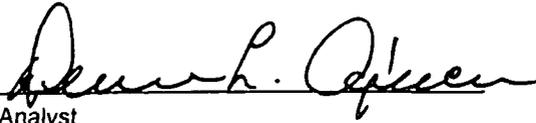
References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

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

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments: Horse Canyon.

  
Analyst

  
Review

Client:	Williams field Service	Project #:	705004
Sample ID:	Waste Water	Date Reported:	03-01-99
Laboratory Number:	E696	Date Sampled:	02-22-99
Chain of Custody:	6615	Date Received:	02-22-99
Sample Matrix:	Water	Date Extracted:	N/A
Preservative:	Cool	Date Analyzed:	03-01-99
Condition:	Cool and Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	0.236	0.020	5.0
Hexachloroethane	0.350	0.020	3.0
Nitrobenzene	0.207	0.020	2.0
Hexachlorobutadiene	0.430	0.020	0.5
2,4-Dinitrotoluene	0.076	0.020	0.13
HexachloroBenzene	0.100	0.020	0.13

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery
	2-fluorobiphenyl	100%

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.  
Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note: Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments: Horse Canyon.

  
Analyst

  
Review

## QUALITY ASSURANCE / QUALITY CONTROL

### DOCUMENTATION

175

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	03-01-99
Laboratory Number:	02-26-TCV Blank	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	02-26-99
Condition:	N/A	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	ND	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	ND	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

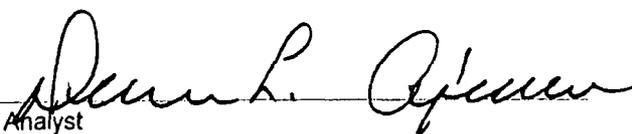
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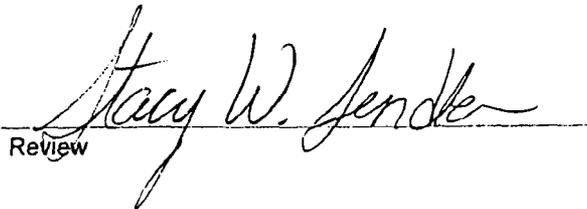
QA/QC Acceptance Criteria	Parameter	Percent Recovery
	Trifluorotoluene	100%
	Bromofluorobenzene	100%

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
 Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.  
 Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994.  
 Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Note: Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments: QA/QC for samples E695 - E696.

  
 Analyst

  
 Review

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	03-01-99
Laboratory Number:	02-22-TV-MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	02-26-99
Condition:	N/A	Date Extracted:	02-22-99
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	ND	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	ND	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

ND - Parameter not detected at the stated detection limit.

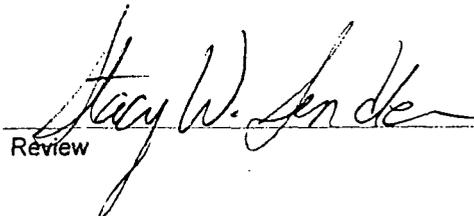
QA/QC Acceptance Criteria	Parameter	Percent Recovery
	Trifluorotoluene	99%
	Bromofluorobenzene	98%

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
 Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.  
 Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994.  
 Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Note: Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments: QA/QC for samples E695 - E696.

  
 Analyst

  
 Review

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	03-01-99
Laboratory Number:	E695	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	02-26-99
Condition:	N/A	Date Extracted:	N/A

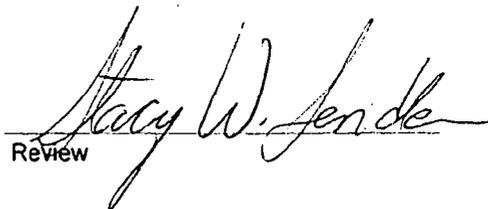
Parameter	Sample Result (mg/L)	Duplicate Sample Result (mg/L)	Detection Limits (mg/L)	Percent Difference
Vinyl Chloride	ND	ND	0.0001	0.0%
1,1-Dichloroethene	ND	ND	0.0001	0.0%
2-Butanone (MEK)	ND	ND	0.0001	0.0%
Chloroform	ND	ND	0.0001	0.0%
Carbon Tetrachloride	ND	ND	0.0001	0.0%
Benzene	ND	ND	0.0001	0.0%
1,2-Dichloroethane	ND	ND	0.0001	0.0%
Trichloroethene	ND	ND	0.0003	0.0%
Tetrachloroethene	ND	ND	0.0005	0.0%
Chlorobenzene	ND	ND	0.0003	0.0%
1,4-Dichlorobenzene	ND	ND	0.0002	0.0%

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.  
Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994.  
Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Comments: QA/QC for samples E695 - E696.

  
Analyst

  
Review

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Spike	Date Reported:	03-01-99
Laboratory Number:	E695	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	02-26-99
Condition:	N/A	Date Extracted:	N/A

Parameter	Sample Result (mg/L)	Spike Added (mg/L)	Spiked Sample Result (mg/L)	Det. Limit (mg/L)	Percent Recovery	SW-846 % Rec. Accept. Range
Vinyl Chloride	ND	0.050	0.0495	0.0001	99%	28-163
1,1-Dichloroethene	ND	0.050	0.0494	0.0001	99%	43-143
2-Butanone (MEK)	ND	0.050	0.0495	0.0001	99%	47-132
Chloroform	ND	0.050	0.0498	0.0001	100%	49-133
Carbon Tetrachloride	ND	0.050	0.0491	0.0001	98%	43-143
Benzene	ND	0.050	0.0498	0.0001	100%	39-150
1,2-Dichloroethane	ND	0.050	0.0494	0.0001	99%	51-147
Trichloroethene	ND	0.050	0.0494	0.0003	99%	35-146
Tetrachloroethene	ND	0.050	0.0494	0.0005	99%	26-162
Chlorobenzene	ND	0.050	0.0494	0.0003	99%	38-150
1,4-Dichlorobenzene	ND	0.050	0.0494	0.0002	99%	42-143

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
 Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.  
 Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994.  
 Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Comments: QA/QC for samples E695 - E696.

  
 Analyst

  
 Review

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	03-01-99
Laboratory Number:	03-01-TCA-Blank	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	03-01-99
Condition:	N/A	Analysis Requested:	TCLP

Analytical Results	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limit (mg/L)
Parameter			
o-Cresol	ND	0.020	200
p,m-Cresol	ND	0.040	200
2,4,6-Trichlorophenol	ND	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400
Pentachlorophenol	ND	0.020	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	2-fluorophenol	98 %
	2,4,6-tribromophenol	99 %

References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

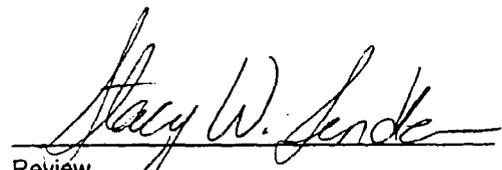
Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

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

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments: QA/QC for samples E695 - E696.

  
Analyst

  
Review

EPA METHOD 8040  
PHENOLS  
Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	03-01-99
Laboratory Number:	02-22-TCA-MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extraction	Date Received:	N/A
Preservative:	Cool	Date Extracted:	02-22-99
Condition:	Cool & Intact	Date Analyzed:	03-01-99
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	ND	0.020	200
p,m-Cresol	ND	0.040	200
2,4,6-Trichlorophenol	ND	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400
Pentachlorophenol	ND	0.020	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	2-Fluorophenol	98%
	2,4,6-Tribromophenol	99%

References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

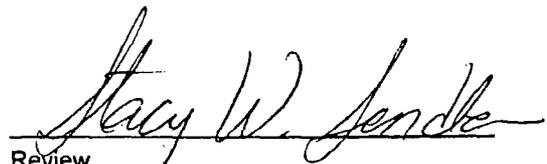
Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

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

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments: QA/QC for samples E695 - E696.

  
Analyst

  
Review

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	03-01-99
Laboratory Number:	E695	Date Sampled:	N/A
Sample Matrix:	Water	Date Received:	N/A
Preservative:	Cool	Date Extracted:	N/A
Condition:	Cool & Intact	Date Analyzed:	03-01-99
		Analysis Requested:	TCLP

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Detection Limit (mg/L)	Percent Difference
o-Cresol	ND	ND	0.020	0.0%
p,m-Cresol	ND	ND	0.040	0.0%
2,4,6-Trichlorophenol	0.708	0.701	0.020	1.0%
2,4,5-Trichlorophenol	0.222	0.219	0.020	1.1%
Pentachlorophenol	0.091	0.090	0.020	0.8%

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Maximum Difference
	8040 Compounds	30.0%

References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

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

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments: QA/QC for samples E695 - E696.

  
Analyst

  
Reviewer

EPA Method 8090  
Nitroaromatics and Cyclic Ketones  
TCLP Base/Neutral Organics  
Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	03-01-99
Laboratory Number:	03-01-TBN-Blank	Date Sampled:	N/A
Sample Matrix:	Hexane	Date Received:	N/A
Preservative:	N/A	Date Extracted:	N/A
Condition:	N/A	Date Analyzed:	03-01-99
		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	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery
	2-fluorobiphenyl	99%

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.  
Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note: Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments: QA/QC for samples E695 - E696.

  
Analyst

  
Review

EPA Method 8090  
Nitroaromatics and Cyclic Ketones  
TCLP Base/Neutral Organics  
QUALITY ASSURANCE REPORT

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	03-01-99
Laboratory Number:	02-22-BN-MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	02-22-99
Condition:	Cool and Intact	Date Analyzed:	03-01-99
		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	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

ND - Parameter not detected at the stated detection limit.

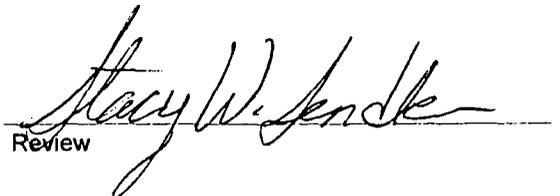
QA/QC Acceptance Criteria	Parameter	Percent Recovery
	2-fluorobiphenyl	98%

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.  
Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note: Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments: QA/QC for samples E695 - E696.

  
Analyst

  
Review



Client:	QA/QC	Project #:	N/A
Sample ID:	03-03-TCM QA/QC	Date Reported:	03-03-99
Laboratory Number:	E695	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP Metals	Date Analyzed:	03-03-99
Condition:	N/A	Date Extracted:	N/A

Blank & Duplicate Conc. (mg/L)	Instrument Blank	Method Blank	Detection Limit	Sample	Duplicate	% Diff.	Acceptance Range
Arsenic	ND	ND	0.0001	0.0437	0.0435	0.5%	0% - 30%
Barium	ND	ND	0.001	0.891	0.896	0.6%	0% - 30%
Cadmium	ND	ND	0.0001	0.0173	0.0174	0.6%	0% - 30%
Chromium	ND	ND	0.0001	ND	ND	0.0%	0% - 30%
Lead	ND	ND	0.0001	0.0149	0.0150	0.7%	0% - 30%
Mercury	ND	ND	0.0001	ND	ND	0.0%	0% - 30%
Selenium	ND	ND	0.0001	0.0315	0.0312	1.0%	0% - 30%
Silver	ND	ND	0.0001	ND	ND	0.0%	0% - 30%

Spike Conc. (mg/L)	Spike Added	Sample	Spiked Sample	Percent Recovery	Acceptance Range
Arsenic	0.1000	0.0437	0.144	100.1%	80% - 120%
Barium	1.000	0.891	1.89	99.8%	80% - 120%
Cadmium	0.0500	0.0173	0.0672	99.9%	80% - 120%
Chromium	0.0500	ND	0.0498	99.6%	80% - 120%
Lead	0.1000	0.0149	0.115	99.9%	80% - 120%
Mercury	0.0250	ND	0.0249	99.6%	80% - 120%
Selenium	0.1000	0.0315	0.131	99.6%	80% - 120%
Silver	0.0500	ND	0.0498	99.6%	80% - 120%

ND - Parameter not detected at the stated detection limit.

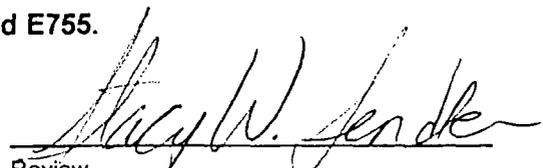
References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, Dec. 1996

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, December 1996.

Methods 7060B, 7081, 7131A, 7191, 7470A, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA, December 1996.

Comments: QA/QC for samples E695, E696 and E755.

  
Analyst

  
Review

# CHAIN OF CUSTODY RECORD

6615

Client / Project Name <i>Williams Field Service</i>			Project Location <i>Horse Canyon</i>		ANALYSIS / PARAMETERS							
Sampler: <i>Bill Beavers</i>			Client No. <i>97050-04</i>		No. of Containers <i>8</i>	<i>TEMP w/o #EP</i>						Remarks
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix								
<i>WASTE WATER</i>	<i>2/22/99</i>	<i>1330</i>	<i>E696</i>	<i>LIQUID</i>		<input checked="" type="checkbox"/>						

Relinquished by: (Signature) <i>Bill Beavers</i>	Date <i>2/22/99</i>	Time <i>1440</i>	Received by: (Signature) <i>William L. Jensen</i>	Date <i>2.22.99</i>	Time <i>144</i>
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

## ENVIROTECH INC.

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

Sample Receipt			
	Y	N	N/A
Received Intact	<input checked="" type="checkbox"/>		
Cool - Ice/Blue Ice	<input checked="" type="checkbox"/>		

District I - (505) 393-6161  
 P.O. Box 1988  
 Lordsburg, NM 88241-1980  
 District II - (505) 748-1283  
 311 S. First  
 Artesia, NM 88210  
 District III - (505) 334-6178  
 Rio Brazos Road  
 Lordsburg, NM 87410  
 District IV - (505) 827-7131

New Mexico  
 Energy Minerals and Natural Resources Department  
 Oil Conservation Division  
 2040 South Pacheco Street  
 Santa Fe, New Mexico 87505  
 (505) 827-7131

Form C-138  
 Originated 8/8/95

FEB 23 2000

Env. Environmental Bureau  
 Oil Conservation Division

Submit Original  
 Plus 1 Copy  
 to appropriate  
 District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/>	4. Generator <u>Douglas Schumbarger</u>
Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	5. Originating Site <u>Bloomfield Hwy</u>
2. Management Facility Destination <u>Envirotech Soil Remediation Facility Landfarm #2</u>	6. Transporter <u>Envirotech</u>
3. Address of Facility Operator <u>5796 US Highway 64 Farmington, NM 87401</u>	8. State <u>New Mexico</u>
7. Location of Material (Street Address or ULSTR)	<u>3106 Bloomfield Hwy.</u>
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.	<u>Farmington, N.M.</u>

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

Soda Ash used to Absorb & Neutralize 22 gallons of 20% HCL Spilled on Bloomfield Hwy



Estimated Volume 1 cy Known Volume (to be entered by the operator at the end of the haul) 1 cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 02.18.00  
 Waste Management Facility Authorized Agent  
 TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Denny G. Zwart TITLE: Geologist DATE: 2/22/00  
 APPROVED BY: Monty J. King TITLE: Environmental Geologist DATE: 2/23/00

District I (505) 393-6161  
 P. O. Box 190  
 Hobbs, NM 88241-1980  
 District II - (505) 748-1283  
 811 S. First  
 Artesia, NM 88210  
 District III - (505) 334-6178  
 Rio Brazos Road  
 NM 87410  
 District IV - (505) 827-7131

New Mexico  
 Energy Minerals and Natural Resources Department  
 Oil Conservation Division  
 2040 South Pacheco Street  
 Santa Fe, New Mexico 87505  
 (505) 827-7131

Form C-138  
 Originated 8/8/95

Submit Original  
 Plus 1 Copy  
 to appropriate  
 District Office

Env. JN: \_\_\_\_\_

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/>	4. Generator <u>Dowell Schumbarger</u>
Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	5. Originating Site <u>Bloomfield Hwy</u>
2. Management Facility Destination <u>Envirotech Soil Remediation Facility Landfarm #2</u>	6. Transporter <u>Envirotech</u>
3. Address of Facility Operator <u>5796 US Highway 64 Farmington, NM 87401</u>	8. State <u>New Mexico</u>
7. Location of Material (Street Address or ULSTR)	<u>3106 Bloomfield Hwy.</u>
9. Circle One: <u>Farmington, N.M.</u>	
<p>A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.</p> <p>B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.</p>	
All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

Soda Ash used to Absorb & Neutralize 27 gallons of 20% HCL Spilled on Bloomfield Hwy



Estimated Volume 1 cy Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_ cy

SIGNATURE: [Signature] TITLE: Landfarm Manager DATE: 02.18.00  
 Waste Management Facility Authorized Agent  
 TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: [Signature] TITLE: Geologist DATE: 2/22/00

APPROVED BY: \_\_\_\_\_ TITLE: \_\_\_\_\_ DATE: \_\_\_\_\_



# NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION  
AZTEC DISTRICT OFFICE  
1000 RIO BRAZOS ROAD  
AZTEC, NEW MEXICO 87410  
(505) 334-5175 Fax (505) 334-5176

GARY E. JOHNSON  
GOVERNOR

JENNIFER A. SALISBURY  
CABINET SECRETARY

## CERTIFICATE OF WASTE STATUS

1. Generator Name and Address: SCHUMBERGER - DOWELL 3106 BLOOMFIELD HWY FARMINGTON, N.MEX.	2. Destination Name: Envirotech Inc. Soil Remediation Remediation Facility Landfarm #2, Hilltop, New Mexico 5796 IIS Hwy 64, Farmington, NM 87401
3. Originating Site (name): <span style="float: right;">Location of the Waste (Street address &amp;/or ULSTR):</span> 3106 BLOOMFIELD HWY SP2H BY FRONT ENTRANCE AND APPROX 1/4 MILE WEST ON HWY 64	
4. Source and Description of Waste <span style="float: right;">SODA ASH USED TO NEUTRALIZE</span> 20% HCL - 27 GALS	

Attach list of originating sites as appropriate

STEPHAN R. SWORD representative for:  
(Print Name)

SCHUMBERGER - DOWELL do hereby certify that, according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July, 1988, regulatory determination, the above described waste is: (Check appropriate classification)

EXEMPT oilfield waste  NON-EXEMPT oilfield waste which is non-hazardous by characteristic analysis or by product identification

and that nothing has been added to the exempt or non-exempt non-hazardous waste defined above.

For NON-EXEMPT waste the following documentation is attached (check appropriate items):

- MSDS Information
- RCRA Hazardous Waste Analysis
- Chain of Custody
- Other (description):

This waste is in compliance with Regulated Levels of Naturally Occurring Radioactive Material (NORM) pursuant to 20 NMAC 3.1 subpart 1403.C and D.

Name (Original Signature): Stephan R. Sword

Title: Bulk Plant Supervisor

Date: 1/26/2000



**Dowell**

# MATERIAL SAFETY DATA SHEET

(Complies with USA OSHA 29 CFR 1910.1200 and ANSI Z 400.1)

DOWELL PRODUCT CODE: **M003** Effective Date: **04-March-1997**

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Identification of the substance or preparation:

**SODA ASH M3**

Company/undertaking identification: Dowell Safety/Environment - Worldwide  
300 Schlumberger Drive  
Sugar Land, Texas 77178, USA

Corporate Emergency Phone: USA 1-281-595-3518

Corporate Non-Emergency Phone: USA 1-281-285-8081

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

SODIUM CARBONATE; CAS 497-19-8; 60-100%

## 3. HAZARDS IDENTIFICATION

Emergency Overview

Form: Powder  
Color: White  
Odor: None

Main environmental hazards:

None known.

Main Physical Hazards

Special Precautions: None.  
Physical Hazard: dust

Main Health Hazards:

HMIS RATING: Health 1 Flammability 0 Reactivity 0

May cause eye irritation.

See Section 11 for a complete discussion of health hazards.

## 4. FIRST AID MEASURES

Eye contact: Immediately flush eyes with water for 15 minutes while holding eyelids open. Seek medical attention.

Skin contact: Rinse with water.

Inhalation: Remove to fresh air.

Swallowing: Rinse mouth with water. Seek medical attention if irritation occurs.

Notes: None.

## 5. FIRE FIGHTING MEASURES

Extinguishing media: None needed

Further Information: None known.

Flash point: Not combustible.

Method: Not applicable

DOWELL PRODUCT CODE

M003

Effective Date:

March-1997

Flammability (explosion limits in air):

Lower: Not applicable

Upper: Not applicable

Autoflammability (auto-ignition temperature):

Not applicable

Explosive properties (thermal decomposition temperature):

Not determined

NFPA Rating: Health 1 Flammability 0 Reactivity 0 Other: None

Combustion products: see Section 10.

**6. ACCIDENTAL RELEASE MEASURES**

After spillage/leakage:

Scoop into containers. Flush residual with plenty of water.

See Section 8 for protective equipment information.

See Section 13 for disposal information.

**7. HANDLING AND STORAGE**

Special Precautions:

No special precautions required.

Packaging requirements:

Paper bag (minimum 3 ply), or other industrial container designed for powders and granulated materials.

Ventilation:

Provide ventilation to keep airborne concentrations below exposure limits.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Respiratory protection:

Use NIOSH approved respirator with dust and mist protection (color coded gray or 3M 8710).

Eye protection:

Chemical splash goggles.

Hand protection:

Impervious gloves made of: PVC Butyl

Skin protection:

Clean, body-covering clothing.

Exposure Limit Guidelines (mg/m<sup>3</sup>)

No components have established exposure limits.

Dust particles: total = 10 mg/m<sup>3</sup>, respirable fraction = 5 mg/m<sup>3</sup>.**9. PHYSICAL AND CHEMICAL PROPERTIES**

Form:

Powder

Color:

White

Odor:

None

pH value:

11.6 (at 10.6 g/l)

Boiling point:

Decomposes 2912°F

Pour point:

1564°F

Vapor pressure:

Not applicable

Relative density (specific gravity):

2.5 (68°F)

Bulk Density (solids):

Not determined

Solubility in water:

210 g/l (68°F)

Viscosity:

Not applicable

Relative Vapor Density (air=1):

Not applicable

% Volatile:

Not determined

Nature

Alkaline

DOWELL PRODUCT CODE:

M003

Effective Date:

March-1997

**10. STABILITY AND REACTIVITY**

Stability:	Stable.
Conditions to avoid:	Not determined
Materials to avoid:	Acids
Hazardous Polymerization:	Will not occur.
Dust explosion hazard (solids):	Not applicable.
Special hazards:	None.
Hazardous decomposition products:	None.

**11. TOXICOLOGICAL INFORMATION**

Eye contact:	Irritant. May cause pain, redness, discomfort.
Skin contact:	No effect expected. Prolonged or repeated contact may cause mild irritation.
Inhalation:	No effect expected. Prolonged or repeated exposure may cause mild irritation. LC50 (mouse) = 2300 mg/kg.
Ingestion:	No effect expected. Swallowing large amounts may cause illness. LD50 (rats) = 4090 mg/kg.
Carcinogenicity:	Not listed by IARC, USA NTP, or USA OSHA.
Mutagenicity:	Not known to cause heritable genetic damage.
Teratogenicity:	Not known to cause birth defects.
Target organs which may be affected:	None known.
Sensitization:	Not known to cause allergic reaction.
Other:	None.

**12. ECOLOGICAL INFORMATION**

Information on product as a whole:	
Main environmental hazards:	None known.
Degradability:	Not applicable
Fish Toxicity:	Low toxicity to fish.
Acute invertebrates toxicity:	Not determined
Growth Inhibition (algae):	Not determined
Other:	None known.

**13. DISPOSAL CONSIDERATIONS**

Product:	Hazardous waste landfill. Material may be acceptable in some sanitary landfills; check local regulations.
Container:	Send empty bags to sanitary landfill. Render other types of containers unuseable by puncturing or crushing and sanitary landfill unless prohibited by local regulations.
USA EPA RCRA:	None.

**14. TRANSPORT INFORMATION**

ICC Tariff Classification	Compound, Gas or Oil Well Drilling				
ICC Item Number:	138640	ICC Class:	50	LTL	TL

DOWELL PRODUCT CODE: M003 Effective Date: March-1997

CERCLA RQ: Not established.  
Department of Transportation (DOT)

Designation: Not Regulated  
Hazard Class: Not Regulated  
Shipping Name: Not Regulated  
DOT Label:

**Canadian Shipments**

Shipping Name: Not Regulated  
Label:  
Classification: Package Group: PIN: none

**15. REGULATORY INFORMATION**

Notification/restrictions status:

USA:

All components of this material are on the USA TSCA inventory, or the components are exempt from inventory reporting.

CANADA:

All components of this material are on the Canada DSL, or the components are exempt from inventory reporting.

This product contains no chemicals subject to the USEPA reporting requirements of SARA 313.  
The USEPA CERCLA Reportable Quantity (RQ) for this product as a whole is: Not established.

Canadian WHMIS classification: D2B

**16. OTHER INFORMATION**

Sections affected by last revision:

EXPOSURE CONTROLS/PERSONAL PROTECTION

\*Mark of Schlumberger. The information herein is believed to be accurate and is presented in good faith; however, no warranties or representations are made by Dowell regarding the accuracy or completeness of the information.

District I - (505) 393-6161  
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 Hobbs, NM 88241-1980  
 District II - (505) 748-1283  
 811 S. First  
 Artesia, NM 88210  
 District III - (505) 334-6178  
 Rio Brazos Road  
 Socorro, NM 87410  
 District IV - (505) 827-7131

New Mexico  
 Energy Minerals and Natural Resources Department  
 Oil Conservation Division  
 2040 South Pacheco Street  
 Santa Fe, New Mexico 87505  
 (505) 827-7131

Form C-138  
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Env. JN: \_\_\_\_\_

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input checked="" type="checkbox"/> Non-Exempt: <input type="checkbox"/> Verbal Approval Received: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Danny Foust verbal 2:18:00 2:00 p.m.	4. Generator Phillips Petroleum
2. Management Facility Destination	Envirotech Soil Remediation Facility Landfarm #2	5. Originating Site Phillips Pet. 29.6 #52A
3. Address of Facility Operator	5796 US Highway 64 Farmington, NM 87401	6. Transporter Dawa
7. Location of Material (Street Address or ULSTR)		8. State New Mexico
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.		

BRIEF DESCRIPTION OF MATERIAL:

Sand, Coal fines, and residual petroleum hydrocarbon combination from a salt water disposal.



Estimated Volume 45cy ~~300~~ cy Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_ cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 02.18.00  
 Waste Management Facility Authorized Agent  
 TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Danny G. Foust TITLE: Geologist DATE: 2/22/00  
 APPROVED BY: Chad T. Lerner TITLE: Deputy Oil & Gas Inspector DATE: 2/22/2000

Dennis Faust  
verbal approval  
02.18.00  
9:00

### CERTIFICATE OF WASTE STATUS

1. Generator Name and Address: Phillips Petroleum Co. 5525 HWY 64, NEBU 3004 Farmington, N.M. 87401	2. Destination Name: Envirotech Landfarm NM Highway 44 Hilltop, NM
--	---

3. Originating Site (Name):  San Juan 29-6 # 52 A
---

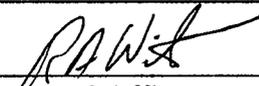
4. Source and Description of Waste:  <45 cubic yards of condensate contaminated soil. 100 bbl. condensate tank
--

I, Robert A. Wirtanen representative for:  
(Print Name)

Phillip's Petroleum Company do hereby  
certify that, according to the Resource Conservation Act (RCRA) and Environmental  
Protection Agency's July, 1998, regulatory determination, the above described waste is:  
(Check appropriate classification)

**EXEMPT** oilfield waste       **NON-EXEMPT** oilfield waste which is  
non-hazardous by characteristic analysis or by  
product identification and that nothing has been  
added to the exempt non-hazardous waste defined  
above.

For <b>EXEMPT</b> waste only, the following documentation is attached (check appropriate items)  <input type="checkbox"/> NORM Survey <input type="checkbox"/> TCLP Analysis	For <b>NON-EXEMPT</b> waste only, the following documentation is attached (check appropriate items)  <input type="checkbox"/> MSDS Information <input type="checkbox"/> TCLP Analysis <input type="checkbox"/> Chain of Custody <input type="checkbox"/> NORM Survey <input type="checkbox"/> Other (description)
--	--

Name (Original Signature):   
Title: Sr. Safety and Environmental Officer  
Date: 2/18/00

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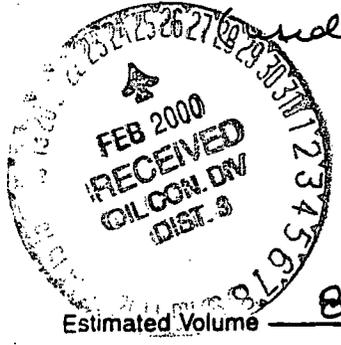
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 Oil Conservation Division

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

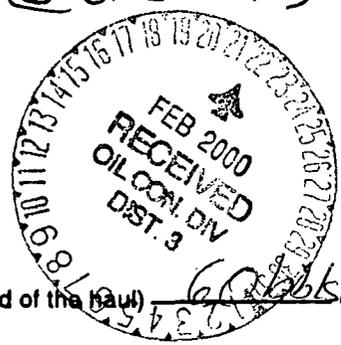
1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/> <i>Donne Faust.</i>	4. Generator <i>Catholic Protection Services</i>
Verbal Approval Received: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	5. Originating Site <i>CP well</i>
2. Management Facility Destination <i>Envirotech Soil Remediation Facility Landfarm #2</i>	6. Transporter <i>Island.</i>
3. Address of Facility Operator <i>5796 US Highway 64 Farmington, NM 87401</i>	8. State <i>New Mexico</i>
7. Location of Material (Street Address or ULSTR)	<i>Sec 31, T26N, R12W</i>
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

*Soil cuttings and water from soil boring installed to construct cathodic protection well. Includes dust palliative on access road @ LF2 units*



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Estimated Volume 80 bbls cy Known Volume (to be entered by the operator at the end of the haul) 60 bbls cy

SIGNATURE: *Harlan M. Brown* TITLE: Landfarm Manager DATE: 02-17-00  
 Waste Management Facility Authorized Agent  
 TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: *Donne Faust* TITLE: Geologist DATE: 2/22/00  
 APPROVED BY: *Monty J. Kelly* TITLE: Environmental Geologist DATE: 2/23/00

District I - (505) 393-6161  
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 District II - (505) 748-1283  
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 District III - (505) 334-6178  
 Rio Brazos Road  
 Socorro, NM 87410  
 District IV - (505) 827-7131

New Mexico  
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 Oil Conservation Division  
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 Santa Fe, New Mexico 87505  
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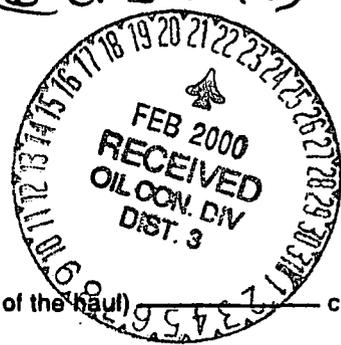
Env. JN: \_\_\_\_\_

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/>	Donne Faust.	4. Generator	Cathodic Protection Services
Verbal Approval Received: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		5. Originating Site	C.P. well
2. Management Facility Destination	Envirotech Soil Remediation Facility Landfarm #2	6. Transporter	Island.
3. Address of Facility Operator	5796 US Highway 64 Farmington, NM 87401	8. State	New Mexico
7. Location of Material (Street Address or ULSTR)			Sec 31, T26N, R12W
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.  All transporters must certify the wastes delivered are only those consigned for transport.			

BRIEF DESCRIPTION OF MATERIAL:

Soil cuttings and water from soil boring installed to construct cathodic protection well.  
 (used as dust palliative on access road @ LF2 units)



Estimated Volume 80 bbls cy Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_ cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 02.17.00  
 Waste Management Facility Authorized Agent  
 TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Donne Faust TITLE: Geologist DATE: 2/22/00  
 APPROVED BY: \_\_\_\_\_ TITLE: \_\_\_\_\_ DATE: \_\_\_\_\_



# NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION  
AZTEC DISTRICT OFFICE  
1800 RIO BRAZOS ROAD  
AZTEC, NEW MEXICO 87410  
(505) 334-8178 Fax (505) 334-8179

GARY E. JOHNSON  
GOVERNOR

JENNIFER A. SALISBURY  
CABINET SECRETARY

## CERTIFICATE OF WASTE STATUS

<b>1. Generator Name and Address:</b> CATHODIC PROTECTION SERVICES 2026 N. SULLIVAN FARMINGTON, NM 87499	<b>2. Destination Name:</b> Envirotech Inc. Soil Remediation Remediation Facility Landfarm #2, Hilltop, New Mexico 5796 IIS Hwy 64 Farmington, NM 87401
<b>3. Originating Site (name):</b> R 12W, TWP 26N, Sec. 31 IN SAN JUAN COUNTY, N.M. <small>Attach list of originating sites as appropriate</small>	
<b>4. Source and Description of Waste</b> WATER AND MUD	

I, JOHN CAYFORD representative for:  
(Print Name)

CATHODIC PROTECTION SERVICES do hereby certify that, according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July, 1988, regulatory determination, the above described waste is: (Check appropriate classification)

EXEMPT oilfield waste       NON-EXEMPT oilfield waste which is non-hazardous by characteristic analysis or by product identification

and that nothing has been added to the exempt or non-exempt non-hazardous waste defined above.

For NON-EXEMPT waste the following documentation is attached (check appropriate items):

- MSDS Information
- RCRA Hazardous Waste Analysis
- Chain of Custody
- Other (description): KNOWLEDGE OF PROCESS

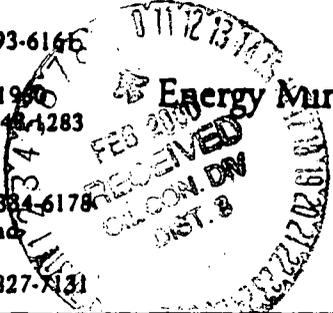
This waste is in compliance with Regulated Levels of Naturally Occurring Radioactive Material (NORM) pursuant to 20 NMAC 3.1 subpart 1403.C and D.

Name (Original Signature): [Signature]

Title: \_\_\_\_\_

Date: 02/17/2000

District I - (505) 393-6166  
 P.O. Box 1980  
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 Rio Brazos Road  
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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/>	4. Generator <u>Hexamer Compressor</u>
Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	5. Originating Site <u>Shop</u>
2. Management Facility Destination <u>Envirotech Soil Remediation Facility Landfarm #2</u>	6. Transporter <u>Envirotech</u>
3. Address of Facility Operator <u>5796 US Highway 64 Farmington, NM 87401</u>	8. State <u>New Mexico</u>
7. Location of Material (Street Address or ULSTR)	<u>1280 Teot Hong Rd Farmington, NM</u>
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

oily dirt from floor drain trench



Never hauled D97 4/12/01

Estimated Volume 1 drum cy Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_ cy

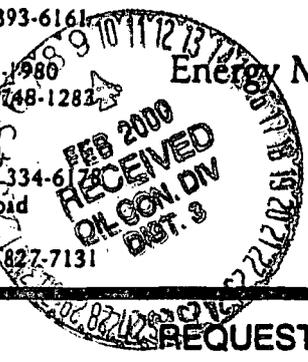
SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 02.09.00  
 Waste Management Facility Authorized Agent  
 TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Denny G. Faust TITLE: Geologist DATE: 02/09/00  
 APPROVED BY: Maryann J. Kelly TITLE: Environmental Geologist DATE: 02/11/00

200

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 P.O. Box 1980  
 Hobbs, NM 88241-1980  
 District II - (505) 748-1282  
 811 S. First  
 Artesia, NM 88210  
 District III - (505) 334-6788  
 Rio Brazos Road  
 Tucuman, NM 87410  
 District IV - (505) 827-7131



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 Energy Minerals and Natural Resources Department  
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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/>	4. Generator Hazardous Classification
Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	5. Originating Site <u>Shop</u>
2. Management Facility Destination <u>Envirotech Soil Remediation Facility Landfarm #2</u>	6. Transporter <u>Envirotech</u>
3. Address of Facility Operator <u>5796 US Highway 64 Farmington, NM 87401</u>	8. State <u>New Mexico</u>
7. Location of Material (Street Address or ULSTR)	<u>1230 Tear Long Rd. Farmington, NM</u>
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.  All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

oily dirt from floor drain trench

Estimated Volume 1 drum cy Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_ cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 02.09.00  
 Waste Management Facility Authorized Agent  
 TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Denny G. Fout TITLE: Geologist DATE: 02/09/00  
 APPROVED BY: \_\_\_\_\_ TITLE: \_\_\_\_\_ DATE: \_\_\_\_\_



# NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION  
AZTEC DISTRICT OFFICE  
1606 RIO BRAZOS ROAD  
AZTEC, NEW MEXICO 87410  
(505) 234-5170 Fax (505) 234-5170

GARY E. JOHNSON  
GOVERNOR

JENNIFER A. SALISBURY  
CABINET SECRETARY

## CERTIFICATE OF WASTE STATUS

<b>1. Generator Name and Address:</b> HANOVER COMPRESSOR CO. 1280 TROY KING RD. FARMINGTON NM. 87401	<b>2. Destination Name:</b> Envirotech Inc. Soil Remediation Remediation Facility Landfarm #2, Hilltop, New Mexico 5796 IIS Hwy 64, Farmington, NM 87401
<b>3. Originating Site (name):</b> HANOVER SHOP	<b>Location of the Waste (Street address &amp;/or ULSTR):</b> 1280 TROY KING RD. FARMINGTON NM. 87401
<small>Attach list of originating sites as appropriate</small>	
<b>4. Source and Description of Waste</b> FLOOR DRAIN CATCH PIT	

I, GEORGE PHILLIPS representative for:  
(Print Name)

HANOVER COMPRESSOR CO. do hereby certify that, according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July, 1988, regulatory determination, the above described waste is: (Check appropriate classification)

EXEMPT oilfield waste       NON-EXEMPT oilfield waste which is non-hazardous by characteristic analysis or by product identification

and that nothing has been added to the exempt or non-exempt non-hazardous waste defined above.

For NON-EXEMPT waste the following documentation is attached (check appropriate items):

MSDS Information \_\_\_\_\_ Other (description): \_\_\_\_\_  
 RCRA Hazardous Waste Analysis  
 Chain of Custody

This waste is in compliance with Regulated Levels of Naturally Occurring Radioactive Material (NORM) pursuant to 20 NMAC 3.1 subpart 1403.C and D.

Name (Original Signature): George Phillips

Title: ENVIRONMENTAL & SAFETY COORDINATOR

Date: 2/2/00

# ENVIROTECH LABS

**PRACTICAL SOLUTIONS FOR A BETTER TOMORROW**

January 28, 2000

Mr. George Phillips  
Hanover Compression, Inc.  
1280 Troy King Road  
Farmington, NM 87401

Phone (505) 325-3220

Client No.: 99043

Job No.: 904302

Dear Mr. White,

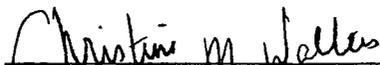
Enclosed are the analytical results for the sample collected from the location designated as "Floor Drains - Shop". One soil sample was collected by Hanover Compression personnel on 1/21/00, and received by the Envirotech laboratory on 1/21/00 for Hazardous Waste Characterization analysis (TCLP Volatiles, Semi-volatiles, Trace Metals, Ingitability, Reactivity and Corrosivity).

The sample was documented on Envirotech Chain of Custody No. 7626 and assigned Laboratory Nos. G719 (Composite from Floor Drains) for tracking purposes.

The samples were analyzed 1/24/00 through 1/27/00 using USEPA or equivalent methods.

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

Respectfully submitted,  
**Envirotech, Inc.**



Christine M. Walters  
Laboratory Coordinator / Environmental Scientist

enc.

CMW/cmw

C:/files/labreports/burl.wpd

## SUSPECTED HAZARDOUS WASTE ANALYSIS

Client:	Hanover Compression	Project #:	99043
Sample ID:	Composite from Floor Drains	Date Reported:	01-24-00
Lab ID#:	G719	Date Sampled:	01-21-00
Sample Matrix:	Sludge	Date Received:	01-21-00
Preservative:	Cool	Date Analyzed:	01-24-00
Condition:	Cool and Intact	Chain of Custody:	7629

Parameter	Result
-----------	--------

<b>IGNITABILITY:</b>	<b>Negative</b>	
<b>CORROSIVITY:</b>	<b>Negative</b>	<b>pH = 7.73</b>
<b>REACTIVITY:</b>	<b>Negative</b>	

RCRA Hazardous Waste Criteria

Parameter	Hazardous Waste Criterion
IGNITABILITY:	Characteristic of Ignitability as defined by 40 CFR, Subpart C, Sec. 261.21. (i.e. Sample ignition upon direct contact with flame or flash point < 60° C.)
CORROSIVITY:	Characteristic of Corrosivity as defined by 40 CFR, Subpart C, Sec. 261.22. (i.e. pH less than or equal to 2.0 or pH greater than or equal to 12.5)
REACTIVITY:	Characteristic of Reactivity as defined by 40 CFR, Subpart C, Sec. 261.23. (i.e. Violent reaction with water, strong base, strong acid, or the generation of Sulfide or Cyanide gases at STP with pH between 2.0 and 12.5)

Reference: 40 CFR part 261 Subpart C sections 261.21 - 261.23, July 1, 1992.

Comments: **Floor Drains - Shop.**

  
Analyst

  
Review

# ENVIROTECH LABS

PRactical SOLUTIONS FOR A BETTER TOMORROW

EPA METHODS 8010/8020  
AROMATIC / HALOGENATED  
VOLATILE ORGANICS

Client:	Hanover Compression	Project #:	99043
Sample ID:	Composite from Floor Drains	Date Reported:	01-26-00
Laboratory Number:	G719	Date Sampled:	01-21-00
Chain of Custody:	7629	Date Received:	01-21-00
Sample Matrix:	TCLP Extract	Date Extracted:	01-24-00
Preservative:	Cool	Date Analyzed:	01-25-00
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	ND	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	ND	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

ND - Parameter not detected at the stated detection limit.

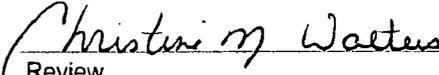
QA/QC Acceptance Criteria	Parameter	Percent Recovery
	Trifluorotoluene	98%
	Bromofluorobenzene	99%

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.  
Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994.  
Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Note: Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments: **Floor Drains - Shop.**

  
Analyst

  
Review

Client:	Hanover Compression	Project #:	99043
Sample ID:	Composite from Floor Drains	Date Reported:	01-27-00
Laboratory Number:	G719	Date Sampled:	01-21-00
Chain of Custody:	7629	Date Received:	01-21-00
Sample Matrix:	TCLP Extract	Date Extracted:	01-24-00
Preservative:	Cool	Date Analyzed:	01-27-00
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	ND	0.020	200
p,m-Cresol	0.054	0.040	200
2,4,6-Trichlorophenol	ND	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400
Pentachlorophenol	ND	0.020	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	2-Fluorophenol	98%
	2,4,6-Tribromophenol	99%

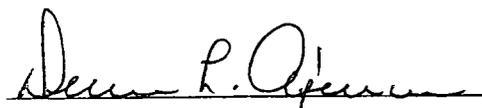
References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

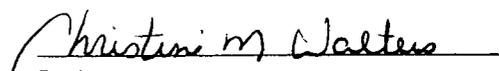
Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

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

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments: **Floor Drains - Shop.**

  
Analyst

  
Review

Client:	Hanover Compression	Project #:	99043
Sample ID:	Composite from Floor Drains	Date Reported:	01-27-00
Laboratory Number:	G719	Date Sampled:	01-21-00
Chain of Custody:	7629	Date Received:	01-21-00
Sample Matrix:	TCLP Extract	Date Extracted:	01-24-00
Preservative:	Cool	Date Analyzed:	01-27-00
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	0.020	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

ND - Parameter not detected at the stated detection limit.

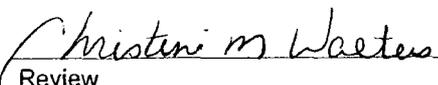
QA/QC Acceptance Criteria	Parameter	Percent Recovery
	2-fluorobiphenyl	100%

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.  
Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note: Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments: Floor Drains - Shop.

  
Analyst

  
Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	Hanover Compression	Project #:	99043
Sample ID:	Composite from Floor Drains	Date Reported:	01-26-00
Laboratory Number:	G719	Date Sampled:	01-21-00
Chain of Custody:	7629	Date Received:	01-21-00
Sample Matrix:	TCLP Extract	Date Analyzed:	01-26-00
Preservative:	Cool	Date Extracted:	01-24-00
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
Arsenic	0.407	0.001	5.0
Barium	0.720	0.001	21
Cadmium	0.025	0.001	0.11
Chromium	0.024	0.001	0.60
Lead	0.075	0.001	0.75
Mercury	ND	0.001	0.025
Selenium	ND	0.001	5.7
Silver	ND	0.001	0.14

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, December 1996.

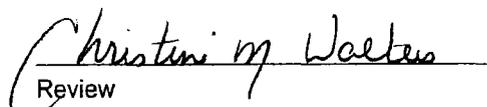
Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, December 1996.

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

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

Comments: **Floor Drains - Shop.**

  
Analyst

  
Review

# ENVIROTECH LABS

**PRACTICAL SOLUTIONS FOR A BETTER TOMORROW**

**QUALITY ASSURANCE / QUALITY CONTROL**

**DOCUMENTATION**

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	01-26-00
Laboratory Number:	01-25-TCV	Date Sampled:	N/A
Sample Matrix:	Water	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	01-25-00
Condition:	N/A	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	ND	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	ND	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

ND - Parameter not detected at the stated detection limit.

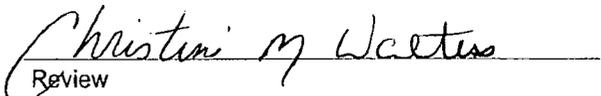
QA/QC Acceptance Criteria	Parameter	Percent Recovery
	Trifluorotoluene	100%
	Bromofluorobenzene	100%

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
 Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.  
 Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994.  
 Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Note: Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments: QA/QC for sample G719.

  
 Analyst

  
 Review

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	01-26-00
Laboratory Number:	01-24-TCV	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	01-25-00
Condition:	N/A	Date Extracted:	01-24-00
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	ND	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	ND	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

ND - Parameter not detected at the stated detection limit.

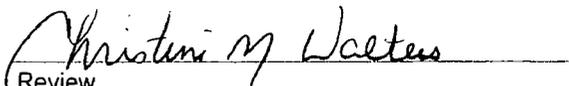
QA/QC Acceptance Criteria	Parameter	Percent Recovery
	Trifluorotoluene	99%
	Bromofluorobenzene	98%

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.  
Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994.  
Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Note: Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments: QA/QC for sample G719.

  
Analyst

  
Review

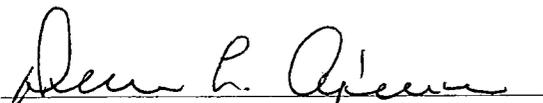
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Sample ID:	Matrix Duplicate	Date Reported:	01-26-00
Laboratory Number:	G719	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	01-25-00
Condition:	N/A	Date Extracted:	01-24-00

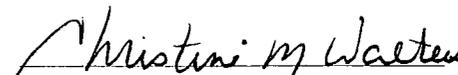
Parameter	Sample Result (mg/L)	Duplicate Sample Result (mg/L)	Detection Limits (mg/L)	Percent Difference
Vinyl Chloride	ND	ND	0.0001	0.0%
1,1-Dichloroethene	ND	ND	0.0001	0.0%
2-Butanone (MEK)	ND	ND	0.0001	0.0%
Chloroform	ND	ND	0.0001	0.0%
Carbon Tetrachloride	ND	ND	0.0001	0.0%
Benzene	ND	ND	0.0001	0.0%
1,2-Dichloroethane	ND	ND	0.0001	0.0%
Trichloroethene	ND	ND	0.0003	0.0%
Tetrachloroethene	ND	ND	0.0005	0.0%
Chlorobenzene	ND	ND	0.0003	0.0%
1,4-Dichlorobenzene	ND	ND	0.0002	0.0%

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.  
Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994.  
Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Comments: QA/QC for sample G719.

  
Analyst

  
Review

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Spike	Date Reported:	01-26-00
Laboratory Number:	G719	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	01-25-00
Condition:	N/A	Date Extracted:	01-24-00

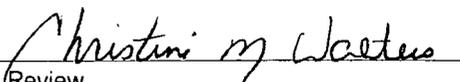
Parameter	Sample Result (mg/L)	Spike Added (mg/L)	Spiked Sample Result (mg/L)	Det. Limit (mg/L)	Percent Recovery	SW-846 % Rec. Accept. Range
Vinyl Chloride	ND	0.050	0.0495	0.0001	99%	28-163
1,1-Dichloroethene	ND	0.050	0.0494	0.0001	99%	43-143
2-Butanone (MEK)	ND	0.050	0.0495	0.0001	99%	47-132
Chloroform	ND	0.050	0.0498	0.0001	100%	49-133
Carbon Tetrachloride	ND	0.050	0.0491	0.0001	98%	43-143
Benzene	ND	0.050	0.0498	0.0001	100%	39-150
1,2-Dichloroethane	ND	0.050	0.0494	0.0001	99%	51-147
Trichloroethene	ND	0.050	0.0494	0.0003	99%	35-146
Tetrachloroethene	ND	0.050	0.0494	0.0005	99%	26-162
Chlorobenzene	ND	0.050	0.0494	0.0003	99%	38-150
1,4-Dichlorobenzene	ND	0.050	0.0494	0.0002	99%	42-143

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
 Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.  
 Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994.  
 Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Comments: QA/QC for sample G719.

  
 Analyst

  
 Review

**EPA METHOD 8040  
PHENOLS  
Quality Assurance Report  
Laboratory Blank**

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	01-27-00
Laboratory Number:	01-27-TCA	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	01-27-00
Condition:	N/A	Analysis Requested:	TCLP

Analytical Results	Concentration	Detection	Regulatory
Parameter	(mg/L)	Limit	Limit
		(mg/L)	(mg/L)
o-Cresol	ND	0.020	200
p,m-Cresol	ND	0.040	200
2,4,6-Trichlorophenol	ND	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400
Pentachlorophenol	ND	0.020	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	2-fluorophenol	98 %
	2,4,6-tribromophenol	99 %

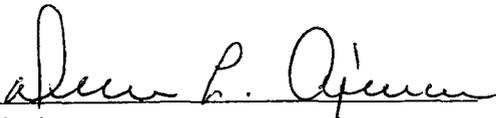
References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

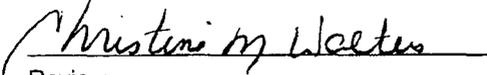
Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

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

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments: QA/QC for sample G719.

  
Analyst

  
Review

EPA METHOD 8040  
**PHENOLS**  
 Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	01-27-00
Laboratory Number:	01-24-TCA	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	01-24-00
Condition:	Cool & Intact	Date Analyzed:	01-27-00
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	ND	0.020	200
p,m-Cresol	ND	0.040	200
2,4,6-Trichlorophenol	ND	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400
Pentachlorophenol	ND	0.020	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	2-Fluorophenol	98%
	2,4,6-Tribromophenol	99%

References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

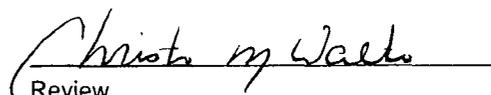
Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

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

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments: QA/QC for sample G719.

  
 Analyst

  
 Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA METHOD 8040 PHENOLS Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	01-27-00
Laboratory Number:	G719	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	01-24-00
Condition:	Cool & Intact	Date Analyzed:	01-27-00
		Analysis Requested:	TCLP

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Detection Limit (mg/L)	Percent Difference
o-Cresol	ND	ND	0.020	0.0%
p,m-Cresol	0.054	0.053	0.040	2.0%
2,4,6-Trichlorophenol	ND	ND	0.020	0.0%
2,4,5-Trichlorophenol	ND	ND	0.020	0.0%
Pentachlorophenol	ND	ND	0.020	0.0%

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Maximum Difference
	8040 Compounds	30.0%

References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

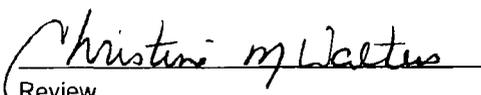
Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

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

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments: QA/QC for sample G719.

  
Analyst

  
Review

EPA Method 8090  
Nitroaromatics and Cyclic Ketones  
TCLP Base/Neutral Organics  
Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	01-27-00
Laboratory Number:	01-27-TBN	Date Sampled:	N/A
Sample Matrix:	Hexane	Date Received:	N/A
Preservative:	N/A	Date Extracted:	N/A
Condition:	N/A	Date Analyzed:	01-27-00
		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	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

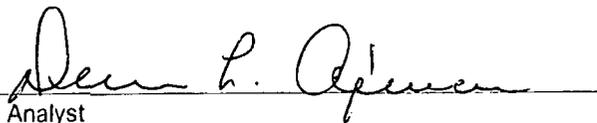
ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery
	2-fluorobiphenyl	98%

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.  
Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note: Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments: QA/QC for sample G719.

  
Analyst

  
Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8090  
Nitroaromatics and Cyclic Ketones  
TCLP Base/Neutral Organics  
QUALITY ASSURANCE REPORT

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	01-27-00
Laboratory Number:	01-24-TBN	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	01-24-00
Condition:	Cool and Intact	Date Analyzed:	01-27-00
		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	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

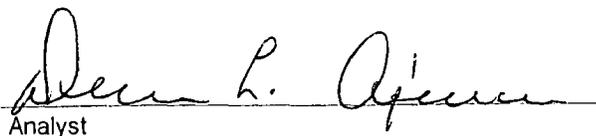
ND - Parameter not detected at the stated detection limit.

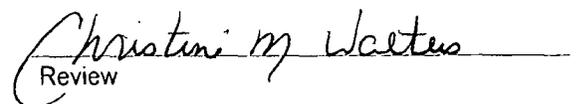
QA/QC Acceptance Criteria	Parameter	Percent Recovery
	2-fluorobiphenyl	98%

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.  
Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note: Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments: QA/QC for sample G719.

  
Analyst

  
Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8090  
Nitroaromatics and Cyclic Ketones  
TCLP Base/Neutral Organics  
QA/QC Matrix Duplicate Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	01-27-00
Laboratory Number:	G719	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Extracted:	01-24-00
Condition:	N/A	Date Analyzed:	01-27-00
		Analysis Requested:	TCLP

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Percent Difference	Det. Limit (mg/L)
Pyridine	ND	ND	0.0%	0.020
Hexachloroethane	ND	ND	0.0%	0.020
Nitrobenzene	ND	ND	0.0%	0.020
Hexachlorobutadiene	ND	ND	0.0%	0.020
2,4-Dinitrotoluene	ND	ND	0.0%	0.020
HexachloroBenzene	ND	ND	0.0%	0.020

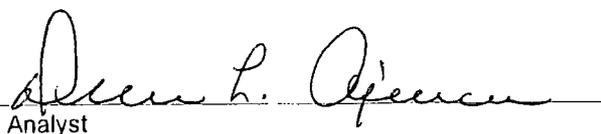
ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Maximum Difference
	8090 Compounds	30%

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.  
Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note: Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments: QA/QC for sample G719.

  
Analyst

  
Review

# ENVIROTECH LABS

**PRACTICAL SOLUTIONS FOR A BETTER TOMORROW**

**EPA METHOD 1311  
TOXICITY CHARACTERISTIC  
LEACHING PROCEDURE  
TRACE METAL ANALYSIS  
Quality Assurance Report**

Client:	QA/QC	Project #:	N/A
Sample ID:	01-26-TCM QA/QC	Date Reported:	01-26-00
Laboratory Number:	G719	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP Metals	Date Analyzed:	01-26-00
Condition:	N/A	Date Extracted:	N/A

Blank & Duplicate Conc. (mg/L)	Instrument Blank	Method Blank	Detection Limit	Sample	Duplicate	% Diff	Acceptance Range
Arsenic	ND	ND	0.001	0.407	0.409	0.5%	0% - 30%
Barium	ND	ND	0.001	0.720	0.722	0.3%	0% - 30%
Cadmium	ND	ND	0.001	0.025	0.025	0.0%	0% - 30%
Chromium	ND	ND	0.001	0.024	0.024	0.0%	0% - 30%
Lead	ND	ND	0.001	0.075	0.074	1.3%	0% - 30%
Mercury	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Selenium	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Silver	ND	ND	0.001	ND	ND	0.0%	0% - 30%

Spike Conc. (mg/L)	Spike Added	Sample	Spiked Sample	Percent Recovery	Acceptance Range
Arsenic	0.500	0.407	0.906	99.9%	80% - 120%
Barium	0.500	0.720	1.22	100.0%	80% - 120%
Cadmium	0.500	0.025	0.524	99.8%	80% - 120%
Chromium	0.500	0.024	0.523	99.8%	80% - 120%
Lead	0.500	0.075	0.573	99.7%	80% - 120%
Mercury	0.050	ND	0.049	98.0%	80% - 120%
Selenium	0.500	ND	0.498	99.6%	80% - 120%
Silver	0.500	ND	0.499	99.8%	80% - 120%

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, Dec. 1996

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, December 1996.

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

Comments: **QA/QC for sample G719.**

  
Analyst

  
Review

# CHAIN OF CUSTODY RECORD

7629

Client / Project Name <i>HANOVER Compression</i>			Project Location <i>Floor Drains - SHOP</i>		ANALYSIS / PARAMETERS						
Sampler: <i>Sam Rat Jr.</i>			Client No. <i>99043</i>		No. of Containers <i>1</i>	<i>TCLP w/ H&amp;P</i>					Remarks
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix							
<i>Composite from Floor Drains</i>	<i>01-21-00</i>	<i>12:15</i>	<i>G719</i>	<i>Sludge</i>		<input checked="" type="checkbox"/>					

Relinquished by: (Signature) <i>Harold J. Brown</i>	Date <i>01-21-00</i>	Time <i>15:15</i>	Received by: (Signature) <i>Christine M. Wooten</i>	Date <i>01-21-00</i>	Time <i>15:15</i>
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

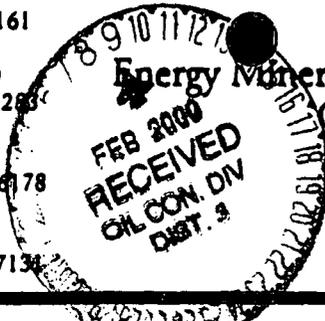
Results  
ATTN: GEORGE Phillips.



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

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

District I - (505) 393-6161  
 P.O. Box 1980  
 Hobbs, NM 88241-1980  
 District II - (505) 748-1288  
 834 S. First  
 Artesia, NM 88210  
 District III - (505) 334-4178  
 Rio Brazos Road  
 NM 87410  
 District IV - (505) 827-7134



New Mexico  
 Energy Minerals and Natural Resources Department  
 Oil Conservation Division  
 2040 South Pacheco Street  
 Santa Fe, New Mexico 87505  
 (505) 827-7131

RECEIVED  
 FFR 1.1 2000  
 Environmental Bureau  
 Oil Conservation Division  
 Env. JN: 97057-23

Form C-138  
 Originated 8/8/95  
 Submit Original  
 Plus 1 Copy  
 to appropriate  
 District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/>	Verbal to Hold pending results (2.21.99) D.C.	4. Generator E PFS
Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		5. Originating Site Hartman Canyon Camp. Sta.
2. Management Facility Destination Envirotech Soil Remediation Facility Landfarm #2		6. Transporter Envirotech
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401		8. State New Mexico
7. Location of Material (Street Address or ULSTR)		SESE, Sec 16, T27N, R6W Rio Arriba County NM
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.		

BRIEF DESCRIPTION OF MATERIAL:

Clean up of (ube) oil spill from broken (u)ve on compressor



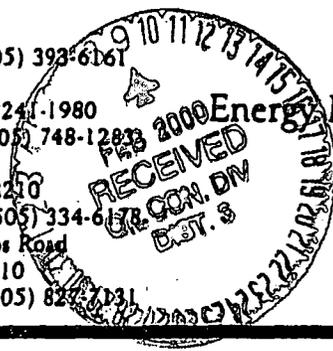
Estimated Volume 40 cy Known Volume (to be entered by the operator at the end of the haul) 21 cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 02.02.00  
 Waste Management Facility Authorized Agent  
 TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Henry G. Foust TITLE: Geologist DATE: 02/09/00  
 APPROVED BY: Martyn J. Kelly TITLE: Environmental Geologist DATE: 02/11/00

District I - (505) 393-6161  
 P.O. Box 1980  
 Hobbs, NM 88241-1980  
 District II - (505) 748-1288  
 811 S. First  
 Artesia, NM 88210  
 District III - (505) 334-6178  
 Rio Brazos Road  
 NM 87410  
 District IV - (505) 827-7131



New Mexico  
 Minerals and Natural Resources Department  
 Oil Conservation Division  
 2040 South Pacheco Street  
 Santa Fe, New Mexico 87505  
 (505) 827-7131

Form C-138  
 Originated 8/8/95

Submit Original  
 Plus 1 Copy  
 to appropriate  
 District Office

Env. JN: 97057-23

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/>	Verbal to Hold pending results 12.21.99 D.C.	4. Generator <u>EPFS</u>
Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		5. Originating Site <u>Martinez Canyon Camp. Sta.</u>
2. Management Facility Destination <u>Envirotech Soil Remediation Facility Landfarm #2</u>		6. Transporter <u>Envirotech</u>
3. Address of Facility Operator <u>5796 US Highway 64 Farmington, NM 87401</u>		8. State <u>New Mexico</u>
7. Location of Material (Street Address or ULSTR)		<u>SESE, Sec 16, T 27 N, R 6 W Rio Arriba County NM</u>
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.  All transporters must certify the wastes delivered are only those consigned for transport.		

BRIEF DESCRIPTION OF MATERIAL:

Clean up of tube oil spill from broken line on compressor

Estimated Volume 40 cy cy Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_ cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 02.09.00  
 Waste Management Facility Authorized Agent  
 TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Denny G. Feunt TITLE: Geologist DATE: 02/09/00

APPROVED BY: \_\_\_\_\_ TITLE: \_\_\_\_\_ DATE: \_\_\_\_\_

## CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:  El Paso Field Services Co. 614 Reilly Avenue Farmington, NM 87401	2. Destination Name:  Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico
3. Originating Site (name):      Location of Waste(Street address &/or ULSTR):  Martinez Canyon Compressor Station      Rio Arriba County, New Mexico SE/4, SE/4, Section 16, T27N, R6W  <small>Attach list of originating sites as appropriate</small>	
4. Source and Description of Waste  Soil contaminated with lube oil from gasket failure	

I, David Bays representative for:  
(Print Name)

El Paso Field Services Co. do hereby certify that,  
according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July,  
1988 regulatory determination, the above described waste is: (Check appropriate classification)

EXEMPT Oilfield waste       NON-EXEMPT oilfield waste which is non-hazardous by  
characteristic analysis or by product identification

and that nothing has been added to the exempt or non-hazardous waste defined above.

---

For **NON-EXEMPT** waste only, the following documentation is attached (check appropriate items):

MSDS Information       Other (description)  
 RCRA Hazardous Waste Analysis  
 Chain of Custody

---

Name (Original Signature): David Bays

Title: Principal Environmental Scientist

Date: January 18, 2000

## SUSPECTED HAZARDOUS WASTE ANALYSIS

Client:	El Paso Field Service	Project #:	705723
Sample ID:	Compressor Lube Upset	Date Reported:	12-28-99
Lab ID#:	G649	Date Sampled:	12-21-99
Sample Matrix:	Soil	Date Received:	12-21-99
Preservative:	Cool	Date Analyzed:	12-28-99
Condition:	Cool and Intact	Chain of Custody:	7608

Parameter	Result
-----------	--------

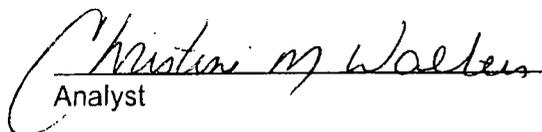
<b>IGNITABILITY:</b>	<b>Negative</b>	
<b>CORROSIVITY:</b>	<b>Negative</b>	<b>pH = 8.82</b>
<b>REACTIVITY:</b>	<b>Negative</b>	

RCRA Hazardous Waste Criteria

Parameter	Hazardous Waste Criterion
IGNITABILITY:	Characteristic of Ignitability as defined by 40 CFR, Subpart C, Sec. 261.21. (i.e. Sample ignition upon direct contact with flame or flash point < 60° C.)
CORROSIVITY:	Characteristic of Corrosivity as defined by 40 CFR, Subpart C, Sec. 261.22. (i.e. pH less than or equal to 2.0 or pH greater than or equal to 12.5)
REACTIVITY:	Characteristic of Reactivity as defined by 40 CFR, Subpart C, Sec. 261.23. (i.e. Violent reaction with water, strong base, strong acid, or the generation of Sulfide or Cyanide gases at STP with pH between 2.0 and 12.5)

Reference: 40 CFR part 261 Subpart C sections 261.21 - 261.23, July 1, 1992.

Comments: **Martinez Canyon Compressor Station.**

  
Analyst

  
Review

Client:	EPFS	Project #:	705723
Sample ID:	Compressor Lube Upset	Date Reported:	01-07-99
Laboratory Number:	G649	Date Sampled:	12-21-99
Chain of Custody:	7608	Date Received:	12-21-99
Sample Matrix:	TCLP Extract	Date Extracted:	12-29-99
Preservative:	Cool	Date Analyzed:	01-07-00
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	ND	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	ND	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

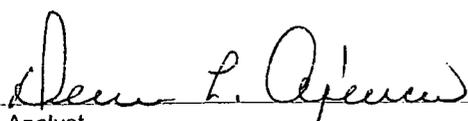
ND - Parameter not detected at the stated detection limit.

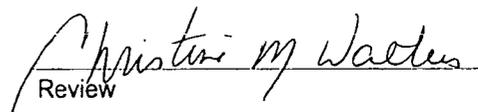
QA/QC Acceptance Criteria	Parameter	Percent Recovery
	Trifluorotoluene	98%
	Bromofluorobenzene	99%

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.  
Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994.  
Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Note: Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments: **Mantinez Canyon Compressor Station.**

  
Analyst

  
Review

Client:	EPFS	Project #:	705723
Sample ID:	Compressor Lube Upset	Date Reported:	01-07-00
Laboratory Number:	G649	Date Sampled:	12-21-99
Chain of Custody:	7608	Date Received:	12-21-99
Sample Matrix:	TCLP Extract	Date Extracted:	12-29-99
Preservative:	Cool	Date Analyzed:	01-07-00
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	ND	0.020	200
p,m-Cresol	ND	0.040	200
2,4,6-Trichlorophenol	ND	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400
Pentachlorophenol	ND	0.020	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	2-Fluorophenol	98%
	2,4,6-Tribromophenol	99%

References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

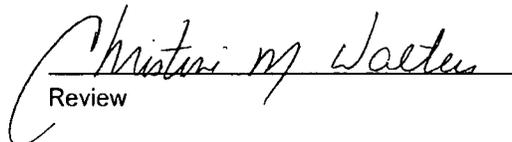
Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

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

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments: **Mantinez Canyon Compressor Station.**

  
Analyst

  
Review

Client:	EPFS	Project #:	705723
Sample ID:	Compressor Lube Upset	Date Reported:	01-07-00
Laboratory Number:	G649	Date Sampled:	12-21-99
Chain of Custody:	7608	Date Received:	12-21-99
Sample Matrix:	TCLP Extract	Date Extracted:	12-29-99
Preservative:	Cool	Date Analyzed:	01-07-00
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	0.020	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

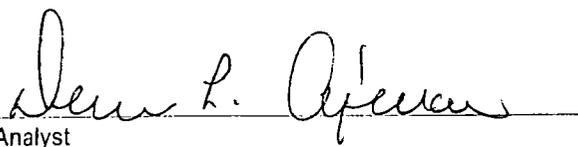
ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery
	2-fluorobiphenyl	99%

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.  
Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note: Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments: **Martinez Canyon Compressor Station.**

  
Analyst

  
Review

EPA METHOD 1311  
TOXICITY CHARACTERISTIC  
LEACHING PROCEDURE  
TRACE METAL ANALYSIS

Client:	EPFS	Project #:	705723
Sample ID:	Compressor Lube Upset	Date Reported:	01-10-00
Laboratory Number:	G649	Date Sampled:	12-21-99
Chain of Custody:	7608	Date Received:	12-21-99
Sample Matrix:	TCLP Extract	Date Analyzed:	01-08-00
Preservative:	Cool	Date Extracted:	12-29-99
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
Arsenic	ND	0.001	5.0
Barium	1.24	0.001	21
Cadmium	ND	0.001	0.11
Chromium	ND	0.001	0.60
Lead	ND	0.001	0.75
Mercury	ND	0.001	0.025
Selenium	ND	0.001	5.7
Silver	ND	0.001	0.14

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, December 1996.

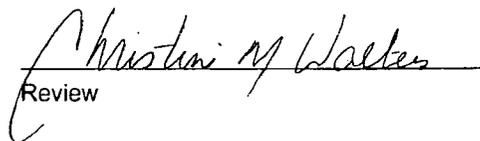
Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, December 1996.

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

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

Comments: **Mantinez Canyon Compressor Station.**

  
Analyst

  
Review

# ENVIRO TECH LABS

**PRACTICAL SOLUTIONS FOR A BETTER TOMORROW**

**QUALITY ASSURANCE / QUALITY CONTROL**

**DOCUMENTATION**

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	01-07-00
Laboratory Number:	01-07-TCLP VOL	Date Sampled:	N/A
Sample Matrix:	Water	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	01-07-00
Condition:	N/A	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	ND	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	ND	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery
	Trifluorotoluene	100%
	Bromofluorobenzene	100%

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
 Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.  
 Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994.  
 Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Note: Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments: QA/QC for sample G649.

  
 Analyst

  
 Review

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	01-07-00
Laboratory Number:	12-29-TCLP VOL	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	01-07-00
Condition:	N/A	Date Extracted:	12-29-99
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	ND	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	ND	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

ND - Parameter not detected at the stated detection limit.

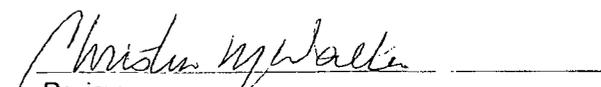
QA/QC Acceptance Criteria	Parameter	Percent Recovery
	Trifluorotoluene	99%
	Bromofluorobenzene	98%

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.  
Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994.  
Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Note: Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments: QA/QC for sample G649.

  
Analyst

  
Review

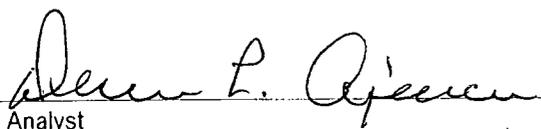
Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	01-07-00
Laboratory Number:	G649	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	01-07-00
Condition:	N/A	Date Extracted:	12-29-99

Parameter	Sample Result (mg/L)	Duplicate Sample Result (mg/L)	Detection Limits (mg/L)	Percent Difference
Vinyl Chloride	ND	ND	0.0001	0.0%
1,1-Dichloroethene	ND	ND	0.0001	0.0%
2-Butanone (MEK)	ND	ND	0.0001	0.0%
Chloroform	ND	ND	0.0001	0.0%
Carbon Tetrachloride	ND	ND	0.0001	0.0%
Benzene	ND	ND	0.0001	0.0%
1,2-Dichloroethane	ND	ND	0.0001	0.0%
Trichloroethene	ND	ND	0.0003	0.0%
Tetrachloroethene	ND	ND	0.0005	0.0%
Chlorobenzene	ND	ND	0.0003	0.0%
1,4-Dichlorobenzene	ND	ND	0.0002	0.0%

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
 Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.  
 Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994.  
 Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Comments: QA/QC for sample G649.

  
 Analyst

  
 Review

Client: QA/QC  
Sample ID: Matrix Spike  
Laboratory Number: G649  
Sample Matrix: TCLP Extract  
Analysis Requested: TCLP  
Condition: N/A

Project #: N/A  
Date Reported: 01-07-00  
Date Sampled: N/A  
Date Received: N/A  
Date Analyzed: 01-07-00  
Date Extracted: 12-29-99

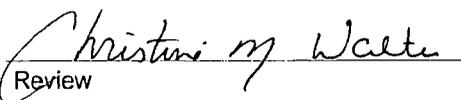
Parameter	Sample Result (mg/L)	Spike Added (mg/L)	Spiked Sample Result (mg/L)	Det. Limit (mg/L)	Percent Recovery	SW-846 % Rec. Accept. Range
Vinyl Chloride	ND	0.050	0.0495	0.0001	99%	28-163
1,1-Dichloroethene	ND	0.050	0.0494	0.0001	99%	43-143
2-Butanone (MEK)	ND	0.050	0.0495	0.0001	99%	47-132
Chloroform	ND	0.050	0.0498	0.0001	100%	49-133
Carbon Tetrachloride	ND	0.050	0.0491	0.0001	98%	43-143
Benzene	ND	0.050	0.0498	0.0001	100%	39-150
1,2-Dichloroethane	ND	0.050	0.0494	0.0001	99%	51-147
Trichloroethene	ND	0.050	0.0494	0.0003	99%	35-146
Tetrachloroethene	ND	0.050	0.0494	0.0005	99%	26-162
Chlorobenzene	ND	0.050	0.0494	0.0003	99%	38-150
1,4-Dichlorobenzene	ND	0.050	0.0494	0.0002	99%	42-143

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.  
Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994.  
Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Comments: QA/QC for sample G649.

  
Analyst

  
Review

EPA METHOD 8040  
PHENOLS  
Quality Assurance Report  
Laboratory Blank

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	01-07-00
Laboratory Number:	01-07-TCA	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	01-07-00
Condition:	N/A	Analysis Requested:	TCLP

Analytical Results	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limit (mg/L)
Parameter			
o-Cresol	ND	0.020	200
p,m-Cresol	ND	0.040	200
2,4,6-Trichlorophenol	ND	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400
Pentachlorophenol	ND	0.020	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	2-fluorophenol	98 %
	2,4,6-tribromophenol	99 %

References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

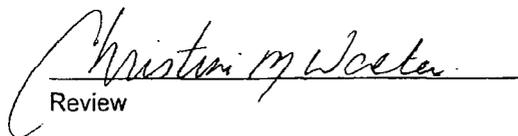
Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

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

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments: QA/QC for sample G649.

  
Analyst

  
Review

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	01-07-00
Laboratory Number:	12-29-TCA	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	12-29-99
Condition:	Cool & Intact	Date Analyzed:	01-07-00
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	ND	0.020	200
p,m-Cresol	ND	0.040	200
2,4,6-Trichlorophenol	ND	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400
Pentachlorophenol	ND	0.020	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	2-Fluorophenol	98%
	2,4,6-Tribromophenol	99%

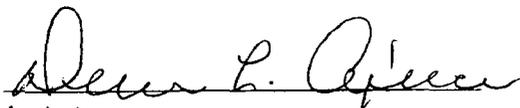
References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

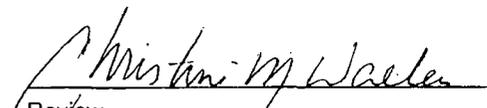
Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

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

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments: **QA/QC for sample G649.**

  
Analyst

  
Review

EPA METHOD 8040  
**PHENOLS**  
 Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	01-07-00
Laboratory Number:	G629	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	12-29-99
Condition:	Cool & Intact	Date Analyzed:	01-07-00
		Analysis Requested:	TCLP

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Detection Limit (mg/L)	Percent Difference
o-Cresol	ND	ND	0.020	0.0%
p,m-Cresol	ND	ND	0.040	0.0%
2,4,6-Trichlorophenol	ND	ND	0.020	0.0%
2,4,5-Trichlorophenol	ND	ND	0.020	0.0%
Pentachlorophenol	ND	ND	0.020	0.0%

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Maximum Difference
	8040 Compounds	30.0%

References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

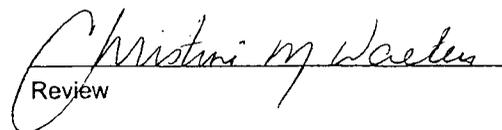
Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

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

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments: QA/QC for sample G649.

  
 Analyst

  
 Review

EPA Method 8090  
Nitroaromatics and Cyclic Ketones  
TCLP Base/Neutral Organics  
Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	01-07-00
Laboratory Number:	01-07-TBN	Date Sampled:	N/A
Sample Matrix:	Hexane	Date Received:	N/A
Preservative:	N/A	Date Extracted:	N/A
Condition:	N/A	Date Analyzed:	01-07-00
		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	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

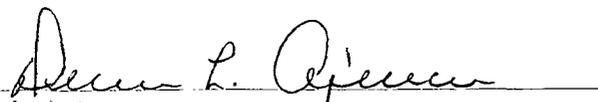
ND - Parameter not detected at the stated detection limit.

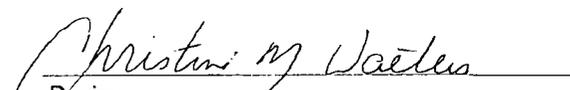
QA/QC Acceptance Criteria	Parameter	Percent Recovery
	2-fluorobiphenyl	97%

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.  
Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note: Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments: QA/QC for sample G649.

  
Analyst

  
Review

EPA Method 8090  
Nitroaromatics and Cyclic Ketones  
TCLP Base/Neutral Organics  
QUALITY ASSURANCE REPORT

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	01-07-00
Laboratory Number:	12-29-TBN	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	12-29-99
Condition:	Cool and Intact	Date Analyzed:	01-07-00
		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	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

ND - Parameter not detected at the stated detection limit.

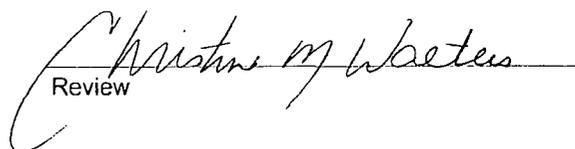
QA/QC Acceptance Criteria	Parameter	Percent Recovery
	2-fluorobiphenyl	97%

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.  
Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note: Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments: QA/QC for sample G649.

  
Analyst

  
Review

EPA Method 8090  
 Nitroaromatics and Cyclic Ketones  
 TCLP Base/Neutral Organics  
 QA/QC Matrix Duplicate Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	01-07-00
Laboratory Number:	G629	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Extracted:	12-29-99
Condition:	N/A	Date Analyzed:	01-07-00
		Analysis Requested:	TCLP

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Percent Difference	Det. Limit (mg/L)
Pyridine	ND	ND	0.0%	0.020
Hexachloroethane	ND	ND	0.0%	0.020
Nitrobenzene	ND	ND	0.0%	0.020
Hexachlorobutadiene	ND	ND	0.0%	0.020
2,4-Dinitrotoluene	ND	ND	0.0%	0.020
HexachloroBenzene	ND	ND	0.0%	0.020

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Maximum Difference
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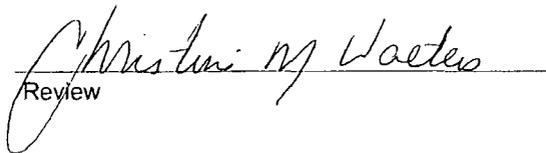
8090 Compounds 30%

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
 Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.  
 Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note: Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments: QA/QC for sample G649.

  
 Analyst

  
 Review

Client:	QA/QC	Project #:	N/A
Sample ID:	01-08-TCM QA/QC	Date Reported:	01-10-00
Laboratory Number:	G649	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP Metals	Date Analyzed:	01-08-00
Condition:	N/A	Date Extracted:	N/A

Blank & Duplicate Conc. (mg/L)	Instrument Blank	Method Blank	Detection Limit	Sample	Duplicate	% Diff	Acceptance Range
Arsenic	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Barium	ND	ND	0.001	1.24	1.23	0.8%	0% - 30%
Cadmium	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Chromium	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Lead	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Mercury	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Selenium	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Silver	ND	ND	0.001	ND	ND	0.0%	0% - 30%

Spike Conc. (mg/L)	Spike Added	Sample	Spiked Sample	Percent Recovery	Acceptance Range
Arsenic	0.500	ND	0.499	99.8%	80% - 120%
Barium	0.500	1.24	1.73	99.4%	80% - 120%
Cadmium	0.500	ND	0.498	99.6%	80% - 120%
Chromium	0.500	ND	0.497	99.4%	80% - 120%
Lead	0.500	ND	0.499	99.8%	80% - 120%
Mercury	0.050	ND	0.049	98.0%	80% - 120%
Selenium	0.500	ND	0.497	99.4%	80% - 120%
Silver	0.500	ND	0.498	99.6%	80% - 120%

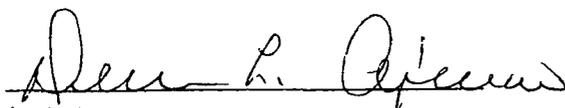
ND - Parameter not detected at the stated detection limit.

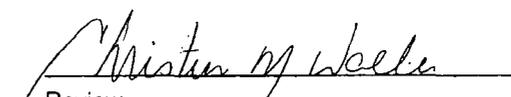
References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, Dec. 1996

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, December 1996.

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

Comments: QA/QC for sample G649.

  
Analyst

  
Review

# CHAIN OF CUSTODY RECORD

7608

Client / Project Name <b>EPFS</b>			Project Location <b>Martinez Canyon Compressor Station</b>				ANALYSIS / PARAMETERS					
Sampler: <b>Harlan W. Brown</b>			Client No. <b>97057-23</b>				No. of Containers <b>1</b>	TCLP <b>✓</b>	W/ HHP			Remarks
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix								
<b>Compressor Lube upset</b>	<b>12-21-99</b>	<b>11:50</b>	<b>G649</b>	<b>Soil</b>								
Relinquished by: (Signature) <i>Harlan W. Brown</i>			Date <b>12-21-99</b>	Time <b>17:30</b>	Received by: (Signature) <i>Christina Wacker</i>			Date <b>12-21-99</b>	Time <b>17:30</b>			
Relinquished by: (Signature)					Received by: (Signature)							
Relinquished by: (Signature)					Received by: (Signature)							
<b>ENVIROTECH INC.</b> <hr/> 5796 U.S. Highway 64 Farmington, New Mexico 87401 (505) 632-0615							Sample Receipt					
								Y	N	N/A		
							Received Intact	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
							Cool - Ice/Blue Ice	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

District I - (505) 393-6161  
 P.O. Box 1980  
 Hobbs, NM 88241-1980  
 District II - (505) 748-1283  
 811 S. First  
 Artesia, NM 88210  
 District III - (505) 334-6273  
 Rio Brazos Road  
 Roswell, NM 87410  
 District IV - (505) 827-7131



New Mexico  
 Energy Minerals and Natural Resources Department  
 Oil Conservation Division  
 2040 South Pacheco Street  
 Santa Fe, New Mexico 87505  
 (505) 827-7131

RECEIVED  
 FEB 11 2000  
 Environmental Bureau  
 Oil Conservation Division  
 Env. JN: 92132

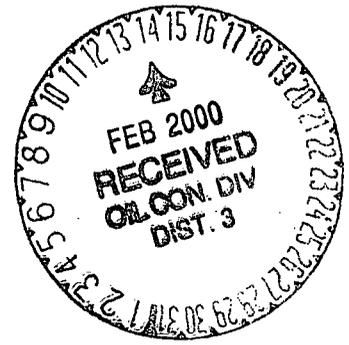
Form C-138  
 Originated 8/8/95  
 Submit Original  
 Plus 1 Copy  
 to appropriate  
 District Office

**REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE**

1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/>	4. Generator <u>Halliburton E.S.</u>
Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	5. Originating Site <u>Main land</u>
2. Management Facility Destination <u>Envirotech Soil Remedia. Facility Landfarm #2</u>	6. Transporter <u>Envirotech</u>
3. Address of Facility Operator <u>5796 US Highway 64 Farmington, NM 87401</u>	8. State <u>New Mexico</u>
7. Location of Material (Street Address or ULSTR)	<u>4109 E. Main Farmington, New Mexico</u>
9. <u>Circle One:</u> A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.	

**BRIEF DESCRIPTION OF MATERIAL:**

Construction of wash bay solids.



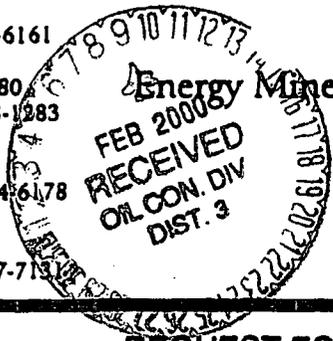
Estimated Volume 60 cy Known Volume (to be entered by the operator at the end of the haul) 128 cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 02.09.00  
 Waste Management Facility Authorized Agent  
 TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

*(This space for State Use)*

APPROVED BY: Denny Z. Fent TITLE: Geologist DATE: 02/09/00  
 APPROVED BY: Monty J. Kelly TITLE: Environmental Geologist DATE: 02/11/00

District I - (505) 393-6161  
 P.O. Box 1980  
 Hobbs, NM 88241-1980  
 District II - (505) 748-1283  
 811 S. First  
 Artesia, NM 88210  
 District III - (505) 334-6178  
 Rio Brazos Road  
 Artesia, NM 87410  
 District IV - (505) 827-7131



New Mexico  
 Energy Minerals and Natural Resources Department  
 Oil Conservation Division  
 2040 South Pacheco Street  
 Santa Fe, New Mexico 87505  
 (505) 827-7131

Form C-138  
 Originated 8/8/95

Submit Original  
 Plus 1 Copy  
 to appropriate  
 District Office

Env. JN: 92132

**REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE**

1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/>	4. Generator <u>Halliburton E.S.</u>
Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	5. Originating Site <u>Main Land.</u>
2. Management Facility Destination <u>Envirotech Soil Remedia. Facility Landfarm #2</u>	6. Transporter <u>Envirotech</u>
3. Address of Facility Operator <u>5796 US Highway 64 Farmington, NM 87401</u>	8. State <u>New Mexico</u>
7. Location of Material (Street Address or ULSTR)	<u>4109 E. Main Farmington, New Mexico</u>
9. <u>Circle One:</u> A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.  All transporters must certify the wastes delivered are only those consigned for transport.	

**BRIEF DESCRIPTION OF MATERIAL:**

Contamination of water by solids.

Estimated Volume 60 cy Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_ cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 02-09-00  
 Waste Management Facility Authorized Agent  
 TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Denise G. Faust TITLE: Geologist DATE: 02/09/00  
 APPROVED BY: \_\_\_\_\_ TITLE: \_\_\_\_\_ DATE: \_\_\_\_\_



# NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION  
AZTEC DISTRICT OFFICE  
1000 RIO BRAZOS ROAD  
AZTEC, NEW MEXICO 87410  
(505) 334-5170 Fax (505) 334-5170

GARY E. JOHNSON  
GOVERNOR

JENNIFER A. SALISBURY  
CABINET SECRETARY

## CERTIFICATE OF WASTE STATUS

<b>1. Generator Name and Address:</b> Doug Hodges "Halliburton ES" 4109 East Main Farmington 87401	<b>2. Destination Name:</b> Envirotech Inc. Soil Remediation Remediation Facility Landfarm #2, Hilltop, New Mexico 5796 IIS Hwy 64, Farmington, NM 87401
<b>3. Originating Site (name):</b> Halliburton Energy Services <b>Location of the Waste (Street address &amp;/or ULSTRI):</b> 4109 East Main Farmington NM 87401 <small>Attach list of originating sites as appropriate</small>	
<b>4. Source and Description of Waste</b> Wash Rack Sued Wint	

I, DOUG HODGES representative for:  
 (Print Name)  
HALLIBURTON ENERGY SERVICES do hereby certify that,  
 according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July,  
 1988, regulatory determination, the above described waste is: (Check appropriate classification)

EXEMPT oilfield waste       NON-EXEMPT oilfield waste which is non-hazardous by characteristic analysis or by product identification

and that nothing has been added to the exempt or non-exempt non-hazardous waste defined above.

For **NON-EXEMPT** waste the following documentation is attached (check appropriate items):  
 MSDS Information       Other (description):  
 RCRA Hazardous Waste Analysis  
 Chain of Custody

This waste is in compliance with Regulated Levels of Naturally Occurring Radioactive Material (NORM) pursuant to 20 NMAC 3.1 subpart 1403.C and D.

Name (Original Signature): Doug Hodges  
 Title: Maintenance Supervisor  
 Date: 2-9-00



**REAFFIRMATION OF WASTE STATUS / NON-EXEMPT WASTE**

I hereby certify that the attached Request For Approval and Certificate of Waste Status are for materials generated using the same procedures and equipment employed to generate the waste on which Toxicity Characteristic Leaching Procedures (TCLP) analysis was performed. I further certify that said material is from operations in the immediate Four Corners area.

Date of TCLP 1-21-99

Printed Name DOUG HODGES

Title / Agency Maintenance Supervisor  
Halliburton Energy S

Address 4109 E Main  
Farmington NM 87401

Signature Doug Hodges

Date 2-09-00

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

January 28, 1999

Mr. Ed Shannon  
Halliburton Energy Services, Inc.  
4109 East Main Street  
Farmington, New Mexico 87401

Project No.: 92132

Dear Mr. Shannon,

Enclosed are the analytical results for the sample collected from the location designated as "East Main, Farmington-Wash Bay Solids". One soil sample was collected by Envirotech personnel on 01/13/99, and delivered to the Envirotech laboratory on 01/13/99 for Hazardous Waste Characterization analysis (Volatiles, Semi-Volatiles, Trace Metals, Corrosivity, Ignitability, and Reactivity).

The sample was documented on Envirotech Chain of Custody No. 6498 and assigned Laboratory No. E499 for tracking purposes. The sample was extracted on 01/18/99 and analyzed 01/18/99 through 01/27/99 using USEPA or equivalent methods.

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

Respectfully submitted,  
Envirotech, Inc.



---

Stacy W. Sandler  
Environmental Scientist/Laboratory Manager

enc.

SWS/sws

92132/tclp0199.lb1

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## SUSPECTED HAZARDOUS WASTE ANALYSIS

Client:	Halliburton	Project #:	92132
Sample ID:	Wash Bay Solids	Date Reported:	01-15-99
Lab ID#:	E499	Date Sampled:	01-13-99
Sample Matrix:	Soil	Date Received:	01-13-99
Preservative:	Cool	Date Analyzed:	01-15-99
Condition:	Cool and Intact	Chain of Custody:	6498

Parameter	Result
-----------	--------

IGNITABILITY:	Negative
CORROSIVITY:	Negative      pH = 7.98
REACTIVITY:	Negative

### RCRA Hazardous Waste Criteria

Parameter	Hazardous Waste Criterion
IGNITABILITY:	Characteristic of Ignitability as defined by 40 CFR, Subpart C, Sec. 261.21. (i.e. Sample ignition upon direct contact with flame or flash point < 60° C.)
CORROSIVITY:	Characteristic of Corrosivity as defined by 40 CFR, Subpart C, Sec. 261.22. (i.e. pH less than or equal to 2.0 or pH greater than or equal to 12.5)
REACTIVITY:	Characteristic of Reactivity as defined by 40 CFR, Subpart C, Sec. 261.23. (i.e. Violent reaction with water, strong base, strong acid, or the generation of Sulfide or Cyanide gases at STP with pH between 2.0 and 12.5)

Reference: 40 CFR part 261 Subpart C sections 261.21 - 261.23, July 1, 1992.

Comments: East Main, Farmington.

  
Analyst

  
Review

Client:	Halliburton	Project #:	92132
Sample ID:	Wash Bay Solids	Date Reported:	01-19-99
Laboratory Number:	E499	Date Sampled:	01-13-99
Chain of Custody:	6498	Date Received:	01-13-99
Sample Matrix:	Soil	Date Extracted:	01-18-99
Preservative:	Cool	Date Analyzed:	01-19-99
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	ND	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	ND	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

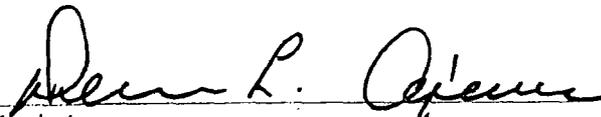
ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery
	Trifluorotoluene	98%
	Bromofluorobenzene	99%

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.  
Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994.  
Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Note: Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments: East Main, Farmington.

  
Analyst

  
Review

Client:	Halliburton	Project #:	92132
Sample ID:	Wash Bay Solids	Date Reported:	01-21-99
Laboratory Number:	E499	Date Sampled:	01-13-99
Chain of Custody:	6498	Date Received:	01-13-99
Sample Matrix:	Soil	Date Extracted:	01-18-99
Preservative:	Cool	Date Analyzed:	01-21-99
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	0.123	0.020	200
p,m-Cresol	0.054	0.040	200
2,4,6-Trichlorophenol	0.060	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400
Pentachlorophenol	0.556	0.020	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	2-Fluorophenol	98%
	2,4,6-Tribromophenol	99%

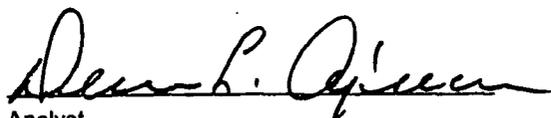
References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

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

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments: East Main, Farmington.

  
Analyst

  
Review

Client:	Halliburton	Project #:	92132
Sample ID:	Wash Bay Solids	Date Reported:	01-22-99
Laboratory Number:	E499	Date Sampled:	01-13-99
Chain of Custody:	6498	Date Received:	01-13-99
Sample Matrix:	Soil	Date Extracted:	01-18-99
Preservative:	Cool	Date Analyzed:	01-21-99
Condition:	Cool and Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	0.054	0.020	5.0
Hexachloroethane	0.353	0.020	3.0
Nitrobenzene	0.202	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

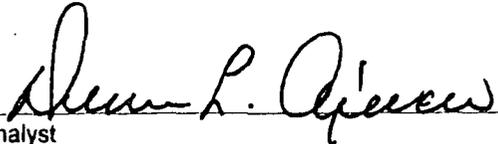
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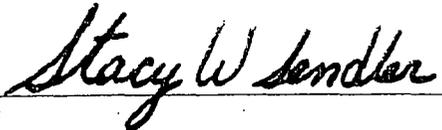
QA/QC Acceptance Criteria	Parameter	Percent Recovery
	2-fluorobiphenyl	98%

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.  
Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note: Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments: East Main, Farmington.

  
Analyst

  
Review

EPA METHOD 1311  
TOXICITY CHARACTERISTIC  
LEACHING PROCEDURE  
TRACE METAL ANALYSIS

Client:	Halliburton	Project #:	92132
Sample ID:	Wash Bay Solids	Date Reported:	01-23-99
Laboratory Number:	E499	Date Sampled:	01-13-99
Chain of Custody:	6498	Date Received:	01-13-99
Sample Matrix:	Soil	Date Analyzed:	01-23-99
Preservative:	Cool	Date Extracted:	01-18-99
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
Arsenic	ND	0.0001	5.0
Barium	1.53	0.001	21
Cadmium	0.0329	0.0001	0.11
Chromium	0.0301	0.0001	0.60
Lead	0.0309	0.0001	0.75
Mercury	ND	0.0001	0.025
Selenium	ND	0.0001	5.7
Silver	ND	0.0001	0.14

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, December 1996.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, December 1996.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA. December 1996.

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

Comments: East Main, Farmington.

  
Analyst

  
Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

**QUALITY ASSURANCE / QUALITY CONTROL**

**DOCUMENTATION**

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	01-19-99
Laboratory Number:	01-19-TCV-Blank	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	01-19-99
Condition:	N/A	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	ND	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	ND	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

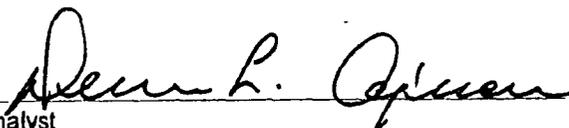
ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery
	Trifluorotoluene	100%
	Bromofluorobenzene	100%

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
 Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.  
 Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994.  
 Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Note: Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments: QA/QC for samples E499 and E503.

  
 Analyst

  
 Review

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	01-19-99
Laboratory Number:	01-18-TV-MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	01-19-99
Condition:	N/A	Date Extracted:	01-18-99
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	ND	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	ND	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

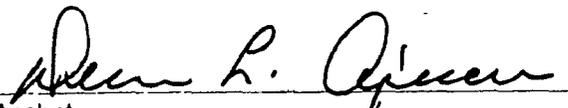
ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery
	Trifluorotoluene	99%
	Bromofluorobenzene	98%

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
 Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.  
 Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994.  
 Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Note: Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments: QA/QC for samples E499 and E503.

  
 Analyst

  
 Review

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	01-19-99
Laboratory Number:	E499	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	01-19-99
Condition:	N/A	Date Extracted:	N/A

Parameter	Sample Result (mg/L)	Duplicate Sample Result (mg/L)	Detection Limits (mg/L)	Percent Difference
Vinyl Chloride	ND	ND	0.0001	0.0%
1,1-Dichloroethene	ND	ND	0.0001	0.0%
2-Butanone (MEK)	ND	ND	0.0001	0.0%
Chloroform	ND	ND	0.0001	0.0%
Carbon Tetrachloride	ND	ND	0.0001	0.0%
Benzene	ND	ND	0.0001	0.0%
1,2-Dichloroethane	ND	ND	0.0001	0.0%
Trichloroethene	ND	ND	0.0003	0.0%
Tetrachloroethene	ND	ND	0.0005	0.0%
Chlorobenzene	ND	ND	0.0003	0.0%
1,4-Dichlorobenzene	ND	ND	0.0002	0.0%

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
 Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.  
 Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994.  
 Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Comments: QA/QC for samples E499 and E503.

  
 Analyst

  
 Review

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Spike	Date Reported:	01-19-99
Laboratory Number:	E499	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	01-19-99
Condition:	N/A	Date Extracted:	N/A

Parameter	Sample Result (mg/L)	Spike Added (mg/L)	Spiked Sample Result (mg/L)	Det. Limit (mg/L)	Percent Recovery	SW-846 % Rec. Accept. Range
Vinyl Chloride	ND	0.050	0.0495	0.0001	99%	28-163
1,1-Dichloroethene	ND	0.050	0.0494	0.0001	99%	43-143
2-Butanone (MEK)	ND	0.050	0.0495	0.0001	99%	47-132
Chloroform	ND	0.050	0.0498	0.0001	100%	49-133
Carbon Tetrachloride	ND	0.050	0.0491	0.0001	98%	43-143
Benzene	ND	0.050	0.0498	0.0001	100%	39-150
1,2-Dichloroethane	ND	0.050	0.0494	0.0001	99%	51-147
Trichloroethene	ND	0.050	0.0494	0.0003	99%	35-146
Tetrachloroethene	ND	0.050	0.0494	0.0005	99%	26-162
Chlorobenzene	ND	0.050	0.0494	0.0003	99%	38-150
1,4-Dichlorobenzene	ND	0.050	0.0494	0.0002	99%	42-143

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
 Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.  
 Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994.  
 Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Comments: QA/QC for samples E499 and E503.

  
 Analyst

  
 Review

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	01-21-99
Laboratory Number:	01-21-TCA-Blank	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	01-21-99
Condition:	N/A	Analysis Requested:	TCLP

Analytical Results	Concentration	Detection	Regulatory
Parameter	(mg/L)	Limit	Limit
		(mg/L)	(mg/L)
o-Cresol	ND	0.020	200
p,m-Cresol	ND	0.040	200
2,4,6-Trichlorophenol	ND	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400
Pentachlorophenol	ND	0.020	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	2-fluorophenol	98 %
	2,4,6-tribromophenol	99 %

References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

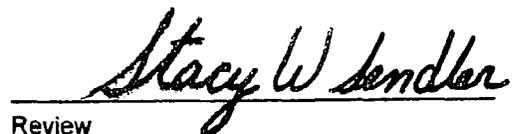
Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

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

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments: QA/QC for samples E499 and E503.

  
 Analyst

  
 Review

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	01-21-99
Laboratory Number:	01-18-TCA-MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extraction	Date Received:	N/A
Preservative:	Cool	Date Extracted:	01-18-99
Condition:	Cool & Intact	Date Analyzed:	01-21-99
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	ND	0.020	200
p,m-Cresol	ND	0.040	200
2,4,6-Trichlorophenol	ND	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400
Pentachlorophenol	ND	0.020	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	2-Fluorophenol	98%
	2,4,6-Tribromophenol	99%

References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

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

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments: QA/QC for samples E499 and E503.

  
Analyst

  
Review

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	01-21-99
Laboratory Number:	E499	Date Sampled:	N/A
Sample Matrix:	Water	Date Received:	N/A
Preservative:	Cool	Date Extracted:	N/A
Condition:	Cool & Intact	Date Analyzed:	01-21-99
		Analysis Requested:	TCLP

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Detection Limit (mg/L)	Percent Difference
<i>o</i> -Cresol	0.123	0.122	0.020	1.0%
<i>p,m</i> -Cresol	0.054	0.053	0.040	2.0%
2,4,6-Trichlorophenol	0.060	0.059	0.020	1.0%
2,4,5-Trichlorophenol	ND	ND	0.020	0.0%
Pentachlorophenol	0.556	0.551	0.020	0.8%

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Maximum Difference
	8040 Compounds	30.0%

References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

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

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments: QA/QC for samples E499 and E503.

  
Analyst

  
Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA Method 8090 Nitroaromatics and Cyclic Ketones TCLP Base/Neutral Organics Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	01-22-99
Laboratory Number:	01-21-TBN - Blank	Date Sampled:	N/A
Sample Matrix:	Hexane	Date Received:	N/A
Preservative:	N/A	Date Extracted:	N/A
Condition:	N/A	Date Analyzed:	01-21-99
		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	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

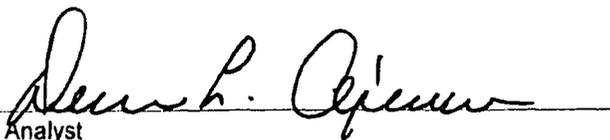
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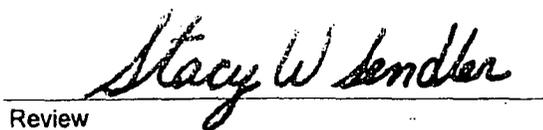
QA/QC Acceptance Criteria	Parameter	Percent Recovery
	2-fluorobiphenyl	96%

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.  
Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note: Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments: QA/QC for samples E499 and E503.

  
Analyst

  
Review

EPA Method 8090  
Nitroaromatics and Cyclic Ketones  
TCLP Base/Neutral Organics  
QUALITY ASSURANCE REPORT

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	01-22-99
Laboratory Number:	01-18-TBN-MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	01-18-99
Condition:	Cool and Intact	Date Analyzed:	01-21-99
		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	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery
	2-fluorobiphenyl	95%

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.  
Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note: Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments: QA/QC for samples E499 and E503.

  
Analyst

  
Review

# ENVIROTECH LABS

**PRACTICAL SOLUTIONS FOR A BETTER TOMORROW**

**EPA Method 8090  
Nitroaromatics and Cyclic Ketones  
TCLP Base/Neutral Organics  
QA/QC Matrix Duplicate Report**

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	01-22-99
Laboratory Number:	E499	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Extracted:	01-18-99
Condition:	N/A	Date Analyzed:	01-21-99
		Analysis Requested:	TCLP

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Percent Difference	Det. Limit (mg/L)
Pyridine	0.054	0.053	1.0%	0.020
Hexachloroethane	0.353	0.349	1.0%	0.020
Nitrobenzene	0.202	0.200	0.9%	0.020
Hexachlorobutadiene	ND	ND	0.0%	0.020
2,4-Dinitrotoluene	ND	ND	0.0%	0.020
HexachloroBenzene	ND	ND	0.0%	0.020

ND - Parameter not detected at the stated detection limit.

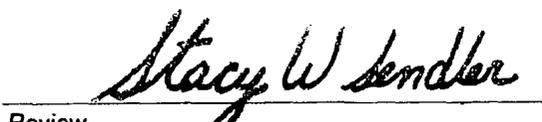
QA/QC Acceptance Criteria	Parameter	Maximum Difference
	8090 Compounds	30%

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.  
Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note: Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments: QA/QC for samples E499 and E503.

  
Analyst

  
Review

EPA METHOD 1311  
TOXICITY CHARACTERISTIC  
LEACHING PROCEDURE  
TRACE METAL ANALYSIS  
Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	01-23-TCM QA/QC	Date Reported:	01-23-99
Laboratory Number:	E449	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP Metals	Date Analyzed:	01-23-99
Condition:	N/A	Date Extracted:	N/A

Blank & Duplicate Conc. (ppb)	Instrument Blank	Method Blank	Detection Limit	Sample	Duplicate	% DV	Acceptance Range
Arsenic	ND	ND	0.0001	ND	ND	0.0%	0% - 30%
Barium	ND	ND	0.001	1.53	1.53	0.0%	0% - 30%
Cadmium	ND	ND	0.0001	0.0329	0.0324	1.5%	0% - 30%
Chromium	ND	ND	0.0001	0.0301	0.0300	0.3%	0% - 30%
Lead	ND	ND	0.0001	0.0309	0.0307	0.6%	0% - 30%
Mercury	ND	ND	0.0001	ND	ND	0.0%	0% - 30%
Selenium	ND	ND	0.0001	ND	ND	0.0%	0% - 30%
Silver	ND	ND	0.0001	ND	ND	0.0%	0% - 30%

Arsenic	0.1000	ND	0.0997	99.7%	80% - 120%
Barium	1.000	1.53	2.53	100.0%	80% - 120%
Cadmium	0.0500	0.0329	0.0826	99.6%	80% - 120%
Chromium	0.0500	0.0301	0.0802	100.1%	80% - 120%
Lead	0.1000	0.0309	0.131	99.8%	80% - 120%
Mercury	0.0250	ND	0.0248	99.2%	80% - 120%
Selenium	0.1000	ND	0.0998	99.8%	80% - 120%
Silver	0.0500	ND	0.0499	99.8%	80% - 120%

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, Dec. 1996

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, December 1996.

Methods 7060B, 7081, 7131A, 7191, 7470A, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA, December 1996.

Comments: QA/QC for samples E499 and E503.

  
Analyst

  
Review

# CHAIN OF CUSTODY RECORD

6498

Client / Project Name <b>HALBURTON</b>			Project Location <b>EAST MAIN FARMINGTON</b>		ANALYSIS / PARAMETERS								
Sampler: <b>Mari D. Young</b>			Client No. <b>92132</b>		No. of Containers <b>1</b>	<b>TCLP w/o H&amp;P</b>							Remarks
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix									
<b>WHSE Box Solids</b>	<b>1/13/99</b>	<b>12:10</b>	<b>E499</b>	<b>Soil</b>		<input checked="" type="checkbox"/>							
Relinquished by: (Signature) <b>Mari D. Young</b>				Date <b>1/13/99</b>	Time <b>12:30</b>	Received by: (Signature) <b>Christa Warden</b>				Date <b>1-13-99</b>	Time <b>12:30</b>		
Relinquished by: (Signature)						Received by: (Signature)							
Relinquished by: (Signature)						Received by: (Signature)							

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

Sample Receipt		
	Y	N
Received Intact	<input checked="" type="checkbox"/>	<input type="checkbox"/>

District I - (505) 393-6161  
 P.O. Box 1980  
 Hobbs, NM 88241-1980  
 District II - (505) 748-1283  
 811 S. First  
 Artesia, NM 88210  
 District III - (505) 334-6178  
 Rio Brazos Road  
 NM 87410  
 District IV - (505) 827-7131

New Mexico  
 Energy Minerals and Natural Resources Department  
 Oil Conservation Division  
 2040 South Pacheco Street  
 Santa Fe, New Mexico 87505  
 (505) 827-7131

Form C-138  
 Originated 8/8/95

Submit Original  
 Plus 1 Copy  
 to appropriate  
 District Office

Env. JN: \_\_\_\_\_

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input checked="" type="checkbox"/> Non-Exempt: <input type="checkbox"/> Verbal Approval Received: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Donny Faust 01.17.00	4. Generator <u>EPFS</u>
2. Management Facility Destination	Envirotech Soil Remediation Facility Landfarm #2	5. Originating Site <u>Track B-3 Y.L.D.</u>
3. Address of Facility Operator	5796 US Highway 64 Farmington, NM 87401	6. Transporter <u>Envirotech</u>
7. Location of Material (Street Address or ULSTR)		8. State <u>New Mexico</u>
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.		9. "A", S29, T31N, R2W SJC.044

BRIEF DESCRIPTION OF MATERIAL:

*condensate*  
 Cleanup of PHC & produced water contaminated soil @ valve break on Drip Tank

Estimated Volume 500 cy Known Volume (to be entered by the operator at the end of the haul) 432 cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 01.18.00  
 Waste Management Facility Authorized Agent  
 TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Donny Faust TITLE: Geologist DATE: 2/1/2000  
 APPROVED BY: Charles Thurman TITLE: \_\_\_\_\_ DATE: \_\_\_\_\_

## CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:  El Paso Field Services Co. 614 Reilly Avenue Farmington, NM 87401	2. Destination Name:  Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico
3. Originating Site (name):  Trunk B-3 Y-1 Drip Tank  <small>Attach list of originating sites as appropriate</small>	Location of Waste(Street address &/or ULSTR):  Unit A, Section 29, T31N, R9W, San Juan Co., NM
4. Source and Description of Waste  Soil contaminated with produced water and hydrocarbons	

I, David Bays representative for:  
(Print Name)

El Paso Field Services Co. do hereby certify that,  
according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July,  
1988 regulatory determination, the above described waste is: (Check appropriate classification)

**EXEMPT** Oilfield waste       **NON-EXEMPT** oilfield waste which is non-hazardous by  
characteristic analysis or by product identification

and that nothing has been added to the exempt or non-hazardous waste defined above.

---

For **NON-EXEMPT** waste only, the following documentation is attached (check appropriate items):

MSDS Information       Other (description)  
 RCRA Hazardous Waste Analysis  
 Chain of Custody

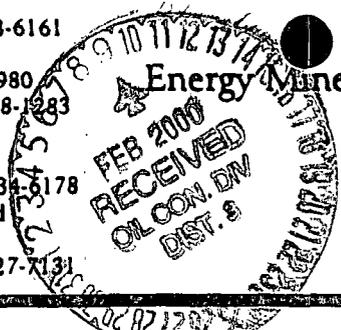
---

Name (Original Signature): David Bays

Title: Principal Environmental Scientist

Date: January 18, 2000

District I - (505) 393-6161  
 P.O. Box 1980  
 Hobbs, NM 88241-1980  
 District II - (505) 748-1283  
 811 S. First  
 Artesia, NM 88210  
 District III - (505) 334-6178  
 1 Rio Brazos Road  
 Socorro, NM 87410  
 District IV - (505) 827-7131



New Mexico  
 Energy Minerals and Natural Resources Department  
 Oil Conservation Division  
 2040 South Pacheco Street  
 Santa Fe, New Mexico 87505  
 (505) 827-7131

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 Plus 1 Copy  
 to appropriate  
 District Office

Env. JN: 97057

**REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE**

1. RCRA Exempt: <input checked="" type="checkbox"/> Non-Exempt: <input type="checkbox"/>	4. Generator <u>EDFS</u>
Verbal Approval Received: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	5. Originating Site <u>Rio Arriba to Chaco Pig Receiver</u>
2. Management Facility Destination <u>Envirotech Soil Remediation Facility Landfarm #2</u>	6. Transporter <u>Philips E.S.</u>
3. Address of Facility Operator <u>5796 US Highway 64 Farmington, NM 87401</u>	8. State <u>New Mexico</u>
7. Location of Material (Street Address or ULSTR)	<u>Sac 21, T26A, R12W San Juan County, NM</u>
9. <u>Circle One:</u>	
A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.	
All transporters must certify the wastes delivered are only those consigned for transport.	

**BRIEF DESCRIPTION OF MATERIAL:**

Soil generated during cleanup of lined pig Receiver pit.  
(Received AWEPA letter 02 08 00).

Estimated Volume 20 cy Known Volume (to be entered by the operator at the end of the haul) 32066/5

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 02-09-00  
Waste Management Facility Authorized Agent  
 TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

*(This space for State Use)*

APPROVED BY: Denny G. Fout TITLE: Geologist DATE: 02/09/00  
 APPROVED BY: Chale T. P. TITLE: Deputy O&E Inspector DATE: 02/08/2000

01.10.00  
10:25  
Dannr Faust  
provided we have  
certified letter  
from Tribe.

## CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:  El Paso Field Services Co. 614 Reilly Avenue Farmington, NM 87401	2. Destination Name:  Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico
3. Originating Site (name): Lindrith to Chaco Pig Receiver Sec. 21, T26N, R12W San Juan County, NM <small>Attach list of originating sites as appropriate</small>	Location of Waste(Street address &/or ULSTR):
4. Source and Description of Waste  Soil with hydrocarbons and water from pigging operations	

I, Scott Pope representative for:  
(Print Name)

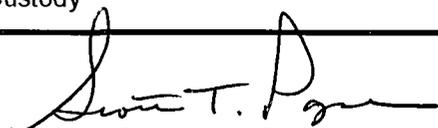
El Paso Field Services Co. do hereby certify that,  
according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July,  
1988 regulatory determination, the above described waste is: (Check appropriate classification)

**EXEMPT** Oilfield waste       **NON-EXEMPT** oilfield waste which is non-hazardous by  
characteristic analysis or by product identification

and that nothing has been added to the exempt or non-hazardous waste defined above.

For **NON-EXEMPT** waste only, the following documentation is attached (check appropriate items):

MSDS Information       Other (description)  
 RCRA Hazardous Waste Analysis  
 Chain of Custody

Name (Original Signature): 

Title: Senior Environmental Scientist

Date: 1/6/2000



**THE  
NAVAJO  
NATION**

**NAVAJO NATION ENVIRONMENTAL PROTECTION AGENCY  
GROUNDWATER POLLUTION CONTROL PROGRAM  
P.O. BOX 1979 SHIPROCK, NM 87420-1979  
PH(505)368-1040,1041 FAX(505)368-1042**

P. O. BOX 9000 • WINDOW ROCK, ARIZONA 86515 • (602) 871-6000

**ALBERT A. HALE  
PRESIDENT**

**THOMAS E. ATCITTY  
VICE PRESIDENT**

April 25, 1995

Ms. Sandra Miller  
El Paso Natural Gas Company  
P.O. Box 4990  
Farmington, New Mexico 87499

**Re: Unlined Pit Closure Plan for pits on Navajo Lands**

Dear Ms. Miller:

The Navajo Environmental Protection Agency has completed a review of the unlined pit closure plan submitted by El Paso Natural Gas Company dated January 19, 1994. We have a list of unlined pit locations dated March 29, 1993 that EPNG submitted to US EPA as an "Inventory of Unlined Pits Located on Navajo Lands".

It is my understanding from conversations with EPNG staff that the inventory is inaccurate. In addition, we are unable to confirm many of the pit locations to be on Navajo lands. Please review the inventory and submit within 30 days a corrected list of pit locations and a topographic map showing all pit locations on Navajo lands.

Discharge must cease to those pits located within the original vulnerable area within one year of the effective date of the BLM closure guidelines, which occurred on January 15, 1995. The Navajo Nation EPA required that those pits be closed by that date as well. All unlined pits located on Navajo lands within the expanded vulnerable area are to closed by January 15, 1997. Please submit within 45 days a schedule for closure of all unlined pits by that date.

Since the pits are located on pipe line right-of-way leases, the Bureau of Indian Affairs shares the responsibility for approval of pit closure plans and activities. Navajo EPA will coordinate with BIA on monitoring and review of pit closure operations, however, relevant correspondence to BIA or other agencies should be copied to this office for expeditious review and response.

The closure plans have been accepted and approved by Navajo EPA with the conditions specified below and the stipulations listed in the enclosure:

1. Submit to Navajo EPA all closure plans, notices, and reports for remedial and closure actions required under the BLM/Navajo EPA Unlined Surface Impoundments Closure Guidelines. Related correspondence submitted to BIA, BLM, NMOCD, or other agencies shall be provided concurrently to Navajo EPA, Shiprock office (Attn. Jim Walker).

2. Navajo EPA must be notified by the operator of any site assessment, remediation, and closure activity on Navajo lands scheduled by the operator. Notification shall be at least 72 hours in advance of any planned operation so that a Navajo EPA inspector can arrange to witness and monitor these activities. Navajo EPA must be notified immediately if ground water is encountered or there is a reasonable probability of ground water contamination at a specific site.

3. Navajo EPA reserves the right to determine the location of any unlined pit on Navajo lands, relative to its position in or out of the vulnerable area and expanded vulnerable area as defined in NMOCC order No. R-7940-C.

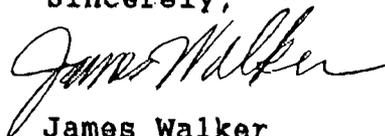
4. Reference to NMOCD in the Pit Closure Plan should be replaced by "Navajo EPA and US EPA" for closure of unlined pits on Navajo lands, except in reference to NMOCD permitted landfarms. Navajo EPA and US EPA guidelines and standards for pit closure are described in the BLM/Navajo EPA "Unlined Surface Impoundment Closure Guidelines".

5. If soil contamination still exceeds the standard for BTEX, Benzene, and TPH after excavation to the maximum extent practicable, in-situ measures may be required to remediate contaminated soil. This will be especially important where depth to groundwater is less than 50 feet or where lateral migration of contaminants has occurred in close proximity to a surface drainage or dry wash. Such a site will require special consideration and evaluation by Navajo EPA to determine the best course of action. In any event, the depth and lateral extent of contamination (above standards) must be determined, and the soil must be remediated unless a site specific risk assessment (approved by Navajo EPA) indicates minimal risk to surface and ground water resources.

This approval does not relieve the operator of any environmental liability or responsibility for compliance with Federal, Tribal, State, local laws, regulations or conditions of approval. This approval does not constitute approval on any non-Navajo lands.

If you have any questions, please contact me at (505) 368-1040.

Sincerely,



James Walker  
Groundwater Pollution Control  
Program, Navajo Nation EPA

enclosure

cc: Sadie Hoskie, Director, Navajo Nation EPA  
James Miles, Farmington Indian Minerals Office, BIA  
Bill Liese, Farmington District Office, BLM  
Anna Marie Cook, US EPA Region IX, (W-6-3)

- Mary Lou Daywater - Window Rock (600)(520)-871-5938
- JERRY DEGROAT - CROWNPOINT

District I - (505) 393-6161  
 P. O. Box 1980  
 Hobbs, NM 88241-1980  
 District II - (505) 748-1283  
 811 S. First  
 Artesia, NM 88210  
 District III - (505) 334-6178  
 Rio Brazos Road  
 NM 87410  
 District IV - (505) 827-7131

New Mexico  
 Energy Minerals and Natural Resources Department  
 Oil Conservation Division  
 2040 South Pacheco Street  
 Santa Fe, New Mexico 87505  
 (505) 827-7131

Form C-138  
 Originated 8/8/95  
 Submit Original  
 Plus 1 Copy  
 to appropriate  
 District Office

Env. JN: \_\_\_\_\_

**REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE**

1. RCRA Exempt: <input checked="" type="checkbox"/> Non-Exempt: <input type="checkbox"/> Verbal Approval Received: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	4. Generator <u>EDFS</u> 5. Originating Site <u>Largo/Mutoz Canyon</u>
2. Management Facility Destination <u>Envirotech Soil Remediation Facility Landfarm #2</u>	6. Transporter <u>Envirotech</u>
3. Address of Facility Operator <u>5796 US Highway 64 Farmington, NM 87401</u>	8. State <u>New Mexico</u>
7. Location of Material (Street Address or ULSTR)	<u>"O" S&amp;P T28W R9W.</u>
9. <u>Circle One:</u> A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.  All transporters must certify the wastes delivered are only those consigned for transport.	

**BRIEF DESCRIPTION OF MATERIAL:**  
Petroleum Hydrocarbon Contamination  
P&C contaminated soil collected in drums @ Corrosion  
Leak down a canyon.  
Spill clean-up from corrosion  
leak, handfill drums, lift out  
with helicopter

Estimated Volume 40 drums cy Known Volume (to be entered by the operator at the end of the haul) 29 drums + 10 cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 12.14.99  
 Waste Management Facility Authorized Agent  
 TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

*(This space for State Use)*

APPROVED BY: Denny G. Fout TITLE: Geologist DATE: 2/1/2000  
 APPROVED BY: Chad Thern TITLE: \_\_\_\_\_ DATE: \_\_\_\_\_

# CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:  El Paso Field Services Co. 614 Reilly Avenue Farmington, NM 87401	2. Destination Name:  Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico
3. Originating Site (name):      Location of Waste(Street address &/or ULSTR):  Largo Canyon Gathering System      San Juan County, New Mexico, Unit O, Section 9, T28N, R9W  <small>Attach list of originating sites as appropriate</small>	
4. Source and Description of Waste  Soil contaminated with produced liquids from gathering line corrosion leak.	

I, David Bays representative for:  
(Print Name)

El Paso Field Services Co. do hereby certify that,  
according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July,  
1988 regulatory determination, the above described waste is: (Check appropriate classification)

**EXEMPT** Oilfield waste       **NON-EXEMPT** oilfield waste which is non-hazardous by  
characteristic analysis or by product identification

and that nothing has been added to the exempt or non-hazardous waste defined above.

---

For **NON-EXEMPT** waste only, the following documentation is attached (check appropriate items):

MSDS Information       Other (description)  
 RCRA Hazardous Waste Analysis  
 Chain of Custody

---

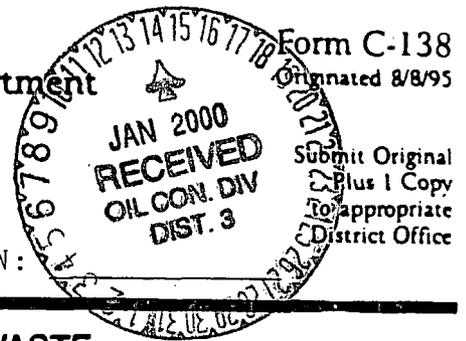
Name (Original Signature): David Bays

Title: Principal Environmental Scientist

Date: January 18, 2000

District I - (505) 393-6161  
 P. O. Box 1980  
 Hobbs, NM 88241-1980  
 District II - (505) 748-1283  
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 Farmington, NM 87410  
 District IV - (505) 827-7131

New Mexico  
 Energy Minerals and Natural Resources Department  
 Oil Conservation Division  
 2040 South Pacheco Street  
 Santa Fe, New Mexico 87505  
 (505) 827-7131



REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/>	4. Generator <u>Conoco</u>
Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	5. Originating Site <u>Wingate Plant</u>
2. Management Facility Destination <u>Envirotech Soil Remediation Facility Landfarm #2</u>	6. Transporter <u>TBA</u>
3. Address of Facility Operator <u>5796 US Highway 64 Farmington, NM 87401</u>	8. State <u>New Mexico</u>
7. Location of Material (Street Address or ULSTR)	<u># 68 El Paso Circle Gallup, NM 87301</u>
9. <u>Circle One:</u> A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.  All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

petroleum hydrocarbon contaminated soil generated during clean up around vapor recovery unit.

Never Hauled 4/12/01 DJS

Estimated Volume 30 cy Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_ cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 01.10.00  
 Waste Management Facility Authorized Agent  
 TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Denny G. Feunt TITLE: Geologist DATE: 1/18/00  
 APPROVED BY: Markym G. Pulp TITLE: Environmental Geologist DATE: 1/19/00



NEW MEXICO ENERGY, MINERALS  
& NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION  
AZTEC DISTRICT OFFICE  
1000 RIO BRAZOS ROAD  
AZTEC, NEW MEXICO 87410  
(800) 334-6170 Fax (505) 334-6170

GARY E. JOHNSON  
GOVERNOR

JENNIFER A. SALISBURY  
CABINET SECRETARY

## CERTIFICATE OF WASTE STATUS

<p>1. Generator Name and Address: Conoco Inc. Wingate Plant P.O. Box 119 Rehoboth, NM 87322-0119</p>	<p>2. Destination Name: Envirotech Inc. Soil Remediation Remediation Facility Landfarm #2, Hilltop, New Mexico 5796 US Hwy 64, Farmington, NM 87401</p>
<p>3. Originating Site (name): Wingate Plant #68 E I Paso Circle Gallup, NM 87301</p> <p>Attach list of originating sites as appropriate</p>	<p>Location of the Waste (Street address &amp;/or ULSTRI): (Soils surrounding the Vapor Recovery Unit)</p>
<p>4. Source and Description of Waste Contaminated Soils from around the Vapor Recovery Unit.</p>	

I, Joyce Woodfin representative for:  
(Print Name)

Conoco Inc. do hereby certify that,  
according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July,  
1988, regulatory determination, the above described waste is: (Check appropriate classification)

EXEMPT oilfield waste  NON-EXEMPT oilfield waste which is non-hazardous by characteristic  
analysis or by product identification

and that nothing has been added to the exempt or non-exempt non-hazardous waste defined above.

For NON-EXEMPT waste the following documentation is attached (check appropriate items):

MSDS Information  Other (description):  
 RCRA Hazardous Waste Analysis  
 Chain of Custody

This waste is in compliance with Regulated Levels of Naturally Occurring Radioactive Material (NORM) pursuant  
to 20 NMAC 3.1 subpart 1403.C and D.

Name (Original Signature): Joyce Woodfin

Title: Environmental Consultant

Date: 12-21-99


**Inter-Mountain Laboratories, Inc.**

Phone (505) 326-4737 Fax (505) 325-4182

2506 West Main Street, Farmington, NM 87401

**Client:** Conoco, Inc. Gallup  
**Project:** Gallup, NM  
**Sample ID:** VRU SOIL  
**Lab ID:** 0399W05512  
**Matrix:** Soil  
**Condition:** Intact

**Date Reported:** 11/11/99

**Date Sampled:** 10/30/99

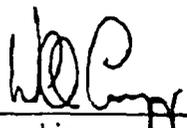
**Date Received:** 11/03/99

**Date Analyzed:** 11/10/99

Parameter	Analytical Result	PQL	MCL	Units
<b>TCLP METALS - EPA METHOD 1311</b>				
Arsenic	<0.005	0.005	5.0	mg/L
Barium	1.52	0.01	100.0	mg/L
Cadmium	<0.004	0.004	1.0	mg/L
Chromium	<0.01	0.01	5.0	mg/L
Lead	<0.01	0.01	5.0	mg/L
Mercury	<0.001	0.001	0.2	mg/L
Selenium	0.06	0.005	1.0	mg/L
Silver	<0.01	0.01	5.0	mg/L

Reference: SW-846 - "Test Methods for Evaluating Solid Waste: Physical/Chemical Methods", United States Environmental Protection Agency, November, 1986.

Reviewed By:

  
 William Lipps



## Inter-Mountain Laboratories, Inc.

Phone (505) 326-4737 Fax (505) 325-4182

2506 West Main Street, Farmington, NM 87401

Client: Conoco, Inc. Gallup  
 Project: Gallup, NM  
 Sample ID: VRU  
 Lab ID: 0399W05620  
 Matrix: Soil  
 Condition: Intact

Date Reported: 11/17/99  
 Date Sampled: 11/11/99  
 Date Received: 11/12/99  
 Date Analyzed: 11/16/99

Parameter	Analytical Result	PQL	Units
-----------	-------------------	-----	-------

**BTEX - Method 8021B**

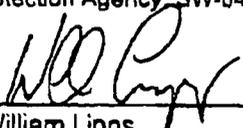
Benzene	13	1	µg/L
Toluene	49	1	µg/L
Ethylbenzene	20	1	µg/L
Xylenes (total)	88	3	µg/L

Quality Control - Surrogate Recovery	%	QC Limits
--------------------------------------	---	-----------

4-Bromofluorobenzene(SUR-8020)	102	70 - 130
a,a,a-Trifluorotoluene(SUR-602)	127	70 - 130

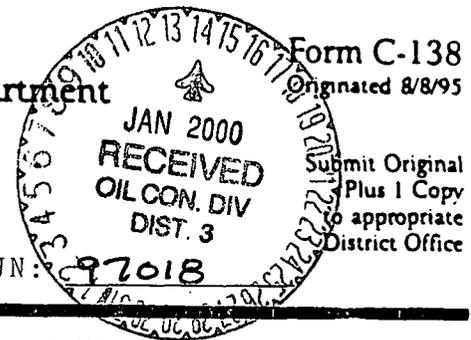
Reference: Method 8021, Volatile Organic Compounds, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, United States Environmental Protection Agency, SW-846, Volume 1B, December 1987.

Reviewed By:

  
 William Lipps

District I - (505) 393-6161  
 P.O. Box 1980  
 Hobbs, NM 88241-1980  
 District II - (505) 748-1283  
 811 S. First  
 Artesia, NM 88210  
 District III - (505) 334-6178  
 Rio Brazos Road  
 Lordsburg, NM 87410  
 District IV - (505) 827-7131

New Mexico  
 Energy Minerals and Natural Resources Department  
 Oil Conservation Division  
 2040 South Pacheco Street  
 Santa Fe, New Mexico 87505  
 (505) 827-7131



REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input checked="" type="checkbox"/> Non-Exempt: <input type="checkbox"/>	Danny Faust Verbal 1-11-00 2:00 PM.	4. Generator NATCO
Verbal Approval Received: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		5. Originating Site Various Locations See Attached
2. Management Facility Destination Envirotech Soil Remediation Facility Landfarm #2		6. Transporter Envirotech
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401		8. State New Mexico
7. Location of Material (Street Address or ULSTR)		2855 Southside River Rd. Farmington, NM, 87401
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.  All transporters must certify the wastes delivered are only those consigned for transport.		

BRIEF DESCRIPTION OF MATERIAL:

Sludge generated during cleaning and refurbishing of production equipment. (Tanks, skids, separators).  
 location and producer info attached  
 Norms screen attached

Estimated Volume 5 bbl. cy Known Volume (to be entered by the operator at the end of the haul) 9 cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 01-13-00  
 Waste Management Facility Authorized Agent  
 TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Danny De Faust TITLE: Geologist DATE: 1/18/00  
 APPROVED BY: Charlie Herr TITLE: Deputy Oil & Gas Inspector DATE: 1/18/2000

Land Farm 2 Unit 5

## CERTIFICATE OF WASTE STATUS

<b>1. Generator Name and Address:</b> Natco, 2855 Southside River RD	<b>2. Destination Name:</b>
<b>3. Originating Site (name):</b> Solid generated during the cleaning of oil and gas production equipment, at Natco, s yard.	<b>Location of the Waste (Street address &amp;/or ULSTR):</b>
Attach list of originating sites as appropriate	
<b>4. Source and Description of Waste</b> Contaminated dirt and sluge, from various locations see attached list.	

I, \_\_\_\_\_ representative for:  
National Tank Co. Farmington <sup>(Print Name)</sup> do hereby certify that,  
according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July, 1988, regulatory determination, the above described waste is: (Check appropriate classification)

EXEMPT oilfield waste       NON-EXEMPT oilfield waste which is non-hazardous by characteristic analysis or by product identification

and that nothing has been added to the exempt or non-exempt non-hazardous waste defined above.

For **NON-EXEMPT** waste only the following documentation is attached (check appropriate items):

- MSDS Information       Other (description):  
 RCRA Hazardous Waste Analysis  
 Chain of Custody

Name (Original Signature): Beth Gillitzer  
Title: Administrative / Safety Coordinator  
Date: 1/14/90

ORIGINAL



# NATCO

## INSPECTION FOR N.O.R.M. CONTAMINATION

Location: Natco's Yard (wash rack) Date: 1-7-2000

Survey instrument model: Mid-Ludlum 3-98 Last calibrated: 8-12-99

Item description: Waste barrels for disposal.

Number of pieces: 5 barrels

Location where items originated: Various Production Equip.

Background reading: 13.5 uR/hr

Highest NORM reading: 25.5 uR/hr (corrected for background)

Lowest NORM reading: 13.0 uR/hr (corrected for background)

Any samples taken? If so, how many? None

5 - barrels Pieces inspected.

All - 5 - barrels Pieces found to be free of NORM contamination.

None Pieces found to have NORM contamination.

Remarks: Tested all barrels from top, & from the North, South, East, & West sides of barrels.

Inspector: Jim B. Mann

What is final disposition? OK for waste to be disposed of

Released to: Whom ever Disposed of Waste Date: 1-7-2000

ORIGINAL

13  
13  
25  
14  
15

District I - (505) 393-6161  
 P. O. Box 1980  
 Hobbs, NM 88241-1980  
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 811 S. First  
 Artesia, NM 88210  
 District III - (505) 334-6178  
 Rio Brazos Road  
 Roswell, NM 87410  
 District IV - (505) 827-7131

New Mexico  
 Energy Minerals and Natural Resources Department  
 Oil Conservation Division  
 2040 South Pacheco Street  
 Santa Fe, New Mexico 87505  
 (505) 827-7131



Form C-138  
 Originated 8/8/95  
 Submit Original  
 Plus 1 Copy  
 to appropriate  
 District Office

Env. JN: 96552

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input checked="" type="checkbox"/> Non-Exempt: <input type="checkbox"/>	4. Generator Phillips Petroleum
Verbal Approval Received: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	5. Originating Site 29.6 #301 SWD
2. Management Facility Destination Envirotech Soil Remediation Facility Landfarm #2	6. Transporter Sunco
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.  All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

Bottom sediments & water from salt water disposal facility.

Estimated Volume 300 bbl cy Known Volume (to be entered by the operator at the end of the haul) 120 cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 01-12-00  
 Waste Management Facility Authorized Agent  
 TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Denny G. Faust TITLE: Geologist DATE: 1/18/00  
 APPROVED BY: Charlie T. Lerner TITLE: Deputy Oil & Gas Inspector DATE: 1/18/2000



# NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION  
AZTEC DISTRICT OFFICE  
1000 RIO BRAZOS ROAD  
AZTEC, NEW MEXICO 87410  
(505) 834-6170 Fax (505) 334-6170

GARY E. JOHNSON  
GOVERNOR

JENNIFER A. SALISBURY  
CABINET SECRETARY

## CERTIFICATE OF WASTE STATUS

<b>1. Generator Name and Address:</b> Phillips Petroleum Co. 5525 Hwy 64 Box 7004 Farmington, NM 87401	<b>2. Destination Name:</b> Envirotech Inc. Soil Remediation Remediation Facility Landfarm #2, Hilltop, New Mexico 5796 US Hwy 66, Farmington, NM 87401
<b>3. Originating Site (name):</b> 29-6 SWD <b>Location of the Waste (Street address &amp;/or ULST#):</b> Attach list of originating sites as appropriate	
<b>4. Source and Description of Waste</b> • Tank bottoms from produced water storage tanks • 300 Bbls of semi-solids in one FRAC-tank • composition checked for NORM w/ zero found	

R.A. Wisland representative for:  
 (Print Name)  
Phillips Petroleum Company do hereby certify that, according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July, 1988, regulatory determination, the above described waste is: (Check appropriate classification)

EXEMPT oilfield waste       NON-EXEMPT oilfield waste which is non-hazardous by characteristic analysis or by product identification

and that nothing has been added to the exempt or non-exempt non-hazardous waste defined above.

For NON-EXEMPT waste the following documentation is attached (check appropriate items):  
 MSDS information       Other (description):  
 RCRA Hazardous Waste Analysis  
 Chain of Custody

This waste is in compliance with Regulated Levels of Naturally Occurring Radioactive Material (NORM) pursuant to 20 NMAC 3.1 subpart 1403.C and D.

Name (Original Signature): RA Wisland  
 Title: Sp. S & E Spclst  
 Date: 1-12-00

TIGER #3  
OCD APPROVAL  
10-23.00

Robert L. Bayless, Producer LLC  
Oil & Gas Producer

Envirotech

P. O. Box 168  
Farmington, New Mexico 87499

FAX NO.  
(505) 326-6911

OFFICE NO.  
(505) 326-2659

February 9, 2001

Certified Mail

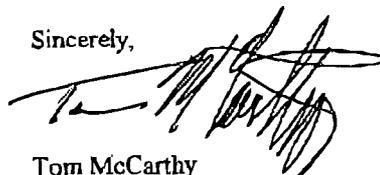
Mr. Fitzgerald Cadman  
Navajo Tribal EPA NPDS Program  
PO Box 339  
Window Rock, AZ 86515

RE: Tocito Dome Oil Spill

Dear Mr. Cadman,

As we have discussed on the telephone, this letter is to inform you that Bayless plans to move approximately 6 cubic yards of oil stained soil from our Tocito Dome oil field to Envirotech's land farm. A third party roustabout company will haul the soil. This work will be scheduled after receipt of necessary regulatory approvals.

Sincerely,



Tom McCarthy  
Petroleum Engineer

**SENDER: COMPLETE THIS SECTION**

- Complete Items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Mr Fitzgerald Cadman  
 Navajo Tribal EPA NPDS Program  
 PO Box 339  
 Window Rock, AZ 86515

**COMPLETE THIS SECTION ON DELIVERY**

A. Received by (Please Print Clearly) **ORLA A BFGAY** B. Date of Delivery **2/12/01**

C. Signature  Agent  
 Addressee

D. Is delivery address different from Item 1?  Yes  
 No  
 If YES, enter delivery address below:

3. Service Type  
 Certified Mail  Express Mail  
 Registered  Return Receipt for Merchandise  
 Insured Mail  C.O.D.

4. Restricted Delivery? (Extra Fee)  Yes

2. Article Number (Copy from service label)  
**7000 0600 0025 2409 1611**

UNITED STATES POSTAL SERVICE



First-Class Mail  
 Postage & Fees Paid  
 USPS  
 Permit No. G-10

• Sender: Please print your name, address, and ZIP+4 in this box •

**ROBERT L. BAYLESS, PRODUCER LLC**  
 P.O. Box 168  
 Farmington, NM 87499

Tacita Dome - Oil Spill

RECEIVED  
 FEB 13 2001

New Mexico  
Energy, Minerals and Natural Resources Department  
Oil Conservation Division  
2040 South Pacheco Street  
Santa Fe, New Mexico 87505  
(505) 827-7131

Submit Original  
Plus 1 Copy  
to appropriate  
District Office

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Hotchkiss, NM 88241-1980  
District II - (505) 748-1283  
811 S. First  
Artesia, NM 88210  
District III - (505) 334-6178  
Rio Brazos Road  
Artesia, NM 87410  
District IV - (505) 827-7131

Env. JN: 96052

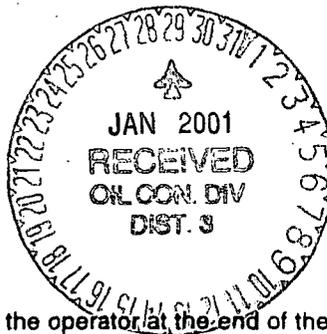
REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input checked="" type="checkbox"/> Non-Exempt: <input type="checkbox"/> Verbal Approval Received: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Denny Forst 8:24.00 10:45	4. Generator Phillips Petroleum
2. Management Facility Destination	Envirotech Soil Remediation Facility Landfarm #2	5. Originating Site 29-5 #107
3. Address of Facility Operator	5796 US Highway 64 Farmington, NM 87401	6. Transporter TBA
7. Location of Material (Street Address or ULSTR)	NW 4, Sec 2, T29 N R5 W. Rio Arriba County, NM.	8. State NEW Mexico
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.  All transporters must certify the wastes delivered are only those consigned for transport.		

BRIEF DESCRIPTION OF MATERIAL:

paraffin & produced water contaminated soil @ an overflow on a pit.

BOL 12165 LF2 Unit 5 Cell X18



Estimated Volume 6 cy Known Volume (to be entered by the operator at the end of the haul) 4 cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 8:24.00  
Waste Management Facility Authorized Agent  
TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Denny Forst TITLE: Geologist DATE: 01/31/01  
APPROVED BY: [Signature] TITLE: geologist DATE: 2-2-01

## CERTIFICATE OF WASTE STATUS

<b>1. Generator Name and Address:</b> Phillips Petroleum Company 5525 Hwy 64, NEBU 3004 Farmington, NM 87401	<b>2. Destination Name:</b> Envirotech Landfarm NM Hwy 44 (US Hwy 550) Hilltop, NM
---	---

<b>3. Originating Site (Name):</b> San Juan 29-5 # 107
---

<b>4. Source and Description of Waste:</b> Approximately 6 cubic yards of hydrocarbon stained soil as a result of an upset (over filled) pit tank.
---

I, R. A. Wirtanen representative for:  
 (Print Name)

Phillips Petroleum do hereby certify

that according to the Resource Conservation Act (RCRA) and Environmental Protection Agency's July, 1988, regulatory determination, the above described waste is:

(Check appropriate classification)

**EXEMPT** oilfield waste

**NON-EXEMPT** oilfield waste  
 which is non-hazardous by characteristic analysis or by product identification and that nothing has been added to the exempt non-hazardous waste defined above.

For <b>EXEMPT</b> waste only, the following documentation is attached (check appropriate items)  <input type="checkbox"/> NORM Survey <input type="checkbox"/> TCLP Analysis	For <b>NON-EXEMPT</b> waste only, the following documentation is attached (check appropriate items)  <input type="checkbox"/> MSDS Information <input type="checkbox"/> TCLP Analysis <input type="checkbox"/> Chain of Custody <input type="checkbox"/> NORM Survey <input type="checkbox"/> Other (description)
---	---

Name (Original Signature): RA. Wirtanen by P. Cleary  
 Title: Sr. Safety and Environmental Specialist  
 Date: August 24, 2000

District I - (505) 393-6161  
 P. O. Box 1980  
 Hobbs, NM 88241-1980  
 District II - (505) 748-1283  
 811 S. First  
 Artesia, NM 88210  
 District III - (505) 334-6178  
 Rio Brazos Road  
 Roswell, NM 87410  
 District IV - (505) 827-7131

New Mexico  
 Energy Minerals and Natural Resources Department  
 Oil Conservation Division  
 2040 South Pacheco Street  
 Santa Fe, New Mexico 87505  
 (505) 827-7131

Form C-138  
 Originated 8/8/95

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 Plus 1 Copy  
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Env. JN: 96052

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input checked="" type="checkbox"/> Non-Exempt: <input type="checkbox"/> Verbal Approval Received: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Denise Faust 8-24-00 10:45	4. Generator Phillips Petroleum
2. Management Facility Destination Envirotech Soil Remediation Facility Landfarm #2	5796 US Highway 64 Farmington, NM 87401	5. Originating Site 31-6 CDP #1
3. Address of Facility Operator	7. Location of Material (Street Address or ULSTR)	6. Transporter TBA
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.		8. State New Mexico

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

Pigging waste from CDP location.

BOX 12165 L52 Unit 5 Cell X18



Estimated Volume 10 cy Known Volume (to be entered by the operator at the end of the haul) 8063/5 cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 8-24-00  
 Waste Management Facility Authorized Agent  
 TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Denise Faust TITLE: Geologist DATE: 01/31/01  
 APPROVED BY: [Signature] TITLE: geologist DATE: 2-2-01

## CERTIFICATE OF WASTE STATUS

<b>1. Generator Name and Address:</b> Phillips Petroleum Company 5525 Hwy 64, NEBU 3004 Farmington, NM 87401	<b>2. Destination Name:</b> Envirotech Landfarm NM Hwy 44 (US Hwy 550) Hilltop, NM
---	---

<b>3. Originating Site (Name):</b> San Juan 31-6 CDP
---

<b>4. Source and Description of Waste:</b> Approximately 10 cubic yards of hydrocarbon stained soil (pigging waste) as a result of an upset.
---

I, R.A. Wirtanen representative for:  
 (Print Name)

Phillips Petroleum do hereby certify that according to the Resource Conservation Act (RCRA) and Environmental Protection Agency's July, 1988, regulatory determination, the above described waste is:  
 (Check appropriate classification)

**EXEMPT** oilfield waste                       **NON-EXEMPT** oilfield waste  
 which is non-hazardous by characteristic analysis or by product identification and that nothing has been added to the exempt non-hazardous waste defined above.

For <b>EXEMPT</b> waste only, the following documentation is attached (check appropriate items)  <input type="checkbox"/> NORM Survey <input type="checkbox"/> TCLP Analysis	For <b>NON-EXEMPT</b> waste only, the following documentation is attached (check appropriate items)  <input type="checkbox"/> MSDS Information <input type="checkbox"/> TCLP Analysis <input type="checkbox"/> Chain of Custody <input type="checkbox"/> NORM Survey <input type="checkbox"/> Other (description)
---	---

Name (Original Signature): RA Wirtanen by P. Cleary  
 Title: Sr. Safety and Environmental Specialist  
 Date: August 24, 2000

District I - (505) 393-6161  
 P.O. Box 1980  
 Hobbs, NM 88241-1980  
 District II - (505) 748-1283  
 811 S. First  
 Artesia, NM 88210  
 District III - (505) 334-6178  
 Rio Brazos Road  
 NM 87410  
 District IV - (505) 827-7131

New Mexico  
 Energy Minerals and Natural Resources Department  
 Oil Conservation Division  
 2040 South Pacheco Street  
 Santa Fe, New Mexico 87505  
 (505) 827-7131

Form C-13  
 Originated 8/87

Submit Origin  
 Plus 1 Co  
 to appropriate  
 District Office

Env. JN: 96043

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/> <u>Denny Faust</u> (2.20.00 14:15)	4. Generator <u>Cooper Energy Services</u>
Verbal Approval Received: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	5. Originating Site <u>Arch Rock Compressor Station</u>
2. Management Facility Destination <u>Envirotech Soil Remediation Facility Landfarm #2</u>	6. Transporter <u>Envirotech</u>
3. Address of Facility Operator <u>5796 US Highway 64 Farmington, NM 87401</u>	8. State <u>New Mexico</u>
7. Location of Material (Street Address or ULSTR)	<u>NE Sec 14, T 31N R 10W</u>
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

Mobil  
Soil Contaminated w/ new Pagagus 805 lube oil.  
MSDS Attached.



Estimated Volume 10 cy Known Volume (to be entered by the operator at the end of the haul) 66 cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 12.20.00  
 Waste Management Facility Authorized Agent  
 TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Denny Faust TITLE: Geologist DATE: 01/31/01  
 APPROVED BY: Monty J. King TITLE: Environ. In. Gen. & DATE: 02/07/01

District I - (505) 393-6161  
 P. O. Box 1980  
 Hobbs, NM 88241-1980  
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 District IV - (505) 827-7131

New Mexico  
 Energy Minerals and Natural Resources Department  
 Oil Conservation Division  
 2040 South Pacheco Street  
 Santa Fe, New Mexico 87505  
 (505) 827-7131

Form C-138  
 Originated 8/8/99

Submit Original  
 Plus 1 Copy  
 to appropriate  
 District Office

Env. JN: 96043

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/> <u>Danny Faust</u> (2.20.00 14:15	4. Generator <u>Cooper Energy Services</u>
Verbal Approval Received: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	5. Originating Site <u>Arch Rock Compressor Station</u>
2. Management Facility Destination <u>Envirotech Soil Remediation Facility Landfarm #2</u>	6. Transporter <u>Envirotech</u>
3. Address of Facility Operator <u>5796 US Highway 64 Farmington, NM 87401</u>	8. State <u>New Mexico</u>
7. Location of Material (Street Address or ULSTR)	<u>NE Sec 14, T 31N R 10W</u>
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

Mobil  
Soil Contaminated w/ New Pages 805 lube oil.  
MSDS Attached.



Estimated Volume 10 cy Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_ cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 12.20.00  
 Waste Management Facility Authorized Agent  
 TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Danny Faust TITLE: Geologist DATE: 01/31/01

APPROVED BY: \_\_\_\_\_ TITLE: \_\_\_\_\_ DATE: \_\_\_\_\_



NEW MEXICO ENERGY, MINERALS  
& NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION  
AZTEC DISTRICT OFFICE  
1000 RIO BRAZOS ROAD  
AZTEC, NEW MEXICO 87410  
(505) 334-6170 Fax (505) 334-6170

GARY E. JOHNSON  
GOVERNOR

JENNIFER A. SALISBURY  
CABINET SECRETARY

## CERTIFICATE OF WASTE STATUS

<p>1. Generator Name and Address: Cooper Energy Services 3900 E. Bloomfield Hwy. Farmington New Mexico</p>	<p>2. Destination Name: Envirotech Soil Remediation Facility Landarm #2 Hilltop, New Mexico</p>
<p>3. Originating Site (name): Archrock Compressor Station NEQ T31N R10W Sec14 Location of the Waste (Street address &amp;/or ULSTR): Attach list of originating sites as appropriate</p>	
<p>4. Source and Description of Waste Overflow of Mobil Pegasus 805 @ a Compressor Lube Oil Storage Tank</p>	

I, Cooper Energy Service (Print Name) representative for: \_\_\_\_\_ do hereby certify that, according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July, 1988, regulatory determination, the above described waste is: (Check appropriate classification)

EXEMPT oilfield waste  NON-EXEMPT oilfield waste which is non-hazardous by characteristic analysis or by product identification

and that nothing has been added to the exempt or non-exempt non-hazardous waste defined above.

For NON-EXEMPT waste the following documentation is attached (check appropriate items):

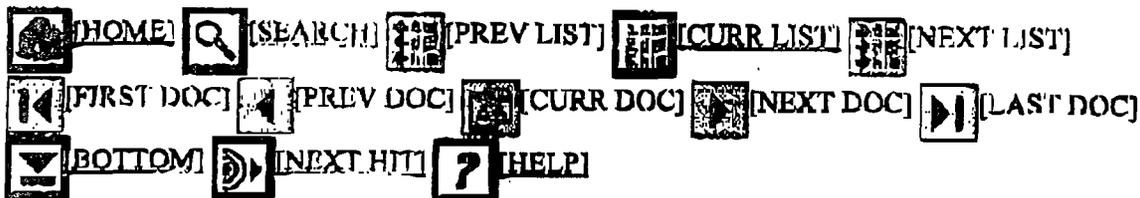
MSDS Information  Other (description): \_\_\_\_\_  
 RCRA Hazardous Waste Analysis  
 Chain of Custody

This waste is in compliance with Regulated Levels of Naturally Occurring Radioactive Material (NORM) pursuant to 20 NMAC 3.1 subpart 1403.C and D.

Name (Original Signature): Sean Washb

Title: \_\_\_\_\_

Date: \_\_\_\_\_



**Mobil**  
The energy  
to make a difference™

## MOBIL PEGASUS 805

602466-00

### 1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: MOBIL PEGASUS 805

APPROVAL DATE: 09/22/98

SUPPLIER: MOBIL OIL CORP.

NORTH AMERICA MARKETING AND REFINING  
3225 GALLOWES RD.  
FAIRFAX, VA 22037

24 - Hour Emergency (call collect): 609-737-4411

Product and MSDS Information:

800-662-4525

609-224-4644

CHEMTREC:

800-424-9300

202-483-7616

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAMES AND SYNONYMS: PET. HYDROCARBONS AND ADDITIVES

INGREDIENTS CONSIDERED HAZARDOUS TO HEALTH:

This product is not formulated to contain ingredients which have exposure limits established by U.S. agencies. It is not hazardous to health as defined by the European Union Dangerous Substances/Preparations Directives. See Section 15 for a regulatory analysis of the ingredients.

See Section 15 for European Label Information.

See Section 8 for exposure limits (if applicable).

### 3. HAZARDS IDENTIFICATION

OSHA HAZARD COMMUNICATION STANDARD: Product assessed in accordance with OSHA 29 CFR 1910.1200 and determined not to be hazardous.

EFFECTS OF OVEREXPOSURE: No significant effects expected.

EMERGENCY RESPONSE DATA: Light Amber Liquid, DOT ERG No. - NA

### 4. FIRST AID MEASURES

EYE CONTACT: Flush thoroughly with water. If irritation occurs, call a physician.

SKIN CONTACT: Wash contact areas with soap and water.

INHALATION: Not expected to be a problem.

INGESTION: Not expected to be a problem when ingested. If uncomfortable seek medical assistance.

### 5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA: Carbon dioxide, foam, dry chemical and water fog.

SPECIAL FIRE FIGHTING PROCEDURES: Water or foam may cause frothing.

Use water to keep fire exposed containers cool. Water spray may be used to flush spills away from exposure. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply.

SPECIAL PROTECTIVE EQUIPMENT: For fires in enclosed areas, fire

Fighters must use self-contained breathing apparatus.  
 UNUSUAL FIRE AND EXPLOSION HAZARDS: None. Flash Point C(F): 245(473)  
 (ASTM D-92). Flammable limits - LEL: NE, UEL: NE.  
 NFPA HAZARD ID: Health: 0, Flammability: 1, Reactivity: 0  
 HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide. Possibly  
 hydrocarbon fragments. Sulfur oxides and compounds.

#### 6. ACCIDENTAL RELEASE MEASURES

**NOTIFICATION PROCEDURES:** Report spills as required to appropriate authorities. U. S. Coast Guard regulations require immediate reporting of spills that could reach any waterway including intermittent dry creeks. Report spill to Coast Guard toll free number (800) 424-8802. In case of accident or road spill notify CHEMTREC (800) 424-9300.

**PROCEDURES IF MATERIAL IS RELEASED OR SPILLED:** Adsorb on fire retardant treated sawdust, diatomaceous earth, etc. Shovel up and dispose of at an appropriate waste disposal facility in accordance with current applicable laws and regulations, and product characteristics at time of disposal.

**ENVIRONMENTAL PRECAUTIONS:** Prevent spills from entering storm sewers or drains and contact with soil.

**PERSONAL PRECAUTIONS:** See Section 8

#### 7. HANDLING AND STORAGE

**HANDLING:** No special precautions are necessary beyond normal good hygiene practices. See Section 8 for additional personal protection advice when handling this product.

**STORAGE:** Do not store in open or unlabelled containers. Store away from strong oxidizing agents or combustible material.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**VENTILATION:** No special requirements under ordinary conditions of use and with adequate ventilation.

**RESPIRATORY PROTECTION:** No special requirements under ordinary conditions of use and with adequate ventilation.

**EYE PROTECTION:** Normal industrial eye protection practices should be employed.

**SKIN PROTECTION:** No special equipment required. However, good personal hygiene practices should always be followed.

**EXPOSURE LIMITS:** This product does not contain any components which have recognized exposure limits. However, a exposure limit of 5.00 mg/m3 is suggested for oil mist.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Typical physical properties are given below. Consult Product Data Sheet for specific details.

**APPEARANCE:** Liquid

**COLOR:** Light Amber

**ODOR:** Marketable

**ODOR THRESHOLD-ppm:** NE

**pH:** NA

**BOILING POINT C(F):** NE

**MELTING POINT C(F):** NA

**FLASH POINT C(F):** 245(473) (ASTM D-92)

**FLAMMABILITY:** NE

**AUTO FLAMMABILITY:** NE

**EXPLOSIVE PROPERTIES:** NA

**OXIDIZING PROPERTIES:** NA

**VAPOR PRESSURE-mmHg 20 C:** < 0.1

**VAPOR DENSITY:** > 2.0

**EVAPORATION RATE:** NE

**RELATIVE DENSITY, 15/4 C:** 0.89

**SOLUBILITY IN WATER:** Negligible

**PARTITION COEFFICIENT:** NE

**VISCOSITY AT 40 C, cSt:** 130.0



Characteristic Leaching Procedure (TCLP). However, used product may be regulated.

14. TRANSPORT INFORMATION

USA DOT: NOT REGULATED BY USA DOT.
RID/ADR: NOT REGULATED BY RID/ADR.
IMO: NOT REGULATED BY IMO.
IATA: NOT REGULATED BY IATA.

15. REGULATORY INFORMATION

Governmental Inventory Status: All components comply with TSCA, EINECS/ELINCS, AICS, and DSL.

EU Labeling:

Symbol: \* EU labeling not required.

Risk Phrase(s): R.

NA

Safety Phrase(s): Not applicable.

U.S. Superfund Amendments and Reauthorization Act (SARA) Title III:

This product contains no "EXTREMELY HAZARDOUS SUBSTANCES".

SARA (311/312) REPORTABLE HAZARD CATEGORIES: None.

This product contains no chemicals reportable under

SARA (313) toxic release program.

The following product ingredients are cited on the lists below:

Table with 3 columns: CHEMICAL NAME, CAS NUMBER, LIST CITATIONS. Includes ZINC (ELEMENTAL ANALYSIS) (0.03%), PHOSPHORODIETHOIC ACID, O,O-DI, and C1-14-ALKYL ESTERS, ZINC SALTS (2:1) (ZDDP) (0.33%).

--- REGULATORY LISTS SEARCHED ---

Grid of regulatory lists searched including 1-ACGIH ALL, 6-IARC 1, 11-TSCA 4, 16-CA P65 CARC, 21-LA RTK, etc.

Code key: CARC=Carcinogen; SUS=Suspected Carcinogen; REPRO=Reproductive

16. OTHER INFORMATION

USE: ENGINE LUBRICANT

NOTE: MOBIL PRODUCTS ARE NOT FORMULATED TO CONTAIN PCBs.

Please call the Customer Response Center on 800-662-6525 for formulation disclosure.

For Internal Use Only: MHC: 0\* 0\* MA 1\* 1\*, MPPEC: A, TRN: 602466-00, GLIS: 400795, CMCS97: 97D936, REQ: US - MARKETING, SAPE USE: L

Information given herein is offered in good faith as accurate, but without guarantee. Conditions of use and suitability of the product for particular uses are beyond our control; all risks of use of the product are therefore assumed by the user and WE EXPRESSLY DISCLAIM ALL WARRANTIES OF EVERY KIND AND NATURE, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE IN RESPECT TO THE USE OR SUITABILITY OF THE PRODUCT.

District I - (505) 393-6161  
 P.O. Box 1980  
 Hobbs, NM 88241-1980  
 District II - (505) 748-1283  
 811 S. First  
 Artesia, NM 88210  
 District III - (505) 334-6178  
 Rio Brazos Road  
 Artesia, NM 87410  
 District IV - (505) 827-7131

New Mexico  
 Energy Minerals and Natural Resources Department  
 Oil Conservation Division  
 2040 South Pacheco Street  
 Santa Fe, New Mexico 87505  
 (505) 827-7131

Form C-138  
 Originated 8/8/95

Submit Original  
 Plus 1 Copy  
 to appropriate  
 District Office

Env. JN: \_\_\_\_\_

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input checked="" type="checkbox"/> Non-Exempt: <input type="checkbox"/>	Dennis Faust 11:00 A.M. 12.20.00	4. Generator Robert L. Burgess
Verbal Approval Received: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		5. Originating Site Tacito Dome
2. Management Facility Destination Envirotech Soil Remediation Facility Landfarm #2		6. Transporter Burgess
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401		8. State New Mexico
7. Location of Material (Street Address or ULSTR)		NE4 Sec 20, T26N R18W
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.		

BRIEF DESCRIPTION OF MATERIAL:

Spent Sulfatreats, granular H<sub>2</sub>S knock out



Estimated Volume 10 cy Known Volume (to be entered by the operator at the end of the haul) 10 cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 12.20.00  
 Waste Management Facility Authorized Agent  
 TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Dennis Faust TITLE: Geologist DATE: 12/21/00  
 APPROVED BY: [Signature] TITLE: geologist DATE: 12-26-00



# NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION  
AZTEC DISTRICT OFFICE  
1000 RIO BRAZOS ROAD  
AZTEC, NEW MEXICO 87410  
(505) 334-6170 Fax (505) 334-6170

GARY E. JOHNSON  
GOVERNOR

JENNIFER A. SALISBURY  
CABINET SECRETARY

## CERTIFICATE OF WASTE STATUS

<b>1. Generator Name and Address:</b> ROBERT L. BAYLESS PO BOX 168 FARMINGTON, NM 87409	<b>2. Destination Name:</b> Envirotech Soil Remediation Facility Landarm #2 Hilltop, New Mexico
<b>3. Originating Site (name):</b> TOCITO DOME CENTRAL TANK BATTERY NE 1/4 SECTION 20, T 26N, R 18 W SAN JUAN COUNTY, NEW MEXICO <small>Attach list of originating sites as appropriate</small>	<b>Location of the Waste (Street address &amp;/or ULSTR):</b>
<b>4. Source and Description of Waste</b> USED SULFATREAT. GRAY GRANULAR, IRON COMPOUND USED TO REMOVE H <sub>2</sub> S FROM NATURAL GAS	

I, TOM MCCARTHY representative for:  
(Print Name)  
ROBERT L. BAYLESS do hereby certify that,  
 according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July, 1988, regulatory determination, the above described waste is: (Check appropriate classification)

EXEMPT oilfield waste       NON-EXEMPT oilfield waste which is non-hazardous by characteristic analysis or by product identification

and that nothing has been added to the exempt or non-exempt non-hazardous waste defined above.

For NON-EXEMPT waste the following documentation is attached (check appropriate items):

- MSDS Information
- RCRA Hazardous Waste Analysis
- Chain of Custody
- Other (description):

This waste is in compliance with Regulated Levels of Naturally Occurring Radioactive Material (NORM) pursuant to 20 NMAC 3.1 subpart 1403.C and D.

Name (Original Signature):   
 Title: ENGINEER  
 Date: 12/20/2000

District I (505) 393-6161  
 P.O. Box 1980  
 Hobbs, NM 88241-1980  
 District II - (505) 748-1283  
 811 S. First  
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 District III - (505) 334-6178  
 7 Rio Brazos Road  
 Artesia, NM 87410  
 District IV - (505) 827-7131

**New Mexico**  
**Energy Minerals and Natural Resources Department**  
**Oil Conservation Division**  
 2040 South Pacheco Street  
 Santa Fe, New Mexico 87505  
 (505) 827-7131

Form C-138  
 Originated 8/8/9

Submit Originals  
 Plus 1 Copy  
 to appropriate  
 District Office

Env. JN: \_\_\_\_\_

**REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE**

1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/> Verbal Approval Received: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	4. Generator <u>BJ Services</u> 5. Originating Site <u>Wash Bay Rack</u>
2. Management Facility Destination <u>Envirotech Soil Remediation Facility Landfarm #2</u>	6. Transporter <u>Envirotech</u>
3. Address of Facility Operator <u>5796 US Highway 64 Farmington, NM 87401</u>	8. State <u>New Mexico</u>
7. Location of Material (Street Address or ULSTR)	<u>3250 Southside River Rd Farmington, NM</u>
9. <u>Circle One:</u> A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.  All transporters must certify the wastes delivered are only those consigned for transport.	

*Donny Faust  
 12.7.00  
 8:45 AM*

**BRIEF DESCRIPTION OF MATERIAL:**

*Continuation of wash bay solids disposal & remediation  
 TCLA attached.*



Estimated Volume 40 cy Known Volume (to be entered by the operator at the end of the haul) 40 cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 12.15.00  
 Waste Management Facility Authorized Agent  
 TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

*(This space for State Use)*

APPROVED BY: Donny Faust TITLE: Geologist DATE: 12/21/00  
 APPROVED BY: Monty G. Kelly TITLE: Environmental Geologist DATE: 1/11/01

District I - (505) 393-6161  
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 Energy Minerals and Natural Resources Department  
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 (505) 827-7131

Form C-138  
 Originated 8/8/95  
 Submit Original  
 Plus 1 Copy  
 to appropriate  
 District Office

Env. JN: \_\_\_\_\_

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/>	4. Generator <u>BJ Services</u>
Verbal Approval Received: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	5. Originating Site <u>Wash Bay Rack</u>
2. Management Facility Destination <u>Envirotech Soil Remediation Facility Landfarm #2</u>	6. Transporter <u>Envirotech</u>
3. Address of Facility Operator <u>5796 US Highway 64 Farmington, NM 87401</u>	8. State <u>New Mexico</u>
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BRIEF DESCRIPTION OF MATERIAL:

*Continuation of wash bay solids disposal & remediation  
 TCLA attached.*



Estimated Volume 40 cy Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_ cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 12.15.00  
 Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Denny Faust TITLE: Geologist DATE: 12/21/00

APPROVED BY: \_\_\_\_\_ TITLE: \_\_\_\_\_ DATE: \_\_\_\_\_



NEW MEXICO ENERGY, MINERALS  
& NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION  
AZTEC DISTRICT OFFICE  
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(505) 334-6178 Fax (505) 334-6170

GARY E. JOHNSON  
GOVERNOR

JENNIFER A. SALISBURY  
CABINET SECRETARY

## CERTIFICATE OF WASTE STATUS

<p>1. Generator Name and Address: BJ Services 3250 Southside River Road Farmington, New Mexico 87401</p>	<p>2. Destination Name: Envirotech Inc. Soil Remediation Remediation Facility Landfarm #2, Hilltop, New Mexico 5796 IIS Hwy 64, Farmington, NM 87401</p>
<p>3. Originating Site (name): BJ Services (Main Yard) 3250 Southside River Road Farmington, New Mexico 87401 Attach list of originating sites as appropriate</p>	<p>Location of the Waste (Street address &amp;/or ULSTR): Same - Wash Bay Solids Facility</p>
<p>4. Source and Description of Waste: CONTINUATION OF Wash Bay Solids.</p>	

I, Les Baugh representative for:  
(Print Name)

BJ Services do hereby certify that, according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July, 1988, regulatory determination, the above described waste is: (Check appropriate classification)

EXEMPT oilfield waste  NON-EXEMPT oilfield waste which is non-hazardous by characteristic analysis or by product identification

and that nothing has been added to the exempt or non-exempt non-hazardous waste defined above.

For NON-EXEMPT waste the following documentation is attached (check appropriate items):

MSDS Information  Other (description):  
 RCRA Hazardous Waste Analysis Reaffirmation Statement  
 Chain of Custody

This waste is in compliance with Regulated Levels of Naturally Occurring Radioactive Material (NORM) pursuant to 20 NMAC 3.1 subpart 1403.C and D.

Name (Original Signature): Les Baugh

Title: Facilities Supervisor

Date: 12/7/00

## REAFFIRMATION OF WASTE STATUS / NON-EXEMPT WASTE

I hereby certify that the attached Request For Approval and Certificate of Waste Status are for materials generated using the same procedures and equipment employed to generate the waste on which Toxicity Characteristic Leaching Procedures (TCLP) analysis was performed. I further certify that said material is from operations in the immediate Four Corners area.

Date of TCLP 2/17/00  
Printed Name Les Baugh  
Title / Agency Facilities Supervisor  
Address 3250 Southside River Road  
FARMINGTON, New Mexico 87401  
Signature Les Baugh  
Date 12/7/00



NEW MEXICO ENERGY, MINERALS  
& NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION  
AZTEC DISTRICT OFFICE  
1000 RIO BRAZOS ROAD  
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(505) 334-6178 Fax (505) 334-6170

GARY E. JOHNSON  
GOVERNOR

JENNIFER A. SALISBURY  
CABINET SECRETARY

CERTIFICATE OF WASTE STATUS

<p>1. Generator Name and Address: BJ Services 3250 Southside River Road Farmington, New Mexico 87401</p>	<p>2. Destination Name: Envirotech Inc. Soil Remediation Remediation Facility Landfarm #2, Hilltop, New Mexico 5796 IIS Hwy 64, Farmington, NM 87401</p>
<p>3. Originating Site (name): BJ Services (Main Yard) 3250 Southside River Road Farmington, New Mexico 87401 Attach list of originating sites as appropriate</p>	<p>Location of the Waste (Street address &amp;/or ULSTR): Same - Wash Bay Solids Facility</p>
<p>4. Source and Description of Waste: CONTINUATION OF Wash Bay Solids.</p>	

I, Les Baugh representative for:  
(Print Name)  
BJ Services do hereby certify that,  
according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July,  
1988, regulatory determination, the above described waste is: (Check appropriate classification)

EXEMPT oilfield waste  NON-EXEMPT oilfield waste which is non-hazardous by characteristic analysis or by product identification

and that nothing has been added to the exempt or non-exempt non-hazardous waste defined above.

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MSDS Information  Other (description):  
 RCRA Hazardous Waste Analysis Reaffirmation Statement  
 Chain of Custody

This waste is in compliance with Regulated Levels of Naturally Occurring Radioactive Material (NORM) pursuant to 20 NMAC 3.1 subpart 1403.C and D.

Name (Original Signature): Les Baugh  
Title: Facilities Supervisor  
Date: 12/7/00

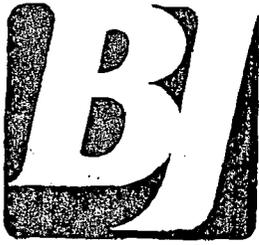
# ENVIROTECH INC.

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## REAFFIRMATION OF WASTE STATUS / NON-EXEMPT WASTE

I hereby certify that the attached Request For Approval and Certificate of Waste Status are for materials generated using the same procedures and equipment employed to generate the waste on which Toxicity Characteristic Leaching Procedures (TCLP) analysis was performed. I further certify that said material is from operations in the immediate Four Corners area.

Date of TCLP 2/17/00  
Printed Name Les Baugh  
Title / Agency Facilities Supervisor  
Address 3250 Southside River Road  
FARMINGTON New Mexico 87401  
Signature Les Baugh  
Date 12/7/00



Reply: BJ Services Company, USA  
3250 Southside River Road  
Farmington, NM 87401  
Phone: (505) 327-6222  
Fax: (505) 326-3755

**FARMINGTON DISTRICT**

Date: 12/7/00

Time: 10:40 A.M.

To: Envirotech, clmc

Fax Number: 632-1865

Attn: Harlan Brown

Number of Pages: \_\_\_\_\_

From: Les Bough - Farmington

Including Cover: 3

Comment: \_\_\_\_\_

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

February 17, 2000

Mr. Les Baugh  
BJ Services  
3250 E. Southside River Rd.  
Farmington, NM 87401

Phone: (505) 327-6222

Client No.: 95026-01

Job No.: 502601

Dear Mr. Baugh,

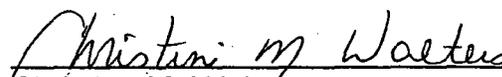
Enclosed are the analytical results for the sample collected from the location designated as "3250 Southside River Rd., Farmington, NM". One sludge sample was collected by Envirotech personnel on 2/10/00, and received by the Envirotech laboratory on 2/10/00 for TCLP W/O Herbicides and Pesticides.

The sample was documented on Envirotech Chain of Custody No. 7672 and assigned Laboratory No. G810 (Wash Bay Sludge) for tracking purposes.

The sample was analyzed 2/10/00 through 2/16/00 using USEPA or equivalent methods.

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

Respectfully submitted,  
**Envirotech, Inc.**

  
Christine M. Walters  
Laboratory Coordinator / Environmental Scientist

enc.

CMW/cmw

C:/files/labreports/BJ.wpd

## SUSPECTED HAZARDOUS WASTE ANALYSIS

Client:	B J Services	Project #:	502601
Sample ID:	Wash Bay Sludge	Date Reported:	02-10-00
Lab ID#:	G810	Date Sampled:	02-10-00
Sample Matrix:	Sludge	Date Received:	02-10-00
Preservative:	Cool	Date Analyzed:	02-10-00
Condition:	Cool and Intact	Chain of Custody:	7672

Parameter	Result
-----------	--------

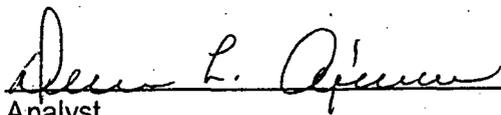
<b>IGNITABILITY:</b>	<b>Negative</b>	
<b>CORROSIVITY:</b>	<b>Negative</b>	<b>pH = 8.80</b>
<b>REACTIVITY:</b>	<b>Negative</b>	

### RCRA Hazardous Waste Criteria

Parameter	Hazardous Waste Criterion
IGNITABILITY:	Characteristic of Ignitability as defined by 40 CFR, Subpart C, Sec. 261.21. (i.e. Sample ignition upon direct contact with flame or flash point < 60° C.)
CORROSIVITY:	Characteristic of Corrosivity as defined by 40 CFR, Subpart C, Sec. 261.22. (i.e. pH less than or equal to 2.0 or pH greater than or equal to 12.5)
REACTIVITY:	Characteristic of Reactivity as defined by 40 CFR, Subpart C, Sec. 261.23. (i.e. Violent reaction with water, strong base, strong acid, or the generation of Sulfide or Cyanide gases at STP with pH between 2.0 and 12.5)

Reference: 40 CFR part 261 Subpart C sections 261.21 - 261.23, July 1, 1992.

Comments: 3250 Southside River Rd., Farmington, NM.

  
Analyst

  
Review

Client:	BJ Services	Project #:	502601
Sample ID:	Wash Bay Sludge	Date Reported:	02-16-00
Laboratory Number:	G810	Date Sampled:	02-10-00
Chain of Custody:	7672	Date Received:	02-10-00
Sample Matrix:	TCLP Extract	Date Extracted:	02-11-00
Preservative:	Cool	Date Analyzed:	02-14-00
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	0.0129	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	0.0038	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

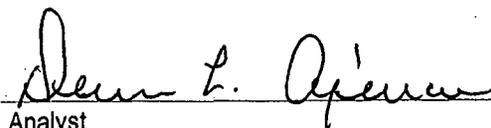
ND - Parameter not detected at the stated detection limit.

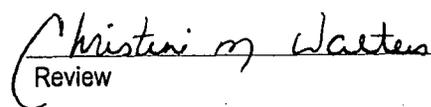
QA/QC Acceptance Criteria	Parameter	Percent Recovery
	Trifluorotoluene	98%
	Bromofluorobenzene	99%

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.  
Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994.  
Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Note: Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments: 3250 Southside River Rd., Farmington, NM.

  
Analyst

  
Review

Client:	BJ Services	Project #:	502601
Sample ID:	Wash Bay Sludge	Date Reported:	02-16-00
Laboratory Number:	G810	Date Sampled:	02-10-00
Chain of Custody:	7672	Date Received:	02-10-00
Sample Matrix:	TCLP Extract	Date Extracted:	02-11-00
Preservative:	Cool	Date Analyzed:	02-15-00
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	ND	0.020	200
p,m-Cresol	ND	0.040	200
2,4,6-Trichlorophenol	ND	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400
Pentachlorophenol	ND	0.020	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	2-Fluorophenol	98%
	2,4,6-Tribromophenol	99%

References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

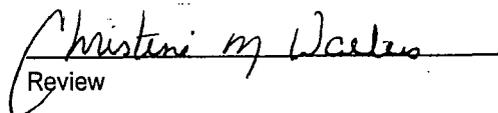
Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

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

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments: 3250 Southside River Rd., Farmington, NM.

  
Analyst

  
Review

Client:	BJ Services	Project #:	502601
Sample ID:	Wash Bay Sludge	Date Reported:	02-16-00
Laboratory Number:	G810	Date Sampled:	02-10-00
Chain of Custody:	7672	Date Received:	02-10-00
Sample Matrix:	TCLP Extract	Date Extracted:	02-11-00
Preservative:	Cool	Date Analyzed:	02-15-00
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	0.020	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

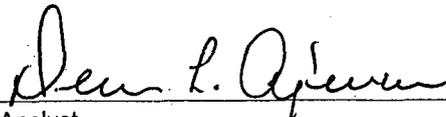
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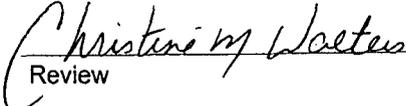
QA/QC Acceptance Criteria	Parameter	Percent Recovery
	2-fluorobiphenyl	99%

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.  
Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note: Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments: 3250 Southside River Rd., Farmington, NM.

  
Analyst

  
Review

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

Client:	BJ Services	Project #:	502601
Sample ID:	Wash Bay Sludge	Date Reported:	02-16-00
Laboratory Number:	G810	Date Sampled:	02-10-00
Chain of Custody:	7672	Date Received:	02-10-00
Sample Matrix:	TCLP Extract	Date Analyzed:	02-16-00
Preservative:	Cool	Date Extracted:	02-11-00
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
Arsenic	0.067	0.001	5.0
Barium	0.585	0.001	21
Cadmium	0.035	0.001	0.11
Chromium	0.022	0.001	0.60
Lead	0.031	0.001	0.75
Mercury	ND	0.001	0.025
Selenium	0.037	0.001	5.7
Silver	0.016	0.001	0.14

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, December 1996.

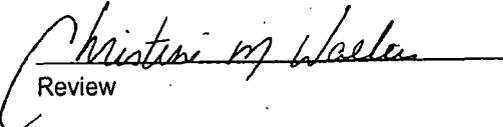
Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, December 1996.

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

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

Comments: 3250 Southside River Rd., Farmington, NM.

  
Analyst

  
Review

## QUALITY ASSURANCE / QUALITY CONTROL

## DOCUMENTATION

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	02-16-00
Laboratory Number:	02-14-TCV	Date Sampled:	N/A
Sample Matrix:	Water	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	02-14-00
Condition:	N/A	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	ND	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	ND	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

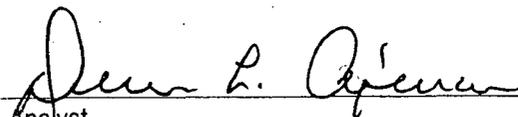
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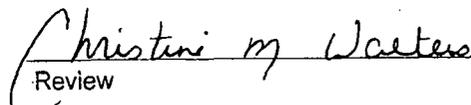
QA/QC Acceptance Criteria	Parameter	Percent Recovery
	Trifluorotoluene	100%
	Bromofluorobenzene	100%

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.  
Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994.  
Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Note: Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments: QA/QC for samples G810 - G811 and G836.

  
Analyst

  
Review

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	02-16-00
Laboratory Number:	02-11-TCV	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	02-14-00
Condition:	N/A	Date Extracted:	02-11-00
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	ND	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	ND	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery
	Trifluorotoluene	99%
	Bromofluorobenzene	98%

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.  
Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994.  
Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Note: Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments: QA/QC for samples G810 - G811 and G836.

  
Analyst

  
Review

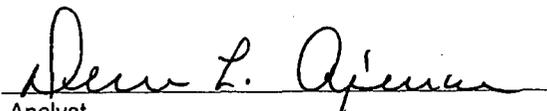
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Sample ID:	Matrix Duplicate	Date Reported:	02-16-00
Laboratory Number:	G810	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	02-14-00
Condition:	N/A	Date Extracted:	02-11-00

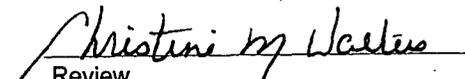
Parameter	Sample Result (mg/L)	Duplicate Sample Result (mg/L)	Detection Limits (mg/L)	Percent Difference
Vinyl Chloride	ND	ND	0.0001	0.0%
1,1-Dichloroethene	ND	ND	0.0001	0.0%
2-Butanone (MEK)	0.0129	0.0129	0.0001	0.0%
Chloroform	ND	ND	0.0001	0.0%
Carbon Tetrachloride	ND	ND	0.0001	0.0%
Benzene	0.0038	0.0038	0.0001	0.0%
1,2-Dichloroethane	ND	ND	0.0001	0.0%
Trichloroethene	ND	ND	0.0003	0.0%
Tetrachloroethene	ND	ND	0.0005	0.0%
Chlorobenzene	ND	ND	0.0003	0.0%
1,4-Dichlorobenzene	ND	ND	0.0002	0.0%

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.  
Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994.  
Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Comments: QA/QC for samples G810 - G811 and G836.

  
Analyst

  
Review

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Spike	Date Reported:	02-16-00
Laboratory Number:	G810	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	02-14-00
Condition:	N/A	Date Extracted:	02-11-00

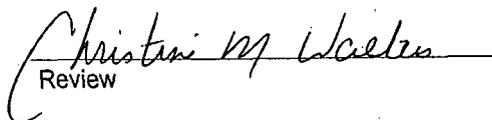
Parameter	Sample Result (mg/L)	Spike Added (mg/L)	Spiked Sample Result (mg/L)	Det. Limit (mg/L)	Percent Recovery	SW-846 % Rec. Accept. Range
Vinyl Chloride	ND	0.050	0.0495	0.0001	99%	28-163
1,1-Dichloroethene	ND	0.050	0.0494	0.0001	99%	43-143
2-Butanone (MEK)	0.0129	0.050	0.0624	0.0001	99%	47-132
Chloroform	ND	0.050	0.0498	0.0001	100%	49-133
Carbon Tetrachloride	ND	0.050	0.0491	0.0001	98%	43-143
Benzene	0.0038	0.050	0.0536	0.0001	100%	39-150
1,2-Dichloroethane	ND	0.050	0.0494	0.0001	99%	51-147
Trichloroethene	ND	0.050	0.0494	0.0003	99%	35-146
Tetrachloroethene	ND	0.050	0.0494	0.0005	99%	26-162
Chlorobenzene	ND	0.050	0.0494	0.0003	99%	38-150
1,4-Dichlorobenzene	ND	0.050	0.0494	0.0002	99%	42-143

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
 Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.  
 Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994.  
 Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Comments: QA/QC for samples G810 - G811 and G836.

  
 Analyst

  
 Review

EPA METHOD 8040  
PHENOLS  
Quality Assurance Report  
Laboratory Blank

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	02-16-00
Laboratory Number:	02-15-TCA	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	02-15-00
Condition:	N/A	Analysis Requested:	TCLP

Analytical Results Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	ND	0.020	200
p,m-Cresol	ND	0.040	200
2,4,6-Trichlorophenol	ND	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400
Pentachlorophenol	ND	0.020	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	2-fluorophenol	98 %
	2,4,6-tribromophenol	99 %

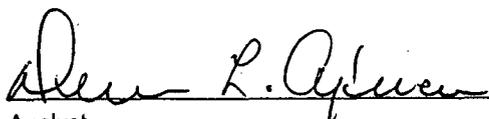
References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

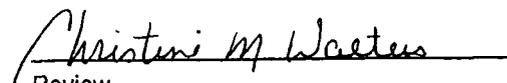
Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

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

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments: QA/QC for samples G810 - G811 and G836.

  
Analyst

  
Review

EPA METHOD 8040  
**PHENOLS**  
 Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	02-16-00
Laboratory Number:	02-11-TCA	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	02-11-00
Condition:	Cool & Intact	Date Analyzed:	02-15-00
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	ND	0.020	200
p,m-Cresol	ND	0.040	200
2,4,6-Trichlorophenol	ND	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400
Pentachlorophenol	ND	0.020	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	2-Fluorophenol	98%
	2,4,6-Tribromophenol	99%

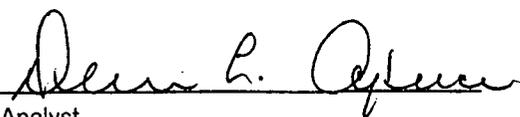
References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

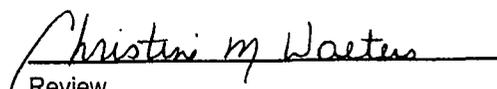
Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

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

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments: QA/QC for samples G810 - G811 and G836.

  
 Analyst

  
 Review

## EPA METHOD 8040 PHENOLS Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	02-16-00
Laboratory Number:	G810	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	02-11-00
Condition:	Cool & Intact	Date Analyzed:	02-15-00
		Analysis Requested:	TCLP

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Detection Limit (mg/L)	Percent Difference
o-Cresol	ND	ND	0.020	0.0%
p,m-Cresol	ND	ND	0.040	0.0%
2,4,6-Trichlorophenol	ND	ND	0.020	0.0%
2,4,5-Trichlorophenol	ND	ND	0.020	0.0%
Pentachlorophenol	ND	ND	0.020	0.0%

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Maximum Difference
	8040 Compounds	30.0%

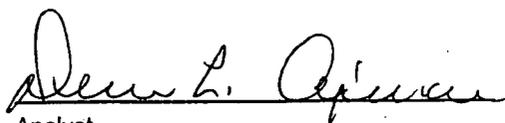
References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

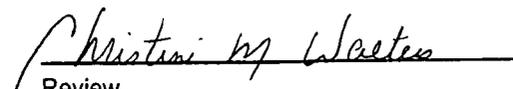
Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

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

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments: QA/QC for samples G810 - G811 and G836.

  
Analyst

  
Review

EPA Method 8090  
Nitroaromatics and Cyclic Ketones  
TCLP Base/Neutral Organics  
Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	02-16-00
Laboratory Number:	02-15-TBN	Date Sampled:	N/A
Sample Matrix:	Hexane	Date Received:	N/A
Preservative:	N/A	Date Extracted:	N/A
Condition:	N/A	Date Analyzed:	02-15-00
		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	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

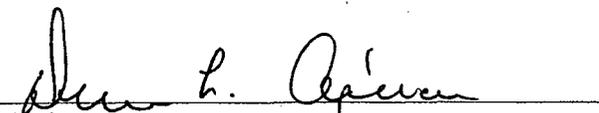
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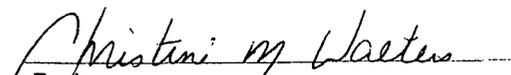
QA/QC Acceptance Criteria	Parameter	Percent Recovery
	2-fluorobiphenyl	97%

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.  
Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note: Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments: QA/QC for samples G810 - G811 and G836.

  
Analyst

  
Review

EPA Method 8090  
Nitroaromatics and Cyclic Ketones  
TCLP Base/Neutral Organics  
QUALITY ASSURANCE REPORT

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	02-16-00
Laboratory Number:	02-11-TBN	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	02-11-00
Condition:	Cool and Intact	Date Analyzed:	02-15-00
		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	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

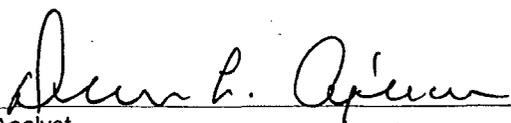
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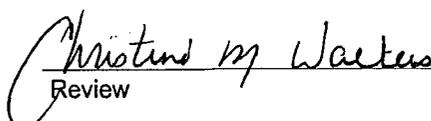
QA/QC Acceptance Criteria	Parameter	Percent Recovery
	2-fluorobiphenyl	96%

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.  
Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note: Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments: QA/QC for samples G810 - G811 and G836.

  
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Analyst

  
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Review

**EPA Method 8090  
Nitroaromatics and Cyclic Ketones  
TCLP Base/Neutral Organics  
QA/QC Matrix Duplicate Report**

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	02-16-00
Laboratory Number:	G810	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Extracted:	02-11-00
Condition:	N/A	Date Analyzed:	02-15-00
		Analysis Requested:	TCLP

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Percent Difference	Det. Limit (mg/L)
Pyridine	ND	ND	0.0%	0.020
Hexachloroethane	ND	ND	0.0%	0.020
Nitrobenzene	ND	ND	0.0%	0.020
Hexachlorobutadiene	ND	ND	0.0%	0.020
2,4-Dinitrotoluene	ND	ND	0.0%	0.020
HexachloroBenzene	ND	ND	0.0%	0.020

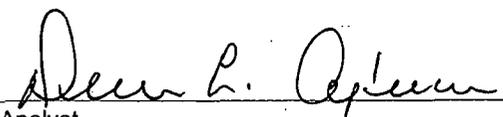
ND - Parameter not detected at the stated detection limit.

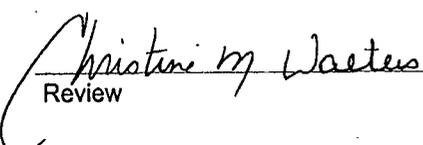
QA/QC Acceptance Criteria	Parameter	Maximum Difference
	8090 Compounds	30%

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
Method 3510, Separatory Funnel-Liquid-Liquid Extraction, SW-846, USEPA, July 1992.  
Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note: Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments: QA/QC for samples G810 - G811 and G836.

  
\_\_\_\_\_  
Analyst

  
\_\_\_\_\_  
Review

EPA METHOD 1311  
TOXICITY CHARACTERISTIC  
LEACHING PROCEDURE  
TRACE METAL ANALYSIS  
Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	02-16-TCM QA/QC	Date Reported:	02-16-00
Laboratory Number:	G810	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP Metals	Date Analyzed:	02-16-00
Condition:	N/A	Date Extracted:	N/A

Blank & Duplicate Conc. (mg/L)	Instrument Blank	Method Blank	Detection Limit	Sample	Duplicate	% Diff.	Acceptance Range
Arsenic	ND	ND	0.001	0.067	0.066	1.5%	0% - 30%
Barium	ND	ND	0.001	0.585	0.582	0.5%	0% - 30%
Cadmium	ND	ND	0.001	0.035	0.035	0.0%	0% - 30%
Chromium	ND	ND	0.001	0.022	0.022	0.0%	0% - 30%
Lead	ND	ND	0.001	0.031	0.031	0.0%	0% - 30%
Mercury	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Selenium	ND	ND	0.001	0.037	0.036	2.7%	0% - 30%
Silver	ND	ND	0.001	0.016	0.016	0.0%	0% - 30%

Spike Conc. (mg/L)	Spike Added	Sample	Spiked Sample	Percent Recovery	Acceptance Range
Arsenic	0.500	0.067	0.566	99.8%	80% - 120%
Barium	0.500	0.585	1.08	99.8%	80% - 120%
Cadmium	0.500	0.035	0.534	99.8%	80% - 120%
Chromium	0.500	0.022	0.521	99.8%	80% - 120%
Lead	0.500	0.031	0.530	99.8%	80% - 120%
Mercury	0.050	ND	0.049	98.0%	80% - 120%
Selenium	0.500	0.037	0.535	99.6%	80% - 120%
Silver	0.500	0.016	0.515	99.8%	80% - 120%

ND - Parameter not detected at the stated detection limit.

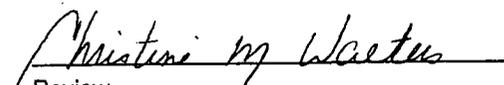
References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, Dec. 1996

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, December 1996.

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

Comments: QA/QC for samples G810 - G811 and G836.

  
Analyst

  
Review

# CHAIN OF CUSTODY RECORD

7672

Client / Project Name <b>BJ Services</b>			Project Location <b>3250 Southside River Rd Farmington, NM.</b>		ANALYSIS / PARAMETERS						
Sampler: <b>Harold M. Brown</b>			Client No. <b>95026 -01</b>		No. of Containers <b>TCUA w/ H&amp;F</b>	<b>✓</b>					Remarks
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix							
<b>Wash Bay Sludge</b>	<b>2-10-00</b>	<b>8:55</b>	<b>G810</b>	<b>Sludge</b>							
Relinquished by: (Signature) <i>Harold M. Brown</i>			Date <b>2-10-00</b>	Time <b>10:03</b>	Received by: (Signature) <i>John P. O'Brien</i>			Date <b>2/10/00</b>	Time <b>10:03</b>		
Relinquished by: (Signature)					Received by: (Signature)						
Relinquished by: (Signature)					Received by: (Signature)						
<b>ENVIROTECH INC.</b>							Sample Receipt				
5796 U.S. Highway 64 Farmington, New Mexico 87401 (505) 632-0615								Y	N	N/A	
							Received Intact	<b>✓</b>			
							Cool - Ice/Blue Ice	<b>✓</b>			

325

District I - (505) 393-6161  
 P.O. Box 1980  
 Hobbs, NM 88241-1980  
 District II - (505) 748-1283  
 811 S. First  
 Artesia, NM 88210  
 District III - (505) 334-6178  
 Rio Brazos Road  
 Roswell, NM 87410  
 District IV - (505) 827-7131

New Mexico  
 Energy Minerals and Natural Resources Department  
 Oil Conservation Division  
 2040 South Pacheco Street  
 Santa Fe, New Mexico 87505  
 (505) 827-7131

RECEIVED  
 DEC 06 2000  
 Environmental Bureau  
 Oil Conservation Division

Form C-138  
 Originated 8/8/95  
 Submit Original  
 Plus 1 Copy  
 to appropriate  
 District Office

Env. JN: 95007-06

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/>	4. Generator <u>Coastal Chemical</u>
Verbal Approval Received: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	5. Originating Site <u>Main Yard</u>
2. Management Facility Destination <u>Envirotech Soil Remediation Facility Landfarm #2</u>	6. Transporter <u>Envirotech</u>
3. Address of Facility Operator <u>5796 US Highway 64 Farmington, NM 87401</u>	8. State <u>New Mexico</u>
7. Location of Material (Street Address or ULSTR)	<u>1130 Madison Lane Farmington NM 87401</u>
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

Clean up Amine contaminated soil. Transfer line ruptured between tank and transport on loading dock.  
pH Analysis  
MSDS Attached.



Hauled 12/2/00, verbal approval from Roger Anderson

Estimated Volume 168 cy Known Volume (to be entered by the operator at the end of the haul) 172 cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 12.4.00  
 Waste Management Facility Authorized Agent  
 TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: [Signature] TITLE: Asst. Log. ST DATE: 12/4/00  
 APPROVED BY: [Signature] TITLE: Environmental Geologist DATE: 12/6/00

District I - (505) 393-6161  
 P.O. Box 1980  
 Hobbs, NM 88241-1980  
 District II - (505) 748-1283  
 811 S. First  
 Artesia, NM 88210  
 District III - (505) 334-6178  
 Rio Brazos Road  
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 District IV - (505) 827-7131

New Mexico  
 Energy Minerals and Natural Resources Department  
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 2040 South Pacheco Street  
 Santa Fe, New Mexico 87505  
 (505) 827-7131

Form C-138  
 Originated 8/8/95  
 Submit Original  
 Plus 1 Copy  
 to appropriate  
 District Office

Env. JN: 95007-06

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/>	Dunn + Faust 12.6.00 14:30	4. Generator <u>Coastal Chemical</u>
Verbal Approval Received: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		5. Originating Site <u>Main yard</u>
2. Management Facility Destination <u>Envirotech Soil Remediation Facility Landfarm #2</u>		6. Transporter <u>Envirotech</u>
3. Address of Facility Operator <u>5796 US Highway 64 Farmington, NM 87401</u>		8. State <u>New Mexico</u>
7. Location of Material (Street Address or ULSTR)		<u>430 Madison Lane Farmington NM 87401</u>
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.		

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MSDS Attached.

Hauled 12/2/00, verbal from Roger Anderson  
 Estimated Volume 168 cy Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_ cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 12.4.00  
Waste Management Facility Authorized Agent  
 TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Denny Faust TITLE: Geologist DATE: 12/4/00

APPROVED BY: \_\_\_\_\_ TITLE: \_\_\_\_\_ DATE: \_\_\_\_\_





# Material Safety Data Sheet

The Dow Chemical Company  
Midland, Michigan 48674

## 1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

PAGE: 1

24-HOUR EMERGENCY PHONE NUMBER: 517-636-4400

PRODUCT: GAS/SPEC (R) CS-2000 GAS TREATING SOLVENT ADDITIVE

PRODUCT CODE: 60643

EFFECTIVE DATE: 10/27/99      DATE PRINTED: 12/22/99      MSD: 006132

THE DOW CHEMICAL COMPANY, MIDLAND, MI 48674

CUSTOMER INFORMATION CENTER: 800-258-2436

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

PROPRIETARY INGREDIENT		
WATER	CAS# 007732-18-5	<14%

## 3. HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

\*\*\*\*\*  
 \* COLORLESS TO LIGHT YELLOW LIQUID. SLIGHT AMINE ODOR. CAUSES EYE \*  
 \* BURNS. CAUSES SKIN IRRITATION. TOXIC FUMES ARE RELEASED IN FIRE \*  
 \* SITUATIONS. \*  
 \*\*\*\*\*

### POTENTIAL HEALTH EFFECTS (SEE SECTION 11 FOR TOXICOLOGICAL DATA.)

EYE: MAY CAUSE SEVERE EYE IRRITATION WITH CORNEAL INJURY WHICH MAY RESULT IN PERMANENT IMPAIRMENT OF VISION, EVEN BLINDNESS. VAPORS OR MISTS MAY CAUSE EYE IRRITATION.

SKIN: SHORT SINGLE EXPOSURE MAY CAUSE MODERATE SKIN IRRITATION. PROLONGED OR REPEATED EXPOSURE MAY CAUSE SEVERE SKIN IRRITATION. A SINGLE PROLONGED EXPOSURE IS NOT LIKELY TO RESULT IN THE MATERIAL BEING ABSORBED IN HARMFUL AMOUNTS.

INGESTION: SINGLE DOSE ORAL TOXICITY IS CONSIDERED TO BE LOW. SMALL AMOUNTS SWALLOWED INCIDENTAL TO NORMAL HANDLING OPERATIONS ARE NOT LIKELY TO CAUSE INJURY; SWALLOWING AMOUNTS LARGER THAN THAT MAY CAUSE INJURY. INGESTION MAY CAUSE IRRITATION OF THE MOUTH, THROAT, AND GASTROINTESTINAL TRACT.

INHALATION: IF MATERIAL IS HEATED OR AEROSOL/MIST IS PRODUCED, CONCENTRATIONS MAY BE ATTAINED THAT ARE SUFFICIENT TO CAUSE

(CONTINUED ON PAGE 2 , OVER)

\* OR (R) INDICATES A TRADEMARK OF THE DOW CHEMICAL COMPANY



PRODUCT: GAS/SPEC (R) CS-2000 GAS TREATING SOLVENT ADDITIVE  
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MSD: 006132

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RESPIRATORY IRRITATION.

#### 4. FIRST AID

EYE: IMMEDIATE AND CONTINUOUS IRRIGATION WITH FLOWING WATER FOR AT LEAST 30 MINUTES IS IMPERATIVE. PROMPT MEDICAL CONSULTATION IS ESSENTIAL.

SKIN: WASH OFF IN FLOWING WATER OR SHOWER.

INGESTION: IF SWALLOWED, SEEK MEDICAL ATTENTION. DO NOT INDUCE VOMITING UNLESS DIRECTED TO DO SO BY MEDICAL PERSONNEL.

INHALATION: REMOVE TO FRESH AIR IF EFFECTS OCCUR. CONSULT A PHYSICIAN.

NOTE TO PHYSICIAN: NO SPECIFIC ANTIDOTE. SUPPORTIVE CARE. TREATMENT BASED ON JUDGMENT OF THE PHYSICIAN IN RESPONSE TO REACTIONS OF THE PATIENT.

#### 5. FIRE FIGHTING MEASURES

##### FLAMMABLE PROPERTIES

FLASH POINT: >300F

METHOD USED: SETAFLASH CC

##### FLAMMABILITY LIMITS

LFL: NOT DETERMINED.

UFL: NOT DETERMINED.

AUTOIGNITION TEMPERATURE: NOT DETERMINED.

HAZARDOUS COMBUSTION PRODUCTS: UNDER FIRE CONDITIONS SOME COMPONENTS OF THIS PRODUCT MAY DECOMPOSE. THE SMOKE MAY CONTAIN UNIDENTIFIED TOXIC AND/OR IRRITATING COMPOUNDS. HAZARDOUS COMBUSTION PRODUCTS MAY INCLUDE AND ARE NOT LIMITED TO NITROGEN OXIDES, CARBON MONOXIDE, CARBON DIOXIDE.

OTHER FLAMMABILITY INFORMATION: THIS MATERIAL WILL NOT BURN UNTIL THE WATER HAS EVAPORATED. RESIDUE CAN BURN. SPILLS OF THESE ORGANIC LIQUIDS ON HOT FIBROUS INSULATIONS MAY LEAD TO LOWERING OF THE AUTOIGNITION TEMPERATURES POSSIBLY RESULTING IN SPONTANEOUS COMBUSTION.

EXTINGUISHING MEDIA: TO EXTINGUISH COMBUSTIBLE RESIDUES OF THIS PRODUCT USE WATER FOG, CARBON DIOXIDE, DRY CHEMICAL OR FOAM. ALCOHOL RESISTANT FOAMS (ATC TYPE) ARE PREFERRED

(CONTINUED ON PAGE 3)

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IF AVAILABLE. GENERAL PURPOSE SYNTHETIC FOAMS (INCLUDING AFFF)  
OR PROTEIN FOAMS MAY FUNCTION, BUT MUCH LESS EFFECTIVELY.

FIRE FIGHTING INSTRUCTIONS: KEEP PEOPLE AWAY. ISOLATE FIRE AREA  
AND DENY UNNECESSARY ENTRY. TO EXTINGUISH COMBUSTIBLE  
RESIDUES OF THIS PRODUCT USE WATER FOG, CARBON DIOXIDE, DRY  
CHEMICAL, OR FOAM.

PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS: WEAR POSITIVE-PRESSURE  
SELF-CONTAINED BREATHING APPARATUS (SCBA) AND PROTECTIVE FIRE  
FIGHTING CLOTHING (INCLUDES FIRE FIGHTING HELMET, COAT, PANTS,  
BOOTS, AND GLOVES). AVOID CONTACT WITH THIS MATERIAL DURING  
FIRE FIGHTING OPERATIONS. IF CONTACT IS LIKELY, CHANGE TO  
FULL CHEMICAL RESISTANT CLOTHING WITH SCBA. THIS WILL NOT  
PROVIDE SUFFICIENT FIRE PROTECTION. CONSIDER FIGHTING FIRE  
FROM A REMOTE LOCATION. FOR PROTECTIVE EQUIPMENT IN  
POST-FIRE OR NON-FIRE CLEAN UP SITUATIONS, REFER TO THE  
RELEVANT SECTIONS.

#### 6. ACCIDENTAL RELEASE MEASURES (SEE SECTION 15 FOR REGULATORY INFORMATION)

PROTECT PEOPLE: ISOLATE AREA. MAY BE A SLIPPING HAZARD. SEE  
MSDS, SECTION 10, FOR INFORMATION ON STABILITY AND REACTIVITY.

PROTECT THE ENVIRONMENT: CONTAIN LIQUID TO PREVENT CONTAMINATION  
OF SOIL, SURFACE WATER OR GROUND WATER.

CLEANUP: CLEAN UP WITH ABSORBENT MATERIAL. AVOID MATERIALS SUCH  
AS SAWDUST. COLLECT MATERIAL IN SUITABLE AND PROPERLY LABELED  
CONTAINERS.

#### 7. HANDLING AND STORAGE

HANDLING: CONTAINERS, EVEN THOSE THAT HAVE BEEN EMPTIED, CAN  
CONTAIN VAPORS. DO NOT CUT, DRILL, GRIND, WELD, OR PERFORM  
SIMILAR OPERATIONS ON OR NEAR EMPTY CONTAINERS.

STORAGE: KEEP CONTAINERS TIGHTLY CLOSED WHEN NOT IN USE.  
RECOMMENDED STORAGE IN A COOL, DRY PLACE AWAY FROM HIGH  
TEMPERATURES, HOT PIPES, AND DIRECT SUNLIGHT. DO NOT STORE  
IN ALUMINUM, BRASS, COPPER, COPPER ALLOYS.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: GOOD GENERAL VENTILATION SHOULD BE SUFFICIENT

(CONTINUED ON PAGE 4 , OVER)

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FOR MOST CONDITIONS. LOCAL EXHAUST VENTILATION MAY BE NECESSARY FOR SOME OPERATIONS.

**PERSONAL PROTECTIVE EQUIPMENT**

EYE/FACE PROTECTION: USE CHEMICAL GOGGLES. EYE WASH FOUNTAIN SHOULD BE LOCATED IN IMMEDIATE WORK AREA. IF VAPOR EXPOSURE CAUSES EYE DISCOMFORT, USE A FULL-FACE RESPIRATOR.

SKIN PROTECTION: USE GLOVES IMPERVIOUS TO THIS MATERIAL. WHEN PROLONGED OR FREQUENTLY REPEATED CONTACT COULD OCCUR, USE PROTECTIVE CLOTHING IMPERVIOUS TO THIS MATERIAL. SELECTION OF SPECIFIC ITEMS SUCH AS FACESHIELD, GLOVES, BOOTS, APRON, OR FULL-BODY SUIT WILL DEPEND ON OPERATION.

RESPIRATORY PROTECTION: FOR MOST CONDITIONS, NO RESPIRATORY PROTECTION SHOULD BE NEEDED; HOWEVER, IF MATERIAL IS HEATED OR SPRAYED, USE AN APPROVED AIR-PURIFYING RESPIRATOR.

EXPOSURE GUIDELINES: NONE ESTABLISHED.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE: COLORLESS TO LIGHT YELLOW LIQUID.

ODOR: SLIGHT AMINE.

BOILING POINT: 233.8F, 112.1C

VAPOR PRESSURE: 0.2 MMHG @ 20 C

VAPOR DENSITY: >1.0

SOLUBILITY IN WATER: COMPLETE

SPECIFIC GRAVITY: 0.94 @ 20/20C

FREEZING POINT: -28F (-33C)

**10. STABILITY AND REACTIVITY**

CHEMICAL STABILITY: STABLE UNDER RECOMMENDED STORAGE CONDITIONS. SEE STORAGE, SECTION 7.

CONDITIONS TO AVOID: PRODUCT CAN DECOMPOSE AT ELEVATED TEMPERATURES.

INCOMPATIBILITY WITH OTHER MATERIALS: AVOID CONTACT WITH HALOGENATED HYDROCARBONS, NITRITES, STRONG ACID. AVOID CONTACT WITH OXIDIZING MATERIALS. HEATING ABOVE 60C IN THE PRESENCE OF ALUMINUM CAN RESULT IN CORROSION AND GENERATION OF FLAMMABLE HYDROGEN GAS. PRODUCT MAY POTENTIALLY REACT WITH VARIOUS HALOGENATED ORGANIC SOLVENTS, RESULTING IN TEMPERATURE AND/OR PRESSURE INCREASES.

(CONTINUED ON PAGE 5)

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EFFECTIVE DATE: 10/27/99

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HAZARDOUS DECOMPOSITION: HAZARDOUS DECOMPOSITION PRODUCTS DEPEND  
UPON TEMPERATURE, AIR SUPPLY AND THE PRESENCE OF OTHER MATERIALS.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

11. TOXICOLOGICAL INFORMATION (SEE SECTION 3 FOR POTENTIAL HEALTH  
EFFECTS. FOR DETAILED TOXICOLOGICAL DATA, WRITE OR CALL THE  
ADDRESS OR NON-EMERGENCY NUMBER SHOWN IN SECTION 1)

SKIN: THE DERMAL LD50 HAS NOT BEEN DETERMINED.

INGESTION: THE ORAL LD50 FOR RATS IS 1360 MG/KG.

MUTAGENICITY: NO RELEVANT INFORMATION FOUND.

12. ECOLOGICAL INFORMATION (FOR DETAILED ECOLOGICAL DATA, WRITE OR CALL  
THE ADDRESS OR NON-EMERGENCY NUMBER SHOWN IN SECTION 1)

ENVIRONMENTAL FATE

MOVEMENT & PARTITIONING: BASED LARGELY OR COMPLETELY ON DATA  
FOR MAJOR COMPONENT(S). BIOCONCENTRATION POTENTIAL IS  
LOW (BCF LESS THAN 100 OR LOG POW LESS THAN 3). POTENTIAL  
FOR MOBILITY IN SOIL IS VERY HIGH (KOC BETWEEN 0 AND 50).

DEGRADATION & PERSISTENCE: BASED LARGELY OR COMPLETELY ON  
DATA FOR MAJOR COMPONENT(S). BIODEGRADATION MAY OCCUR  
UNDER AEROBIC CONDITIONS (IN THE PRESENCE OF OXYGEN).

ECOTOXICITY: BASED LARGELY OR COMPLETELY ON DATA FOR  
MAJOR COMPONENT(S). MATERIAL IS PRACTICALLY NON-TOXIC TO  
FISH ON AN ACUTE BASIS (LC50 > 100 MG/L). ACUTE LC50 IN  
GOLDEN ORFE (LEUCISCUS IDUS) IS 270 MG/L. TOXICITY  
EC50 IN MICROORGANISMS IS 270 MG/L.

13. DISPOSAL CONSIDERATIONS (SEE SECTION 15 FOR REGULATORY INFORMATION)

DISPOSAL: DO NOT DUMP INTO ANY SEWERS, ON THE GROUND OR INTO ANY  
BODY OF WATER. ALL DISPOSAL METHODS MUST BE IN COMPLIANCE WITH  
ALL FEDERAL, STATE/PROVINCIAL AND LOCAL LAWS AND REGULATIONS.  
REGULATIONS MAY VARY IN DIFFERENT LOCATIONS. WASTE CHARACTER-  
IZATIONS AND COMPLIANCE WITH APPLICABLE LAWS ARE THE RESPONSI-  
BILITY SOLELY OF THE WASTE GENERATOR. THE DOW CHEMICAL COMPANY  
HAS NO CONTROL OVER THE MANAGEMENT PRACTICES OR MANUFACTURING  
PROCESSES OF PARTIES HANDLING OR USING THIS MATERIAL. THE  
INFORMATION PRESENTED HERE PERTAINS ONLY TO THE PRODUCT AS

(CONTINUED ON PAGE 6 , OVER)

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EFFECTIVE DATE: 10/27/99      DATE PRINTED: 12/22/99      MSD: 006132

---

SHIPPED IN ITS INTENDED CONDITION AS DESCRIBED IN MSDS SECTION 2  
(COMPOSITION/INFORMATION ON INGREDIENTS).

FOR UNUSED & UNCONTAMINATED PRODUCT, THE PREFERRED OPTIONS IN-  
CLUDE SENDING TO A LICENSED, PERMITTED: INCINERATOR OR OTHER  
THERMAL DESTRUCTION DEVICE.

AS A SERVICE TO ITS CUSTOMERS, DOW CAN PROVIDE NAMES OF  
INFORMATION RESOURCES TO HELP IDENTIFY WASTE MANAGEMENT  
COMPANIES AND OTHER FACILITIES WHICH RECYCLE, REPROCESS OR  
MANAGE CHEMICALS OR PLASTICS, AND THAT MANAGE USED DRUMS.  
TELEPHONE DOW'S CUSTOMER INFORMATION CENTER AT  
800-258-2436 OR 517-832-1556 FOR FURTHER DETAILS.

#### 14. TRANSPORT INFORMATION

DEPARTMENT OF TRANSPORTATION (D.O.T.):  
FOR D.O.T. REGULATORY INFORMATION, IF REQUIRED, CONSULT  
TRANSPORTATION REGULATIONS, PRODUCT SHIPPING PAPERS, OR  
YOUR DOW REPRESENTATIVE.

CANADIAN TDG INFORMATION  
FOR TDG REGULATORY INFORMATION, IF REQUIRED, CONSULT  
TRANSPORTATION REGULATIONS, PRODUCT SHIPPING PAPERS, OR  
YOUR DOW REPRESENTATIVE.

#### 15. REGULATORY INFORMATION (NOT MEANT TO BE ALL-INCLUSIVE--SELECTED REGULATIONS REPRESENTED)

NOTICE: THE INFORMATION HEREIN IS PRESENTED IN GOOD FAITH AND  
BELIEVED TO BE ACCURATE AS OF THE EFFECTIVE DATE SHOWN ABOVE. HOWEVER,  
NO WARRANTY, EXPRESS OR IMPLIED IS GIVEN. REGULATORY REQUIREMENTS  
ARE SUBJECT TO CHANGE AND MAY DIFFER FROM ONE LOCATION TO ANOTHER;  
IT IS THE BUYER'S RESPONSIBILITY TO ENSURE THAT ITS ACTIVITIES COMPLY  
WITH FEDERAL, STATE OR PROVINCIAL, AND LOCAL LAWS. THE FOLLOWING  
SPECIFIC INFORMATION IS MADE FOR THE PURPOSE OF COMPLYING WITH  
NUMEROUS FEDERAL, STATE OR PROVINCIAL, AND LOCAL LAWS AND REGULATIONS.  
SEE OTHER SECTIONS FOR HEALTH AND SAFETY INFORMATION.

#### U.S. REGULATIONS

=====

SARA 313 INFORMATION: TO THE BEST OF OUR KNOWLEDGE, THIS PRODUCT  
CONTAINS NO CHEMICAL SUBJECT TO SARA TITLE III SECTION 313 SUPPLIER  
NOTIFICATION REQUIREMENTS.

(CONTINUED ON PAGE 7)

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REGULATORY INFORMATION (CONTINUED)

SARA HAZARD CATEGORY: THIS PRODUCT HAS BEEN REVIEWED ACCORDING TO THE EPA "HAZARD CATEGORIES" PROMULGATED UNDER SECTIONS 311 AND 312 OF THE SUPERFUND AMENDMENT AND REAUTHORIZATION ACT OF 1986 (SARA TITLE III) AND IS CONSIDERED, UNDER APPLICABLE DEFINITIONS, TO MEET THE FOLLOWING CATEGORIES:

AN IMMEDIATE HEALTH HAZARD

TOXIC SUBSTANCES CONTROL ACT (TSCA):

ALL INGREDIENTS ARE ON THE TSCA INVENTORY OR ARE NOT REQUIRED TO BE LISTED ON THE TSCA INVENTORY.

STATE RIGHT-TO-KNOW: THE FOLLOWING PRODUCT COMPONENTS ARE CITED ON CERTAIN STATE LISTS AS MENTIONED. NON-LISTED COMPONENTS MAY BE SHOWN IN THE COMPOSITION SECTION OF THE MSDS.

CHEMICAL NAME	CAS NUMBER	LIST
PROPRIETARY INGREDIENT	PROPRIETARY	PA1

PA1=PENNSYLVANIA HAZARDOUS SUBSTANCE (PRESENT AT GREATER THAN OR EQUAL TO 1.0%).

OSHA HAZARD COMMUNICATION STANDARD:

THIS PRODUCT IS A "HAZARDOUS CHEMICAL" AS DEFINED BY THE OSHA HAZARD COMMUNICATION STANDARD, 29 CFR 1910.1200.

COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT (CERCLA, OR SUPERFUND):

(CONTINUED ON PAGE 8 , OVER)

\* OR (R) INDICATES A TRADEMARK OF THE DOW CHEMICAL COMPANY

PRODUCT: GAS/SPEC (R) CS-2000 GAS TREATING SOLVENT ADDITIVE  
PRODUCT CODE: 60643

EFFECTIVE DATE: 10/27/99

DATE PRINTED: 12/22/99

MSD: 006132

---

**REGULATORY INFORMATION (CONTINUED)**

TO THE BEST OF OUR KNOWLEDGE, THIS PRODUCT CONTAINS NO CHEMICAL SUBJECT TO REPORTING UNDER CERCLA.

**16. OTHER INFORMATION**

PRODUCT USE: SOLVENT FOR SELECTIVE EXTRACTION AND DISSOLUTION.

REVISION INDICATOR: REVISED SECTIONS 2, 3, 5, 9, 10 AND 15.

\* OR (R) INDICATES A TRADEMARK OF THE DOW CHEMICAL COMPANY  
THE INFORMATION HEREIN IS GIVEN IN GOOD FAITH, BUT NO WARRANTY,  
EXPRESS OR IMPLIED, IS MADE. CONSULT THE DOW CHEMICAL COMPANY  
FOR FURTHER INFORMATION.

# ENVIROTECH LABS

PRAGMATIC SOLUTIONS FOR A BETTER TOMORROW

## SUSPECTED HAZARDOUS WASTE ANALYSIS

Client:	Coastal Chemical	Project #:	500706
Sample ID:	Amine Upset	Date Reported:	12-04-00
Lab ID#:	18926	Date Sampled:	12-01-00
Sample Matrix:	Soil	Date Received:	12-01-00
Preservative:	Cool	Date Analyzed:	12-04-00
Condition:	Cool and Intact	Chain of Custody:	9165

Parameter	Result
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**CORROSIVITY:** Positive pH = 10.8

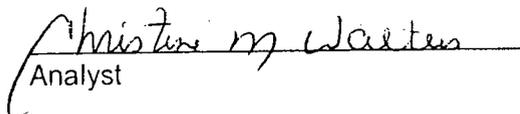
### RCRA Hazardous Waste Criteria

Parameter	Hazardous Waste Criterion
-----------	---------------------------

**CORROSIVITY:** Characteristic of Corrosivity as defined by 40 CFR, Subpart C, Sec. 261.22.  
(i.e. pH less than or equal to 2.0 or pH greater than or equal to 12.5)

Reference: 40 CFR part 261 Subpart C sections 261.21 - 261.23, July 1, 1992.

Comments: 1130 Madison Lane, Farmington, N.M.

  
Christine M. Walters  
Analyst

  
Debra L. Spencer  
Review

# CHAIN OF CUSTODY RECORD

09165

Client / Project Name <i>Coastal Chemical</i>			Project Location <i>1130 MADISON LADE Farmington N.M.</i>		ANALYSIS / PARAMETERS								
Sampler: <i>Harlan M. Brown</i>			Client No. <i>500706</i>		No. of Containers <i>1</i>	<i>2</i>							Remarks
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix									
<i>Amide upset</i>	<i>12.1.00</i>	<i>16:30</i>	<i>18926</i>	<i>Soil</i>	<i>1</i>	<i>2</i>							
Relinquished by: (Signature) <i>Harlan M. Brown</i>			Date <i>12.1.00</i>	Time <i>17:45</i>	Received by: (Signature) <i>Christa Walker</i>			Date <i>12.1.00</i>	Time <i>17:45</i>				
Relinquished by: (Signature)					Received by: (Signature)								
Relinquished by: (Signature)					Received by: (Signature)								
 <p>5796 U.S. Highway 64 Farmington, New Mexico 87401 (505) 632-0615</p>							Sample Receipt						
								Y	N	N/A			
							Received Intact						
							Cool - Ice/Blue Ice						

District I - (505) 393-6161  
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 Artesia, NM 88210  
 District III - (505) 334-6178  
 Rio Brazos Road  
 NM 87410  
 District IV - (505) 827-7131

New Mexico  
 Energy Minerals and Natural Resources Department  
 Oil Conservation Division  
 2040 South Pacheco Street  
 Santa Fe, New Mexico 87505  
 (505) 827-7131

Form C-138  
 Originated 8/8/95  
 Submit Original  
 Plus 1 Copy  
 to appropriate  
 District Office

Env. JN: 96052

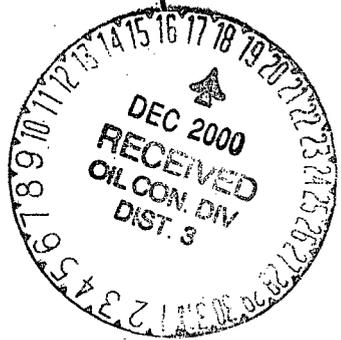
REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input checked="" type="checkbox"/> Non-Exempt: <input type="checkbox"/>	Denny Faust 12.11.00 8:45 AM.	4. Generator Phillips Petroleum
Verbal Approval Received: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		5. Originating Site SJ 29-6 #301 SW 10
2. Management Facility Destination Envirotech Soil Remediation Facility Landfarm #2		6. Transporter Cimmaron
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401		8. State New Mexico
7. Location of Material (Street Address or ULSTR)	"P" Sec 2, T29N, R6W	
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.	Rio Arriba County, NM.	

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

Continuation of SWD bottoms cleanup and disposal  
 Notes ATTACHED.



Estimated Volume 20 cy Known Volume (to be entered by the operator at the end of the haul) 20 cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 12.18.00  
 Waste Management Facility Authorized Agent  
 TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Denny Faust TITLE: Geologist DATE: 12/19/00  
 APPROVED BY: [Signature] TITLE: geologist DATE: 12-19-00



INSPECTION FOR N.O.R.M. CONTAMINATION  
PHILLIPS PETROLEUM COMPANY

Location: SS 29-6 #301 Date: 12-11-00

Survey Instrument Model: Victoreen 290 SN 1145 Last Calibrated: 7-21-00

Item Description: Tank Bottoms

Number of Pieces: 20 bbls

Location Where Items Originated: SS 29-6 #301

Background Reading: .05 uR/hr

Highest NORM reading: .049 uR/hr

Lowest NORM reading: .041 uR/hr

Any samples taken, if so how many: \_\_\_\_\_

all Pieces inspected

all Pieces found to be free of NORM contamination

none Pieces found to have NORM contamination

Remarks: \_\_\_\_\_

Inspector: Tina Henderson

What is final disposition: No Norm

Released to: Envirotech Date: 12-11-00

cc:

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 Hobbs, NM 88241-1980  
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 District III - (505) 334-6178  
 Rio Brazos Road  
 Artesia, NM 87410  
 District IV - (505) 827-7131

New Mexico  
 Energy Minerals and Natural Resources Department  
 Oil Conservation Division  
 2040 South Pacheco Street  
 Santa Fe, New Mexico 87505  
 (505) 827-7131

Form C-13  
 Originated 8/8/9

Submit Original  
 Plus 1 Copy  
 to appropriate  
 District Office

Env. JN: 96052

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input checked="" type="checkbox"/> Non-Exempt: <input type="checkbox"/>	<i>Denny Faust 12.11.00 8:45 A.M.</i>	4. Generator <i>Phillips Petroleum</i>
Verbal Approval Received: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		5. Originating Site <i>SJ 29-6 CPD</i>
2. Management Facility Destination <i>Envirotech Soil Remediation Facility Landfarm #2</i>		6. Transporter <i>Cimmaron</i>
3. Address of Facility Operator <i>5796 US Highway 64 Farmington, NM 87401</i>		8. State <i>New Mexico</i>
7. Location of Material (Street Address or ULSTR)		<i>"J" Section 3 T29N-R6W</i>
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.  All transporters must certify the wastes delivered are only those consigned for transport.		<i>Rio Arriba County NM</i>

BRIEF DESCRIPTION OF MATERIAL:

*Pigging waste.  
 Norms analysis Attached.*



Estimated Volume 20 drums cy Known Volume (to be entered by the operator at the end of the haul) 20 bbls cy

SIGNATURE: *Harlan M. Brown* TITLE: Landfarm Manager DATE: 12-18-00  
 Waste Management Facility Authorized Agent  
 TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: *Denny Faust* TITLE: Geologist DATE: 12/19/00  
 APPROVED BY: *[Signature]* TITLE: geologist DATE: 12-19-00

INSPECTION FOR N.O.R.M. CONTAMINATION  
PHILLIPS PETROLEUM COMPANY

Location: SS 29-4 #2 CPD Date: 12-11-00

Survey Instrument Model: <sup>Victor green</sup> 290 SN1145 Last Calibrated: 7/21/00

Item Description: Pigging waste

Number of Pieces: 20 bbls

Location Where Items Originated: 29-4 #2 CPD

Background Reading: .05 uR/hr

Highest NORM reading: .048 uR/hr

Lowest NORM reading: .039 uR/hr

Any samples taken, if so how many: \_\_\_\_\_

all Pieces inspected

all Pieces found to be free of NORM contamination

none Pieces found to have NORM contamination

Remarks: \_\_\_\_\_

Inspector: Tina Henderson

What is final disposition: No Norm

Released to: Envirotech Date: 12-11-00

cc:

RECEIVED DEC 11 2000

# CERTIFICATE OF WASTE STATUS

<b>1. Generator Name and Address:</b> Phillips Petroleum 5525 Hwy 64 Farmington, NM	<b>2. Destination Name:</b> Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico
<b>3. Originating Site (name):</b> <span style="float: right;"><b>Location of the Waste (Street address &amp;/or ULSTR):</b></span> <div style="text-align: center; font-size: 1.2em; margin-top: 10px;">                     20 B2/S From 29-6 #2 cpd                 </div> <p style="font-size: 0.8em; margin-top: 5px;">Attach list of originating sites as appropriate</p>	
<b>4. Source and Description of Waste</b> <div style="text-align: center; font-size: 1.2em; margin-top: 10px;">                     pipping waste - RCRA exempt                       NORM = .048 uR/hr                 </div>	

I, Robert Wiestand representative for:  
Phillips Petroleum Co. (Print Name)  
 do hereby certify that, according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July, 1988, regulatory determination, the above described waste is: (Check appropriate classification)

EXEMPT oilfield waste       NON-EXEMPT oilfield waste which is non-hazardous by characteristic analysis or by product identification

and that nothing has been added to the exempt or non-exempt non-hazardous waste defined above.

For **NON-EXEMPT** waste only the following documentation is attached (check appropriate items):

MSDS Information       Other (description):  
 RCRA Hazardous Waste Analysis  
 Chain of Custody

Name (Original Signature): Robert A. Wiest  
 Title: Sr. S&E Sp. Sr.  
 Date: 12/11/00

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 District III - (505) 334-6178  
 Rio Brazos Road  
 NM 87410  
 District IV - (505) 827-7131

New Mexico  
 Energy Minerals and Natural Resources Department  
 Oil Conservation Division  
 2040 South Pacheco Street  
 Santa Fe, New Mexico 87505  
 (505) 827-7131

Form C-138  
 Originated 8/8/95  
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 to appropriate  
 District Office

Env. JN: 97057-31

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input checked="" type="checkbox"/> Non-Exempt: <input type="checkbox"/> Verbal Approval Received: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> <i>Frank Casaway verbal 10.2.00 11:30 A.M.</i>	4. Generator <u>EDFS</u>
2. Management Facility Destination <u>Envirotech Soil Remediation Facility Landfarm #2</u>	5. Originating Site <u>Blanco Field Drop Storage</u>
3. Address of Facility Operator <u>5796 US Highway 64 Farmington, NM 87401</u>	6. Transporter <u>Mos, Excavating</u>
7. Location of Material (Street Address or ULSTR)	8. State <u>New Mexico</u> <u>N2N2 Sec 14, T29N, R11W</u> <u>Santa Juan County, NM</u>
9. <u>Circle One:</u> A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

*Soil contaminated with exempt pipeline liquids (salt water and condensate)*



Estimated Volume 40 cy Known Volume (to be entered by the operator at the end of the haul) 177 cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 12.5.00  
 Waste Management Facility Authorized Agent  
 TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Derry Joant TITLE: Geologist DATE: 12/5/00  
 APPROVED BY: [Signature] TITLE: geologist DATE: 12-5-00

## CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:  <p style="text-align: center;">El Paso Field Services Co. 614 Reilly Avenue Farmington, NM 87401</p>	2. Destination Name:  <p style="text-align: center;">Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico</p>
3. Originating Site (name):  Blanco Field Drip Storage	Location of Waste(Street address &/or ULSTR):  N/2 of N/2 of Sec 14, T29N, R11W, San Juan Co., NM
Attach list of originating sites as appropriate	
4. Source and Description of Waste  Soil contaminated with exempt pipeline liquids (mixed condensate and salt water).	

I, David Bays representative for:  
 (Print Name)

El Paso Field Services Co. do hereby certify that, according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July, 1988 regulatory determination, the above described waste is: (Check appropriate classification)

**EXEMPT** Oilfield waste       **NON-EXEMPT** oilfield waste which is non-hazardous by characteristic analysis or by product identification

and that nothing has been added to the exempt or non-hazardous waste defined above.

For **NON-EXEMPT** waste only, the following documentation is attached (check appropriate items):

MSDS Information       Other (description)  
 RCRA Hazardous Waste Analysis  
 Chain of Custody

Name (Original Signature): David Bays

Title: Principal Environmental Scientist

Date: December 5, 2000

District I - (505) 393-6161  
 P.O. Box 1980  
 Hobbs, NM 88241-1980  
 District II - (505) 748-1283  
 611 S. First  
 Artesia, NM 88210  
 District III - (505) 334-6178  
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 District IV - (505) 827-7131

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**REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE**

1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/> Verbal Approval Received: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	4. Generator <u>Hollis station ENERGY SERVICES</u>
2. Management Facility Destination <u>Envirotech Soil Remediation Facility Landfarm #2</u>	5. Originating Site <u>Wash Bay</u>
3. Address of Facility Operator <u>5796 US Highway 64 Farmington, NM 87401</u>	6. Transporter <u>Envirotech</u>
7. Location of Material (Street Address or ULSTR)	8. State <u>New Mexico</u>
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.  All transporters must certify the wastes delivered are only those consigned for transport.	

**BRIEF DESCRIPTION OF MATERIAL:**

*Continuation of wash bay solids disposal*



*I gave verbal approval for continuing operations in these weather conditions. (A37)*

Estimated Volume 40 cy Known Volume (to be entered by the operator at the end of the haul) 96 cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 11.21.00  
Waste Management Facility Authorized Agent  
 TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

*(This space for State Use)*

APPROVED BY: Denny G. Faint TITLE: Geologist DATE: 11/22/00  
 APPROVED BY: Monty J. Kirk TITLE: Environmental Geologist DATE: 11/28/00

District I - (505) 393-6161  
 P.O. Box 1980  
 Hobbs, NM 88241-1980  
 District II - (505) 748-1283  
 811 S. First  
 Artesia, NM 88210  
 District III - (505) 334-6178  
 Rio Brazos Road  
 Socorro, NM 87410  
 District IV - (505) 827-7131

New Mexico  
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 Oil Conservation Division  
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 Originated 8/8/95

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 District Office

Env. JN: 92132

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/>	4. Generator <u>Hall's action ENERGY SERVICES</u>
Verbal Approval Received: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	5. Originating Site <u>Wash Bay</u>
2. Management Facility Destination <u>Envirotech Soil Remediation Facility Landfarm #2</u>	6. Transporter <u>Envirotech</u>
3. Address of Facility Operator <u>5796 US Highway 64 Farmington, NM 87401</u>	8. State <u>New Mexico</u>
7. Location of Material (Street Address or ULSTR)	<u>4109 E. Main St.</u>
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.  All transporters must certify the wastes delivered are only those consigned for transport.	<u>Farmington, NM 87401</u>

BRIEF DESCRIPTION OF MATERIAL:

Continuation of wash bay solids disposal



I gave verbal approval for continuing operations in these weather conditions.  
 Estimated Volume 40 cy Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_ cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 11-21-00  
 Waste Management Facility Authorized Agent  
 TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Denny G. Fent TITLE: Geologist DATE: 11/22/00

APPROVED BY: \_\_\_\_\_ TITLE: \_\_\_\_\_ DATE: \_\_\_\_\_



# NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION  
AZTEC DISTRICT OFFICE  
1000 RIO BRAZOS ROAD  
AZTEC, NEW MEXICO 87410  
(800) 334-6170 Fax (505) 334-6170

GARY E. JOHNSON  
GOVERNOR

JENNIFER A. SALISBURY  
CABINET SECRETARY

## CERTIFICATE OF WASTE STATUS

1. Generator Name and Address: <i>Halliburton Energy Services 4109 E Main Farmington NM 87401</i>	2. Destination Name: <i>Envirotech Inc. Soil Remediation Remediation Facility Landfarm #2, Hilltop, New Mexico 5796 US Hwy 66 Farmington NM 87401</i>
3. Originating Site (name): <i>Wash Bay Same as above Holding Area</i> <small>Attach list of originating sites as appropriate</small>	Location of the Waste (Street address &/or ULSTR): <i>4109 E Main Farmington NM</i>
4. Source and Description of Wastes <i>Wash Bay Solids (continuation)</i>	

I, *Dore Hodges* representative for:

*Halliburton Energy Services*  
(Print Name)

do hereby certify that, according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July, 1988, regulatory determination, the above described waste is: (Check appropriate classification)

EXEMPT oilfield waste

NON-EXEMPT oilfield waste which is non-hazardous by characteristic analysis or by product identification

and that nothing has been added to the exempt or non-exempt non-hazardous waste defined above.

For NON-EXEMPT waste the following documentation is attached (check appropriate items):

- MSDS Information
- RCRA Hazardous Waste Analysis
- Chain of Custody

Other (description):

This waste is in compliance with Regulated Levels of Naturally Occurring Radioactive Material (NORM) pursuant to 20 NMAC 3.1 subpart 1403.C and D.

Name (Original Signature): *Dore Hodges*

Title: *Monteaux Supervisor*

Date: *11-21-00*



**REAFFIRMATION OF WASTE STATUS / NON-EXEMPT WASTE**

I hereby certify that the attached Request For Approval and Certificate of Waste Status are for materials generated using the same procedures and equipment employed to generate the waste on which Toxicity Characteristic Leaching Procedures (TCLP) analysis was performed. I further certify that said material is from operations in the immediate Four Corners area.

Date of TCLP 2-11-00

Printed Name DOUG HADGES

Title / Agency Interim Supervisor

Address 4109 E. Main

Farmington, NM

Signature [Handwritten Signature]

Date 11-21-00

# ENV ROTECH LABS

**PRACTICAL SOLUTIONS FOR A BETTER TOMORROW**

February 17, 2000

Mr. Doug Hodges  
Halliburton Energy Services  
4109 E. Main  
Farmington, NM 87402

Phone: (505) 325-3575

Client No.: 92132-01

Job No.: 213201

Dear Mr. Hodges,

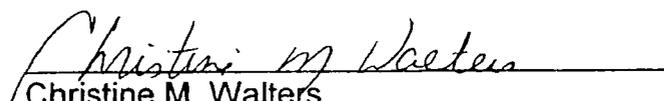
Enclosed are the analytical results for the sample collected from the location designated as "4109 E. Main, Farmington, NM". One sludge sample was collected by Envirotech personnel on 2/10/00, and received by the Envirotech laboratory on 2/10/00 for TCLP W/O Herbicides and Pesticides.

The sample was documented on Envirotech Chain of Custody No. 7673 and assigned Laboratory No. G811 (Wash Bay Sludge) for tracking purposes.

The sample was analyzed 2/10/00 through 2/16/00 using USEPA or equivalent methods.

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

Respectfully submitted,  
**Envirotech, Inc.**

  
Christine M. Walters  
Laboratory Coordinator / Environmental Scientist

enc.

CMW/cmw

C:/files/labreports/Hall.wpd

## SUSPECTED HAZARDOUS WASTE ANALYSIS

Client:	Halliburton Energy Services	Project #:	213201
Sample ID:	Wash Bay Sludge	Date Reported:	02-10-00
Lab ID#:	G811	Date Sampled:	02-10-00
Sample Matrix:	Sludge	Date Received:	02-10-00
Preservative:	Cool	Date Analyzed:	02-10-00
Condition:	Cool and Intact	Chain of Custody:	7673

Parameter	Result
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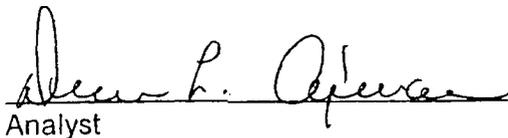
<b>IGNITABILITY:</b>	<b>Negative</b>	
<b>CORROSIVITY:</b>	<b>Negative</b>	<b>pH = 7.60</b>
<b>REACTIVITY:</b>	<b>Negative</b>	

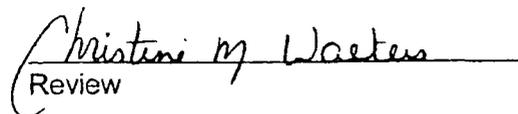
### RCRA Hazardous Waste Criteria

Parameter	Hazardous Waste Criterion
IGNITABILITY:	Characteristic of Ignitability as defined by 40 CFR, Subpart C, Sec. 261.21. (i.e. Sample ignition upon direct contact with flame or flash point < 60° C.)
CORROSIVITY:	Characteristic of Corrosivity as defined by 40 CFR, Subpart C, Sec. 261.22. (i.e. pH less than or equal to 2.0 or pH greater than or equal to 12.5)
REACTIVITY:	Characteristic of Reactivity as defined by 40 CFR, Subpart C, Sec. 261.23. (i.e. Violent reaction with water, strong base, strong acid, or the generation of Sulfide or Cyanide gases at STP with pH between 2.0 and 12.5)

Reference: 40 CFR part 261 Subpart C sections 261.21 - 261.23, July 1, 1992.

Comments: 4109 E. Main, Farmington, NM.

  
Analyst

  
Review

Client:	Halliburton Energy Services	Project #:	213201
Sample ID:	Wash Bay Sludge	Date Reported:	02-16-00
Laboratory Number:	G811	Date Sampled:	02-10-00
Chain of Custody:	7673	Date Received:	02-10-00
Sample Matrix:	TCLP Extract	Date Extracted:	02-11-00
Preservative:	Cool	Date Analyzed:	02-14-00
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	0.0429	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	0.0066	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

ND - Parameter not detected at the stated detection limit.

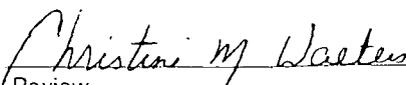
QA/QC Acceptance Criteria	Parameter	Percent Recovery
	Trifluorotoluene	98%
	Bromofluorobenzene	99%

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.  
Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994.  
Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Note: Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments: 4109 E. Main, Farmington, NM.

  
Analyst

  
Review

Client:	Halliburton Energy Services	Project #:	213201
Sample ID:	Wash Bay Sludge	Date Reported:	02-16-00
Laboratory Number:	G811	Date Sampled:	02-10-00
Chain of Custody:	7673	Date Received:	02-10-00
Sample Matrix:	TCLP Extract	Date Extracted:	02-11-00
Preservative:	Cool	Date Analyzed:	02-15-00
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	ND	0.020	200
p,m-Cresol	ND	0.040	200
2,4,6-Trichlorophenol	ND	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400
Pentachlorophenol	ND	0.020	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	2-Fluorophenol	98%
	2,4,6-Tribromophenol	99%

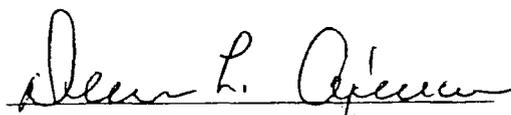
References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

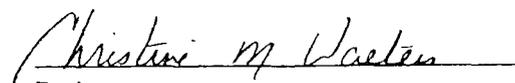
Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

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

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments: 4109 E. Main, Farmington, NM.

  
Analyst

  
Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8090  
Nitroaromatics and Cyclic Ketones  
TCLP Base/Neutral Organics

Client:	Halliburton Energy Services	Project #:	213201
Sample ID:	Wash Bay Sludge	Date Reported:	02-16-00
Laboratory Number:	G811	Date Sampled:	02-10-00
Chain of Custody:	7673	Date Received:	02-10-00
Sample Matrix:	TCLP Extract	Date Extracted:	02-11-00
Preservative:	Cool	Date Analyzed:	02-15-00
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	0.020	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

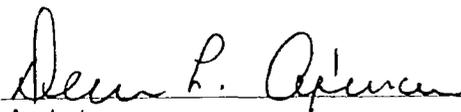
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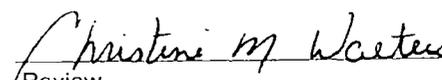
QA/QC Acceptance Criteria	Parameter	Percent Recovery
	2-fluorobiphenyl	96%

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.  
Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note: Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments: 4109 E. Main, Farmington, NM.

  
Analyst

  
Review

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

Client:	Halliburton Energy Services	Project #:	213201
Sample ID:	Wash Bay Sludge	Date Reported:	02-16-00
Laboratory Number:	G811	Date Sampled:	02-10-00
Chain of Custody:	7673	Date Received:	02-10-00
Sample Matrix:	TCLP Extract	Date Analyzed:	02-16-00
Preservative:	Cool	Date Extracted:	02-11-00
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
Arsenic	0.064	0.001	5.0
Barium	0.640	0.001	21
Cadmium	0.035	0.001	0.11
Chromium	0.024	0.001	0.60
Lead	0.034	0.001	0.75
Mercury	0.002	0.001	0.025
Selenium	0.021	0.001	5.7
Silver	0.019	0.001	0.14

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, December 1996.

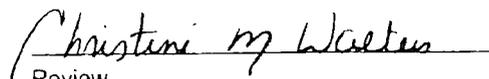
Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, December 1996.

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

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

Comments: 4109 E. Main, Farmington, NM.

  
Analyst

  
Review

**QUALITY ASSURANCE / QUALITY CONTROL**  
**DOCUMENTATION**

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	02-16-00
Laboratory Number:	02-14-TCV	Date Sampled:	N/A
Sample Matrix:	Water	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	02-14-00
Condition:	N/A	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	ND	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	ND	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

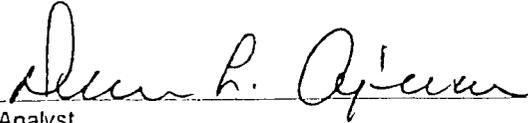
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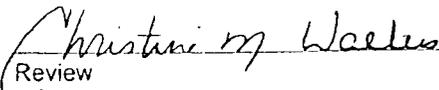
QA/QC Acceptance Criteria	Parameter	Percent Recovery
	Trifluorotoluene	100%
	Bromofluorobenzene	100%

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
 Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.  
 Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994.  
 Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Note: Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments: QA/QC for samples G810 - G811 and G836.

  
 Analyst

  
 Review

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	02-16-00
Laboratory Number:	02-11-TCV	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	02-14-00
Condition:	N/A	Date Extracted:	02-11-00
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	ND	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	ND	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

ND - Parameter not detected at the stated detection limit.

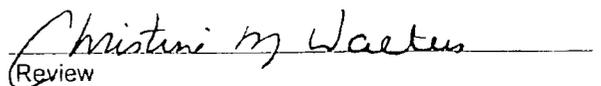
QA/QC Acceptance Criteria	Parameter	Percent Recovery
	Trifluorotoluene	99%
	Bromofluorobenzene	98%

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.  
Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994.  
Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Note: Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments: QA/QC for samples G810 - G811 and G836.

  
Analyst

  
Review

# ENVIROTECH LABS

**PRACTICAL SOLUTIONS FOR A BETTER TOMORROW**

EPA METHODS 8010/8020  
AROMATIC / HALOGENATED  
VOLATILE ORGANICS  
QUALITY ASSURANCE REPORT

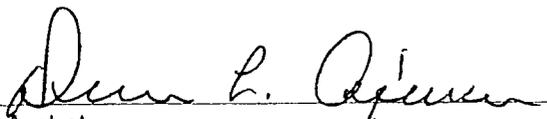
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Sample ID:	Matrix Duplicate	Date Reported:	02-16-00
Laboratory Number:	G810	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	02-14-00
Condition:	N/A	Date Extracted:	02-11-00

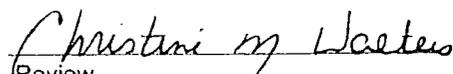
Parameter	Sample Result (mg/L)	Duplicate Sample Result (mg/L)	Detection Limits (mg/L)	Percent Difference
Vinyl Chloride	ND	ND	0.0001	0.0%
1,1-Dichloroethene	ND	ND	0.0001	0.0%
2-Butanone (MEK)	0.0129	0.0129	0.0001	0.0%
Chloroform	ND	ND	0.0001	0.0%
Carbon Tetrachloride	ND	ND	0.0001	0.0%
Benzene	0.0038	0.0038	0.0001	0.0%
1,2-Dichloroethane	ND	ND	0.0001	0.0%
Trichloroethene	ND	ND	0.0003	0.0%
Tetrachloroethene	ND	ND	0.0005	0.0%
Chlorobenzene	ND	ND	0.0003	0.0%
1,4-Dichlorobenzene	ND	ND	0.0002	0.0%

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.  
Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994.  
Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Comments: QA/QC for samples G810 - G811 and G836.

  
Analyst

  
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# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHODS 8010/8020  
AROMATIC / HALOGENATED  
VOLATILE ORGANICS  
QUALITY ASSURANCE REPORT

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Spike	Date Reported:	02-16-00
Laboratory Number:	G810	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	02-14-00
Condition:	N/A	Date Extracted:	02-11-00

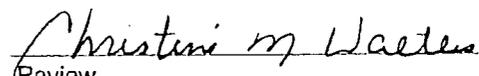
Parameter	Sample Result (mg/L)	Spike Added (mg/L)	Spiked Sample Result (mg/L)	Det. Limit (mg/L)	Percent Recovery	SW-846 % Rec. Accept. Range
Vinyl Chloride	ND	0.050	0.0495	0.0001	99%	28-163
1,1-Dichloroethene	ND	0.050	0.0494	0.0001	99%	43-143
2-Butanone (MEK)	0.0129	0.050	0.0624	0.0001	99%	47-132
Chloroform	ND	0.050	0.0498	0.0001	100%	49-133
Carbon Tetrachloride	ND	0.050	0.0491	0.0001	98%	43-143
Benzene	0.0038	0.050	0.0536	0.0001	100%	39-150
1,2-Dichloroethane	ND	0.050	0.0494	0.0001	99%	51-147
Trichloroethene	ND	0.050	0.0494	0.0003	99%	35-146
Tetrachloroethene	ND	0.050	0.0494	0.0005	99%	26-162
Chlorobenzene	ND	0.050	0.0494	0.0003	99%	38-150
1,4-Dichlorobenzene	ND	0.050	0.0494	0.0002	99%	42-143

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.  
Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994.  
Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Comments: QA/QC for samples G810 - G811 and G836.

  
Analyst

  
Review

EPA METHOD 8040  
PHENOLS  
Quality Assurance Report  
Laboratory Blank

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	02-16-00
Laboratory Number:	02-15-TCA	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	02-15-00
Condition:	N/A	Analysis Requested:	TCLP

Analytical Results	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limit (mg/L)
Parameter			
o-Cresol	ND	0.020	200
p,m-Cresol	ND	0.040	200
2,4,6-Trichlorophenol	ND	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400
Pentachlorophenol	ND	0.020	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	2-fluorophenol	98 %
	2,4,6-tribromophenol	99 %

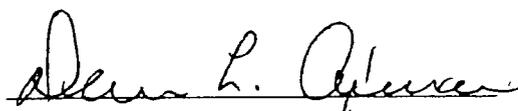
References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

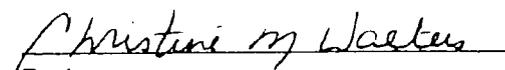
Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

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

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments: QA/QC for samples G810 - G811 and G836.

  
Analyst

  
Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA METHOD 8040 PHENOLS Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	02-16-00
Laboratory Number:	02-11-TCA	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	02-11-00
Condition:	Cool & Intact	Date Analyzed:	02-15-00
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	ND	0.020	200
p,m-Cresol	ND	0.040	200
2,4,6-Trichlorophenol	ND	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400
Pentachlorophenol	ND	0.020	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	2-Fluorophenol	98%
	2,4,6-Tribromophenol	99%

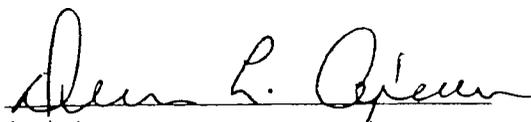
References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

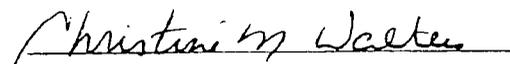
Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

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

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments: QA/QC for samples G810 - G811 and G836.

  
Analyst

  
Review

EPA METHOD 8040  
PHENOLS  
Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	02-16-00
Laboratory Number:	G810	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	02-11-00
Condition:	Cool & Intact	Date Analyzed:	02-15-00
		Analysis Requested:	TCLP

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Detection Limit (mg/L)	Percent Difference
o-Cresol	ND	ND	0.020	0.0%
p,m-Cresol	ND	ND	0.040	0.0%
2,4,6-Trichlorophenol	ND	ND	0.020	0.0%
2,4,5-Trichlorophenol	ND	ND	0.020	0.0%
Pentachlorophenol	ND	ND	0.020	0.0%

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Maximum Difference
	8040 Compounds	30.0%

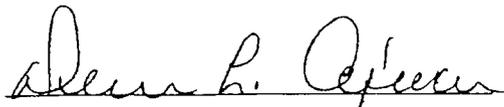
References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

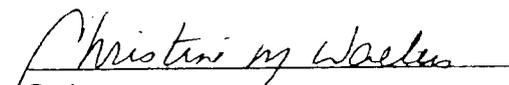
Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

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

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments: QA/QC for samples G810 - G811 and G836.

  
Analyst

  
Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA Method 8090 Nitroaromatics and Cyclic Ketones TCLP Base/Neutral Organics Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	02-16-00
Laboratory Number:	02-15-TBN	Date Sampled:	N/A
Sample Matrix:	Hexane	Date Received:	N/A
Preservative:	N/A	Date Extracted:	N/A
Condition:	N/A	Date Analyzed:	02-15-00
		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	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

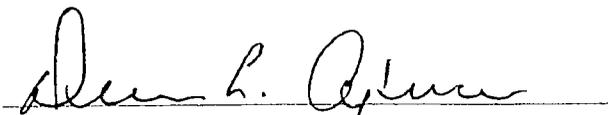
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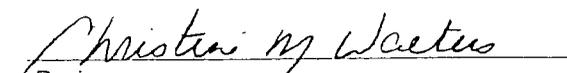
QA/QC Acceptance Criteria	Parameter	Percent Recovery
	2-fluorobiphenyl	97%

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.  
Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note: Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments: QA/QC for samples G810 - G811 and G836.

  
Analyst

  
Review

# ENVIROTECH LABS

**PRACTICAL SOLUTIONS FOR A BETTER TOMORROW**

EPA Method 8090  
Nitroaromatics and Cyclic Ketones  
TCLP Base/Neutral Organics  
QUALITY ASSURANCE REPORT

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	02-16-00
Laboratory Number:	02-11-TBN	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	02-11-00
Condition:	Cool and Intact	Date Analyzed:	02-15-00
		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	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

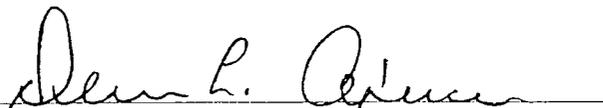
ND - Parameter not detected at the stated detection limit.

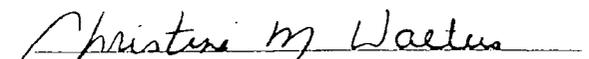
QA/QC Acceptance Criteria	Parameter	Percent Recovery
	2-fluorobiphenyl	96%

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.  
Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note: Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments: QA/QC for samples G810 - G811 and G836.

  
Analyst

  
Review

**EPA Method 8090  
Nitroaromatics and Cyclic Ketones  
TCLP Base/Neutral Organics  
QA/QC Matrix Duplicate Report**

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	02-16-00
Laboratory Number:	G810	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Extracted:	02-11-00
Condition:	N/A	Date Analyzed:	02-15-00
		Analysis Requested:	TCLP

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Percent Difference	Det. Limit (mg/L)
Pyridine	ND	ND	0.0%	0.020
Hexachloroethane	ND	ND	0.0%	0.020
Nitrobenzene	ND	ND	0.0%	0.020
Hexachlorobutadiene	ND	ND	0.0%	0.020
2,4-Dinitrotoluene	ND	ND	0.0%	0.020
HexachloroBenzene	ND	ND	0.0%	0.020

ND - Parameter not detected at the stated detection limit.

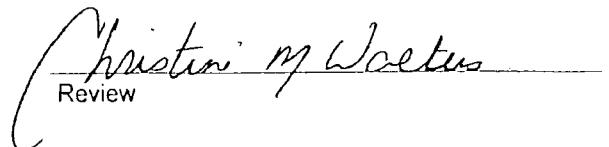
QA/QC Acceptance Criteria	Parameter	Maximum Difference
	8090 Compounds	30%

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.  
Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note: Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments: QA/QC for samples G810 - G811 and G836.

  
Analyst

  
Review

EPA METHOD 1311  
TOXICITY CHARACTERISTIC  
LEACHING PROCEDURE  
TRACE METAL ANALYSIS  
Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	02-16-TCM QA/QC	Date Reported:	02-16-00
Laboratory Number:	G810	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP Metals	Date Analyzed:	02-16-00
Condition:	N/A	Date Extracted:	N/A

Blank & Duplicate Conc. (mg/L)	Instrument Blank	Method Blank	Detection Limit	Sample	Duplicate	% Diff.	Acceptance Range
Arsenic	ND	ND	0.001	0.067	0.066	1.5%	0% - 30%
Barium	ND	ND	0.001	0.585	0.582	0.5%	0% - 30%
Cadmium	ND	ND	0.001	0.035	0.035	0.0%	0% - 30%
Chromium	ND	ND	0.001	0.022	0.022	0.0%	0% - 30%
Lead	ND	ND	0.001	0.031	0.031	0.0%	0% - 30%
Mercury	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Selenium	ND	ND	0.001	0.037	0.036	2.7%	0% - 30%
Silver	ND	ND	0.001	0.016	0.016	0.0%	0% - 30%

Spike Conc. (mg/L)	Spike Added	Sample	Spiked Sample	Percent Recovery	Acceptance Range
Arsenic	0.500	0.067	0.566	99.8%	80% - 120%
Barium	0.500	0.585	1.08	99.8%	80% - 120%
Cadmium	0.500	0.035	0.534	99.8%	80% - 120%
Chromium	0.500	0.022	0.521	99.8%	80% - 120%
Lead	0.500	0.031	0.530	99.8%	80% - 120%
Mercury	0.050	ND	0.049	98.0%	80% - 120%
Selenium	0.500	0.037	0.535	99.6%	80% - 120%
Silver	0.500	0.016	0.515	99.8%	80% - 120%

ND - Parameter not detected at the stated detection limit.

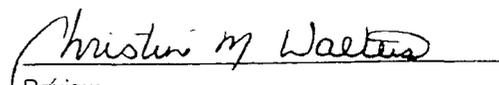
References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, Dec. 1996

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, December 1996.

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

Comments: QA/QC for samples G810 - G811 and G836.

  
Analyst

  
Review

# CHAIN OF CUSTODY RECORD

7673

Client / Project Name			Project Location		ANALYSIS / PARAMETERS							
Halliburton Energy Services			4109 E Main Farmington, NM									
Sampler:			Client No.		No. of Containers	TEMP	w/ HDA					Remarks
Harlan M. Brown			92132-01									
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix								
Wash Bay Sludge	02-10-00	9:10	6811	Sludge	1	✓						
Relinquished by: (Signature)			Date	Time	Received by: (Signature)				Date	Time		
Harlan M. Brown			02-10-00	10:05	Drew L. O'Brien				2-10-00	10:05		
Relinquished by: (Signature)					Received by: (Signature)							
Relinquished by: (Signature)					Received by: (Signature)							
<b>ENVIROTECH INC.</b> 5796 U.S. Highway 64 Farmington, New Mexico 87401 (505) 632-0615								Sample Receipt				
									Y	N	N/A	
								Received Intact	✓			
								Cool - Ice/Blue Ice	✓			

District I - (505) 393-6161  
 P.O. Box 1980  
 Hobbs, NM 88241-1980  
 District II - (505) 748-1283  
 811 S. First  
 Artesia, NM 88210  
 District III - (505) 334-6178  
 Rio Brazos Road  
 NM 87410  
 District IV - (505) 827-7131

New Mexico  
 Energy Minerals and Natural Resources Department  
 Oil Conservation Division  
 2040 South Pacheco Street  
 Santa Fe, New Mexico 87505  
 (505) 827-7131

Form C-138  
 Originated 8/8/95  
 Submit Original  
 Plus 1 Copy  
 to appropriate  
 District Office

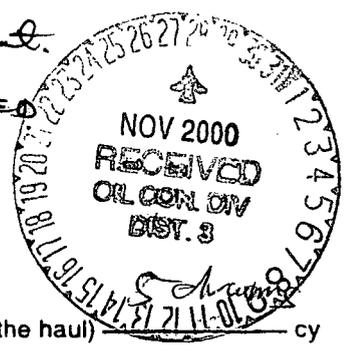
Env. JN: 97018

**REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE**

1. RCRA Exempt: <input checked="" type="checkbox"/> Non-Exempt: <input type="checkbox"/> Verbal Approval Received: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Donny Faust 11.15.00 8:55 A.M. 4. Generator <u>NATCO</u> 5. Originating Site <u>Haris Yard</u> 6. Transporter <u>Envirotech</u> 8. State <u>New Mexico</u>
2. Management Facility Destination <u>Envirotech Soil Remediation Facility Landfarm #2</u>	7. Location of Material (Street Address or ULSTR) <u>2855 Southside Boulevard Farmington, NM 87401</u>
3. Address of Facility Operator <u>5796 US Highway 64 Farmington, NM 87401</u>	9. <u>Circle One:</u> A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.
All transporters must certify the wastes delivered are only those consigned for transport.	

**BRIEF DESCRIPTION OF MATERIAL:**

*Combination of disposal of petroleum hydrocarbon contaminated solids & scale generated during cleaning & refurbishing of oil field downhole gas production equipment. Norms analysis & equipment list attached.*



Estimated Volume \_\_\_\_\_ cy Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_ cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 11.27.00  
 Waste Management Facility Authorized Agent  
 TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

*(This space for State Use)*

APPROVED BY: <u>Donny Faust</u>	TITLE: <u>Geologist</u>	DATE: <u>11/28/00</u>
APPROVED BY: <u>[Signature]</u>	TITLE: <u>geologist</u>	DATE: <u>11-28-00</u>

RECEIVED NOV 22 2000

# CERTIFICATE OF WASTE STATUS

<b>1. Generator Name and Address:</b> Natco, 2855 Southside River RD	<b>2. Destination Name:</b> Equitrol Inc 5796 U.S. HWY 64 Farmington, NJ 87401 LADFRM #2
<b>3. Originating Site (name):</b> Solid generated during the cleaning of oil and gas production equipment, at Natco, s yard. <b>Location of the Waste (Street address &amp;/or ULSTR):</b> Attach list of originating sites as appropriate	
<b>4. Source and Description of Waste</b> Contaminated dirt and sluge, from various locations see attached list.	

I, Richard Lambert representative for:  
 National Tank Co. Farmington (Print Name)

do hereby certify that, according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July, 1988, regulatory determination, the above described waste is: (Check appropriate classification)

EXEMPT oilfield waste       NON-EXEMPT oilfield waste which is non-hazardous by characteristic analysis or by product identification

and that nothing has been added to the exempt or non-exempt non-hazardous waste defined above.

For NON-EXEMPT waste only the following documentation is attached (check appropriate items):

- MSDS Information
- RCRA Hazardous Waste Analysis
- Chain of Custody
- Other (description):

Name (Original Signature): [Signature]  
 Title: QC / shop Supervisor  
 Date: 11/14/00





INSPECTION FOR N.O.R.M. CONTAMINATION

Location: Plates Yard (Black Area) Date: 10-26-00

Survey instrument model: Ludlum 3-98 Last calibrated: 10-10-00

Item description: Blue Disposal Bag

Number of pieces: 1

Location where items originated: Separators

Background reading: 13.5 uR/hr

Highest NORM reading: 16.0 uR/hr (corrected for background)

Lowest NORM reading: 13.5 uR/hr (corrected for background)

Any samples taken? If so, how many? 0

1 Pieces inspected.

1 Pieces found to be free of NORM contamination.

0 Pieces found to have NORM contamination.

Remarks:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Inspector: James S. [Signature]

What is final disposition? Bag is ok to be disposed of

Released to: Whom it may concern Date: 10-26-00



**INSPECTION FOR N.O.R.M. CONTAMINATION**

Location: Natco's Yard (Wash Rack) Date: 10-26-00

Survey instrument model: Ludlum 3-98 Last calibrated: 11-10-00

Item description: Blue Disposal Barrel

Number of pieces: 1

Location where items originated: Separators

Background reading: 13.5 uR/hr

Highest NORM reading: 16.5 uR/hr (corrected for background)

Lowest NORM reading: 14.0 uR/hr (corrected for background)

Any samples taken? If so, how many? 0

1 Pieces inspected.

1 Pieces found to be free of NORM contamination.

0 Pieces found to have NORM contamination.

Remarks:  
\_\_\_\_\_  
\_\_\_\_\_

Inspector: James J. [Signature]

What is final disposition? Barrel is ok to be disposed of.

Released to: When it may concern Date: 10-26-00



**INSPECTION FOR N.O.R.M. CONTAMINATION**

Location: Natco Yard (West Rack) Date: 10-26-00

Survey instrument model: Luciton 3-78 Last calibrated: 12-10-00

Item description: Blue Polypropylene Bag

Number of pieces: 1

Location where items originated: Supermarket

Background reading: 13.5 uR/hr

Highest NORM reading: 19.5 uR/hr (corrected for background)

Lowest NORM reading: 14.0 uR/hr (corrected for background)

Any samples taken? If so, how many? 0

1 Pieces inspected.

1 Pieces found to be free of NORM contamination.

0 Pieces found to have NORM contamination.

Remarks:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Inspector: Jim S. Myerson

What is final disposition? Bag is ok to be disposed of

Released to: When it may concern. Date: 10-26-00



**INSPECTION FOR N.O.R.M. CONTAMINATION**

Location: Natco's Yard (Wash Park) Date: 10-26-00

Survey instrument model: Ludlum 3-98 Last calibrated: 10-10-00

Item description: Blue Disposal Barrel

Number of pieces: 1

Location where items originated: Separators

Background reading: 13.5 uR/hr

Highest NORM reading: 16.0 uR/hr (corrected for background)

Lowest NORM reading: 13.5 uR/hr (corrected for background)

Any samples taken? If so, how many? 0

1 Pieces inspected.

1 Pieces found to be free of NORM contamination.

0 Pieces found to have NORM contamination.

Remarks:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Inspector: [Signature]

What is final disposition? Barrel is ok to be disposed of

Released to: Whom it may concern Date: 10-26-00

# NATCO

## INSPECTION FOR N.O.R.M. CONTAMINATION

Location: Nate's Yard (West End) Date: 10-26-00

Survey instrument model: Ludlum 3-98 Last calibrated: 10-10-00

Item description: Blue Disposal Barrel

Number of pieces: 1

Location where items originated: Separators

Background reading: 13.5 uR/hr

Highest NORM reading: 16.0 uR/hr (corrected for background)

Lowest NORM reading: 13.5 uR/hr (corrected for background)

Any samples taken? If so, how many? 0

1 Pieces inspected.

1 Pieces found to be free of NORM contamination.

0 Pieces found to have NORM contamination.

Remarks:

Inspector: John A. [Signature]

What is final disposition? Barrel is ok to be disposed of.

Released to: When it my concern Date: 10-26-00

District I - (505) 393-6161  
 P.O. Box 1980  
 Hobbs, NM 88241-1980  
 District II - (505) 748-1283  
 811 S. First  
 Artesia, NM 88210  
 District III - (505) 334-6178  
 Rio Brazos Road  
 Roswell, NM 87410  
 District IV - (505) 827-7131

New Mexico  
 Energy, Minerals and Natural Resources Department  
 Oil Conservation Division  
 2040 South Pacheco Street  
 Santa Fe, New Mexico 87505  
 (505) 827-7131

Form C-138  
 Originated 8/8/95

Submit Original  
 Plus 1 Copy  
 to appropriate  
 District Office

Env. JN: 95031

**REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE**

1. RCRA Exempt: <input checked="" type="checkbox"/> Non-Exempt: <input type="checkbox"/> Verbal Approval Received: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	4. Generator <u>Red Cedar Greeneries</u> 5. Originating Site <u>4A-20 C.D.</u>
2. Management Facility Destination <u>Envirotech Soil Remediation Facility Landfarm #2</u>	6. Transporter <u>Envirotech</u>
3. Address of Facility Operator <u>5796 US Highway 64 Farmington, NM 87401</u>	8. State <u>Colorado</u>
7. Location of Material (Street Address or ULSTR)	<u>Sec 16, T 33 N, R 9 W</u> <u>Uplata County, Co.</u>
9. <u>Circle One:</u> A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.  All transporters must certify the wastes delivered are only those consigned for transport.	

**BRIEF DESCRIPTION OF MATERIAL:**

Petroleum Hydrocarbon Contaminated soil generated @ cleanup of water transfer line on 4A-20 C.D. strip.  
BIA acknowledgment Attached



Estimated Volume 4 drums cy Known Volume (to be entered by the operator at the end of the haul) 4 drums cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 11-15-00  
Waste Management Facility Authorized Agent  
 TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

*(This space for State Use)*

APPROVED BY: Denny Faust TITLE: Geologist DATE: 11/15/00  
 APPROVED BY: [Signature] TITLE: geologist DATE: 11/15/00



# NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION  
AZTEC DISTRICT OFFICE  
1000 RIO BRAZOS ROAD  
AZTEC, NEW MEXICO 87410  
(505) 334-6170 Fax (505) 334-4170

GARY E. JOHNSON  
GOVERNOR

JENNIFER A. SALISBURY  
CABINET SECRETARY

## CERTIFICATE OF WASTE STATUS

<p>1. Generator Name and Address:  <u>RED CEDAR GATHERING</u>  <u>26266 Hwy 160</u>  <u>Durango, CO 81302</u></p>	<p>2. Destination Name:          Envirotech Inc.          Soil Remediation Remediation Facility          Landfarm #2, Hilltop, New Mexico  <u>5796 US Hwy 64, Farmington, NM 87401</u></p>
<p>3. Originating Site (name):  <u>4A-20 Live Drip</u>  <u>Sec 16, T 33N, R 9W</u>  <u>La Plata County, Colorado</u>  <small>Attach list of originating sites as appropriate</small></p>	<p>Location of the Waste (Street address &amp;/or ULSTR):</p>
<p>4. Source and Description of Waste  <u>LINE Drain @ Live Drip. Residual water &amp; contamination</u>  <u>related to natural gas well drip transfer of water</u>  <u>from Live Drip to Tank and draining 1" line to prevent</u>  <u>freezing.</u></p>	

I, Steward Young representative for:  
(Print Name)

RED CEDAR GATHERING do hereby certify that, according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July, 1988, regulatory determination, the above described waste is: (Check appropriate classification)

EXEMPT oilfield waste       NON-EXEMPT oilfield waste which is non-hazardous by characteristic analysis or by product identification

and that nothing has been added to the exempt or non-exempt non-hazardous waste defined above.

For NON-EXEMPT waste the following documentation is attached (check appropriate items):

- MSDS Information       Other (description):
- RCRA Hazardous Waste Analysis
- Chain of Custody

This waste is in compliance with Regulated Levels of Naturally Occurring Radioactive Material (NORM) pursuant to 20 NMAC 3.1 subpart 1403.C and D.

Name (Original Signature): [Signature]

Title: SAPPT 1 BRUIER AND MARY

**CERTIFICATE FROM OUT OF STATE AGENCY AUTHORIZING REMOVAL OF RCRA EXEMPT OILFIELD WASTE FROM THEIR JURISDICTION TO NEW MEXICO**

I have reviewed the enclosed information concerning the oilfield waste material from the 4A-20 Line Drip @ Sec. 16 of T33N, R9W and agree that by its description it is non-hazardous and therefore exempt from regulation by the Resource Conservation and Recovery Act (RCRA) and my jurisdictions rules, regulations or statutes.

The material is exempt from regulation because it is classified as non-hazardous waste by definition

The material is exempt from regulation by characteristic analyses

This material is exempt from regulation by product identification

**THEREFORE:**

As a representative for the Bureau of Indian Affairs, I have no objection to the material being removed to New Mexico.

**NAME:** Kenneth J. Young

**TITLE:** Acting Superintendent

**SIGNATURE:**

*Kenneth J. Young*

**DATE:**

11-7-00

**AGENCY:** Bureau of Indian Affairs, Southern Ute Agency

**ADDRESS:** P.O. Box 315, Ignacio, CO 81137

**PHONE:** (970) 583-4514

New Mexico  
Energy, Minerals and Natural Resources Department  
Oil Conservation Division  
2040 South Pacheco Street  
Santa Fe, New Mexico 87505  
(505) 827-7131

Submit Original  
Plus 1 Copy  
to appropriate  
District Office

Env. JN: \_\_\_\_\_

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input checked="" type="checkbox"/> Non-Exempt: <input type="checkbox"/>	<i>Denny Faust. 11.15.00 8:55 AM.</i>	4. Generator <i>Natco</i>
Verbal Approval Received: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		5. Originating Site <i>Various Overhaul Pieces</i>
2. Management Facility Destination <i>Envirotech Soil Remediation Facility Landfarm #2</i>		6. Transporter <i>Envirotech</i>
3. Address of Facility Operator <i>5796 US Highway 64 Farmington, NM 87401</i>		8. State <i>New Mexico</i>
7. Location of Material (Street Address or ULSTR)		<i>2855 Southside River Rd Farmington, NM</i>
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.  All transporters must certify the wastes delivered are only those consigned for transport.		

BRIEF DESCRIPTION OF MATERIAL:

*Solids & scale generated as a result of refurbishing oil & gas production equipment.  
Norms analysis attached  
List of producers and locations attached*



Estimated Volume 5 drums cy Known Volume (to be entered by the operator at the end of the haul) 5 drums cy

SIGNATURE: *Harlan M. Brown* TITLE: Landfarm Manager DATE: 11.15.00  
 Waste Management Facility Authorized Agent  
 TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: *Denny Faust* TITLE: Geologist DATE: 11/15/00  
 APPROVED BY: *Harlan M. Brown* TITLE: geologist DATE: 1/15/00

# CERTIFICATE OF WASTE STATUS

<b>1. Generator Name and Address:</b> Natco, 2855 Southside River RD	<b>2. Destination Name:</b> ENVirotech Soil Remediation Facility Landfarm #2 5796 U.S. Hwy 64 Farmington NH. 07401
<b>3. Originating Site (name):</b> Solid generated during the cleaning of oil and gas production equipment, at Natco, s yard.	<b>Location of the Waste (Street address &amp;/or ULSTN):</b>  Attach list of originating sites as appropriate
<b>4. Source and Description of Waste</b> Contaminated dirt and sluge, from various locations see attached list.	

I, Richard Lambert representative for: National Tank Co. Farmington do hereby certify that, according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July, 1988, regulatory determination, the above described waste is: (Check appropriate classification)

EXEMPT oilfield waste       NON-EXEMPT oilfield waste which is non-hazardous by characteristic analysis or by product identification

and that nothing has been added to the exempt or non-exempt non-hazardous waste defined above.

For NON-EXEMPT waste only the following documentation is attached (check appropriate items):

- MSDS Information
- RCRA Hazardous Waste Analysis
- Chain of Custody
- Other (description):

Name (Original Signature): [Signature]  
 Title: QC/Shop Supervisor  
 Date: 11/14/00





INSPECTION FOR N.O.R.M. CONTAMINATION

Location: Auto's Yard (West End) Date: 10-26-00

Survey instrument model: Ludlum 3-98 Last calibrated: 10-10-00

Item description: Blue Disposal Bag

Number of pieces: 1

Location where items originated: Separators

Background reading: 13.5 uR/hr

Highest NORM reading: 16.0 uR/hr (corrected for background)

Lowest NORM reading: 13.5 uR/hr (corrected for background)

Any samples taken? If so, how many? 0

1 Pieces inspected.

1 Pieces found to be free of NORM contamination.

0 Pieces found to have NORM contamination.

Remarks:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Inspector: Jan A. [Signature]

What is final disposition? Bag is ok to be disposed of.

Released to: Alan J. [Signature] Date: 10-26-00



INSPECTION FOR N.O.R.M. CONTAMINATION

Location: Natick Road (Black h.c.) Date: 10-26-00

Survey instrument model: Ludlum-3-98 Last calibrated: 10-10-00

Item description: Blue Disposal sack

Number of pieces: 1

Location where items originated: Separation

Background reading: 13.5 uR/hr

Highest NORM reading: 16.0 uR/hr (corrected for background)

Lowest NORM reading: 13.5 uR/hr (corrected for background)

Any samples taken? If so, how many? 0

1 Pieces inspected.

1 Pieces found to be free of NORM contamination.

0 Pieces found to have NORM contamination.

Remarks:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Inspector: James A. [Signature]

What is final disposition? Sack is ok to be disposed of

Released to: Whom it may Concern Date: 10-26-00



INSPECTION FOR N.O.R.M. CONTAMINATION

Location: Natco's Yard (Black Buck) Date: 10-26-00

Survey instrument model: Ludlum 3-98 Last calibrated: 10-10-00

Item description: Blue Disposal Barrel

Number of pieces: 1

Location where items originated: Separators

Background reading: 13.5 uR/hr

Highest NORM reading: 16.5 uR/hr (corrected for background)

Lowest NORM reading: 14.0 uR/hr (corrected for background)

Any samples taken? If so, how many? 0

1 Pieces inspected.

1 Pieces found to be free of NORM contamination.

0 Pieces found to have NORM contamination.

Remarks:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Inspector: [Signature]

What is final disposition? Barrel is ok to be disposed of.

Released to: When it may concern Date: 10-26-00



**INSPECTION FOR N.O.R.M. CONTAMINATION**

Location: Natco Yard (Wash Rock) Date: 10-26-00

Survey instrument model: Lutron 3-98 Last calibrated: 10-10-00

Item description: Blue Disposal Bag

Number of pieces: 1

Location where items originated: Supermarket

Background reading: 13.5 uR/hr

Highest NORM reading: 19.5 uR/hr (corrected for background)

Lowest NORM reading: 14.0 uR/hr (corrected for background)

Any samples taken? If so, how many? 0

1 Pieces inspected.

1 Pieces found to be free of NORM contamination.

0 Pieces found to have NORM contamination.

Remarks:  
\_\_\_\_\_  
\_\_\_\_\_

Inspector: James J. [Signature]

What is final disposition? Bag is ok to be disposed of

Released to: Whom it may Concern. Date: 10-26-00



**INSPECTION FOR N.O.R.M. CONTAMINATION**

Location: Natco's Yard (West Side) Date: 10-26-00

Survey instrument model: Ludlum 3-98 Last calibrated: 10-10-00

Item description: Blue Disposal Bag

Number of pieces: 1

Location where items originated: Separators

Background reading: 13.5 uR/hr

Highest NORM reading: 16.0 uR/hr (corrected for background)

Lowest NORM reading: 13.5 uR/hr (corrected for background)

Any samples taken? If so, how many? 0

1 Pieces inspected.

1 Pieces found to be free of NORM contamination.

0 Pieces found to have NORM contamination.

Remarks:

Inspector: [Signature]

What is final disposition? Bag is ok to be disposed of

Released to: When it may be used Date: 10-26-00

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 Hobbs, NM 88241-1980  
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 District III - (505) 334-6178  
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 NM 87410  
 District IV - (505) 827-7131

New Mexico  
 Energy Minerals and Natural Resources Department  
 Oil Conservation Division  
 2040 South Pacheco Street  
 Santa Fe, New Mexico 87505  
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Submit Original  
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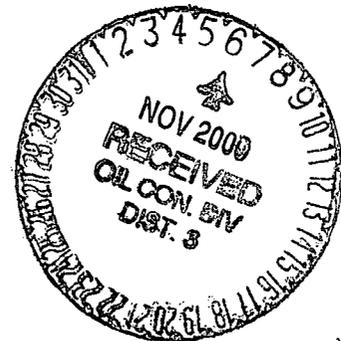
Env. JN: 96052-03

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input checked="" type="checkbox"/> Non-Exempt: <input type="checkbox"/> Verbal Approval Received: Yes <input type="checkbox"/> No <input type="checkbox"/>	Denny Foust. 10.25.00 7:30 a.m.	4. Generator Phillips Petroleum
2. Management Facility Destination Envirotech Soil Remediation Facility Landfarm #2	5. Originating Site 29-C-#301 SWO	6. Transporter Key Energy
3. Address of Facility Operator 5796 US Highway 64 Farmington, NM 87401	7. Location of Material (Street Address or ULSTR)	8. State New Mexico
9. <u>Circle One:</u> A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.		"P" Sec 2, T29N R6W Rio Arriba Co

BRIEF DESCRIPTION OF MATERIAL:

Sludge generated @ Saltwater Disposal  
 Norms Analysis ATTACHED.



Estimated Volume 100 bbl cy Known Volume (to be entered by the operator at the end of the haul) 720 bbls cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 11.6.00  
 Waste Management Facility Authorized Agent  
 TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Denny Foust TITLE: Geologist DATE: 11/6/00  
 APPROVED BY: [Signature] TITLE: Geologist DATE: 11/6/00

### CERTIFICATE OF WASTE STATUS

<b>1. Generator Name and Address:</b> Phillips Petroleum Co. 5525 HWY 64, 3004 Farmington, N.M. 87401	<b>2. Destination Name:</b> ENURITECH Land FARM OFF Hwy 44 @ Angel Peaks South of Bloomfield, NM Tele 622-0615
--	--

**3. Originating Site (Name):**  
 Phillips water disposal site  
 29-6 #301

**4. Source and Description of Waste:**  
 Tank bottoms from settling tanks @ Facility  
 water is primarily trucked to this site from wells in one 29-6 unit

I, R.A. Wirtanen representative for:  
 (Print Name)

Phillips Petroleum do hereby certify that, according to the Resource Conservation Act (RCRA) and Environmental Protection Agency's July, 1998, regulatory determination, the above described waste is:  
 (Check appropriate classification)

EXEMPT oilfield waste  NON-EXEMPT oilfield waste which is non-hazardous by characteristic analysis or by product identification and that nothing has been added to the exempt non-hazardous waste defined above.

For EXEMPT waste only, the following documentation is attached (check appropriate items)  <input checked="" type="checkbox"/> NORM Survey <input type="checkbox"/> TCLP Analysis	For NON-EXEMPT waste only, the following documentation is attached (check appropriate items)  <input type="checkbox"/> MSDS Information <input type="checkbox"/> TCLP Analysis <input type="checkbox"/> Chain of Custody <input type="checkbox"/> NORM Survey <input type="checkbox"/> Other (description)
---	--

Name (Original Signature): *R.A. Wirtanen*  
 Title: Sr. Safety & Environmental Specialist  
 Date: 10/26/00

### INSPECTION FOR N.O.R.M. CONTAMINATION PHILLIPS PETROLEUM COMPANY

Location: 296 #301 SWD Date: 10/26/00  
Survey Instrument Model: Vicropeel SN 1145 Last Calibrated: 7/21/00

Item Description: Tank bottoms

Number of Pieces: ± 1000 Bbls  
Location Where Items Originated: 296 unit well sites

Background Reading: .03 uR/hr

Highest NORM reading: .028 uR/hr

Lowest NORM reading: .017 uR/hr

Any samples taken, if so how many: \_\_\_\_\_

<u>Representative samples</u>	Pieces inspected	<u>1000 Bbls (est 10 loads)</u>
<u>all</u>	Pieces found to be free of NORM contamination	
<u>none</u>	Pieces found to have NORM contamination	

Remarks: NONE

Inspector: RA W.A.

What is final disposition: \_\_\_\_\_

Released to: Key Tracking (R) Envir. Tech Landfarm Date: 10/26/00  
@ Angel Peak

cc:

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 P. O. Box 1980  
 Hobbs, NM 88241-1980  
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 District III - (505) 334-6178  
 Rio Brazos Road  
 NM 87410  
 District IV - (505) 827-7131

New Mexico  
 Energy Minerals and Natural Resources Department  
 Oil Conservation Division  
 2040 South Pacheco Street  
 Santa Fe, New Mexico 87505  
 (505) 827-7131

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 Originated 8/8/95

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Env. JN: 92142

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input checked="" type="checkbox"/> Non-Exempt: <input type="checkbox"/> Verbal Approval Received: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Danny Faust Just before 10.31.00 19.55	4. Generator <u>PESCO</u>
2. Management Facility Destination <u>Envirotech Soil Remediation Facility Landfarm #2</u>	5. Originating Site <u>STEAM TANKS HAYWARD</u>	6. Transporter <u>TBA</u>
3. Address of Facility Operator <u>5796 US Highway 64 Farmington, NM 87401</u>	8. State <u>New Mexico</u>	
7. Location of Material (Street Address or ULSTR)	<u>5680 Hwy 64 Farmington, NM.</u>	
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.		

BRIEF DESCRIPTION OF MATERIAL:

Solids generated from cleaning and refurbishing production storage tanks, separators, dehydrators, and other production equipment.  
 Norms Survey DATA SHEET Attached



Estimated Volume 100 bbls cy Known Volume (to be entered by the operator at the end of the haul) 240 bbls cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 10.31.00  
 Waste Management Facility Authorized Agent  
 TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Danny Faust TITLE: Geologist DATE: 11/1/00  
 APPROVED BY: [Signature] TITLE: Geologist DATE: 11/1/00

## CERTIFICATE OF WASTE STATUS

<b>1. Generator Name and Address:</b> PESCO 5680 Highway 64 Farmington, New Mexico 87401	<b>2. Destination Name:</b> Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico
<b>3. Originating Site (name):</b> Process Equipment & Service Company 5680 US Highway 64 Farmington, New Mexico 87401  Attach list of originating sites as appropriate	<b>Location of the Waste (Street address &amp;/or ULSTR):</b> Mainyard, stored in 55 gallon drums & 18 Cubic Foot Steel Boxes.
<b>4. Source and Description of Waste</b> Solids generated from cleaning and refurbishing production storage tanks, separators, dehydrators, and other production equipment.	

I, Gary Howe (Print Name) representative for: Process Equipment and Service Company, Inc. do hereby certify that, according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July, 1988, regulatory determination, the above described waste is: (Check appropriate classification)

EXEMPT oilfield waste       NON-EXEMPT oilfield waste which is non-hazardous by characteristic analysis or by product identification

and that nothing has been added to the exempt or non-exempt non-hazardous waste defined above.

For NON-EXEMPT waste only the following documentation is attached (check appropriate items):

- |  |   |
|--|---|
| <input type="checkbox"/> MSDS Information              | <input type="checkbox"/> Other (description): |
| <input type="checkbox"/> RCRA Hazardous Waste Analysis |   |
| <input type="checkbox"/> Chain of Custody              |   |

Name (Original Signature): *Gary W Howe*  
 Title: Safety Director  
 Date: 10-31-2000



# Process Equipment & Service Company, Inc.

5680 U.S. HIGHWAY 64 • 87401 / P.O. BOX 929 • 87499  
FARMINGTON, NEW MEXICO  
PHONE: (505) 327-2222 • FAX: (505) 327-7550

## NORM SURVEY DATA SHEET

Facility / location: PESCO Date: 10-31-2000

Meter Model: DOSIMETER 3007A Serial No: 9808-238

Detector Model: DOSIMETER 3012 Serial No: 201-887-7100

Calibration Date: 4-5-99

Battery Check: (X)

Background Radiation Level: 0.03 mR/hr

Description of material surveyed:

WASTE Sludge from STEAM CLEANER AREA

### Item / Material Surveyed:

Waste Material: 80 approx. gals bbls

Equipment: \_\_\_\_\_ mR/hr: 0.03

Manufacturer: \_\_\_\_\_

Serial No: \_\_\_\_\_

Description: \_\_\_\_\_

Job No: \_\_\_\_\_

Comments:

EXEMPT MATERIAL

Survey Conducted by: GARY W HOWE

(Print Name)

Gary W Howe

(Signature)

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New Mexico  
 Energy Minerals and Natural Resources Department  
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OCT 26 2000  
 Environmental Bureau  
 Oil Conservation Division  
 Env. JN: 92132-12

Submit Original  
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 District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/>	4. Generator <u>Halliburton Energy Services</u>
Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	5. Originating Site <u>Mainland</u>
2. Management Facility Destination <u>Envirotech Soil Remediation Facility Landfarm #2</u>	6. Transporter <u>Envirotech</u>
3. Address of Facility Operator <u>5796 US Highway 64 Farmington, NM 87401</u>	8. State <u>New Mexico</u>
7. Location of Material (Street Address or ULSTR)	<u>4109 E. Main St. Farmington NM.</u>
9. <u>Circle One:</u> A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

Clean up of diesel Residual from Acid Rock area and ~~E~~ Secondary Containment.  
 MSDS Attached.



Estimated Volume 2 drums cy Known Volume (to be entered by the operator at the end of the haul) 2 drums cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 10.23.00  
 Waste Management Facility Authorized Agent  
 TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Wendy Feunt TITLE: Geologist DATE: 10/24/00

APPROVED BY: Mark TITLE: Environmental DATE: 10/26/00

District I - (505) 393-6161  
 P.O. Box 1980  
 Hobbs, NM 88241-1980  
 District II - (505) 748-1283  
 811 S. First  
 Artesia, NM 88210  
 District III - (505) 334-6178  
 Rio Brazos Road  
 Roswell, NM 87410  
 District IV - (505) 827-7131

New Mexico  
 Energy Minerals and Natural Resources Department  
 Oil Conservation Division  
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Env. JN: 92132-12

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/>	4. Generator <u>Halliburton Energy Services</u>
Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	5. Originating Site <u>Main Yard</u>
2. Management Facility Destination <u>Envirotech Soil Remediation Facility Landfarm #2</u>	6. Transporter <u>Envirotech</u>
3. Address of Facility Operator <u>5796 US Highway 64 Farmington, NM 87401</u>	8. State <u>New Mexico</u>
7. Location of Material (Street Address or ULSTR)	<u>4109 E Main St</u>
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.  All transporters must certify the wastes delivered are only those consigned for transport.	<u>Farmington NM.</u>

BRIEF DESCRIPTION OF MATERIAL:

Clean up of diesel Residual from Acid Rock area and Secondary Containment.  
MSDS Attached.  
Acid



Estimated Volume 2 down cy Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_ cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 10.23.00  
 Waste Management Facility Authorized Agent  
 TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Denny Furt TITLE: Geologist DATE: 10/24/00

APPROVED BY: \_\_\_\_\_ TITLE: \_\_\_\_\_ DATE: \_\_\_\_\_

RECEIVED OCT 23 2000



# NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION  
AZTEC DISTRICT OFFICE  
1000 RIO BRAZOS ROAD  
AZTEC, NEW MEXICO 87410  
(505) 334-6170 Fax (505) 334-6170

GARY E. JOHNSON  
GOVERNOR

JENNIFER A. SALISBURY  
CABINET SECRETARY

## CERTIFICATE OF WASTE STATUS

<b>1. Generator Name and Address:</b> Halliburton Energy Service 4109 E. Main Street Farmington, NM 87402	<b>2. Destination Name:</b> Envirotech Inc. Soil Remediation Remediation Facility Landfarm #2, Hilltop, New Mexico 5796 US Hwy 64, Farmington, NM 87401
<b>3. Originating Site (name):</b> Halliburton Energy Service 4109 E. Main Street Farmington, NM 87402 <small>Attach list of originating sites as appropriate</small>	<b>Location of the Waste (Street address &amp;/or ULSTRI):</b>
<b>4. Source and Description of Waste</b> Absorbent Material from diesel spill.	

I, James L. Haney representative for:  
 (Print Name)  
Halliburton Energy Services do hereby certify that,  
 according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July,  
 1988, regulatory determination, the above described waste is: (Check appropriate classification)

EXEMPT oilfield waste

NON-EXEMPT oilfield waste which is non-hazardous by characteristic analysis or by product identification

and that nothing has been added to the exempt or non-exempt non-hazardous waste defined above.

For NON-EXEMPT waste the following documentation is attached (check appropriate items):

- MSDS Information
- RCRA Hazardous Waste Analysis
- Chain of Custody
- Other (description):

This waste is in compliance with Regulated Levels of Naturally Occurring Radioactive Material (NORM) pursuant to 20 NMAC 3.1 subpart 1403.C and D.

Name (Original Signature): Jan L. Haney

Title: Supervisor Shovel Service

Date: 10-20-00

MATERIAL SAFETY DATA SHEET
HALLIBURTON ENERGY SERVICES
DUNCAN, OKLAHOMA 73536

DATE: 10-20-00
REVISED DATE 04-07-99

EMERGENCY TELEPHONE: 800/666-9260 OR 580/251-3359
EMERGENCY TELEPHONE: 800/666-9260 OR 580/251-3359

SECTION I - PRODUCT DESCRIPTION

CHEMICAL CODE: DIESEL OIL - HAL-TANK PART NUMBER: 516003900
PKG QTY: 330 GALLON TANK APPLICATION: HYDROCARBON BASE
SERVICE USED: FRACTURING

SECTION II - COMPONENT INFORMATION

Table with 4 columns: COMPONENT, PERCENT, TLV, PEL. Row 1: DIESEL, > 60 %, NOT EST, NOT EST

SECTION III - PHYSICAL DATA

Table with 2 columns: PROPERTY, MEASUREMENT. Rows include APPEARANCE (CLEAR, COLORLESS LIQUID), ODOR (AMINE), SPECIFIC GRAVITY (0.840), BULK DENSITY (7.00 LB/GAL), PH (NOT DETERMINED), SOLUBILITY IN WATER AT 20 DEG C (NIL), BIODEGRADABILITY (SLOWLY), PERCENT VOLATILES (100), EVAPORATION RATE (1), VAPOR DENSITY (5-6), VAPOR PRESSURE (1.00), BOILING POINT (300 F / 148 C), POUR POINT (N/D), FREEZE POINT (N/D), SOLUBILITY IN SEAWATER (NOT EVALUATED), PARTITION COEF (NOT EVALUATED)

SECTION IV - FIRE AND EXPLOSION DATA

NFPA(704) RATING: HEALTH 0 FLAMMABILITY 2 REACTIVITY 0 SPECIAL NONE
FLASH POINT > 100 F / > 37 C FLASH MTHD TCC
AUTOIGNITION TEMPERATURE 495 F / 257 C
FLAMMABLE LIMITS (% BY VOLUME) LOWER .7 UPPER 6.0

EXTINGUISHING MEDIA:

USE WATER SPRAY, FOAM, DRY CHEMICAL, OR CARBON DIOXIDE.

SPECIAL FIRE FIGHTING PROCEDURES:

USE WATER SPRAY TO COOL FIRE-EXPOSED SURFACES.
FULL PROTECTIVE CLOTHING AND NIOSH/MSHA APPROVED SELF-CONTAINED BREATHING APPARATUS REQUIRED FOR FIRE FIGHTING PERSONNEL.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

MAY BE IGNITED BY HEAT, SPARKS, OR FLAMES. FIGHT FIRE FROM A SAFE DISTANCE AND FROM A PROTECTED LOCATION. HEAT MAY BUILD PRESSURE AND RUPTURE CLOSED CONTAINERS, SPREADING THE FIRE AND INCREASING THE RISK OF BURNS AND INJURIES.

INCOMPLETE THERMAL DECOMPOSITION MAY PRODUCE CARBON DIOXIDE AND CARBON MONOXIDE.

\*\*\*\*\* SECTION V - HEALTH HAZARD DATA \*\*\*\*\*

CALIFORNIA PROPOSITION 65:  
PRODUCT OR PRODUCT COMPONENTS ARE NOT REGULATED UNDER CALIF. PROPOSITION 65.

CARCINOGENIC DETERMINATION:  
PRODUCT OR COMPONENTS ARE LISTED AS A POTENTIAL CARCINOGEN  
ACCORDING TO : NTP, IARC, AND OSHA

PRODUCT TOXICITY DATA: NOT DETERMINED

PRODUCT TLV: NOT ESTABLISHED

----- EFFECTS OF EXPOSURE -----

ROUTES OF EXPOSURE:

EYE OR SKIN CONTACT, INHALATION.

EYE:

MAY CAUSE EYE IRRITATION.

SKIN:

FREQUENT OR PROLONGED CONTACT WILL DRY AND DEFAT THE SKIN, POSSIBLY LEADING TO IRRITATION AND DERMATITIS. REPEATED CONTACT MAY SENSITIZE THE SKIN.

INHALATION:

HIGH CONCENTRATIONS MAY CAUSE CENTRAL NERVOUS SYSTEM DEPRESSION. THIS MAY BE EVIDENCED BY GIDDINESS, HEADACHES, DIZZINESS, NAUSEA, VOMITING OR POSSIBLY UNCONSCIOUSNESS.

VAPORS, MIST OR SPRAY MAY CAUSE IRRITATION.

INGESTION:

ASPIRATION INTO LUNGS BY INGESTION OR VOMITING, MAY CAUSE CHEMICAL PNEUMONITIS RESULTING IN EDEMA AND HEMORRAGE AND MAY BE FATAL. SYMPTOMS INCLUDE INCREASED RESPIRATORY RATE AND BLUIISH DISCOLORATION OF SKIN. COUGHING AND GAGGING ARE OFTEN NOTED AT THE TIME OF ASPIRATION.

CHRONIC EFFECTS:

PROLONGED OR REPEATED APPLICATION OF A SIMILAR PRODUCT TO THE SKIN OF LAB LABORATORY MICE WITHOUT WASHING BETWEEN APPLICATIONS RESULTED IN INCREASED INCIDENCE OF SKIN TUMORS. IT IS SUSPECTED THAT TUMORS MAY BE DUE IN PART TO SEVERELY IRRITATED CONDITIONS FROM CONTINUOUS CONTACT WITH THE PRODUCT.

OTHER SYMPTOMS AFFECTED:

BECAUSE OF ITS IRRITATING PROPERTIES, THIS MATERIAL MAY AGGRAVATE AN EXISTING DERMATITIS.

----- EMERGENCY AND FIRST AID PROCEDURES -----

EYE:

IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. IF IRRITATION PERSISTS, SEEK PROMPT MEDICAL ATTENTION.

SKIN:

PROMPTLY WASH SKIN WITH SOAP AND WATER. IF IRRITATION DEVELOPS, SEEK MEDICAL ATTENTION.

INHALATION:

REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION, PREFERABLY MOUTH-TO-MOUTH. IF BREATHING IS DIFFICULT, GIVE OXYGEN. SEEK PROMPT MEDICAL ATTENTION.

INGESTION:

DO NOT INDUCE VOMITING! ASPIRATION INTO LUNGS DUE TO VOMITING CAN CAUSE CHEMICAL PNEUMONITIS WHICH CAN BE FATAL. IF VOMITING OCCURS SPONTANEOUSLY, KEEP HEAD BELOW HIPS TO PREVENT ASPIRATION OF LIQUID INTO LUNGS.

\*\*\*\*\* SECTION VI - REACTIVITY DATA \*\*\*\*\*

STABILITY: STABLE  
CONDITIONS TO AVOID:  
HEAT, SPARKS AND OPEN FLAME.

PN: 516003900

PAGE 3

INCOMPATIBILITY (MATERIALS TO AVOID):  
STRONG OXIDIZERS.  
HAZARDOUS DECOMPOSITION PRODUCTS:

CARBON MONOXIDE AND/OR CARBON DIOXIDE.  
HAZARD POLYMERIZATION: WON'T OCCUR  
CONDITIONS TO AVOID:  
NOT APPLICABLE.

\*\*\*\*\* SECTION VII - SPILL OR LEAK PROCEDURES \*\*\*\*\*

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:  
USE PROTECTIVE EQUIPMENT. ISOLATE SPILL AREA AND STOP LEAK WHERE SAFE.  
REMOVE IGNITION SOURCES. CONTAIN AND ABSORB SPILL WITH SAND OR OTHER INERT  
MATERIAL. SCOOP OR SWEEP UP USING NON-SPARKING TOOLS. IN ENCLOSED AREAS,  
WEAR SELF-CONTAINED BREATHING APPARATUS.  
WASTE DISPOSAL METHOD:  
GET APPROVAL FROM HAZARDOUS WASTE DISPOSAL SITE AUTHORIZED UNDER EPA-RCRA  
SUBTITLE C OR STATE EQUIVALENT. SHIP TO SITE.

\*\*\*\*\* SECTION VIII - SPECIAL PROTECTION INFORMATION \*\*\*\*\*

RESPIRATORY PROTECTION (USE NIOSH/MSHA APPROVED EQUIPMENT):  
ORGANIC VAPOR CARTRIDGE RESPIRATOR WITH A DUST-MIST FILTER.  
VENTILATION:  
USE ONLY WITH ADEQUATE VENTILATION. LOCAL EXHAUST VENTILATION SHOULD BE  
USED IN AREAS WITHOUT GOOD CROSS VENTILATION.  
LOCAL EXHAUST VENTILATION MUST BE DESIGNED FOR EXPLOSIVE ATMOSPHERES (NEC  
CLASS I EQUIPMENT).  
PROTECTIVE GLOVES:  
IMPERVIOUS RUBBER GLOVES.  
EYE PROTECTION:  
WEAR GOGGLES AND/OR FACE SHIELD. PROVIDE EYEWASH AND QUICK DRENCH SYSTEM.  
OTHER PROTECTIVE EQUIPMENT:  
RUBBER APRON TO PREVENT DIRECT SKIN CONTACT.

\*\*\*\*\* SECTION IX - SPECIAL PRECAUTIONS \*\*\*\*\*

PRECAUTIONARY LABELING DIESEL OIL - HAL-TANK 516.003900

WARNING!  
MAY CAUSE HEADACHE, DIZZINESS AND OTHER CENTRAL NERVOUS SYSTEM EFFECTS.  
MAY CAUSE IRRITATION TO THE EYES, SKIN OR RESPIRATORY SYSTEM.  
COMBUSTIBLE!  
FOR PRECAUTIONARY STATEMENTS, REFER TO SECTIONS IV-VIII.  
OTHER HANDLING AND STORAGE CONDITIONS:  
STORE AWAY FROM OXIDIZERS.  
KEEP FROM HEAT, SPARKS, AND OPEN FLAME.  
KEEP CONTAINER CLOSED WHEN NOT IN USE.  
AVOID CONTACT WITH SKIN, EYES AND CLOTHING.  
AVOID BREATHING VAPORS.  
CONTAINER DISPOSITION:  
EMPTY CONTAINER COMPLETELY. TRANSPORT CONTAINER WITH ALL CLOSURES IN  
PLACE. RETURN FOR REUSE OR DISPOSE IN A SANITARY LANDFILL BY FIRST  
OBTAINING LANDFILL OPERATOR'S AUTHORIZATION.

\*\*\*\*\* SECTION X - TRANSPORTATION INFORMATION \*\*\*\*\*

DOT SHIPPING DESCRIPTION:  
DIESEL FUEL - 3 - NA1993 - III

\*\*\*\*\* SECTION XI - ENVIRONMENTAL EVALUATION \*\*\*\*\*

EPA SUPERFUND(SARA) TITLE III - HAZARD CLASSIFICATION & ASSOCIATED INFORMATION

FIRE: Y PRESSURE: N REACTIVE: N ACUTE (IMMEDIATE): Y  
CHRONIC (DELAYED): Y MIXTURE OR PURE MATERIAL: PURE

400

N/A

C. EPA - SARA TITLE III, CFR 355 (EXTREMELY HAZARDOUS SUBSTANCES)  
PRODUCT CONTAINS NO EXTREMELY HAZARDOUS COMPONENTS

D. EPA - SARA TITLE III, 40 CFR 372 (LIST OF TOXIC CHEMICALS)  
CHEMICAL CONTAINS NO TOXIC INGREDIENTS

E. COMPONENTS LISTED ON FOLLOWING CHEMICAL INVENTORIES  
TSCA YES    CEPA YES    EEC N/D    ACOIN N/D    NPR YES    DRSM YES

H. EPA - RCRA (HAZARDOUS WASTE), 40 CFR 261

IF PRODUCT BECOMES A WASTE, IT DOES MEET THE CRITERIA OF A HAZARDOUS  
WASTE AS DEFINED BY US EPA BECAUSE OF:

IGNITABILITY

\*\*\*\*\*

THE INFORMATION WHICH IS CONTAINED IN THIS DOCUMENT IS BASED UPON AVAILABLE  
DATA AND BELIEVED TO BE CORRECT. HOWEVER, AS SUCH AS IT HAS BEEN OBTAINED FROM  
VARIOUS SOURCES, INCLUDING THE MANUFACTURER AND INDEPENDENT LABORATORIES, IT IS  
GIVEN WITHOUT WARRANTY OR REPRESENTATION THAT IT IS COMPLETE, ACCURATE AND CAN  
BE RELIED UPON. HALLIBURTON HAS NOT ATTEMPTED TO CONCEAL IN ANY WAY THE  
DELETERIOUS ASPECTS OF THE PRODUCT LISTED HEREIN, BUT MAKES NO WARRANTY AS TO  
SUCH. FURTHER, AS HALLIBURTON CANNOT ANTICIPATE NOR CONTROL THE MANY  
SITUATIONS IN WHICH THE LISTED PRODUCT OR THIS INFORMATION MAY BE USED BY OUR  
CUSTOMER, THERE IS NO GUARANTEE THAT THE HEALTH AND SAFETY PRECAUTIONS  
SUGGESTED WILL BE PROPER UNDER ALL CONDITIONS. IT IS THE SOLE RESPONSIBILITY  
OF EACH USER OF THE LISTED PRODUCT TO DETERMINE AND COMPLY WITH THE  
REQUIREMENTS OF ALL APPLICABLE LAWS AND REGULATIONS REGARDING ITS USE OR  
DISPOSAL. THIS INFORMATION IS GIVEN SOLELY FOR THE PURPOSES OF HEALTH AND  
SAFETY TO PERSONS AND PROPERTY. ANY OTHER USE OF THIS INFORMATION IS EXPRESSLY  
PROHIBITED. HEALTH, SAFETY AND ENVIRONMENT DEPARTMENT, HALLIBURTON ENERGY  
SERVICES.

10/20/00

PAGE 01 OF 01

HALLIBURTON ENERGY SERVICES - SHIPPING PAPERS  
FOR  
MOVEMENT OF MATERIALS ACCORDING TO FEDERAL REGULATION  
AS SPECIFIED IN CFR 49, SEC.177.817 AND 176.24

LOCATION: FARMINGTON

TRUCK# OR TRLR# :

FOR EMERGENCY CONTACT:  
NAME: JIM HANEY  
TELEPHONE: (505) 324-3500

DRIVER:

U.S. DOT HAZMAT REG. NO. - 060700 005 0251

\*HM:\*\*\*\*\*

\* \* TOT GROSS LBS. 7 NUM CONTAINERS: TYPE: 330 GALLON TANK

\* \*\*\*\*\*

\*X \*DIESEL FUEL - 3 - NA1993 - III

\* \*

\* \*

\* \*

\* \*HALCO NAME & NO.: DIESEL OIL - HAL-TANK 516.00390

\* \* \* GROSS LBS/PKG: \_\_\_\_\_ ERG => 27

\*\*\*\*\*

\*\*\*\*\*

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 DEPARTMENT OF  
TRANSPORTATION.

SIGNATURE \_\_\_\_\_

DEPARTMENT OF TRANSPORTATION (DOT)

FOR PN# 516003900

HAZARD GUIDE 27

PAGE 1

HALLIBURTON SERVICES  
DUNCAN, OKLAHOMA 73536

DATE: 10/20/00  
REVISED DATE: 08/10/95

EMERGENCY TELEPHONE: 800/666-9260 OR 580/251-3359  
EMERGENCY TELEPHONE: 800/666-9260 OR 580/251-3359

\*\*\*\*\*

POTENTIAL HAZARDS

FIRE OR EXPLOSION

FLAMMABLE/COMBUSTIBLE MATERIAL; MAY BE IGNITED BY HEAT, SPARKS OR FLAMES.  
VAPORS MAY TRAVEL TO A SOURCE OF IGNITION AND FLASH BACK.  
CONTAINER MAY EXPLODE IN HEAT OF FIRE.  
VAPOR EXPLOSION HAZARD INDOORS, OUTDOORS OR IN SEWERS.  
RUNOFF TO SEWER MAY CREATE FIRE OR EXPLOSION HAZARD.

HEALTH HAZARDS

MAY BE POISONOUS IF INHALED OR ABSORBED THROUGH SKIN.  
VAPORS MAY CAUSE DIZZINESS OR SUFFOCATION.  
CONTACT MAY IRRITATE OR BURN SKIN AND EYES.  
FIRE MAY PRODUCE IRRITATING OR POISONOUS GASES.  
RUNOFF FROM FIRE CONTROL OR DILUTION WATER MAY CAUSE POLLUTION.

EMERGENCY ACTION

KEEP UNNECESSARY PEOPLE AWAY; ISOLATE HAZARD AREA AND DENY ENTRY.  
STAY UPWIND; KEEP OUT OF LOW AREAS.  
POSITIVE PRESSURE SELF-CONTAINED BREATHING APPARATUS (SCBA) AND STRUCTURAL FIREFIGHTERS' PROTECTIVE CLOTHING WILL PROVIDE LIMITED PROTECTION.  
ISOLATE FOR 1/2 MILE IN ALL DIRECTIONS IF TANK, RAIL CAR OR TANK TRUCK IS INVOLVED IN FIRE.

FIRE

SMALL FIRES: DRY CHEMICAL, CO2, WATER SPRAY OR REGULAR FOAM.  
LARGE FIRES: WATER SPARY, FOG OR REGULAR FOAM.  
MOVE CONTAINER FROM FIRE AREA IF YOU CAN DO IT WITHOUT RISK.  
APPLY COOLING WATER TO SIDES OF CONTAINERS THAT ARE EXPOSED TO FLAMES UNTIL WELL AFTER FIRE IS OUT. STAY AWAY FROM ENDS OF TANKS.  
FOR MASSIVE FIRE IN CARGO AREA, USE UNMANNED HOSE HOLDER OR MONITOR NOZZLES; IF THIS IS IMPOSSIBLE, WITHDRAW FROM AREA AND LET FIRE BURN.  
WITHDRAW IMMEDIATELY IN CASE OF RISING SOUND FROM VENTING SAFETY DEVICE OR ANY DISCOLORATION OF TANK DUE TO FIRE.

SPILL OR LEAK

SHUT OFF IGNITION SOURCES; NO FLARES, SMOKING OR FLAMES IN HAZARD AREA.  
STOP LEAK IF YOU CAN DO IT WITHOUT RISK.  
WATER SPRAY MAY REDUCE VAPOR; BUT IT MAY NOT PREVENT IGNITION IN CLOSED SPACES.  
SMALL SPILLS: TAKE UP WITH SAND OR OTHER NONCOMBUSTIBLE ABSORBENT MATERIAL AND PLACE INTO CONTAINERS FOR LATER DISPOSAL.  
LARGE SPILLS: DIKE FAR AHEAD OF LIQUID SPILL FOR LATER DISPOSAL.

FIRST AID

MOVE VICTIM TO FRESH AIR AND CALL EMERGENCY MEDICAL CARE; IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION; IF BREATHING IS DIFFICULT,

GIVE OXYGEN.  
IN CASE OF CONTACT WITH MATERIAL, IMMEDIATELY FLUSH EYES WITH  
RUNNING WATER FOR AT LEAST 15 MINUTES. WASH SKIN WITH SOAP AND  
WATER.  
REMOVE AND ISOLATE CONTAMINATED CLOTHING AND SHOES AT THE SITE.

CALL Emergency Response Telephone Number on Shipping  
Paper "FIRST". If Shipping Paper "NOT AVAILABLE" OR "NO ANSWER",  
CALL CHEMTREC AT 1-800-424-9300

District I - (505) 393-6161  
 P.O. Box 1980  
 Hobbs, NM 88241-1980  
 District II - (505) 748-1283  
 811 S. First  
 Artesia, NM 88210  
 District III - (505) 334-6178  
 7 Rio Brazos Road  
 Roswell, NM 87410  
 District IV - (505) 827-7131

New Mexico  
 Energy Minerals and Natural Resources  
 Oil Conservation Division  
 2040 South Pacheco Street  
 Santa Fe, New Mexico 87505  
 (505) 827-7131

RECEIVED  
 Department  
 OCT 26 2000  
 Environmental Bureau  
 Oil Conservation Division  
 Env. JN: 00075-01

Form C-138  
 Originated 8/8/95  
 Submit Original  
 Plus 1 Copy  
 to appropriate  
 District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/>	4. Generator <u>Everready Oil</u>
Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	5. Originating Site <u>Middle Mesa 32-7 CDP</u>
2. Management Facility Destination <u>Envirotech Soil Remediation Facility Landfarm #2</u>	6. Transporter <u>Envirotech</u>
3. Address of Facility Operator <u>5796 US Highway 64 Farmington, NM 87401</u>	8. State <u>New Mexico</u>
7. Location of Material (Street Address or ULSTR)	<u>W.F.S. 32-7 CDP</u>
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

Clean up of New Motor Oil spill  
 MSDS & RCRA RCF Attached



Estimated Volume 5 drums cy Known Volume (to be entered by the operator at the end of the haul) 6 1/2 drums cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 10-23-00  
 Waste Management Facility Authorized Agent  
 TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)  
 APPROVED BY: Werry Faust TITLE: Geologist DATE: 10/23/00  
 APPROVED BY: Mark J. Kirby TITLE: Environmental Geologist DATE: 10/26/00

District I - (505) 393-6161  
 P.O. Box 1980  
 Hobbs, NM 88241-1980  
 District II - (505) 748-1283  
 811 S. First  
 Artesia, NM 88210  
 District III - (505) 334-6178  
 Rio Brazos Road  
 Roswell, NM 87410  
 District IV - (505) 827-7131

New Mexico  
 Energy Minerals and Natural Resources Department  
 Oil Conservation Division  
 2040 South Pacheco Street  
 Santa Fe, New Mexico 87505  
 (505) 827-7131

Form C-138  
 Originated 8/8/95  
 Submit Original  
 Plus 1 Copy  
 to appropriate  
 District Office

Env. JN: 00075-01

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

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Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	5. Originating Site <u>Middle Mesa 32-7 CDP</u>
2. Management Facility Destination <u>Envirotech Soil Remediation Facility Landfarm #2</u>	6. Transporter <u>Envirotech</u>
3. Address of Facility Operator <u>5796 US Highway 64 Farmington, NM 87401</u>	8. State <u>New Mexico</u>
7. Location of Material (Street Address or ULSTR)	<u>W.F.S. 32-7 CDP</u>
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BRIEF DESCRIPTION OF MATERIAL:

Clean up of New Motor Oil spill  
MSDS & RCRA RCE attached



Estimated Volume 5 drums cy Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_ cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 10-23-00  
 Waste Management Facility Authorized Agent  
 TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Denny Fent TITLE: Geologist DATE: 10/23/00  
 APPROVED BY: \_\_\_\_\_ TITLE: \_\_\_\_\_ DATE: \_\_\_\_\_

Oct. 20. 2000 3:26PM EVER-READY OIL

No. 8640 P. 1/4



# NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION  
AZTEC DISTRICT OFFICE  
1090 RIO BRAZOS ROAD  
AZTEC, NEW MEXICO 87410  
(800) 334-5170 Fax (505) 334-6117

GARY E. JOHNSON  
GOVERNOR

JENNIFER A. SALISBURY  
CABINET SECRETARY

## CERTIFICATE OF WASTE STATUS

<p>1. Generator Name and Address: Petrolink/DBA Ever Ready Oil 712 W Hwy 66 PO Box 2498 MILAN, NM 87021</p>	<p>2. Destination Name: Envirotech Inc. Soil Remediation Remediation Facility Landfarm #2, Hilltop, New Mexico 5796 US Hwy 64, Farmington, NM 87401</p>
<p>3. Originating Site (name): Production Operators Inc. (POI) South of Tiffany, Ca in New Mexico. Site is referred to Middle Mesa. Location of the Waste (Street address &amp;/or ULSTR):  Attach list of originating sites as appropriate</p>	
<p>4. Source and Description of Waste Pumping oil from transport into bulk storage when hose banding on comlock failed. Pegasus 485 (Mobil) was spilled on ground at Middle Mesa. Floor dry was applied to spilled oil.</p>	

I, Ron Austrey Petrolink dba Ever Ready Oil representative for:  
(Print Name)

do hereby certify that, according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July, 1988, regulatory determination, the above described waste is: (Check appropriate classification)

EXEMPT oilfield waste  NON-EXEMPT oilfield waste which is non-hazardous by characteristic analysis or by product identification

and that nothing has been added to the exempt or non-exempt non-hazardous waste defined above.

For NON-EXEMPT waste the following documentation is attached (check appropriate items):

- MSDS Information
- RCRA Hazardous Waste Analysis
- Chain of Custody
- Other (description):

This waste is in compliance with Regulated Levels of Naturally Occurring Radioactive Material (NORM) pursuant to 20 NMAC 3.1 subpart 1403.C and D.

Name (Original Signature): Ron Austrey  
Title: NAT

Ever Ready Oil  
W.F.S./PoI  
32-7 CDP

Denise  
PDS I-43 P.01

**Mobil**

605816-00 PAGE 1 OF 7

MATERIAL SAFETY DATA BULLETIN

-----  
1. PRODUCT AND COMPANY IDENTIFICATION  
-----

APPROVAL DATE: 01/01/95

PRODUCT NAME: MOBIL PEGASUS 485  
SUPPLIER: MOBIL OIL CORP.  
PRODUCTS AND TECHNOLOGY DEPT.  
3225 GALLOWS RD.  
FAIRFAX, VA 22037

24 - Hour Emergency (call collect): 609-737-4411  
Product and MSDS Information: 800-662-4525 703-849-3265  
CHEMTREC: 800-424-3000 202-483-7616

-----  
2. COMPOSITION/INFORMATION ON INGREDIENTS  
-----

INGREDIENTS CONSIDERED HAZARDOUS TO HEALTH:

This product is not formulated to contain ingredients which have exposure limits established by regulatory agencies. It is not hazardous to health as defined by the European Union Dangerous Substances/Preparations Directives. See Section 15 for a regulatory analysis of the ingredients.

See Section 8 for exposure limits (if applicable).

-----  
3. HAZARDS IDENTIFICATION  
-----

US OSHA HAZARD COMMUNICATION STANDARD: Product assessed in accordance with OSHA 29 CFR 1910.1200 and determined not to be hazardous.  
EFFECTS OF OVEREXPOSURE: No significant effects expected.  
EMERGENCY RESPONSE DATA: Dark Amber Liquid. DOT ERG No. - NA

-----  
4. FIRST AID MEASURES  
-----

EYE CONTACT: Flush thoroughly with water. If irritation occurs, call a physician.  
SKIN CONTACT: Wash contact areas with soap and water.  
INHALATION: Not expected to be a problem.  
INGESTION: Not expected to be a problem. However, if greater than 1/2 liter (pint) ingested, immediately give 1 to 2 glasses of water and call a physician, hospital emergency room or poison control center for assistance. Do not induce vomiting or give anything by mouth to an unconscious person.

**Mobil**

MOBIL PEGASUS 485

605816-00 PAGE 2 OF 7

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## 5. FIRE-FIGHTING MEASURES

---

EXTINGUISHING MEDIA: Carbon dioxide, foam, dry chemical and water fog.

SPECIAL FIRE FIGHTING PROCEDURES: Water or foam may cause frothing.

Use water to keep fire exposed containers cool. Water spray may be used to flush spills away from exposure. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply.

SPECIAL PROTECTIVE EQUIPMENT: For fires in enclosed areas, fire fighters must use self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None. Flash Point C(F): > 232(450) (ASTM D-92). Flammable limits - LEL: NA, UEL: NA.

NFPA HAZARD ID: Health: 0, Flammability: 1, Reactivity: 0

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide. Metal oxides. Elemental oxides.

---

## 6. ACCIDENTAL RELEASE MEASURES

---

NOTIFICATION PROCEDURES: Report spills as required to appropriate authorities. U. S. Coast Guard regulations require immediate reporting of spills that could reach any waterway including intermittent dry creeks. Report spill to Coast Guard toll free number (800) 424-8802. In case of accident or road spill notify CHEMTREC (800) 424-9300.

PROCEDURES IF MATERIAL IS RELEASED OR SPILLED: Adsorb on fire retardant treated sawdust, diatomaceous earth, etc. Shovel up and dispose of at an appropriate waste disposal facility in accordance with current applicable laws and regulations, and product characteristics at time of disposal.

ENVIRONMENTAL PRECAUTIONS: Prevent spills from entering storm sewers or drains and contact with soil.

PERSONAL PRECAUTIONS: See Section 8

---

## 7. HANDLING AND STORAGE

---

HANDLING: No special precautions are necessary beyond normal good hygiene practices. See Section 8 for additional personal protection advice when handling this product.

STORAGE: Do not store in open or unlabelled containers. Store away from strong oxidizing agents or combustible material.

**Mobil**

MOBIL PEGASUS 485

605816-00 PAGE 3 OF 7

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**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

---

**VENTILATION:** No special requirements under ordinary conditions of use and with adequate ventilation.

**RESPIRATORY PROTECTION:** No special requirements under ordinary conditions of use and with adequate ventilation.

**EYE PROTECTION:** Normal industrial eye protection practices should be employed.

**SKIN PROTECTION:** No special equipment required. However, good personal hygiene practices should always be followed.

**EXPOSURE LIMITS:** This product does not contain any components which have recognized exposure limits. However, a threshold limit value of 5.00 mg/m<sup>3</sup> is suggested for oil mist.

---

**9. PHYSICAL AND CHEMICAL PROPERTIES**

---

Typical physical properties are given below. Consult Product Data Sheet for specific details.

**APPEARANCE:** Liquid

**COLOR:** Dark Amber

**ODOR:** Mild

**ODOR THRESHOLD:** NA

**pH:** NA

**BOILING POINT C(F):** > 316(600)

**MELTING POINT C(F):** NA

**FLASH POINT C(F):** > 232(450) (ASTM D-92)

**FLAMMABILITY:** NA

**AUTO FLAMMABILITY:** NE

**EXPLOSIVE PROPERTIES:** NA

**OXIDIZING PROPERTIES:** NA

**VAPOR PRESSURE-mmHg 20 C:** < 0.1

**VAPOR DENSITY:** > 2.0

**EVAPORATION RATE:** NA

**RELATIVE DENSITY, 15/4 C:** 0.88

**SOLUBILITY IN WATER:** Negligible

**PARTITION COEFFICIENT:** > 3.5

**VISCOSITY AT 40 C, cSt:** 124.0

**VISCOSITY AT 100 C, cSt:** 12.5

**POUR POINT C(F):** -26(-15)

**FREEZING POINT C(F):** NE

**VOLATILE ORGANIC COMPOUND:** EXEMPT IN U.S.

NA=NOT APPLICABLE NE=NOT ESTABLISHED D=DECOMPOSES

FOR FURTHER TECHNICAL INFORMATION, CONTACT YOUR MARKETING REPRESENTATIVE

**Mobil**

MOBIL PEGASUS 485

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---

**10. STABILITY AND REACTIVITY**

---

STABILITY (THERMAL, LIGHT, ETC.): Stable.

CONDITIONS TO AVOID: Extreme heat.

INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide. Metal oxides.

Elemental oxides.

HAZARDOUS POLYMERIZATION: Will not occur.

---

**11. TOXICOLOGICAL DATA**

---

**---ACUTE TOXICOLOGY---**

ORAL TOXICITY (RATS): Practically non-toxic (LD50: greater than 2000 mg/kg). ---Based on testing of similar products and/or the components.

DERMAL TOXICITY (RABBITS): Practically non-toxic (LD50: greater than 2000 mg/kg). ---Based on testing of similar products and/or the components.

INHALATION TOXICITY (RATS): Practically non-toxic (LC50: greater than 5 mg/l). ---Based on testing of similar products and/or the components.

EYE IRRITATION (RABBITS): Practically non-irritating. (Draize score: greater than 6 but 15 or less). ---Based on testing of similar products and/or the components.

SKIN IRRITATION (RABBITS): Practically non-irritating. (Primary Irritation Index: greater than 0.5 but less than 3). ---Based on testing of similar products and/or the components.

OTHER ACUTE TOXICITY DATA: The acute toxicological results summarized above are based on testing of representative Mobil products. Representative Mobil formulations have shown no acute effects, administered via the inhalation route, when tested at maximum attainable oil mist or vapor concentrations.

**---SUBCHRONIC TOXICOLOGY (SUMMARY)---**

Representative Mobil formulations have been tested at the Mobil Environmental and Health Sciences Laboratory by dermal applications to rats 5 days/week for 90 days at doses significantly higher than those expected during normal industrial exposure. Extensive evaluations, including microscopic examination of internal organs and clinical chemistry of body fluids, showed no adverse effects.

**---REPRODUCTIVE TOXICOLOGY (SUMMARY)---**

Dermal exposure of pregnant rats to representative formulations did not cause adverse effects in either the mothers or their offspring.

**---CHRONIC TOXICOLOGY (SUMMARY)---**

The base oils in this product are severely solvent refined and/or severely hydrotreated. Chronic mouse skin painting studies of severely treated oils showed no evidence of carcinogenic effects. These results are confirmed on a continuing basis using the Mobil

(Section continued next page)

**Mobil**

MOBIL PEGASUS 485

605816-00 PAGE 5 OF 7

Modified Ames Test.

## ---SENSITIZATION (SUMMARY)---

Representative Mobil formulations have not caused skin sensitization in guinea pigs.

## ---OTHER TOXICOLOGY DATA---

Used gasoline engine oils have shown evidence of skin carcinogenic activity in laboratory tests when no effort was made to wash the oil off between applications. Used oil from diesel engines did not produce this effect.

-----  
12. ECOLOGICAL INFORMATION  
-----

ENVIRONMENTAL FATE AND EFFECTS: Not established.

-----  
13. DISPOSAL CONSIDERATIONS  
-----

WASTE DISPOSAL: Product is suitable for burning in an enclosed, controlled burner for fuel value or disposal by supervised incineration. Such burning may be limited pursuant to the Resource Conservation and Recovery Act. In addition, the product is suitable for processing by an approved recycling facility or can be disposed of at any government approved waste disposal facility. Use of these methods is subject to user compliance with applicable laws and regulations and consideration of product characteristics at time of disposal.

RCRA INFORMATION: The unused product, in our opinion, is not specifically listed by the EPA as a hazardous waste (40 CFR, Part 261D), nor is it formulated to contain materials which are listed hazardous wastes. It does not exhibit the hazardous characteristics of ignitability, corrosivity, or reactivity and is not formulated with contaminants as determined by the Toxicity Characteristic Leaching Procedure (TCLP). However, used product may be regulated.

-----  
14. TRANSPORT INFORMATION  
-----

USA DOT: NOT REGULATED BY USA DOT.

RID/ADR: NOT REGULATED BY RID/ADR.

IMO: NOT REGULATED BY IMO.

IATA: NOT REGULATED BY IATA.

**Mobil**

MOBIL PEGASUS 485

605816-00 PAGE 6 OF 7

---

 15. REGULATORY INFORMATION
 

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Governmental Inventory Status: All components comply with TSCA, EINECS/ELINCS, and DSL.

EU Classification and Labeling: EU labeling not required.

U.S. Superfund Amendments and Reauthorization Act (SARA) Title III: This product contains no "EXTREMELY HAZARDOUS SUBSTANCES".

SARA (311/312) REPORTABLE HAZARD CATEGORIES: None.

This product contains no chemicals reportable under SARA (313) toxic release program.

The following product ingredients are cited on the lists below:

CHEMICAL NAME	CAS NUMBER	LIST CITATIONS
ZINC (ELEMENTAL ANALYSIS) (0.03%)	7440-66-6	22
PHOSPHORODITHOIC ACID, O,O-DI	68649-42-3	22
CI-14-ALKYL ESTERS, ZINC SALTS (2: 1) (ZDDP) (0.26%)		

--- REGULATORY LISTS SEARCHED ---

1 = ACGIH ALL	6 = IARC 1	11 = TSCA 4	17 = CA P65	22 = MI 293
2 = ACGIH A1	7 = IARC 2A	12 = TSCA 5a2	18 = CA RTK	23 = MN RTK
3 = ACGIH A2	8 = IARC 2B	13 = TSCA 5e	19 = FL RTK	24 = NJ RTK
4 = NTP CARC	9 = OSHA CARC	14 = TSCA 6	20 = IL RTK	25 = PA RTK
5 = NTP SUS	10 = OSHA Z	15 = TSCA 12b	21 = LA RTK	26 = RI RTK

Code key: CARC = Carcinogen; SUS = Suspected Carcinogen



MOBIL PEGASUS 485

605816-00 PAGE 7 OF 7

-----  
16. OTHER INFORMATION  
-----

CHEMICAL NAMES AND SYNONYMS: PET. HYDROCARBONS AND ADDITIVES

USE: NATURAL GAS ENGINE OIL

NOTE: MOBIL PRODUCTS ARE NOT FORMULATED TO CONTAIN PCBS.

-----  
See container label for ingredient information.

\*\*\*\*\*  
For Mobil Use Only: MHC: 1\* 1\* 0\* 1\* 1\*, MPPEC: A, REQ: US -  
MARKETING, SAFE USE: L  
\*\*\*\*\*

INFORMATION GIVEN HEREIN IS OFFERED IN GOOD FAITH AS ACCURATE, BUT WITHOUT GUARANTEE. CONDITIONS OF USE AND SUITABILITY OF THE PRODUCT FOR PARTICULAR USES ARE BEYOND OUR CONTROL; ALL RISKS OF USE OF THE PRODUCT ARE THEREFORE ASSUMED BY THE USER AND WE EXPRESSLY DISCLAIM ALL WARRANTIES OF EVERY KIND AND NATURE, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE IN RESPECT TO THE USE OR SUITABILITY OF THE PRODUCT. NOTHING IS INTENDED AS A RECOMMENDATION FOR USES WHICH INFRINGE VALID PATENTS OR AS EXTENDING LICENSE UNDER VALID PATENTS. APPROPRIATE WARNINGS AND SAFE HANDLING PROCEDURES SHOULD BE PROVIDED TO HANDLERS AND USERS.

\*\*\*\*\*  
Prepared by: Mobil Oil Corporation  
Environmental Health and Safety Department, Princeton, NJ

## SUSPECTED HAZARDOUS WASTE ANALYSIS

Client:	Ever Ready Oil	Project #:	007501
Sample ID:	Stockpile	Date Reported:	08-30-00
Lab ID#:	18042	Date Sampled:	08-25-00
Sample Matrix:	Soil	Date Received:	08-30-00
Preservative:	Cool	Date Analyzed:	08-30-00
Condition:	Cool and Intact	Chain of Custody:	7896

Parameter	Result
-----------	--------

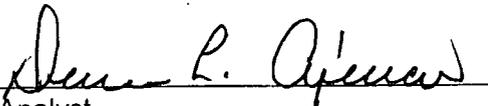
<b>IGNITABILITY:</b>	<b>Negative</b>	
<b>CORROSIVITY:</b>	<b>Negative</b>	<b>pH = 7.28</b>
<b>REACTIVITY:</b>	<b>Negative</b>	

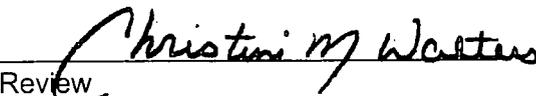
### RCRA Hazardous Waste Criteria

Parameter	Hazardous Waste Criterion
IGNITABILITY:	Characteristic of Ignitability as defined by 40 CFR, Subpart C, Sec. 261.21. (i.e. Sample ignition upon direct contact with flame or flash point < 60° C.)
CORROSIVITY:	Characteristic of Corrosivity as defined by 40 CFR, Subpart C, Sec. 261.22. (i.e. pH less than or equal to 2.0 or pH greater than or equal to 12.5)
REACTIVITY:	Characteristic of Reactivity as defined by 40 CFR, Subpart C, Sec. 261.23. (i.e. Violent reaction with water, strong base, strong acid, or the generation of Sulfide or Cyanide gases at STP with pH between 2.0 and 12.5)

Reference: 40 CFR part 261 Subpart C sections 261.21 - 261.23, July 1, 1992.

Comments: **W.F.S. 32-7 CDP Pegasus 485 Upset.**

  
Analyst

  
Review

# CHAIN OF CUSTODY RECORD

7896

Client / Project Name <i>Ever Ready Oil</i>			Project Location <i>W.F.S 32-7 CDP</i>			ANALYSIS / PARAMETERS						
Sampler: <i>Cirrileo Trujillo</i>			Client No. <i>007501</i>			No. of Containers <i>RCRA RCII</i>						Remarks
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix								
<i>Stockpile</i>	<i>8.25.00</i>	<i>10:30 AM</i>	<i>18042</i>	<i>Soil</i>	<i>1</i>	<input checked="" type="checkbox"/>						<i>Pegasus 485 upset.</i>
Relinquished by: (Signature) <i>Harold M Brown</i>			Date <i>8.30.00</i>	Time <i>9:05</i>	Received by: (Signature) <i>John L. O'Brien</i>						Date <i>8.30.00</i>	Time <i>9:05</i>
Relinquished by: (Signature)					Received by: (Signature)							
Relinquished by: (Signature)					Received by: (Signature)							
<b>ENVIROTECH INC.</b>										Sample Receipt		
5796 U.S. Highway 64 Farmington, New Mexico 87401 (505) 632-0615										Y	N	N/A
										Received Intact	<input checked="" type="checkbox"/>	
										Cool - Ice/Blue Ice	<input checked="" type="checkbox"/>	

District I - (505) 393-6161  
 P.O. Box 1980  
 Hobbs, NM 88241-1980  
 District II - (505) 748-1283  
 811 S. First  
 Artesia, NM 88210  
 District III - (505) 334-6178  
 7 Rio Brazos Road  
 Roswell, NM 87410  
 District IV - (505) 827-7131

New Mexico  
 Energy Minerals and Natural Resources Department  
 Oil Conservation Division  
 2040 South Pacheco Street  
 Santa Fe, New Mexico 87505  
 (505) 827-7131

RECEIVED  
 OCT 26 2000  
 Environmental Bureau  
 Oil Conservation Division  
 Submit Original  
 Plus 1 Copy  
 to appropriate  
 District Office

Env. JN: 92102-03

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/>	4. Generator <u>Robert L Burgess</u>
Verbal Approval Received: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	5. Originating Site <u>Tiger #3</u>
2. Management Facility Destination <u>Envirotech Soil Remediation Facility Landfarm #2</u>	6. Transporter <u>Burgess</u>
3. Address of Facility Operator <u>5796 US Highway 64 Farmington, NM 87401</u>	8. State <u>New Mexico</u>
7. Location of Material (Street Address or ULSTR)	<u>SE4, Sec 34, T30N, R13W</u>
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

Soil Contaminated with oil-water emulsion from 2nd Stage Compressor scrubber  
MSDS Attached



Estimated Volume 2 drums cy Known Volume (to be entered by the operator at the end of the haul) 2 drums cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 10-18-00  
 Waste Management Facility Authorized Agent  
 TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Kerry Feint TITLE: Geologist DATE: 10/23/00  
 APPROVED BY: i TITLE: Inspector DATE: 10/26/00

District I - (505) 393-6161  
 P.O. Box 1980  
 Hobbs, NM 88241-1980  
 District II - (505) 748-1283  
 811 S. First  
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 District III - (505) 334-6178  
 Rio Brazos Road  
 NM 87410  
 District IV - (505) 827-7131

New Mexico  
 Energy Minerals and Natural Resources Department  
 Oil Conservation Division  
 2040 South Pacheco Street  
 Santa Fe, New Mexico 87505  
 (505) 827-7131

Form C-138  
 Originated 8/8/95  
 Submit Original  
 Plus 1 Copy  
 to appropriate  
 District Office

Env. JN: 92102-03

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/>	4. Generator <u>Robert L. Barless</u>
Verbal Approval Received: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	5. Originating Site <u>Tiger #3</u>
2. Management Facility Destination <u>Envirotech Soil Remediation Facility Landfarm #2</u>	6. Transporter <u>Barless</u>
3. Address of Facility Operator <u>5796 US Highway 64 Farmington, NM 87401</u>	8. State <u>New Mexico</u>
7. Location of Material (Street Address or ULSTR)	<u>SE4, Sec 34, T30N, R13W</u>
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:  
Soil Contaminated with oil-water emulsion from 2nd Stage Compressor scrubber  
MSDS Attached



Estimated Volume 2 drum cy Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_ cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 10-18-00  
 Waste Management Facility Authorized Agent  
 TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Denny Faust TITLE: Geologist DATE: 10/23/00

APPROVED BY: \_\_\_\_\_ TITLE: \_\_\_\_\_ DATE: \_\_\_\_\_



# NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON  
GOVERNOR

JENNIFER A. SALISBURY  
CABINET SECRETARY

*Donut Feast  
Verbal  
10.17.00  
9:20 a.m.  
OIL CONSERVATION DIVISION  
AZTEC DISTRICT OFFICE  
1900 RIO BRAZOS ROAD  
AZTEC, NEW MEXICO 87410  
(505) 334-6176 Fax (505) 334-6770*

## CERTIFICATE OF WASTE STATUS

<p>1. Generator Name and Address: R. L. BAYLESS PO BOX 128 FARMINGTON, NM 87499</p>	<p>2. Destination Name: Envirotech Inc. Soil Remediation Remediation Facility Landfarm #2, Hilltop, New Mexico 5796 US Hwy 64, Farmington, NM 87401</p>
<p>3. Originating Site (name): TIGER No. 3 GAS WELL SE 1/4 SEC 34, T30N, R13W SAN JUAN Co., NM</p> <p>Location of the Waste (Street address &amp;/or ULSTR):</p> <p>Attach list of originating sites as appropriate</p>	
<p>4. Source and Description of Waste OIL-WATER EMULSION IN DIRT. EMULSION IS FROM SECOND STAGE COMPRESSOR SCRUBBER.</p>	

I, TOM MCCARTHY representative for:  
R. L. BAYLESS (Print Name)  
do hereby certify that, according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July, 1988, regulatory determination, the above described waste is: (Check appropriate classification)

EXEMPT oilfield waste  
 NON-EXEMPT oilfield waste which is non-hazardous by characteristic analysis or by product identification

and that nothing has been added to the exempt or non-exempt non-hazardous waste defined above.

For NON-EXEMPT waste the following documentation is attached (check appropriate items):

MSDS Information  Other (description):

RCRA Hazardous Waste Analysis

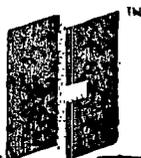
Chain of Custody

This waste is in compliance with Regulated Levels of Naturally Occurring Radioactive Material (NORM) pursuant to 20 NMAC 3.1 subpart 1403.C and D.

Name (Original Signature): Tam McCarthy

Title: ENGINEER

Date: 10/17/2000



**THE HANOVER  
COMPANY**

## Facsimile Cover Sheet

Hanover Compressor  
1280 Troy King Road  
Farmington NM 87401  
(505) 325-3220  
(505) 325-2997 FAX

TO: Tom McCarthy  
FROM: Debra Riddell Ext 112  
DATE: 10/17/00  
FAX NUMBER: 326-6911

6 PAGES (INCLUDING COVER SHEET)

MESSAGE MSDS sheet for compressor oil.  
Please call if you can't read.

Thanks  
DEBRA

THANK YOU,

<http://emmsds.ilispsl.com/nctacy/n...Fnetahml%2f%2fnewsrch.html&F=1&I=C>

602466-00 MOBIL PEGASUS 805  
MATERIAL SAFETY DATA BULLETIN

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: MOBIL PEGASUS 805

SUPPLIER: MOBIL OIL CORP.

NORTH AMERICA MARKETING AND REFINING

3225 CALLOWS RD.

FAIRFAX, VA 22037

24 - Hour Emergency (Call Collect): 609-737-4411

Product and MSDS Information: 800-662-4525

609-224-4044

CHEMTRAC:

800-424-9300

202-463-7611

2. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAMES AND SYNONYMS: PPT. HYDROCARBONS AND ADDITIVES

INGREDIENTS CONSIDERED HAZARDOUS TO HEALTH:

This product is not formulated to contain ingredients which have exposure limits established by U.S. agencies. It is not hazardous to health as defined by the European Union Dangerous Substances/Preparations Directives. See Section 15 for a regulatory analysis of the ingredients.

See Section 14 for European Label Information.

See Section 8 for exposure limits (if applicable).

3. HAZARD IDENTIFICATION

US OSHA HAZARD COMMUNICATION STANDARD: Product assessed in accordance with OSHA 29 CFR 1910.1200 and determined not to be hazardous.

EFFECTS OF OVEREXPOSURE: No significant effects expected.

EMERGENCY RESPONSE DATA: Light Amber Liquid. DOT ERG No. NA

4. FIRST AID MEASURES

EYE CONTACT: Flush thoroughly with water. If irritation occurs, call a physician.

SKIN CONTACT: Wash contact areas with soap and water.

INHALATION: Not expected to be a problem.

INGESTION: Not expected to be a problem when ingested. If

uncomfortable seek medical assistance.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Carbon dioxide, foam, dry chemical and water fog.

SPECIAL FIRE FIGHTING PROCEDURES: Water or foam may cause foaming.

Use water to keep fire exposed containers cool. Water spray may

be used to flush spills away from exposure. Prevent runoff.

Prevent fire control or dilution from entering streams, sewers.

<http://emmsda.ihpspl.com/nctacgi/n.../inetahtml#21/newssearch.html&r=1&f=C>

drinking water supply.

**SPECIAL PROTECTIVE EQUIPMENT:** For fires in enclosed areas, fire fighters must use self-contained breathing apparatus.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** None. Flash Point C(F): 240(470) (ASTM D-92). Flammable limits: LEL: NE; UEL: NE.

**NFPA HAZARD ID:** Health: 0, Flammability: 1, Reactivity: 0

**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon monoxide. Possibly hydrocarbon fragments, sulfur oxides and compounds.

## 6. ACCIDENTAL RELEASE MEASURES

**NOTIFICATION PROCEDURES:** Report spills as required to appropriate authorities. U. S. Coast Guard regulations require immediate reporting of spills that could reach any waterway including intermittent dry creeks. Report spill to Coast Guard toll free number (800) 424-8802. In case of accident or road spill notify CHEMTREC (800) 424-9300.

**PROCEDURES IF MATERIAL IS RELEASED OR SPILLED:** Adsorb on fire retardant treated sand, dirt, diatomaceous earth, etc. Shovel up and dispose of at an appropriate waste disposal facility in accordance with current applicable laws and regulations, and product characteristics at time of disposal.

**ENVIRONMENTAL PRECAUTIONS:** Prevent spills from entering storm sewers or drains and contact with soil.

**PERSONAL PRECAUTIONS:** See Section 8

## 7. HANDLING AND STORAGE

**HANDLING:** No special precautions are necessary beyond normal good hygiene practices. See Section 8 for additional personal protection advice when handling this product.

**STORAGE:** Do not store in open or unlabelled containers. Store away from strong oxidizing agents or combustible material.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**VENTILATION:** No special requirements under ordinary conditions of use and with adequate ventilation.

**RESPIRATORY PROTECTION:** No special requirements under ordinary conditions of use and with adequate ventilation.

**EYE PROTECTION:** Normal industrial eye protection practices should be employed.

**SKIN PROTECTION:** No special equipment required. However, good personal hygiene practices should always be followed.

**EXPOSURE LIMITS:** This product does not contain any components which have recognized exposure limits. However, a exposure limit of 5.00 mg/m3 is suggested for oil mist.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Typical physical properties are given below. Consult Product Data Sheet for specific details.

**APPEARANCE:** Liquid

**COLOR:** Light Amber

**ODOR:** Marketable

**ODOR THRESHOLD-ppm:** NE

[http://cmms16.ihpspl.com/netcgi/n.../fnetahm1%2\(fnewsearch.html&rt.L&F-G](http://cmms16.ihpspl.com/netcgi/n.../fnetahm1%2(fnewsearch.html&rt.L&F-G)

PH: NA  
 BOILING POINT C(F): NE  
 MELTING POINT C(F): NA  
 FLASH POINT C(F): 245 (473) (ASTM D 92)  
 FLAMMABILITY: NE  
 AUTO FLAMMABILITY: NE  
 EXPLOSIVE PROPERTIES: NA  
 OXIDIZING PROPERTIES: NA  
 VAPOR PRESSURE-mmHg 20 C: & lt; 0.1  
 VAPOR DENSITY: > 2.0  
 EVAPORATION RATE: NE  
 RELATIVE DENSITY 15/4 C: 0.89  
 SOLUBILITY IN WATER: Negligible  
 PARTITION COEFFICIENT: NE  
 VISCOSITY AT 40 C, cSt: 130.0  
 VISCOSITY AT 100 C, cSt: 13.5  
 POUR POINT C(F): -12(10)  
 FREEZING POINT C(F): NE  
 VOLATILE ORGANIC COMPOUND: NE

NA=NOT APPLICABLE NE=NOT ESTABLISHED D=DECOMPOSES  
 FOR FURTHER TECHNICAL INFORMATION, CONTACT YOUR MARKETING REPRESENTATIVE

## 10. STABILITY AND REACTIVITY

STABILITY (THERMAL, LIGHT, ETC.): Stable.  
 CONDITIONS TO AVOID: Extreme Heat.  
 INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizers.  
 HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide. Possibly hydrocarbon fragments. Sulfur oxides and compounds.  
 HAZARDOUS POLYMERIZATION: Will not occur.

## 11. TOXICOLOGICAL DATA

### ---ACUTE TOXICOLOGY---

ORAL TOXICITY (RATS): Practically non-toxic (LD50: greater than 2000 mg/kg). ---Based on testing of similar products and/or the components.

DERMAL TOXICITY (RABBITS): Practically non-toxic (LD50: greater than 2000 mg/kg). ---Based on testing of similar products and/or the components.

INHALATION TOXICITY (RATS): Not applicable. --- Harmful concentrations of mists and/or vapors are unlikely to be encountered through any customary or reasonably foreseeable handling, use, or misuse of this product.

EYE IRRITATION (RABBITS): Practically non-irritating. (Ornize score: greater than 5 but 15 or less). ---Based on testing of similar products and/or the components.

SKIN IRRITATION (RABBITS): Practically non-irritating. (Primary Irritation Index: greater than 0.5 but less than 1). ---Based on testing of similar products and/or the components.

### ---SUBCHRONIC TOXICOLOGY (SUMMARY)---

Severely solvent refined and severely hydrotreated mineral base oils have been tested at Mobil Environmental and Health Sciences Laboratory by dermal application to rats 5 days/week for 90 days at doses significantly higher than those expected during normal industrial exposure. Extensive evaluations including microscopic examination of internal organs and clinical chemistry of body fluids, showed no adverse effects.

### ---CHRONIC TOXICOLOGY (SUMMARY)---

The base oils in this product are severely solvent refined.

<http://emmsdl.hpsnl.com/nc/ncgi/n.../ficta.html%2Fnewsearch.html&...>

severely hydrocracked. Chronic mouse skin painting studies of severely treated oils showed no evidence of carcinogenic effects.

## 12. ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE AND EFFECTS: Not established.

## 13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: Product is suitable for burning in an enclosed, controlled burner for fuel value or disposal by supervised incineration. Such burning may be limited pursuant to the Resource Conservation and Recovery Act. In addition, the product is suitable for processing by an approved recycling facility or can be disposed of at an appropriate government waste disposal facility. Use of these methods is subject to user compliance with applicable laws and regulations and consideration of product characteristics at time of disposal.

RCRA INFORMATION: The unused product, in our opinion, is not specifically listed by the EPA as a hazardous waste (40 CFR, Part 261.03), nor is it formulated to contain materials which are listed hazardous wastes. It does not exhibit the hazardous characteristics of ignitability, corrosivity, or reactivity and is not formulated with contaminants as determined by the Toxicity Characteristic Leaching Procedure (TCLP). However, used product may be regulated.

## 14. TRANSPORT INFORMATION

USA DOT: NOT REGULATED BY USA DOT.  
 RID/ADR: NOT REGULATED BY RID/ADR.  
 IMO: NOT REGULATED BY IMO.  
 IATA: NOT REGULATED BY IATA.

## 15. REGULATORY INFORMATION

Governmental Inventory Status: All components comply with TSCA, EINECS/ELINCS, AICS, and DSL.

EU Labeling:

Symbol: EU labeling not required.

Risk Phrase(s): R.

NA

Safety Phrase(s): Not applicable.

U.S. Superfund Amendments and Reauthorization Act (SARA) Title III:

This product contains no "EXTREMELY HAZARDOUS SUBSTANCE".

SARA (311/312) REPORTABLE HAZARD CATEGORIES: None.

This product contains no chemicals reportable under

SARA (313) toxic release program.

The following product ingredients are cited on the lists below:

CHEMICAL NAME	CAS NUMBER	LIST CITATIONS
XYLENES (0.03%)	1330-20-7	22
ZINC (ELEMENTAL ANALYSIS) (5 lt; 0.04%)	7440-66-6	22
PHOSPHORODITHIOIC ACID, O,O-DI	68649-42-3	22
C1-14-ALKYL ESTERS, ZINC SALTS (2-1) (2DDP) (0.33%)		

http://emmsys.ihpsl.com/ncicgi/n.../nci.html?%2Fnewsearch.htm&rtt=&f=C

REGULATORY LIST'S SEARCHED

- 1-ACGIH ALL
- 2-ACGIH A1
- 3-ACGIH A2
- 4-NTP CARC
- 5-NTP SUS
- 6-IARC 1
- 7-IARC 2A
- 8-IARC 2B
- 9-OSHA CARC
- 10-OSHA 2
- 11-TSCA 4
- 12-TSCA 5a
- 13-TSCA 5b
- 14-TSCA 6
- 15-TSCA 12b
- 16-CA P65 CARC
- 17-CA P65 REPRD
- 18-CA RTK
- 19-FL RTK
- 20-IL RTK
- 21-MA RTK
- 22-MI 293
- 23-MN RTK
- 24-NJ RTK
- 25-VA RTK
- 26-WI RTK

Code key: CARC=Carcinogen; SUS=Suspected Carcinogen; REPRD=Reproductive

16. OTHER INFORMATION

USE: ENGINE LUBRICANT

NOTE: MOBIL PRODUCTS ARE NOT FORMULATED TO CONTAIN PCBs.

Please call the Customer Response Center on 800-662-1529 for formulation disclosure.

For Internal Use Only: MHC: 0\* 0\* NA 1\* 1\*, MPPEC: A, TRN: 602466-00, GLIS: 400795, CMCS97: 970936, REQ: US - MARKETING, SAPP USE: 1, EHS Approval Date: 10OCT1999

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 7 Rio Brazos Road  
 Roswell, NM 87410  
 District IV - (505) 827-7131

New Mexico  
 Energy Minerals and Natural Resources Department  
 Oil Conservation Division  
 2040 South Pacheco Street  
 Santa Fe, New Mexico 87505  
 (505) 827-7131

Form C-138  
 Originated 8/8/95

Submit Original  
 Plus 1 Copy  
 to appropriate  
 District Office

Env. JN: 92187

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input checked="" type="checkbox"/> Non-Exempt: <input type="checkbox"/> Verbal Approval Received: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> <i>Danny Faust</i> <i>Verbal</i> <i>10.10.00</i> <i>9:15</i>	4. Generator <i>Western Gas Resources</i>
2. Management Facility Destination <i>Envirotech Soil Remediation Facility Landfarm #2</i>	5. Originating Site <i>San Juan River Plant</i>
3. Address of Facility Operator <i>5796 US Highway 64 Farmington, NM 87401</i>	6. Transporter <i>Envirotech</i>
7. Location of Material (Street Address or ULSTR)	8. State <i>New Mexico</i>
9. <u>Circle One:</u> A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

*Pigging Sludge*  
*Norms Attached*



Estimated Volume 10.00 cy Known Volume (to be entered by the operator at the end of the haul) 10 cy

SIGNATURE: *Harlan M. Brown* TITLE: Landfarm Manager DATE: 10.10.00  
 Waste Management Facility Authorized Agent  
 TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: *Danny Faust* TITLE: Geologist DATE: 10/10/00  
 APPROVED BY: *[Signature]* TITLE: Geologist DATE: 10-11-00



# NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION  
AZTEC DISTRICT OFFICE  
1000 RIO GRAZOS ROAD  
AZTEC, NEW MEXICO 87410  
(505) 836-8178 Fax (505) 224-6170

GARY E. JOHNSON  
GOVERNOR

JENNIFER A. SALISBURY  
CABINET SECRETARY

## CERTIFICATE OF WASTE STATUS

<b>1. Generator Name and Address:</b> Western Gas Resources P.O. Box 70 99 Rd 6500 Kirtland, N.M. 87417	<b>2. Destination Name:</b> Envirotech Inc. Soil Remediation Remediation Facility Landfarm #2, Hilltop, New Mexico 5796 IIS Hwy 64, Farmington, NM 87401
<b>3. Originating Site (name):</b> Location of the Waste (Street address &/or ULSTR): Pig Receiver San Juan River Plant 99 Rd. 6500 Kirtland N.M. 87417  <small>Attach list of originating sites as appropriate</small>	
<b>4. Source and Description of Waste</b> Pigginq Sludge - Iron Sulfide	

I, Jim Bates Alyn Therson representative for:  
(Print Name)  
Western Gas Resources Inc. do hereby certify that,  
 according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July,  
 1988, regulatory determination, the above described waste is: (Check appropriate classification)

EXEMPT oilfield waste       NON-EXEMPT oilfield waste which is non-hazardous by characteristic analysis or by product identification

and that nothing has been added to the exempt or non-exempt non-hazardous waste defined above.

For NON-EXEMPT waste the following documentation is attached (check appropriate items):

- MSDS Information
- RCRA Hazardous Waste Analysis
- Chain of Custody
- Other (description):

This waste is in compliance with Regulated Levels of Naturally Occurring Radioactive Material (NORM) pursuant to 20 NMAC 3.1 subpart 1403.C and D.

Name (Original Signature): [Signature]  
 Title: Field Supervisor  
 Date: 8/18/00 20.10.00

21/ with < 30 pCi  
is considered except  
by NMED

K. M'Evans  
T. Bates  
D. Anderson



1728 Wooddale Court • Baton Rouge, Louisiana 70806  
1 (800) 401-4277 • Fax (504) 927-6822

ARS Tracking Number: ARS-97-0924 P.O. Number: 215618  
Client I.D.: G02354 ARS Sample I.D.: ARS-97-3412  
Date Sampled: N/A Date Received: 10/10/97  
Time Sampled: N/A Time Received: 0945  
Type of Sample: Solid Date of Report: 10/16/97

Analysis Description	Analysis Result	Analysis Error ±2σ	Detection Limit	Analysis Units	Analysis Test Method	Analysis Date & Time	Analysis Technician
Ra-226	0.82	0.27	0.11	pCi/g	EPA 901.1M	10/13/97 1149	SB
Ra-228	0.03	0.02	0.01	pCi/g	EPA 901.1M	10/13/97 1149	SB
Pb-210	15.33	0.71	0.17	pCi/g	EPA 901.1M	10/13/97 1149	SB
Total Activity	16.86	N/A	N/A	pCi/g	EPA 901.1M	10/13/97 1149	SB

Post-It™ brand fax transmittal memo 7671 # of pages >

To: <i>Harlan Brown</i>	From: <i>Tim Bates</i>
Co.	Co.
Dept.	Phone # <i>598-5601-825</i>
Fax #	Fax #

*[Signature]*  
Quality Assurance Review

Notes: American Radiation Services, Inc assumes no liability for the use or interpretation of any analytical results provided other than the cost of the performed analysis itself. Reproduction of this report in less than full requires the written consent of the client.

Box " - Dome ToleT Slud  
 Mark.

Radiation Safety Engineering, Chandler Arizona  
 Configuration : C:\PCNTRK\CAMFILES\500ML\100128.CNF  
 Sample title : 500ml Marinelli  
 Analyzes by : 2nd DIF V2.1  
 Peak analysis date: 9/05/2000 1:12  
 Sample date : 8/22/2000 3:55  
 Sample ID : #03479  
 Sample type : 1  
 Detector name :  
 Elapsed live time: 14400.0 secs.  
 Peak start energy: 0.48 keV  
 Sensitivity : 3.00  
 Critical level : No  
 Deposition date :  
 Acquisition date : 9/05/2000 9:11  
 Sample quantity : 1.57E+002 g  
 Sample geometry : 500ml Marinelli  
 Detector geometry: 500ml Marinelli  
 Elapsed real time: 14416.6 secs. DT: 0.1%  
 Peak end energy : 2159.40 keV  
 Gaussian sens. : 0.00  
 Continuum chans. : 4

PK	It	Energy	Area	Bkgnd	EMN	Channel	Left	RM	Cts/Sec	WErr	Flt
1	0	22.92	706	1958	1.11	99.11	93	14	0.0	12.04	
2	0	32.72	-116	3260	0.42	127.26	123	14	-0.0	-95.74	
3	0	45.80	252	1113	0.70	180.64	171	11	0.0	41.98	
4	4	74.39	3160	3866	1.17	287.55	281	35	0.2	2.38	0.1
5	4	77.26	5995	3905	1.17	296.16	291	35	0.4	1.53	
6	9	84.09	246	3228	1.29	322.05	315	36	0.0	18.89	1.0
7	9	87.37	2650	3294	1.29	334.49	315	36	0.2	2.59	
8	9	89.99	1052	2972	1.29	344.42	315	36	0.1	5.12	
9	0	112.48	30	2113	0.82	429.74	425	11	0.0	263.21	
10	0	186.32	6066	4609	1.19	709.75	701	22	0.4	2.74	
11	0	209.15	257	2397	0.85	796.33	789	16	0.0	37.06	
12	6	238.85	312	2040	1.23	908.94	899	31	0.0	12.25	1.0
13	6	242.00	9179	2032	1.24	921.22	899	31	0.2	1.21	
14	0	259.99	716	2692	1.26	986.91	976	24	0.0	15.37	
15	0	274.64	411	1913	0.56	1044.56	1036	17	0.0	21.43	
16	0	295.22	18091	3240	1.28	1422.99	1108	30	1.3	1.77	
17	0	333.30	189	1488	2.01	1267.13	1261	37	0.0	19.75	0.4
18	0	336.50	193	2218	2.01	1286.82	1261	37	0.0	18.22	
19	0	361.95	31941	3205	1.33	1337.85	1319	37	2.3	3.73	
20	7	386.84	222	3932	1.10	1470.15	1464	25	0.0	13.36	1.0
21	7	388.73	241	982	1.10	1477.55	1464	25	0.0	12.42	
22	0	464.82	261	1135	1.42	1727.95	1717	23	0.0	22.00	
23	0	477.40	117	854	1.50	1813.57	1805	36	0.0	21.82	
24	0	480.46	212	966	1.51	1825.17	1805	36	0.0	12.87	
25	0	497.16	274	788	1.53	1850.59	1805	36	0.0	10.44	
26	0	510.04	608	1235	2.46	1940.76	1924	31	0.0	14.91	
27	0	533.64	87	462	0.33	2026.84	2020	10	0.0	45.88	
28	0	579.89	82	744	1.09	2202.25	2192	18	0.0	67.44	
29	0	609.14	22480	1070	1.50	2313.14	2301	30	1.6	0.76	
30	0	665.19	644	537	1.64	2525.70	2515	23	0.0	8.33	
31	0	702.91	196	520	0.91	2668.73	2658	23	0.0	25.25	
32	0	719.55	134	493	1.11	2731.84	2721	20	0.0	35.64	
33	0	752.76	56	308	1.03	2857.77	2852	14	0.0	58.76	
34	0	768.07	2093	621	1.81	2915.85	2901	28	0.1	9.58	
35	0	785.64	474	431	1.15	2982.46	2975	17	0.0	9.72	
36	0	805.91	454	493	1.46	3059.35	3050	20	0.0	11.22	
37	0	838.69	326	518	2.02	3183.64	3174	23	0.0	18.33	
38	0	910.76	116	428	1.34	3456.93	3449	17	0.0	36.07	
39	0	933.65	1103	483	1.02	3543.75	3534	23	0.1	5.22	
40	0	963.98	176	531	1.77	3658.76	3642	27	0.0	37.62	

	Pk	It	Energy	Area	Bkgnd	FWHM	Channel	Left	RW	Cts/Sec	%Err	Fit
M	41	32	1044.72	11	317	1.91	3964.95	3959	44	0.0	95.30	1.23
m	42	32	1051.53	109	390	1.92	3990.77	3959	44	0.0	14.32	
	43	0	1069.43	91	224	1.19	4058.65	4052	14	0.0	31.80	
	44	0	1119.74	4816	567	1.83	4249.42	4234	34	0.3	1.92	
	45	0	1133.61	115	266	0.64	4302.03	4295	19	0.0	30.41	
	46	0	1154.69	569	408	1.16	4381.96	4370	24	0.0	8.98	
	47	0	1207.12	100	307	1.28	4580.81	4572	20	0.0	37.68	
	48	0	1237.49	1729	411	1.77	4695.96	4682	28	0.1	3.68	
	49	0	1252.82	106	234	1.07	4754.11	4747	19	0.0	31.13	
	50	0	1290.37	473	341	1.80	4858.58	4844	31	0.0	10.73	
M	51	3	1376.96	1392	303	2.04	5224.87	5211	54	0.1	2.95	0.75
m	52	3	1384.50	232	271	2.04	5253.45	5211	54	0.0	8.76	
M	53	4	1400.82	332	258	1.91	5315.34	5306	49	0.0	6.99	0.6
m	54	4	1407.26	691	265	1.92	5339.77	5306	49	0.0	4.39	
	55	0	1460.04	510	266	1.53	5539.91	5500	27	0.0	8.71	
	56	0	1508.48	534	420	2.03	5723.60	5707	28	0.0	10.11	
M	57	12	1537.94	61	310	1.76	5835.34	5825	41	0.0	26.65	1.0
m	58	12	1542.71	140	268	1.76	5853.42	5825	41	0.0	13.64	
	59	0	1582.36	231	261	1.90	6003.77	5993	29	0.0	18.13	
	60	0	1598.13	16	187	0.67	6063.59	6057	17	0.0	169.19	
	61	0	1660.54	267	120	1.99	6300.23	6289	24	0.0	11.03	
	62	0	1728.89	931	150	2.13	6559.44	6545	29	0.1	4.56	
	63	0	1763.76	4045	138	2.13	6691.68	6678	33	0.3	1.74	
M	64	4	1837.83	69	50	2.24	6972.56	6964	57	0.0	15.16	0.3
m	65	4	1846.75	625	81	2.24	7006.40	6964	57	0.0	4.24	
	66	0	1872.47	43	88	1.03	7103.91	7090	24	0.0	51.11	
	67	0	2016.52	37	40	0.51	7650.17	7642	17	0.0	36.86	
	68	0	2118.22	296	13	1.52	8035.87	8024	27	0.0	6.71	

M = First peak in a multiplet region or fitted singlet  
 m = Other peak in a multiplet region

Errors quoted at 1.000 sigma

\*\*\*\*\*  
 \*\*\*\*\* N U C L I D E I D E N T I F I C A T I O N R E P O R T \*\*\*\*\*  
 \*\*\*\*\*

Sample Title: 500ml marinelli  
 Nuclide Library Used: C:\GENIE2K\CAMFILES\STDLIB.NLE

..... IDENTIFIED NUCLIDES .....

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (pCi/g)	Activity Uncertainty
SE-7	0.994	477.59*	10.42	4.72475E-001	1.03885E-001
K-40	0.917	1460.81*	10.67	4.20071E+000	3.80690E-001
I-126	0.991	388.63*	29.10	5.24106E-001	7.91815E-002
PB-212	0.916	74.81*	9.60	1.19618E+001	9.88224E-001
		77.11*	17.50	1.15687E+001	7.90751E-001
		87.20*	6.30	1.10740E+001	4.63206E-001
		89.80*	1.75	1.50815E+001	8.86538E-001
		115.19	0.60		
		238.63*	44.60	1.51873E-001	1.91394E-002
		300.09	3.41		
BI-214	0.966	609.31*	46.30	2.06685E+001	4.67125E-001
		768.36*	5.04	2.13734E+001	8.80107E-001
		806.17*	1.23	1.97612E+001	2.25174E+000
		934.06*	3.21	2.08495E+001	1.17223E+000
		1120.29*	15.10	2.25987E+001	6.18593E-001
		1155.19*	1.69	2.44860E+001	2.25201E+000
		1339.11*	5.94	2.24322E+001	9.54437E-001
		1280.96*	1.47	2.55028E+001	2.79273E+000
		1377.67*	4.11	2.84579E+001	1.05825E+000
		1385.31*	0.73	2.50620E+001	2.26948E+000
		1401.50*	1.39	2.03490E+001	1.49631E+000
		1407.98*	2.43	2.38231E+001	1.17901E+000
		1509.19*	2.19	2.19863E+001	2.27767E+000
		1661.29*	1.15	2.24123E+001	2.52434E+000
1729.60*	3.05	3.02555E+001	1.56732E+000		
1764.49*	15.80	2.56897E+001	8.03653E-001		
1847.44*	2.12	3.04056E+001	1.60826E+000		
2119.54*	1.21	2.68687E+001	2.59608E+000		
PE-214	0.999	74.81*	6.33	1.81414E+001	1.49875E+000
		77.11*	10.70	1.89210E+001	1.29330E+000
		87.20*	3.70	1.88566E+001	7.98716E-001
		89.80*	1.03	2.56243E+001	1.50628E+000
		241.98*	7.49	2.39082E+001	7.61357E-001
		295.21*	19.20	2.33958E+001	7.04125E-001
		351.92*	37.20	2.36390E+001	6.04011E-001
785.91*	1.10	2.26111E+001	2.24417E+000		
RA-226	0.998	186.21*	3.28	3.55723E+001	1.37359E+000
AC-228	0.523	338.32*	11.40	4.61233E-001	8.93235E-002
		911.60*	27.70	2.49125E-001	8.99893E-002
TH-231	0.999	969.11	16.60		
		26.64	18.70		
		84.21*	8.00	8.67770E-001	1.67588E-001

Nuclide Name	Id Confidence	Energy (keV)	Yield (%)	Activity (pCi/g)	Activity Uncertainty
TH-231	0.999	89.95*	1.25	2.11141E+001	1.24115E+000
U-235	0.456	89.96*	1.50	1.75951E+001	1.03429E+000
		93.35	2.50		
		105.00	1.00		
		109.14	1.50		
		143.76	10.50		
		163.35	4.70		
		185.71*	54.00	2.16065E+000	9.03947E-002
		202.12	1.00		
		205.31	4.70		

\* = Energy line found in the spectrum.

@ = Energy line not used for Weighted Mean Activity

Energy Tolerance : 0.500 FWHM

Nuclide confidence index threshold = 0.30

Errors quoted at 1.000 sigma



## \*\*\*\*\* UNIDENTIFIED PEAKS \*\*\*\*\*

Peak Locate Performed on: 9/05/00 1:12:01 PM  
 Peak Locate From Channel: 5  
 Peak Locate To Channel: 8192

Peak No.	Energy (keV)	Peak Size in Counts per Second	Peak CPS % Uncertainty
1	22.92	4.9051E-002	12.04
2	32.72	-7.6389E-003	-95.74
3	46.80	1.7465E-002	41.98
9	112.48	2.0486E-003	263.21
11	209.15	1.7824E-002	37.06
14	258.99	4.9722E-002	16.63
15	274.64	2.3507E-002	21.43
M 17	333.30	1.3146E-002	19.75
M 20	383.84	1.5400E-002	13.35
22	454.82	1.8148E-002	29.00
m 24	480.46	1.4725E-002	12.87
m 25	487.16	1.9057E-002	10.44
26	510.94	4.2234E-002	14.91
27	533.64	6.0069E-003	45.48
28	579.89	5.6944E-003	67.44
30	665.19	4.4745E-002	8.83
31	702.91	1.3611E-002	25.25
32	719.55	9.2824E-003	35.66
33	752.76	3.8889E-003	58.76
37	838.69	2.2604E-002	18.33
40	903.98	1.2222E-002	31.62
M 41	1044.72	7.9380E-004	95.30
m 42	1051.53	7.5589E-003	14.32
43	1069.43	6.3194E-003	31.80
45	1139.61	7.9851E-003	30.41
47	1207.12	6.9676E-003	37.68
49	1282.82	7.3980E-003	31.13
M 57	1537.94	4.2405E-003	26.65
m 58	1542.71	9.7246E-003	13.64
59	1582.36	1.6042E-002	18.13
60	1598.13	1.1111E-003	169.19
M 64	1837.83	4.7772E-003	15.16
66	1872.47	2.9361E-003	51.11
67	2016.52	2.5926E-003	36.86

M = First peak in a multiplet region  
 m = Other peak in a multiplet region  
 F = Fitted singlet

Errors quoted at 1.000 sigma





Nuclide Name	Energy (keV)	Yield (%)	Line MDA (pCi/g)	Nuclide MDA (pCi/g)	Activity (pCi/g)
PA-234	94.67	15.56	5.1405E-001	2.80E-001	-2.4241E-001
	98.44	25.10	2.7978E-001		-4.5323E-001
	111.00	3.55	7.4510E-001		-6.7009E-001
	131.28	20.00	2.4906E-001		-1.2485E-001
	152.70	7.20	8.8509E-001		7.9846E-001
	226.87	6.50	9.7329E-001		-3.7495E-001
	569.26	10.40	6.2029E-001		4.8969E-001
	733.00	8.50	8.0226E-001		-6.3676E-001
	883.24	12.00	6.7298E-001		-4.4856E-001
	946.00	20.00	3.9040E-001		-1.8752E-001
	949.00	7.80	1.0074E+000		3.7564E-001
	PA-234M	1001.03	0.59		1.3586E+001
TH-234	63.29	4.50	7.0562E+000	5.07E+000	-4.0761E+000
	92.38	2.60	5.3204E+000		-1.0701E+000
	92.80	2.60	5.0716E+000		-8.2080E-001
	112.81	0.26	3.6334E+001		4.1349E+001

! = Nuclide identified during the nuclide identification

\* = Energy line found in the spectrum

> = MDA value not calculated

@ = Half-life too short to be able to perform the decay correction

District I - (505) 393-6161  
 P.O. Box 1980  
 Hobbs, NM 88241-1980  
 District II - (505) 748-1283  
 811 S. First  
 Artesia, NM 88210  
 District III - (505) 334-6178  
 Rio Brazos Road  
 Roswell, NM 87410  
 District IV - (505) 827-7131

New Mexico  
 Energy, Minerals and Natural Resources Department  
 Oil Conservation Division  
 2040 South Pacheco Street  
 Santa Fe, New Mexico 87505  
 (505) 827-7131

Form C-138  
 Originated 8/8/95

Submit Original  
 Plus 1 Copy  
 to appropriate  
 District Office

Env. JN: 92142

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input checked="" type="checkbox"/> Non-Exempt: <input type="checkbox"/>	4. Generator <u>PESCO</u>
Verbal Approval Received: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	5. Originating Site <u>Main Yard</u>
2. Management Facility Destination <u>Envirotech Soil Remediation Facility Landfarm #2</u>	6. Transporter <u>Envirotech</u>
3. Address of Facility Operator <u>5796 US Highway 64 Farmington, NM 87401</u>	8. State <u>New Mexico</u>
7. Location of Material (Street Address or ULSTR)	<u>5680 US Hwy 64 Farmington, NM 87401</u>
9. <u>Circle One:</u>	
A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.	
All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

Solids generated from cleaning & refurbishing production storage tanks, separators, dehydrators and production equipment



Estimated Volume 22 1/3 cy boxes Known Volume (to be entered by the operator at the end of the haul) 7 1/3 cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 10.10.00  
 Waste Management Facility Authorized Agent  
 TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Denny Faust TITLE: Geologist DATE: 10/11/00  
 APPROVED BY: Art Hauber TITLE: Geologist DATE: 10/11/00

Danny Fast  
10.10.00  
9:15

Jn: 92142

## CERTIFICATE OF WASTE STATUS

<b>1. Generator Name and Address:</b> PESCO 5680 Highway 64 Farmington, New Mexico 87401	<b>2. Destination Name:</b> Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico
<b>3. Originating Site (name):</b> Process Equipment & Service Company 5680 US Highway 64 Farmington, New Mexico 87401  <i>Attach list of originating sites as appropriate</i>	<b>Location of the Waste (Street address &amp;/or ULSTR):</b> Mainyard, stored in 55 gallon drums & 18 Cubic Foot Steel Boxes.
<b>4. Source and Description of Waste</b> Solids generated from cleaning and refurbishing production storage tanks, separators, dehydrators, and other production equipment.	

I, Gary Howe (Print Name) representative for:  
Process Equipment and Service Company, Inc. do hereby certify that,  
according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July,  
1988, regulatory determination, the above described waste is: (Check appropriate classification)

EXEMPT oilfield waste       NON-EXEMPT oilfield waste which is non-hazardous by characteristic analysis or by product identification

and that nothing has been added to the exempt or non-exempt non-hazardous waste defined above.

For NON-EXEMPT waste only the following documentation is attached (check appropriate items):

MSDS Information       Other (description):  
 RCRA Hazardous Waste Analysis  
 Chain of Custody

Name (Original Signature): Danny Howe

Title: Safety Director

Date: 10-10-2000



# Process Equipment & Service Company, Inc.

5680 U.S. HIGHWAY 64 • 87401 / P.O. BOX 929 • 87499  
FARMINGTON, NEW MEXICO  
PHONE: (505) 327-2222 • FAX: (505) 327-7550

## NORM SURVEY DATA SHEET

Facility / location: PESCO Date: 10-10-2000

Meter Model: DOSIMETER 3007A Serial No: 9808-238

Detector Model: DOSIMETER 3012 Serial No: 201-887-7100

Calibration Date: 4-5-99

Battery Check: (X)

Background Radiation Level: 0.03 mR/hr

Description of material surveyed:

22 Buckets of Exempt Material from  
VARIOUS LOCATIONS

### Item / Material Surveyed:

Waste Material: \_\_\_\_\_ approx. gals

Equipment:

mR/hr: 0.03

Manufacturer: \_\_\_\_\_

Serial No: \_\_\_\_\_

Description: N/A

Job No: \_\_\_\_\_

Comments:

Survey Conducted by:

GARY W HOWE  
(Print Name)

Gary W Howe  
(Signature)

District I - (505) 393-6161  
 P. O. Box 1980  
 Hobbs, NM 88241-1980  
 District II - (505) 748-1283  
 811 S. First  
 Artesia, NM 88210  
 District III - (505) 334-6178  
 Rio Brazos Road  
 NM 87410  
 District IV - (505) 827-7131

New Mexico  
**Energy Minerals and Natural Resources Department**  
**Oil Conservation Division**  
 2040 South Pacheco Street  
 Santa Fe, New Mexico 87505  
 (505) 827-7131

Form C-138  
 Originated 8/8/95

Submit Original  
 Plus 1 Copy  
 to appropriate  
 District Office

Env. JN: 97018-01

**REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE**

1. RCRA Exempt: <input checked="" type="checkbox"/> Non-Exempt: <input type="checkbox"/> <i>Denny Faust 10-3-00 9:50</i> Verbal Approval Received: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	4. Generator <u>NATCO</u>
2. Management Facility Destination <u>Envirotech Soil Remediation Facility Landfarm #2</u>	5. Originating Site <u>Main Yard</u>
3. Address of Facility Operator <u>5796 US Highway 64 Farmington, NM 87401</u>	6. Transporter <u>Envirotech</u>
7. Location of Material (Street Address or ULSTR)	8. State <u>New Mexico</u> <u>2855 Southside River Rd Farmington NM 87401</u>
9. <u>Circle One:</u> A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.	
All transporters must certify the wastes delivered are only those consigned for transport.	

**BRIEF DESCRIPTION OF MATERIAL:**

*Sludge, scale, solids from cleaning & refurbishing oil & gas production equipment  
 Nois analysis & equipment list Attached*



Estimated Volume 4 cu Known Volume (to be entered by the operator at the end of the haul) 4 cu

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 10-3-00  
 Waste Management Facility Authorized Agent  
 TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

*(This space for State Use)*

APPROVED BY: <u>Denny Faust</u>	TITLE: <u>Geologist</u>	DATE: <u>10/11/00</u>
APPROVED BY: <u>[Signature]</u>	TITLE: <u>Geologist</u>	DATE: <u>10/11/00</u>



NEW MEXICO ENERGY, MINERALS  
& NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION  
AZTEC DISTRICT OFFICE  
1000 RIO BRAZOS ROAD  
AZTEC, NEW MEXICO 87410  
(505) 334-8178 Fax (505) 334-8170

GARY E. JOHNSON  
GOVERNOR

JENNIFER A. SALISBURY  
CABINET SECRETARY

## CERTIFICATE OF WASTE STATUS

<p>1. Generator Name and Address:</p> <p>Natco 2855 Southside River Rd Farmington NM 87401</p>	<p>2. Destination Name:</p> <p>Envirotech Inc. Soil Remediation Remediation Facility Landfarm #2, Hilltop, New Mexico 5796 US Hwy 64, Farmington, NM 87401</p>
<p>3. Originating Site (name): Location of the Waste (Street address &amp;/or ULSTRI):</p> <p>Solids generated during the cleaning of oil and gas production equipment in Natcos yard.</p> <p>Attach list of originating sites as appropriate</p>	
<p>4. Source and Description of Waste</p> <p>Contaminated dirt and sludge, from various locations See attached list</p>	

I, Richard Lambert representative for:  
(Print Name)

National Tank Co. Farmington do hereby certify that, according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July, 1988, regulatory determination, the above described waste is: (Check appropriate classification)

XXX  
 EXEMPT oilfield waste       NON-EXEMPT oilfield waste which is non-hazardous by characteristic analysis or by product identification

and that nothing has been added to the exempt or non-exempt non-hazardous waste defined above.

For NON-EXEMPT waste the following documentation is attached (check appropriate items):

MSDS Information       Other (description):  
 RCRA Hazardous Waste Analysis  
 Chain of Custody

This waste is in compliance with Regulated Levels of Naturally Occurring Radioactive Material (NORM) pursuant to 20 NMAC 3.1 subpart 1403.C and D.

Name (Original Signature): Richard Lambert

Title: Shop Supervisor

Date: 10/2/00

7. 00  
8  
9 - 00

WASTE SOLIDS		
COMPANY	LOCATION	JOB NUMBER
Crosstimbers	Johnston B#1	73021236
Crosstimbers	Hedgeau LA1	73021237
"	"	"
"	Pollock FIR	73021238
"	"	"
"	Stardobard B#1	73021239
COJOCO	C-152	73021241
COJOCO	C-153	73021242
COJOCO	C-156	73021243
COJOCO	C-155	73021244
Envegen	Charon JOC A/D10	73021245
COJOCO	C-163	73021246
COJOCO	C-162	73021247
COJOCO	C-157	73021248
COJOCO	C-158	73021249
COJOCO	C-92	73021252
Burlington	Hawks NE	73021256
Burlington	I 761	73021257
Texaco	Blasco 3A	73021485
COJOCO	C-168	73021486
COJOCO	C-167	73021487
COJOCO	C-172	73021488
COJOCO	C-165	73021500
COJOCO	C-173	73021501
COJOCO	C-176	73021502
Crosstimbers	Martinez Gr Cam 17	73021751
AMACO	Bochi #3	73021756
Burlington	I 690	73021615
Burlington	I 636	73021616
Crosstimbers	FCC GC #2	73021621
Envegen	30-4 #9	73021622
AMACO	GCH 222 DK	73021623
Crosstimbers	Galagos	73021624
AMACO	Day 2 E	
Envegen	Thunder Hughes #14	73021930
Burlington	Graven ASE	73022059
Crosstimbers	Boback HA	73022061
Envegen	JOC L-10	73022070
Crosstimbers	Wk Jordan #5	73022072
Burlington	I 751	73022073
Crosstimbers	JC Gorden D#2	73022081
Burlington	I 638	73022259
Texaco	T-33	73022260



**INSPECTION FOR N.O.R.M. CONTAMINATION**

Location: Auto's yard (Wash rack) Date: 9-26-00

Survey instrument model: Ludlum Model 3-98 Last calibrated: 8-12-99

Item description: 4- Blue disposal barrels

Number of pieces: 4

Location where items originated: Units off of wash rack

Background reading: 17 to 18 uR/hr

Highest NORM reading: 22 uR/hr (corrected for background)

Lowest NORM reading: 16 uR/hr (corrected for background)

Any samples taken? If so, how many? 0

4 barrel Pieces inspected.

4 barrel Pieces found to be free of NORM contamination.

0 Pieces found to have NORM contamination.

Barrel #1 Hi: 21 Low: 17  
 Barrel #2 Hi: 22 Low: 16  
 Barrel #3 Hi: 20 Low: 16  
 Barrel #4 Hi: 21 Low: 17

Remarks: Barrels are sealed and ok to be transported to be disposed of.

Inspector: Jesse B. Manzanares

What is final disposition? Barrels are ok to be disposed of.

Released to: Whom it may concern Date: 9-26-00

District I - (505) 393-6161  
 P.O. Box 980  
 Hobbs, NM 88241-1980  
 District II - (505) 748-1283  
 811 S. First  
 Artesia, NM 88210  
 District III - (505) 334-6178  
 1 Rio Brazos Road  
 Roswell, NM 87410  
 District IV - (505) 827-7131

New Mexico  
 Energy Minerals and Natural Resources Department  
 Oil Conservation Division  
 2040 South Pacheco Street  
 Santa Fe, New Mexico 87505  
 (505) 827-7131

Form C-138  
 Originated 8/8/95  
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 to appropriate  
 District Office

RECEIVED  
 OCT 03 2000  
 Environmental Bureau  
 Oil Conservation Division  
 Env. JN: 98059.01

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/>	4. Generator <u>Universal Compression</u>
Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	5. Originating Site <u>Wash Way Solids</u>
2. Management Facility Destination <u>Envirotech Soil Remediation Facility Landfarm #2</u>	6. Transporter <u>Servano's</u>
3. Address of Facility Operator <u>5796 US Highway 64 Farmington, NM 87401</u>	8. State <u>New Mexico</u>
7. Location of Material (Street Address or ULSTR)	<u>1125 US Hwy 516 ARTEC, NM, 87410</u>
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

Continuation of Wash bay solids

Never shipped 4/12/01  
DJB



Estimated Volume 17661.5 cy Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_ cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 9.27.00  
 Waste Management Facility Authorized Agent  
 TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Denny Ford TITLE: Geologist DATE: 9/27/00  
 APPROVED BY: Mark A. Kelly TITLE: Environmental Geologist DATE: 10-3-00

District I - (505) 393-6161  
 P.O. Box 1980  
 Hobbs, NM 88241-1980  
 District II - (505) 748-1283  
 811 S. First  
 Artesia, NM 88210  
 District III - (505) 334-6178  
 Rio Brazos Road  
 Artesia, NM 87410  
 District IV - (505) 827-7131

New Mexico  
 Energy Minerals and Natural Resources Department  
 Oil Conservation Division  
 2040 South Pacheco Street  
 Santa Fe, New Mexico 87505  
 (505) 827-7131

Form C-138  
 Originated 8/8/95

Submit Original  
 Plus 1 Copy  
 to appropriate  
 District Office

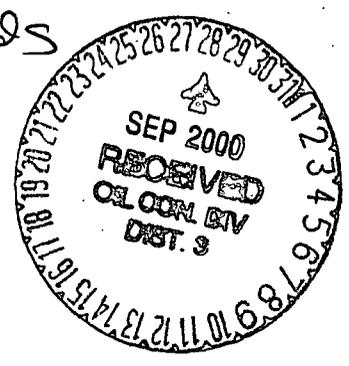
Env. JN: 98059.01

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/>	4. Generator <u>Universal Compression</u>
Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	5. Originating Site <u>Wash Bay Solids</u>
2. Management Facility Destination <u>Envirotech Soil Remediation Facility Landfarm #2</u>	6. Transporter <u>Serrano's</u>
3. Address of Facility Operator <u>5796 US Highway 64 Farmington, NM 87401</u>	8. State <u>New Mexico</u>
7. Location of Material (Street Address or ULSTR)	<u>1125 US Hwy 516 ARTEC, NM, 87410</u>
9. <u>Circle One:</u> A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.  All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

Continuation of Wash bay solids



Estimated Volume 17665 cy Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_ cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 9.27.00  
 Waste Management Facility Authorized Agent  
 TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Denny Fent TITLE: Geologist DATE: 9/28/00  
 APPROVED BY: \_\_\_\_\_ TITLE: \_\_\_\_\_ DATE: \_\_\_\_\_



# NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION  
AZTEC DISTRICT OFFICE  
1000 RIO BRAZOS ROAD  
AZTEC, NEW MEXICO 87410  
(505) 334-6178 Fax (505) 334-6170

GARY E. JOHNSON  
GOVERNOR

JENNIFER A. SALISBURY  
CABINET SECRETARY

## CERTIFICATE OF WASTE STATUS

<b>1. Generator Name and Address:</b> Universal Compression 1125 US Hwy 516 Aztec, N.M. 87410	<b>2. Destination Name:</b> Envirotech Inc. Soil Remediation Remediation Facility Landfarm #2, Hilltop, New Mexico 5796 IIS Hwy 64, Farmington, NM 87401
<b>3. Originating Site (name):</b> <span style="float: right;"><b>Location of the Waste (Street address &amp;/or ULSTR):</b></span> 1125 U.S. Hwy 516 Aztec, N.M. 87410  <small>Attach list of originating sites as appropriate</small>	
<b>4. Source and Description of Waste</b> Wastewater From washing Compressors & Equipment	

I, Gregg Self representative for: \_\_\_\_\_  
(Print Name)

Universal Compression, Inc. do hereby certify that, according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July, 1988, regulatory determination, the above described waste is: (Check appropriate classification)

EXEMPT oilfield waste

NON-EXEMPT oilfield waste which is non-hazardous by characteristic analysis or by product identification

and that nothing has been added to the exempt or non-exempt non-hazardous waste defined above.

For NON-EXEMPT waste the following documentation is attached (check appropriate items):

- MSDS Information
- RCRA Hazardous Waste Analysis
- Chain of Custody
- Other (description): \_\_\_\_\_

This waste is in compliance with Regulated Levels of Naturally Occurring Radioactive Material (NORM) pursuant to 20 NMAC 3.1 subpart 1403.C and D.

Name (Original Signature): [Signature]  
 Title: Applications Coordinator  
 Date: 9-27-00

# ENVIROTECH INC.

**PRactical SOLUTIONS FOR A BETTER TOMORROW**

## REAFFIRMATION OF WASTE STATUS / NON-EXEMPT WASTE

I hereby certify that the attached Request For Approval and Certificate of Waste Status are for materials generated using the same procedures and equipment employed to generate the waste on which Toxicity Characteristic Leaching Procedures (TCLP) analysis was performed. I further certify that said material is from operations in the immediate Four Corners area.

Date of TCLP 12-3-99

Printed Name Gregg A. Seif

Title / Agency Universal Compression

Address 1254 S. Hwy 516  
Artes, N.M. 87410

Signature *Gregg A. Seif*

Date 9-27-00

## SUSPECTED HAZARDOUS WASTE ANALYSIS

Client:	Universal Compression	Project #:	805901
Sample ID:	Compressor Lube	Date Reported:	12-03-99
Lab ID#:	G526	Date Sampled:	12-01-99
Sample Matrix:	Soil	Date Received:	12-01-99
Preservative:	Cool	Date Analyzed:	12-03-99
Condition:	Cool and Intact	Chain of Custody:	7582

Parameter	Result
-----------	--------

<b>IGNITABILITY:</b>	<b>Negative</b>	
<b>CORROSIVITY:</b>	<b>Negative</b>	<b>pH = 8.29</b>
<b>REACTIVITY:</b>	<b>Negative</b>	

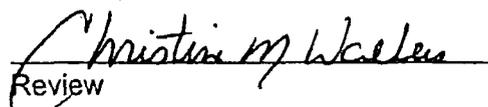
### RCRA Hazardous Waste Criteria

Parameter	Hazardous Waste Criterion
IGNITABILITY:	Characteristic of Ignitability as defined by 40 CFR, Subpart C, Sec. 261.21. (i.e. Sample ignition upon direct contact with flame or flash point < 60° C.)
CORROSIVITY:	Characteristic of Corrosivity as defined by 40 CFR, Subpart C, Sec. 261.22. (i.e. pH less than or equal to 2.0 or pH greater than or equal to 12.5)
REACTIVITY:	Characteristic of Reactivity as defined by 40 CFR, Subpart C, Sec. 261.23. (i.e. Violent reaction with water, strong base, strong acid, or the generation of Sulfide or Cyanide gases at STP with pH between 2.0 and 12.5)

Reference: 40 CFR part 261 Subpart C sections 261.21 - 261.23, July 1, 1992.

Comments: **U.S Hwy 550.**  
**Field PHC; Spills & Leaks.**

  
Analyst

  
Review

# ENVIROTECH LABS

**PRACTICAL SOLUTIONS FOR A BETTER TOMORROW**

EPA METHODS 8010/8020  
AROMATIC / HALOGENATED  
VOLATILE ORGANICS

Client:	Universal Compression	Project #:	805901
Sample ID:	Compressor Lube	Date Reported:	12-08-99
Laboratory Number:	G526	Date Sampled:	12-01-99
Chain of Custody:	7582	Date Received:	12-01-99
Sample Matrix:	TCLP Extract	Date Extracted:	12-03-99
Preservative:	Cool	Date Analyzed:	12-07-99
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	0.0023	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	0.0138	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

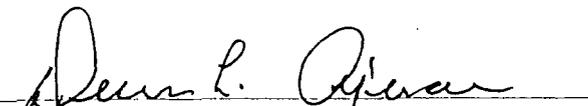
ND - Parameter not detected at the stated detection limit.

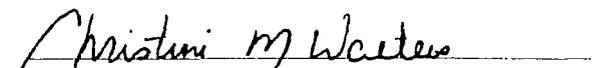
QA/QC Acceptance Criteria	Parameter	Percent Recovery
	Trifluorotoluene	98%
	Bromofluorobenzene	99%

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.  
Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994.  
Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Note: Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments: U.S. Hwy. 550. Field PHC; Spills & Leaks.

  
Analyst

  
Review

450

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA METHOD 8040 PHENOLS

Client:	Universal Compression	Project #:	805901
Sample ID:	Compressor Lube	Date Reported:	12-07-99
Laboratory Number:	G526	Date Sampled:	12-01-99
Chain of Custody:	7582	Date Received:	12-01-99
Sample Matrix:	TCLP Extract	Date Extracted:	12-03-99
Preservative:	Cool	Date Analyzed:	12-07-99
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	ND	0.020	200
p,m-Cresol	ND	0.040	200
2,4,6-Trichlorophenol	ND	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400
Pentachlorophenol	ND	0.020	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	2-Fluorophenol	98%
	2,4,6-Tribromophenol	99%

References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

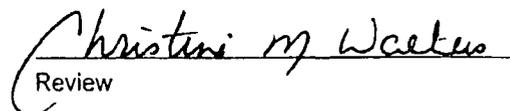
Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

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

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments: U. S. Hwy. 550. Field PHC; Spills & Leaks.

  
Analyst

  
Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8090  
Nitroaromatics and Cyclic Ketones  
TCLP Base/Neutral Organics

Client:	Universal Compression	Project #:	805901
Sample ID:	Compressor Lube	Date Reported:	12-07-99
Laboratory Number:	G526	Date Sampled:	12-01-99
Chain of Custody:	7582	Date Received:	12-01-99
Sample Matrix:	TCLP Extract	Date Extracted:	12-03-99
Preservative:	Cool	Date Analyzed:	12-07-99
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	0.020	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

ND - Parameter not detected at the stated detection limit.

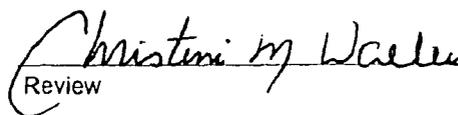
QA/QC Acceptance Criteria	Parameter	Percent Recovery
	2-fluorobiphenyl	97%

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.  
Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note: Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments: U. S. Hwy. 550. Field PHC; Spills & Leaks.

  
Analyst

  
Review

# ENVIROTECH LABS

**PRACTICAL SOLUTIONS FOR A BETTER TOMORROW**

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

Client:	Universal Compression	Project #:	805901
Sample ID:	Compressor Lube	Date Reported:	12-08-99
Laboratory Number:	G526	Date Sampled:	12-01-99
Chain of Custody:	7582	Date Received:	12-01-99
Sample Matrix:	TCLP Extract	Date Analyzed:	12-08-99
Preservative:	Cool	Date Extracted:	12-03-99
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
Arsenic	0.050	0.001	5.0
Barium	1.05	0.001	21
Cadmium	0.053	0.001	0.11
Chromium	0.025	0.001	0.60
Lead	0.073	0.001	0.75
Mercury	0.005	0.001	0.025
Selenium	0.029	0.001	5.7
Silver	0.098	0.001	0.14

ND - Parameter not detected at the stated detection limit.

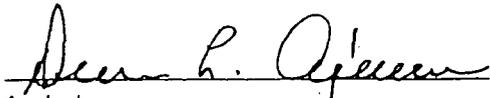
References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, December 1996.

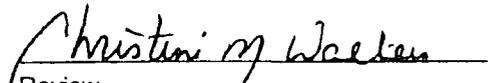
Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, December 1996.

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

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

Comments: U. S. Hwy. 550. Field PHC; Spills & Leaks.

  
Analyst

  
Review

# ENVIROTECH LABS

**PRACTICAL SOLUTIONS FOR A BETTER TOMORROW**

**QUALITY ASSURANCE / QUALITY CONTROL**

**DOCUMENTATION**

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	12-08-99
Laboratory Number:	12-07-TCLP VOL	Date Sampled:	N/A
Sample Matrix:	Water	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	12-07-99
Condition:	N/A	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	ND	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	ND	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

ND - Parameter not detected at the stated detection limit.

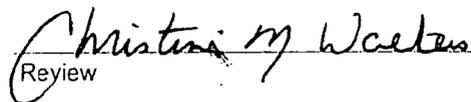
QA/QC Acceptance Criteria	Parameter	Percent Recovery
	Trifluorotoluene	100%
	Bromofluorobenzene	100%

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.  
Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994.  
Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Note: Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments: QA/QC for sample G525 - G526.

  
Analyst

  
Review

# ENVIROTECH LABS

**PRACTICAL SOLUTIONS FOR A BETTER TOMORROW**

EPA METHODS 8010/8020  
AROMATIC / HALOGENATED  
VOLATILE ORGANICS  
Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	12-08-99
Laboratory Number:	12-03-TCLP VOL	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	12-07-99
Condition:	N/A	Date Extracted:	12-03-99
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	ND	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	ND	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

ND - Parameter not detected at the stated detection limit.

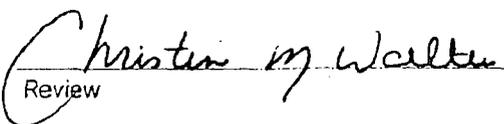
QA/QC Acceptance Criteria	Parameter	Percent Recovery
	Trifluorotoluene	99%
	Bromofluorobenzene	98%

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.  
Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994.  
Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Note: Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments: QA/QC for sample G525 - G526.

  
Analyst

  
Review

# ENVIROTECH LABS

**PRACTICAL SOLUTIONS FOR A BETTER TOMORROW**

## EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS QUALITY ASSURANCE REPORT

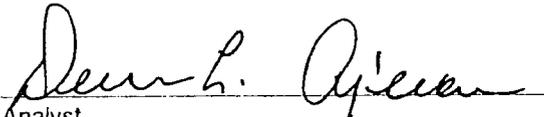
Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	12-08-99
Laboratory Number:	G525	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	12-07-99
Condition:	N/A	Date Extracted:	12-03-99

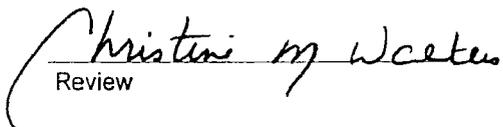
Parameter	Sample Result (mg/L)	Duplicate Sample Result (mg/L)	Detection Limits (mg/L)	Percent Difference
Vinyl Chloride	ND	ND	0.0001	0.0%
1,1-Dichloroethene	ND	ND	0.0001	0.0%
2-Butanone (MEK)	0.0026	0.0026	0.0001	0.0%
Chloroform	ND	ND	0.0001	0.0%
Carbon Tetrachloride	ND	ND	0.0001	0.0%
Benzene	0.0050	0.0050	0.0001	0.0%
1,2-Dichloroethane	ND	ND	0.0001	0.0%
Trichloroethene	ND	ND	0.0003	0.0%
Tetrachloroethene	ND	ND	0.0005	0.0%
Chlorobenzene	ND	ND	0.0003	0.0%
1,4-Dichlorobenzene	ND	ND	0.0002	0.0%

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.  
Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994.  
Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Comments: QA/QC for sample G525 - G526.

  
Analyst

  
Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHODS 8010/8020  
AROMATIC / HALOGENATED  
VOLATILE ORGANICS  
QUALITY ASSURANCE REPORT

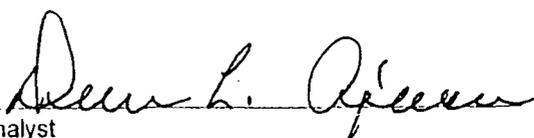
Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Spike	Date Reported:	12-08-99
Laboratory Number:	G525	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	12-07-99
Condition:	N/A	Date Extracted:	N/A

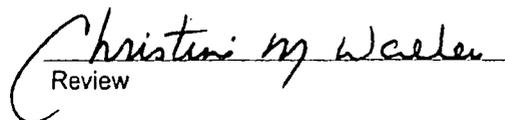
Parameter	Sample Result (mg/L)	Spike Added (mg/L)	Spiked Sample Result (mg/L)	Det. Limit (mg/L)	Percent Recovery	SW-846 % Rec. Accept. Range
Vinyl Chloride	ND	0.050	0.0495	0.0001	99%	28-163
1,1-Dichloroethene	ND	0.050	0.0494	0.0001	99%	43-143
2-Butanone (MEK)	0.0026	0.050	0.0521	0.0001	99%	47-132
Chloroform	ND	0.050	0.0498	0.0001	100%	49-133
Carbon Tetrachloride	ND	0.050	0.0491	0.0001	98%	43-143
Benzene	0.0050	0.050	0.0548	0.0001	100%	39-150
1,2-Dichloroethane	ND	0.050	0.0494	0.0001	99%	51-147
Trichloroethene	ND	0.050	0.0494	0.0003	99%	35-146
Tetrachloroethene	ND	0.050	0.0494	0.0005	99%	26-162
Chlorobenzene	ND	0.050	0.0494	0.0003	99%	38-150
1,4-Dichlorobenzene	ND	0.050	0.0494	0.0002	99%	42-143

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.  
Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994.  
Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Comments: QA/QC for sample G525 - G526.

  
Analyst

  
Review

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	12-07-99
Laboratory Number:	12-07-TCA-Blank	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	12-07-99
Condition:	N/A	Analysis Requested:	TCLP

Analytical Results	Concentration	Detection	Regulatory
Parameter	(mg/L)	Limit	Limit
		(mg/L)	(mg/L)
o-Cresol	ND	0.020	200
p,m-Cresol	ND	0.040	200
2,4,6-Trichlorophenol	ND	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400
Pentachlorophenol	ND	0.020	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	2-fluorophenol	98 %
	2,4,6-tribromophenol	99 %

References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

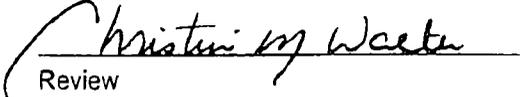
Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

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

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments: QA/QC for sample G525 - G526.

  
Analyst

  
Review

# FENVIROTECH LABS

**PRACTICAL SOLUTIONS FOR A BETTER TOMORROW**

## EPA METHOD 8040 PHENOLS Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	12-07-99
Laboratory Number:	12-03-TCA-MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	12-03-99
Condition:	Cool & Intact	Date Analyzed:	12-07-99
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	ND	0.020	200
p,m-Cresol	ND	0.040	200
2,4,6-Trichlorophenol	ND	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400
Pentachlorophenol	ND	0.020	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	2-Fluorophenol	98%
	2,4,6-Tribromophenol	99%

References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

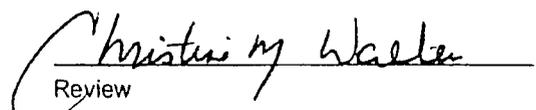
Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

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

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments: QA/QC for sample G525 - G526.

  
Analyst

  
Review

# ENVIROTECH LABS

**PRACTICAL SOLUTIONS FOR A BETTER TOMORROW**

EPA METHOD 8040  
PHENOLS  
Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	12-07-99
Laboratory Number:	G526	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	N/A
Condition:	Cool & Intact	Date Analyzed:	12-07-99
		Analysis Requested:	TCLP

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Detection Limit (mg/L)	Percent Difference
o-Cresol	ND	ND	0.020	0.0%
p,m-Cresol	ND	ND	0.040	0.0%
2,4,6-Trichlorophenol	ND	ND	0.020	0.0%
2,4,5-Trichlorophenol	ND	ND	0.020	0.0%
Pentachlorophenol	ND	ND	0.020	0.0%

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Maximum Difference
	8040 Compounds	30.0%

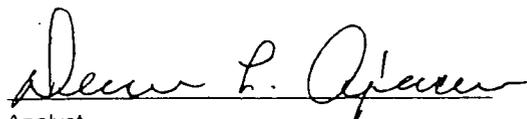
References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

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

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments: QA/QC for sample G525 - G526.

  
Analyst

  
Review

# ENVIROTECH LABS

**PRACTICAL SOLUTIONS FOR A BETTER TOMORROW**

EPA Method 8090  
Nitroaromatics and Cyclic Ketones  
TCLP Base/Neutral Organics  
Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	12-07-99
Laboratory Number:	12-07-TBN-Blank	Date Sampled:	N/A
Sample Matrix:	Hexane	Date Received:	N/A
Preservative:	N/A	Date Extracted:	N/A
Condition:	N/A	Date Analyzed:	12-07-99
		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	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

ND - Parameter not detected at the stated detection limit.

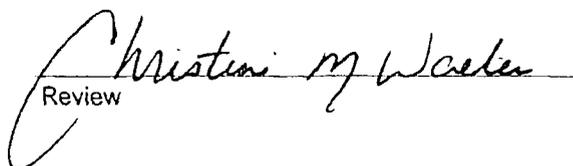
QA/QC Acceptance Criteria	Parameter	Percent Recovery
	2-fluorobiphenyl	95%

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.  
Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note: Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments: QA/QC for sample G525 - G526.

  
Analyst

  
Review

# ENVIROTECH LABS

**PRACTICAL SOLUTIONS FOR A BETTER TOMORROW**

EPA Method 8090  
Nitroaromatics and Cyclic Ketones  
TCLP Base/Neutral Organics  
QUALITY ASSURANCE REPORT

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	12-07-99
Laboratory Number:	12-03-TBN-MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	12-03-99
Condition:	Cool and Intact	Date Analyzed:	12-07-99
		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	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

ND - Parameter not detected at the stated detection limit.

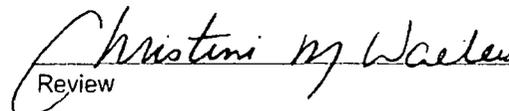
QA/QC Acceptance Criteria	Parameter	Percent Recovery
	2-fluorobiphenyl	101%

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.  
Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note: Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments: QA/QC for sample G525 - G526.

  
Analyst

  
Review

# ENVIROTECH LABS

**PRACTICAL SOLUTIONS FOR A BETTER TOMORROW**

EPA Method 8090  
Nitroaromatics and Cyclic Ketones  
TCLP Base/Neutral Organics  
QA/QC Matrix Duplicate Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	12-07-99
Laboratory Number:	G526	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Extracted:	12-03-99
Condition:	N/A	Date Analyzed:	12-07-99
		Analysis Requested:	TCLP

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Percent Difference	Det. Limit (mg/L)
Pyridine	ND	ND	0.0%	0.020
Hexachloroethane	ND	ND	0.0%	0.020
Nitrobenzene	ND	ND	0.0%	0.020
Hexachlorobutadiene	ND	ND	0.0%	0.020
2,4-Dinitrotoluene	ND	ND	0.0%	0.020
HexachloroBenzene	ND	ND	0.0%	0.020

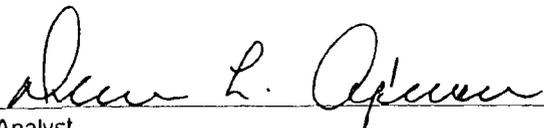
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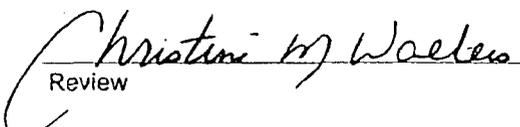
QA/QC Acceptance Criteria	Parameter	Maximum Difference
	8090 Compounds	30%

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.  
Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note: Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments: QA/QC for sample G525 - G526.

  
Analyst

  
Review

# ENVIROTECH LABS

**PRACTICAL SOLUTIONS FOR A BETTER TOMORROW.**

EPA METHOD 1311  
TOXICITY CHARACTERISTIC  
LEACHING PROCEDURE  
TRACE METAL ANALYSIS  
Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	12-08-TCM QA/QC	Date Reported:	12-08-99
Laboratory Number:	G525	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP Metals	Date Analyzed:	12-08-99
Condition:	N/A	Date Extracted:	N/A

Blank & Duplicate Conc. (mg/L)	Instrument Blank	Method Blank	Detection Limit	Sample	Duplicate	% Diff	Acceptance Range
Arsenic	ND	ND	0.001	0.013	0.013	0.0%	0% - 30%
Barium	ND	ND	0.001	0.399	0.396	0.8%	0% - 30%
Cadmium	ND	ND	0.001	0.064	0.063	1.6%	0% - 30%
Chromium	ND	ND	0.001	0.064	0.064	0.0%	0% - 30%
Lead	ND	ND	0.001	0.029	0.029	0.0%	0% - 30%
Mercury	ND	ND	0.001	0.007	0.007	0.0%	0% - 30%
Selenium	ND	ND	0.001	0.058	0.059	1.7%	0% - 30%
Silver	ND	ND	0.001	0.038	0.038	0.0%	0% - 30%

Spike Conc. (mg/L)	Spike Added	Sample	Spiked Sample	Percent Recovery	Acceptance Range
Arsenic	0.500	0.013	0.512	99.8%	80% - 120%
Barium	0.500	0.399	0.897	99.8%	80% - 120%
Cadmium	0.500	0.064	0.563	99.8%	80% - 120%
Chromium	0.500	0.064	0.563	99.8%	80% - 120%
Lead	0.500	0.029	0.528	99.8%	80% - 120%
Mercury	0.050	0.007	0.056	98.2%	80% - 120%
Selenium	0.500	0.058	0.557	99.8%	80% - 120%
Silver	0.500	0.038	0.539	100.2%	80% - 120%

ND - Parameter not detected at the stated detection limit.

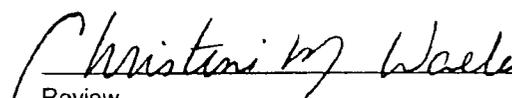
References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, Dec. 1996

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, December 1996.

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

Comments: QA/QC for samples G525 - G526.

  
Analyst

  
Review

# CHAIN OF CUSTODY RECORD

7582

Client / Project Name <i>Universal Compression</i>			Project Location <i>U.S. Hwy 550</i>		ANALYSIS / PARAMETERS						
Sampler: <i>Harlan H. Brown</i>			Client No. <i>98059-01</i>		No. of Containers <i>1</i>	<i>R.L.P. 12/19/99</i>					Remarks
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix							
<i>Compressor Lube</i>	<i>12-1-99</i>	<i>14:00</i>	<i>C526</i>	<i>Soil</i>	<i>1</i>	<i>✓</i>					<i>Field Pkg; Spilled</i>

Relinquished by: (Signature) <i>Harlan H. Brown</i>	Date <i>12-1-99</i>	Time <i>14:50</i>	Received by: (Signature) <i>Christy M. Walk</i>	Date <i>12-1-99</i>	Time <i>14:50</i>
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

**ENVIROTECH INC.**

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

Sample Receipt			
	Y	N	N/A
Received Intact	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cool - Ice/Blue Ice	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

District I - (505) 393-6161  
 P.O. Box 1980  
 Hobbs, NM 88241-1980  
 District II - (505) 748-1283  
 811 S. First  
 Artesia, NM 88210  
 District III - (505) 334-6178  
 Rio Brazos Road  
 NM 87410  
 District IV - (505) 827-7131

New Mexico  
 Energy, Minerals and Natural Resources Department  
 RECEIVED  
 Oil Conservation Division  
 2040 South Pacheco Street  
 Santa Fe, New Mexico 87505  
 (505) 827-7131

Form C-13  
 Originated 8/8/99

SEP 26 2000  
 Environmental Bureau  
 Oil Conservation Division

Submit Original  
 Plus 1 Copy  
 to appropriate  
 District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/>	Deery Faust 9.19.00 9:45	4. Generator	Halliburton Energy Services
Verbal Approval Received: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		5. Originating Site	Wash bay Main Yard
2. Management Facility Destination	Envirotech Soil Remediation Facility Landfarm #2	6. Transporter	Envirotech
3. Address of Facility Operator	5796 US Highway 64 Farmington, NM 87401	8. State	New Mexico
7. Location of Material (Street Address or ULSTR)			4109 E Main St Farmington, NM 87401
9. <u>Circle One</u> :			
A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.			
B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.			
All transporters must certify the wastes delivered are only those consigned for transport.			

BRIEF DESCRIPTION OF MATERIAL:

Continuation of wash bay Solids  
 TCCP Attached



Estimated Volume 40 cy Known Volume (to be entered by the operator at the end of the haul) 36 cy + 5 bbls cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 9.19.00  
 Waste Management Facility Authorized Agent  
 TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Deery Faust TITLE: Geologist DATE: 9/22/00  
 APPROVED BY: Antony J. Kelly TITLE: Environmental Geologist DATE: 9-26-00

District I - (505) 393-6161  
 P.O. Box 1980  
 Hobbs, NM 88241-1980  
 District II - (505) 748-1283  
 811 S. First  
 Artesia, NM 88210  
 District III - (505) 334-6178  
 Rio Brazos Road  
 Farmington, NM 87410  
 District IV - (505) 827-7131

New Mexico  
 Energy Minerals and Natural Resources Department  
 Oil Conservation Division  
 2040 South Pacheco Street  
 Santa Fe, New Mexico 87505  
 (505) 827-7131

Form C-138  
 Originated 8/8/95  
 Submit Original  
 Plus 1 Copy  
 to appropriate  
 District Office

Env. JN: 92132

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/>	4. Generator <u>Halliburton Energy Services</u>
Verbal Approval Received: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	5. Originating Site <u>Wash bay Main Yard</u>
2. Management Facility Destination <u>Envirotech Soil Remediation Facility Landfarm #2</u>	6. Transporter <u>Envirotech</u>
3. Address of Facility Operator <u>5796 US Highway 64 Farmington, NM 87401</u>	8. State <u>New Mexico</u>
7. Location of Material (Street Address or ULSTR)	<u>4109 E Main St Farmington, NM 87401</u>
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

Continuation of wash bay Solids  
TCCP Attached

Estimated Volume 40 cy Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_ cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 9.18.00  
 Waste Management Facility Authorized Agent  
 TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Denny Faust TITLE: Geologist DATE: 9/22/00

APPROVED BY: \_\_\_\_\_ TITLE: \_\_\_\_\_ DATE: \_\_\_\_\_



**NEW MEXICO ENERGY, MINERALS  
& NATURAL RESOURCES DEPARTMENT**

OIL CONSERVATION DIVISION  
AZTEC DISTRICT OFFICE  
1000 RIO BRAZOS ROAD  
AZTEC, NEW MEXICO 87410  
(505) 334-6170 Fax (505) 334-6170

**GARY E. JOHNSON**  
GOVERNOR

**JENNIFER A. SALISBURY**  
CABINET SECRETARY

**CERTIFICATE OF WASTE STATUS**

<p>1. Generator Name and Address: <i>Hillibrunton Energy Services</i> <i>4109 E Main</i> <i>Farmington NM 87401</i></p>	<p>2. Destination Name: Envirotech Inc. Soil Remediation Remediation Facility Landfarm #2, Hilltop, New Mexico 5796 IIS Hwy 64, Farmington, NM 87401</p>
<p>3. Originating Site (name): <i>Wash Bay See Above</i> <i>Holding Area</i></p> <p>Attach list of originating sites as appropriate</p>	<p>Location of the Waste (Street address &amp;/or ULSTR): <i>4109 E Main</i> <i>Farmington NM</i></p>
<p>4. Source and Description of Waste <i>Wash Bay Solids (continuation)</i></p>	

I, DOUG HODGES representative for:  
(Print Name)  
Hillibrunton Energy Services do hereby certify that,  
according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July,  
1988, regulatory determination, the above described waste is: (Check appropriate classification)

EXEMPT oilfield waste

NON-EXEMPT oilfield waste which is non-hazardous by characteristic analysis or by product identification

and that nothing has been added to the exempt or non-exempt non-hazardous waste defined above.

For NON-EXEMPT waste the following documentation is attached (check appropriate items):

- MSDS Information
- RCRA Hazardous Waste Analysis
- Chain of Custody

Other (description):

This waste is in compliance with Regulated Levels of Naturally Occurring Radioactive Material (NORM) pursuant to 20 NMAC 3.1 subpart 1403.C and D.

Name (Original Signature): *Doug Hodges*  
Title: *Maintenance Supervisor*  
*Sept 19 / 2000*

# ENVIROTECH INC.

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## REAFFIRMATION OF WASTE STATUS / NON-EXEMPT WASTE

I hereby certify that the attached Request For Approval and Certificate of Waste Status are for materials generated using the same procedures and equipment employed to generate the waste on which Toxicity Characteristic Leaching Procedures (TCLP) analysis was performed. I further certify that said material is from operations in the immediate Four Corners area.

Date of TCLP 2/10/00  
Printed Name DOUG HODGES  
Title / Agency Maintenance Supervisor  
Address 4109 E Main  
Farmington, NH  
Signature Doug Hodges  
Date 9/19/00

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

February 17, 2000

Mr. Doug Hodges  
Halliburton Energy Services  
4109 E. Main  
Farmington, NM 87402

Phone: (505) 325-3575

Client No.: 92132-01

Job No.: 213201

Dear Mr. Hodges,

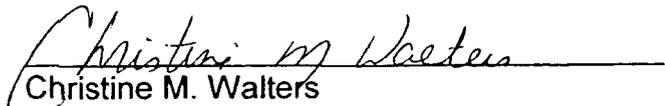
Enclosed are the analytical results for the sample collected from the location designated as "4109 E. Main, Farmington, NM". One sludge sample was collected by Envirotech personnel on 2/10/00, and received by the Envirotech laboratory on 2/10/00 for TCLP W/O Herbicides and Pesticides.

The sample was documented on Envirotech Chain of Custody No. 7673 and assigned Laboratory No. G811 (Wash Bay Sludge) for tracking purposes.

The sample was analyzed 2/10/00 through 2/16/00 using USEPA or equivalent methods.

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

Respectfully submitted,  
**Envirotech, Inc.**

  
Christine M. Walters  
Laboratory Coordinator / Environmental Scientist

enc.

CMW/cmw

C:/files/labreports/Half.wpd

# ENVIROTECH LABS

PRactical SOLUTIONS FOR A BETTER TOMORROW

## SUSPECTED HAZARDOUS WASTE ANALYSIS

Client:	Halliburton Energy Services	Project #:	213201
Sample ID:	Wash Bay Sludge	Date Reported:	02-10-00
Lab ID#:	G811	Date Sampled:	02-10-00
Sample Matrix:	Sludge	Date Received:	02-10-00
Preservative:	Cool	Date Analyzed:	02-10-00
Condition:	Cool and Intact	Chain of Custody:	7673

Parameter	Result
-----------	--------

<b>IGNITABILITY:</b>	<b>Negative</b>	
<b>CORROSIVITY:</b>	<b>Negative</b>	<b>pH = 7.60</b>
<b>REACTIVITY:</b>	<b>Negative</b>	

### RCRA Hazardous Waste Criteria

Parameter	Hazardous Waste Criterion
IGNITABILITY:	Characteristic of Ignitability as defined by 40 CFR, Subpart C, Sec. 261.21. (i.e. Sample ignition upon direct contact with flame or flash point < 60° C.)
CORROSIVITY:	Characteristic of Corrosivity as defined by 40 CFR, Subpart C, Sec. 261.22. (i.e. pH less than or equal to 2.0 or pH greater than or equal to 12.5)
REACTIVITY:	Characteristic of Reactivity as defined by 40 CFR, Subpart C, Sec. 261.23. (i.e. Violent reaction with water, strong base, strong acid, or the generation of Sulfide or Cyanide gases at STP with pH between 2.0 and 12.5)

Reference: 40 CFR part 261 Subpart C sections 261.21 - 261.23, July 1, 1992.

Comments: 4109 E. Main, Farmington, NM.

  
Analyst

  
Review

# ENVIROTECH LABS

PRactical SOLUTIONS FOR A BETTER TOMORROW

EPA METHODS 8010/8020  
AROMATIC / HALOGENATED  
VOLATILE ORGANICS

Client:	Halliburton Energy Services	Project #:	213201
Sample ID:	Wash Bay Sludge	Date Reported:	02-16-00
Laboratory Number:	G811	Date Sampled:	02-10-00
Chain of Custody:	7673	Date Received:	02-10-00
Sample Matrix:	TCLP Extract	Date Extracted:	02-11-00
Preservative:	Cool	Date Analyzed:	02-14-00
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	0.0429	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	0.0066	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

ND - Parameter not detected at the stated detection limit.

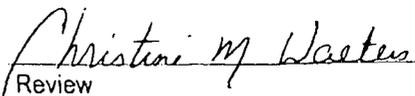
QA/QC Acceptance Criteria	Parameter	Percent Recovery
	Trifluorotoluene	98%
	Bromofluorobenzene	99%

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.  
Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994.  
Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Note: Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments: 4109 E. Main, Farmington, NM.

  
Analyst

  
Review

Client:	Halliburton Energy Services	Project #:	213201
Sample ID:	Wash Bay Sludge	Date Reported:	02-16-00
Laboratory Number:	G811	Date Sampled:	02-10-00
Chain of Custody:	7673	Date Received:	02-10-00
Sample Matrix:	TCLP Extract	Date Extracted:	02-11-00
Preservative:	Cool	Date Analyzed:	02-15-00
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	ND	0.020	200
p,m-Cresol	ND	0.040	200
2,4,6-Trichlorophenol	ND	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400
Pentachlorophenol	ND	0.020	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	2-Fluorophenol	98%
	2,4,6-Tribromophenol	99%

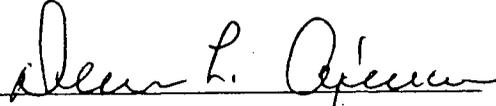
References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

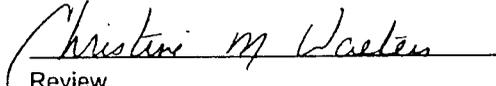
Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

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

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments: 4109 E. Main, Farmington, NM.

  
Analyst

  
Review

Client:	Halliburton Energy Services	Project #:	213201
Sample ID:	Wash Bay Sludge	Date Reported:	02-16-00
Laboratory Number:	G811	Date Sampled:	02-10-00
Chain of Custody:	7673	Date Received:	02-10-00
Sample Matrix:	TCLP Extract	Date Extracted:	02-11-00
Preservative:	Cool	Date Analyzed:	02-15-00
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	0.020	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

ND - Parameter not detected at the stated detection limit.

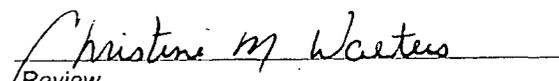
QA/QC Acceptance Criteria	Parameter	Percent Recovery
	2-fluorobiphenyl	96%

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.  
Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note: Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments: 4109 E. Main, Farmington, NM.

  
Analyst

  
Review

EPA METHOD 1311  
TOXICITY CHARACTERISTIC  
LEACHING PROCEDURE  
TRACE METAL ANALYSIS

Client:	Halliburton Energy Services	Project #:	213201
Sample ID:	Wash Bay Sludge	Date Reported:	02-16-00
Laboratory Number:	G811	Date Sampled:	02-10-00
Chain of Custody:	7673	Date Received:	02-10-00
Sample Matrix:	TCLP Extract	Date Analyzed:	02-16-00
Preservative:	Cool	Date Extracted:	02-11-00
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
Arsenic	0.064	0.001	5.0
Barium	0.640	0.001	21
Cadmium	0.035	0.001	0.11
Chromium	0.024	0.001	0.60
Lead	0.034	0.001	0.75
Mercury	0.002	0.001	0.025
Selenium	0.021	0.001	5.7
Silver	0.019	0.001	0.14

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, December 1996.

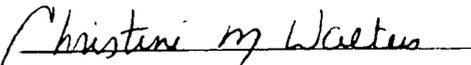
Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, December 1996.

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

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

Comments: 4109 E. Main, Farmington, NM.

  
Analyst

  
Review

**QUALITY ASSURANCE / QUALITY CONTROL**

**DOCUMENTATION**

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	02-16-00
Laboratory Number:	02-14-TCV	Date Sampled:	N/A
Sample Matrix:	Water	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	02-14-00
Condition:	N/A	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	ND	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	ND	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

ND - Parameter not detected at the stated detection limit.

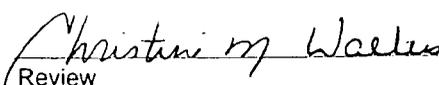
QA/QC Acceptance Criteria	Parameter	Percent Recovery
	Trifluorotoluene	100%
	Bromofluorobenzene	100%

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.  
Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994.  
Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Note: Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments: QA/QC for samples G810 - G811 and G836.

  
Analyst

  
Review

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	02-16-00
Laboratory Number:	02-11-TCV	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	02-14-00
Condition:	N/A	Date Extracted:	02-11-00
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.0001	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	ND	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	ND	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	ND	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	ND	0.0002	7.5

ND - Parameter not detected at the stated detection limit.

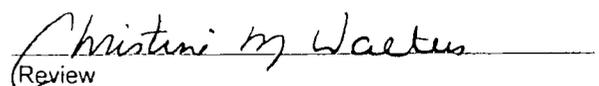
QA/QC Acceptance Criteria	Parameter	Percent Recovery
	Trifluorotoluene	99%
	Bromofluorobenzene	98%

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
 Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.  
 Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994.  
 Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Note: Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments: QA/QC for samples G810 - G811 and G836.

  
 Analyst

  
 Review

EPA METHODS 8010/8020  
AROMATIC / HALOGENATED  
VOLATILE ORGANICS  
QUALITY ASSURANCE REPORT

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	02-16-00
Laboratory Number:	G810	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	02-14-00
Condition:	N/A	Date Extracted:	02-11-00

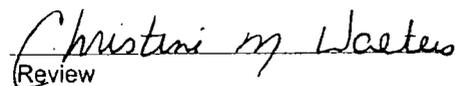
Parameter	Sample Result (mg/L)	Duplicate Sample Result (mg/L)	Detection Limits (mg/L)	Percent Difference
Vinyl Chloride	ND	ND	0.0001	0.0%
1,1-Dichloroethene	ND	ND	0.0001	0.0%
2-Butanone (MEK)	0.0129	0.0129	0.0001	0.0%
Chloroform	ND	ND	0.0001	0.0%
Carbon Tetrachloride	ND	ND	0.0001	0.0%
Benzene	0.0038	0.0038	0.0001	0.0%
1,2-Dichloroethane	ND	ND	0.0001	0.0%
Trichloroethene	ND	ND	0.0003	0.0%
Tetrachloroethene	ND	ND	0.0005	0.0%
Chlorobenzene	ND	ND	0.0003	0.0%
1,4-Dichlorobenzene	ND	ND	0.0002	0.0%

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.  
Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994.  
Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Comments: QA/QC for samples G810 - G811 and G836.

  
Analyst

  
Review

EPA METHODS 8010/8020  
AROMATIC / HALOGENATED  
VOLATILE ORGANICS  
QUALITY ASSURANCE REPORT

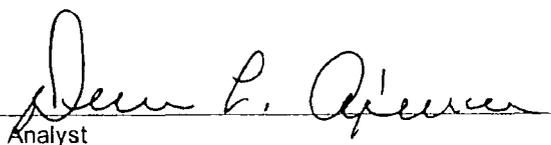
Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Spike	Date Reported:	02-16-00
Laboratory Number:	G810	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	02-14-00
Condition:	N/A	Date Extracted:	02-11-00

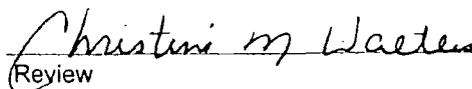
Parameter	Sample Result (mg/L)	Spike Added (mg/L)	Spiked Sample Result (mg/L)	Det. Limit (mg/L)	Percent Recovery	SW-846 % Rec. Accept. Range
Vinyl Chloride	ND	0.050	0.0495	0.0001	99%	28-163
1,1-Dichloroethene	ND	0.050	0.0494	0.0001	99%	43-143
2-Butanone (MEK)	0.0129	0.050	0.0624	0.0001	99%	47-132
Chloroform	ND	0.050	0.0498	0.0001	100%	49-133
Carbon Tetrachloride	ND	0.050	0.0491	0.0001	98%	43-143
Benzene	0.0038	0.050	0.0536	0.0001	100%	39-150
1,2-Dichloroethane	ND	0.050	0.0494	0.0001	99%	51-147
Trichloroethene	ND	0.050	0.0494	0.0003	99%	35-146
Tetrachloroethene	ND	0.050	0.0494	0.0005	99%	26-162
Chlorobenzene	ND	0.050	0.0494	0.0003	99%	38-150
1,4-Dichlorobenzene	ND	0.050	0.0494	0.0002	99%	42-143

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
Method 5030, Purge-and-Trap, SW-846, USEPA, July 1992.  
Method 8010, Halogenated Volatile Organic, SW-846, USEPA, Sept. 1994.  
Method 8020, Aromatic Volatile Organics, SW-846, USEPA, Sept. 1994.

Comments: QA/QC for samples G810 - G811 and G836.

  
Analyst

  
Review

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	02-16-00
Laboratory Number:	02-15-TCA	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	02-15-00
Condition:	N/A	Analysis Requested:	TCLP

Analytical Results	Concentration	Detection	Regulatory
Parameter	(mg/L)	Limit	Limit
		(mg/L)	(mg/L)
o-Cresol	ND	0.020	200
p,m-Cresol	ND	0.040	200
2,4,6-Trichlorophenol	ND	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400
Pentachlorophenol	ND	0.020	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	2-fluorophenol	98 %
	2,4,6-tribromophenol	99 %

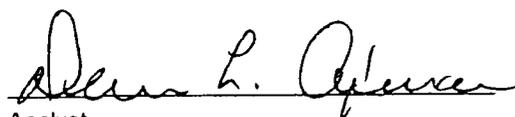
References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

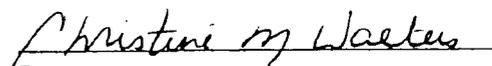
Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

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

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments: QA/QC for samples G810 - G811 and G836.

  
Analyst

  
Review

EPA METHOD 8040  
**PHENOLS**  
 Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	02-16-00
Laboratory Number:	02-11-TCA	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	02-11-00
Condition:	Cool & Intact	Date Analyzed:	02-15-00
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	ND	0.020	200
p,m-Cresol	ND	0.040	200
2,4,6-Trichlorophenol	ND	0.020	2.0
2,4,5-Trichlorophenol	ND	0.020	400
Pentachlorophenol	ND	0.020	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	2-Fluorophenol	98%
	2,4,6-Tribromophenol	99%

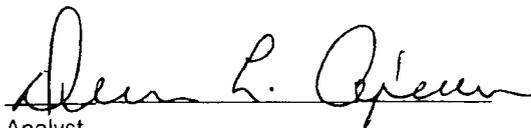
References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

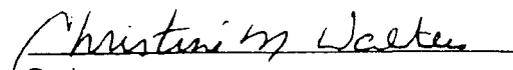
Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

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

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments: QA/QC for samples G810 - G811 and G836.

  
 Analyst

  
 Review

EPA METHOD 8040  
PHENOLS  
Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	02-16-00
Laboratory Number:	G810	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	02-11-00
Condition:	Cool & Intact	Date Analyzed:	02-15-00
		Analysis Requested:	TCLP

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Detection Limit (mg/L)	Percent Difference
o-Cresol	ND	ND	0.020	0.0%
p,m-Cresol	ND	ND	0.040	0.0%
2,4,6-Trichlorophenol	ND	ND	0.020	0.0%
2,4,5-Trichlorophenol	ND	ND	0.020	0.0%
Pentachlorophenol	ND	ND	0.020	0.0%

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Maximum Difference
	8040 Compounds	30.0%

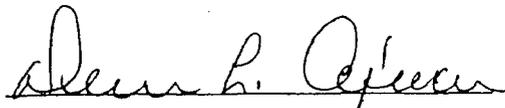
References: Method 1311, Toxicity Characteristic Leaching Procedure Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

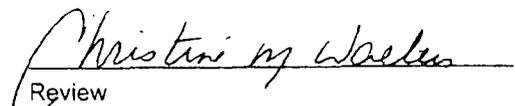
Method 3510, Separatory Funnel Liquid-Liquid Extraction, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

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

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, July 1, 1992.

Comments: QA/QC for samples G810 - G811 and G836.

  
Analyst

  
Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8090  
Nitroaromatics and Cyclic Ketones  
TCLP Base/Neutral Organics  
Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	02-16-00
Laboratory Number:	02-15-TBN	Date Sampled:	N/A
Sample Matrix:	Hexane	Date Received:	N/A
Preservative:	N/A	Date Extracted:	N/A
Condition:	N/A	Date Analyzed:	02-15-00
		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	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

ND - Parameter not detected at the stated detection limit.

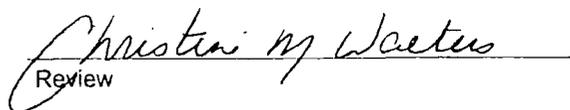
QA/QC Acceptance Criteria	Parameter	Percent Recovery
	2-fluorobiphenyl	97%

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.  
Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note: Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments: QA/QC for samples G810 - G811 and G836.

  
Analyst

  
Review

EPA Method 8090  
Nitroaromatics and Cyclic Ketones  
TCLP Base/Neutral Organics  
QUALITY ASSURANCE REPORT

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	02-16-00
Laboratory Number:	02-11-TBN	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	Cool	Date Extracted:	02-11-00
Condition:	Cool and Intact	Date Analyzed:	02-15-00
		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	3.0
Nitrobenzene	ND	0.020	2.0
Hexachlorobutadiene	ND	0.020	0.5
2,4-Dinitrotoluene	ND	0.020	0.13
HexachloroBenzene	ND	0.020	0.13

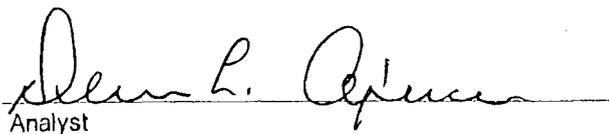
ND - Parameter not detected at the stated detection limit.

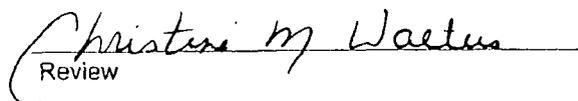
QA/QC Acceptance Criteria	Parameter	Percent Recovery
	2-fluorobiphenyl	96%

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.  
Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note: Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments: QA/QC for samples G810 - G811 and G836.

  
Analyst

  
Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8090  
Nitroaromatics and Cyclic Ketones  
TCLP Base/Neutral Organics  
QA/QC Matrix Duplicate Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	02-16-00
Laboratory Number:	G810	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Extracted:	02-11-00
Condition:	N/A	Date Analyzed:	02-15-00
		Analysis Requested:	TCLP

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Percent Difference	Det. Limit (mg/L)
Pyridine	ND	ND	0.0%	0.020
Hexachloroethane	ND	ND	0.0%	0.020
Nitrobenzene	ND	ND	0.0%	0.020
Hexachlorobutadiene	ND	ND	0.0%	0.020
2,4-Dinitrotoluene	ND	ND	0.0%	0.020
HexachloroBenzene	ND	ND	0.0%	0.020

ND - Parameter not detected at the stated detection limit.

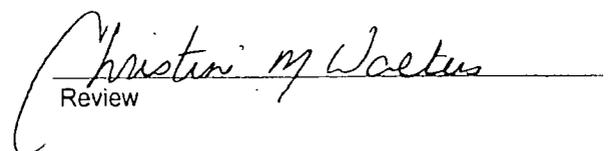
QA/QC Acceptance Criteria	Parameter	Maximum Difference
	8090 Compounds	30%

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.  
Method 3510, Separatory Funnel Liquid-Liquid Extraction, SW-846, USEPA, July 1992.  
Method 8090, Nitroaromatics and Cyclic Ketones, SW-846, USEPA, Sept. 1986.

Note: Regulatory Limits based on 40 CFR part 261 Subpart C section 261.24, July 1, 1992.

Comments: QA/QC for samples G810 - G811 and G836.

  
Analyst

  
Review

**EPA METHOD 1311  
TOXICITY CHARACTERISTIC  
LEACHING PROCEDURE  
TRACE METAL ANALYSIS  
Quality Assurance Report**

Client:	QA/QC	Project #:	N/A
Sample ID:	02-16-TCM QA/QC	Date Reported:	02-16-00
Laboratory Number:	G810	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP Metals	Date Analyzed:	02-16-00
Condition:	N/A	Date Extracted:	N/A

Blank & Duplicate Conc. (mg/L)	Instrument Blank	Method Blank	Detection Limit	Sample	Duplicate	% Diff.	Acceptance Range
Arsenic	ND	ND	0.001	0.067	0.066	1.5%	0% - 30%
Barium	ND	ND	0.001	0.585	0.582	0.5%	0% - 30%
Cadmium	ND	ND	0.001	0.035	0.035	0.0%	0% - 30%
Chromium	ND	ND	0.001	0.022	0.022	0.0%	0% - 30%
Lead	ND	ND	0.001	0.031	0.031	0.0%	0% - 30%
Mercury	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Selenium	ND	ND	0.001	0.037	0.036	2.7%	0% - 30%
Silver	ND	ND	0.001	0.016	0.016	0.0%	0% - 30%

Spike Conc. (mg/L)	Spike Added	Sample	Spiked Sample	Percent Recovery	Acceptance Range
Arsenic	0.500	0.067	0.566	99.8%	80% - 120%
Barium	0.500	0.585	1.08	99.8%	80% - 120%
Cadmium	0.500	0.035	0.534	99.8%	80% - 120%
Chromium	0.500	0.022	0.521	99.8%	80% - 120%
Lead	0.500	0.031	0.530	99.8%	80% - 120%
Mercury	0.050	ND	0.049	98.0%	80% - 120%
Selenium	0.500	0.037	0.535	99.6%	80% - 120%
Silver	0.500	0.016	0.515	99.8%	80% - 120%

ND - Parameter not detected at the stated detection limit.

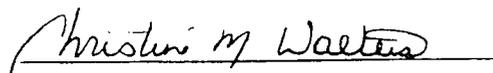
References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, Dec. 1996

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, December 1996.

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

Comments: QA/QC for samples G810 - G811 and G836.

  
Analyst

  
Review

# CHAIN OF CUSTODY RECORD

7673

Client / Project Name <i>Halliburton Energy Services</i>			Project Location <i>4109 E Main Farmington, NM</i>		ANALYSIS / PARAMETERS							
Sampler: <i>Harlan M. Brown</i>			Client No. <i>92132-01</i>		No. of Containers <i>1</i>	TEMP <i>2/6 H&amp;A</i>					Remarks	
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix								
<i>Wash Bay Sludge</i>	<i>02-10-00</i>	<i>9:10</i>	<i>G811</i>	<i>Sludge</i>	<i>1</i>	<i>✓</i>						
Relinquished by: (Signature) <i>Harlan M. Brown</i>			Date <i>02-10-00</i>	Time <i>10:05</i>	Received by: (Signature) <i>Debra L. O'Brien</i>			Date <i>2-10-00</i>	Time <i>10:01</i>			
Relinquished by: (Signature)					Received by: (Signature)							
Relinquished by: (Signature)					Received by: (Signature)							
<b>ENVIROTECH INC.</b> 5796 U.S. Highway 64 Farmington, New Mexico 87401 (505) 632-0615							Sample Receipt					
								Y	N	N/A		
							Received Intact	<i>✓</i>				
							Cool - Ice/Blue Ice	<i>✓</i>				

District I - (505) 393-6161  
 P.O. Box 1980  
 Hobbs, NM 88241-1980  
 District II - (505) 748-1283  
 811 S. First  
 Artesia, NM 88210  
 District III - (505) 334-6178  
 Rio Brazos Road  
 NM 87410  
 District IV - (505) 827-7131

New Mexico  
 Energy Minerals and Natural Resources Department  
 Oil Conservation Division  
 2040 South Pacheco Street  
 Santa Fe, New Mexico 87505  
 (505) 827-7131

Form C-138  
 Originated 8/8/95

Submit Original  
 Plus 1 Copy  
 to appropriate  
 District Office

Env. JN: 97057-

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input checked="" type="checkbox"/> Non-Exempt: <input type="checkbox"/> Verbal Approval Received: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Denny Faust 8.21.00 10:35	4. Generator <u>E PFS</u>
2. Management Facility Destination <u>Envirotech Soil Remediation Facility Landfarm #2</u>		5. Originating Site <u>Lateral 2C</u>
3. Address of Facility Operator <u>5796 US Highway 64 Farmington, NM 87401</u>		6. Transporter <u>E PFS</u>
7. Location of Material (Street Address or ULSTR)		8. State <u>New Mexico</u>
9. <u>Circle One:</u> A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.		<u>Sec 6, T26N, R10W</u>

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

Soil contaminated w/ Produced water



Estimated Volume 10 cy Known Volume (to be entered by the operator at the end of the haul) 120 cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 8.21.00  
 Waste Management Facility Authorized Agent  
 TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Denny Faust TITLE: Geologist DATE: 8/22/00  
 APPROVED BY: [Signature] TITLE: Geologist DATE: 8-22-00

Devin Faust  
Verbal  
8-21-00  
10:35

## CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:  El Paso Field Services Co. 614 Reilly Avenue Farmington, NM 87401	2. Destination Name:  Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico
3. Originating Site (name):  Lateral 2-C	Location of Waste(Street address &/or ULSTR):  Section 8, T26N, R10W
Attach list of originating sites as appropriate	
4. Source and Description of Waste  Soil contaminated with produced water from a line leak on Lateral 2-C	

I, David Bays representative for:  
(Print Name)

El Paso Field Services Co. do hereby certify that,  
according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July,  
1988 regulatory determination, the above described waste is: (Check appropriate classification)

**EXEMPT** Oilfield waste       **NON-EXEMPT** oilfield waste which is non-hazardous by  
characteristic analysis or by product identification

and that nothing has been added to the exempt or non-hazardous waste defined above.

For **NON-EXEMPT** waste only, the following documentation is attached (check appropriate items):

MSDS Information       Other (description)  
 RCRA Hazardous Waste Analysis  
 Chain of Custody

Name (Original Signature): David Bays  
Title: Principal Environmental Scientist  
Date: August 21, 2000

District I - (505) 393-6161  
 P.O. Box 1980  
 Hobbs, NM 88241-1980  
 District II - (505) 748-1283  
 811 S. First  
 Artesia, NM 88210  
 District III - (505) 334-6178  
 Rio Brazos Road  
 Lordsburg, NM 87410  
 District IV - (505) 827-7131

New Mexico  
 Energy, Minerals and Natural Resources Department  
 Oil Conservation Division  
 2040 South Pacheco Street  
 Santa Fe, New Mexico 87505  
 (505) 827-7131

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 Environmental Bureau  
 Oil Conservation Division

Form C-138  
 Originated 8/8/95  
 Submit Original  
 Plus 1 Copy  
 to appropriate  
 District Office

Env. JN: 92132

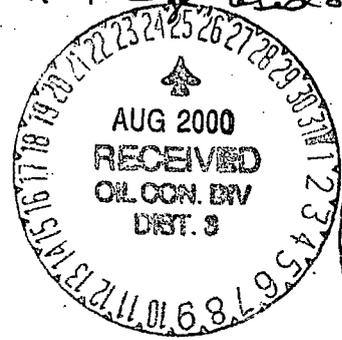
**REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE**

1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/> Verbal Approval Received: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	4. Generator <u>Halliburton Energy Services</u> 5. Originating Site <u>Forest Road 312 Truck Accident</u> 6. Transporter <u>Envirotech</u> 8. State <u>New Mexico</u>
2. Management Facility Destination <u>Envirotech Soil Remediation Facility Landfarm #2</u>	7. Location of Material (Street Address or ULSTR) <u>SE 4, Sec 27 T30N, R4W Rio Arriba County</u>
3. Address of Facility Operator <u>5796 US Highway 64 Farmington, NM 87401</u>	9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

**BRIEF DESCRIPTION OF MATERIAL:**

Clean up of diesel, anti-freeze, used oil & hydraulic oil at a vehicle accident.



Estimated Volume 12 cy Known Volume (to be entered by the operator at the end of the haul) 12 cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 8/18/00  
 Waste Management Facility Authorized Agent  
 TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

*(This space for State Use)*

APPROVED BY: Denny Faust TITLE: Geologist DATE: 8/18/00  
 APPROVED BY: Martyn J. Knif TITLE: Environmental Geologist DATE: 8/22/00

District I - (505) 393-6161  
 P O. Box 1980  
 Hobbs, NM 88241-1980  
 District II - (505) 748-1283  
 811 S. First  
 Artesia, NM 88210  
 District III - (505) 334-6178  
 Rio Brazos Road  
 NM 87410  
 District IV - (505) 827-7131

New Mexico  
 Energy Minerals and Natural Resources Department  
 Oil Conservation Division  
 2040 South Pacheco Street  
 Santa Fe, New Mexico 87505  
 (505) 827-7131

Form C-138  
 Originated 8/8/95  
 Submit Original  
 Plus 1 Copy  
 to appropriate  
 District Office

Env. JN: 92132

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/>		4. Generator <u>Harlan Brown Energy Service</u>	
Verbal Approval Received: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		5. Originating Site <u>Forest Road 312 Truck Accident</u>	
2. Management Facility Destination <u>Envirotech Soil Remediation Facility Landfarm #2</u>		6. Transporter <u>Envirotech</u>	
3. Address of Facility Operator <u>5796 US Highway 64 Farmington, NM 87401</u>		8. State <u>New Mexico</u>	
7. Location of Material (Street Address or ULSTR)		<u>Sec 4, Sec 27 T30N, R4W</u>	
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.		<u>Rio Arriba County.</u>	

BRIEF DESCRIPTION OF MATERIAL:

Clean up of diesel, anti-freeze, used oil & hydraulic oil at a vehicle accident.



Estimated Volume 12 cy Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_ cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 8-18-00  
 Waste Management Facility Authorized Agent  
 TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Denny Faust TITLE: Geologist DATE: 8/18/00

APPROVED BY: \_\_\_\_\_ TITLE: \_\_\_\_\_ DATE: \_\_\_\_\_



# NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION  
AZTEC DISTRICT OFFICE  
1000 RIO BRAZOS ROAD  
AZTEC, NEW MEXICO 87410  
(505) 334-6170 Fax (505) 334-6170

GARY E. JOHNSON  
GOVERNOR

JENNIFER A. SALISBURY  
CABINET SECRETARY

## CERTIFICATE OF WASTE STATUS

<b>1. Generator Name and Address:</b> Halliburton Energy Services 4109 E Main, ST. Farmington NM 87401	<b>2. Destination Name:</b> Envirotech Inc. Soil Remediation Remediation Facility Landfarm #2, Hilltop, New Mexico 5796 IIS Hwy 64, Farmington, NM 87401
<b>3. Originating Site (Name):</b> Forest Road 312 SE 4, SEC 27, T 30N, R 4W Rto Arriba County, NM. <small>Attach list of originating sites as appropriate</small>	<b>Location of the Waste (Street address &amp;/or ULSTRI):</b>
<b>4. Source and Description of Waste</b> Clean up of vehicle liquids (Diesel, Hydraulic oil, used oil, & Anti Freeze) at a truck accident.	

I, ROBERT SMITH (Print Name) representative for:

HALLIBURTON ENERGY SERVICE do hereby certify that, according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July, 1988, regulatory determination, the above described waste is: (Check appropriate classification)

EXEMPT oilfield waste  NON-EXEMPT oilfield waste which is non-hazardous by characteristic analysis or by product identification

and that nothing has been added to the exempt or non-exempt non-hazardous waste defined above.

For NON-EXEMPT waste the following documentation is attached (check appropriate items):

- MSDS Information
- RCRA Hazardous Waste Analysis
- Chain of Custody
- Other (description):

This waste is in compliance with Regulated Levels of Naturally Occurring Radioactive Material (NORM) pursuant to 20 NMAC 3.1 subpart 1403.C and D.

Name (Original Signature): ROBERT SMITH

Title: USE MANAGER

Date: 8-14-00

## SUSPECTED HAZARDOUS WASTE ANALYSIS

Client:	Halliburton Energy Serv.	Project #:	213209
Sample ID:	Stockpile	Date Reported:	08-03-00
Lab ID#:	H848	Date Sampled:	08-02-00
Sample Matrix:	Soil	Date Received:	08-03-00
Preservative:	Cool	Date Analyzed:	08-03-00
Condition:	Cool and Intact	Chain of Custody:	8099

Parameter	Result
-----------	--------

<b>IGNITABILITY:</b>	<b>Negative</b>	
<b>CORROSIVITY:</b>	<b>Negative</b>	<b>pH = 7.10</b>
<b>REACTIVITY:</b>	<b>Negative</b>	

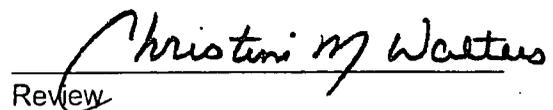
RCRA Hazardous Waste Criteria

Parameter	Hazardous Waste Criterion
IGNITABILITY:	Characteristic of Ignitability as defined by 40 CFR, Subpart C, Sec. 261.21. (i.e. Sample ignition upon direct contact with flame or flash point < 60° C.)
CORROSIVITY:	Characteristic of Corrosivity as defined by 40 CFR, Subpart C, Sec. 261.22. (i.e. pH less than or equal to 2.0 or pH greater than or equal to 12.5)
REACTIVITY:	Characteristic of Reactivity as defined by 40 CFR, Subpart C, Sec. 261.23. (i.e. Violent reaction with water, strong base, strong acid, or the generation of Sulfide or Cyanide gases at STP with pH between 2.0 and 12.5)

Reference: 40 CFR part 261 Subpart C sections 261.21 - 261.23, July 1, 1992.

Comments: **Forest Rd 312.  
Diesel, Anti-Freeze, Used Oil Contaminated Soil.**

  
Analyst

  
Review

EPA METHOD 1311  
TOXICITY CHARACTERISTIC  
LEACHING PROCEDURE  
TRACE METAL ANALYSIS

Client:	Halliburton Energy Serv.	Project #:	213209
Sample ID:	Stockpile	Date Reported:	08-04-00
Laboratory Number:	H848	Date Sampled:	08-02-00
Chain of Custody:	8099	Date Received:	08-03-00
Sample Matrix:	Soil	Date Analyzed:	08-04-00
Preservative:	Cool	Date Extracted:	08-03-00
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
Arsenic	0.113	0.001	5.0
Barium	0.924	0.001	100
Cadmium	0.088	0.001	1.0
Chromium	0.082	0.001	5.0
Lead	0.184	0.001	5.0
Mercury	ND	0.001	0.2
Selenium	0.027	0.001	1.0
Silver	0.204	0.001	5.0

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, December 1996.

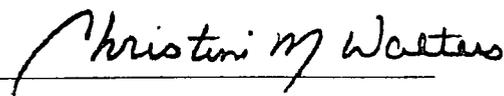
Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, December 1996.

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

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

Comments: **Forest Rd 312.  
Diesel, Anti-Freeze, Used Oil Contaminated Soil.**

  
Analyst

  
Review

# ENVIROTECH LABS

Practical Solutions for a Better Tomorrow

## EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	08-04-TCM QA/QC	Date Reported:	08-04-00
Laboratory Number:	H848	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP Metals	Date Analyzed:	08-04-00
Condition:	N/A	Date Extracted:	N/A

Blank & Duplicate Conc. (mg/L)	Instrument Blank	Method Blank	Detection Limit	Sample	Duplicate	% Diff.	Acceptance Range
Arsenic	ND	ND	0.001	0.113	0.112	0.9%	0% - 30%
Barium	ND	ND	0.001	0.924	0.926	0.2%	0% - 30%
Cadmium	ND	ND	0.001	0.088	0.087	1.1%	0% - 30%
Chromium	ND	ND	0.001	0.082	0.082	0.0%	0% - 30%
Lead	ND	ND	0.001	0.184	0.182	1.1%	0% - 30%
Mercury	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Selenium	ND	ND	0.001	0.027	0.027	0.0%	0% - 30%
Silver	ND	ND	0.001	0.204	0.202	1.0%	0% - 30%

Spike Conc. (mg/L)	Spike Added	Sample	Spiked Sample	Percent Recovery	Acceptance Range
Arsenic	0.500	0.113	0.610	99.5%	80% - 120%
Barium	0.500	0.924	1.42	99.7%	80% - 120%
Cadmium	0.500	0.088	0.588	100.0%	80% - 120%
Chromium	0.500	0.082	0.581	99.8%	80% - 120%
Lead	0.500	0.184	0.681	99.6%	80% - 120%
Mercury	0.050	ND	0.049	98.0%	80% - 120%
Selenium	0.500	0.027	0.526	99.8%	80% - 120%
Silver	0.500	0.204	0.700	99.4%	80% - 120%

ND - Parameter not detected at the stated detection limit.

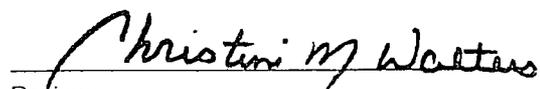
References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, Dec. 1996

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, December 1996.

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

Comments: QA/QC for sample H848.

  
Analyst

  
Review

# CHAIN OF CUSTODY RECORD

08099

Client / Project Name <b>HALLIBURTON ENERGY SERV.</b>			Project Location <b>FOREST RD 312</b>		ANALYSIS / PARAMETERS							
Sampler: <b>HARLAN W. BROWN</b>			Client No. <b>92132-09</b>		No. of Containers <b>1</b>	TEMP Metals <b>✓</b>	RCRA RCL <b>✓</b>					Remarks
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix								
<b>Stockpile</b>	<b>8-2-00</b>	<b>15:15</b>	<b>H848</b>	<b>Soil</b>								<b>Diesel, Anti-Freeze Used oil Contaminated Soil.</b>

Relinquished by: (Signature) <i>Harlan W. Brown</i>	Date <b>8-3</b>	Time <b>8:15</b>	Received by: (Signature) <i>John L. Opler</i>	Date <b>8-3-00</b>	Time <b>8:15</b>
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

**ENVIROTECH INC.**

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

Sample Receipt		
	Y	N/A
Received Intact	<input checked="" type="checkbox"/>	
Cool - Ice/Blue Ice	<input type="checkbox"/>	

District I - (505) 393-6161  
 P.O. Box 1290  
 Hobbs, NM 88241-1980  
 District II - (505) 748-1283  
 811 S. First  
 Artesia, NM 88210  
 District III - (505) 334-6178  
 Rio Brazos Road  
 Artesia, NM 87410  
 District IV - (505) 827-7131

Energy

New Mexico  
 Minerals and Natural Resources  
 Oil Conservation Division  
 2040 South Pacheco Street  
 Santa Fe, New Mexico 87505  
 (505) 827-7131

RECEIVED  
 Department  
 AUG 23 2000  
 Environmental Bureau  
 Oil Conservation Division

Form C-138  
 Originated 8/8/95  
 Submit Original  
 Plus 1 Copy  
 to appropriate  
 District Office

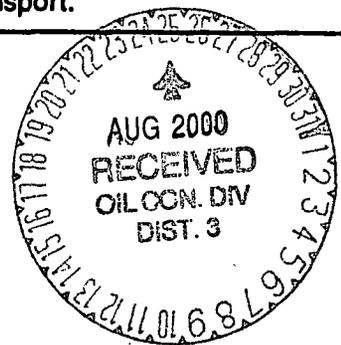
Env. JN: 98065-04

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/>	4. Generator <u>Key Energy Services</u>
Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	5. Originating Site <u>Main Camp</u>
2. Management Facility Destination <u>Envirotech Soil Remediation Facility Landfarm #2</u>	6. Transporter <u>Envirotech</u>
3. Address of Facility Operator <u>5796 US Highway 64 Farmington, NM 87401</u>	8. State <u>New Mexico</u>
7. Location of Material (Street Address or ULSTR)	<u>5651 U.S. Hwy 64</u>
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

Clean diesel spill in main yard.



Estimated Volume 10 cy Known Volume (to be entered by the operator at the end of the haul) 6 cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 8-18-00  
 Waste Management Facility Authorized Agent  
 TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Denny Faint TITLE: Geologist DATE: 8/27/00  
 APPROVED BY: Martinez TITLE: Environmental Geologist DATE: 8-23-00

District I - (505) 393-6161  
 P. O. Box 1980  
 Hobbs, NM 88241-1980  
 District II - (505) 748-1283  
 811 S. First  
 Artesia, NM 88210  
 District III - (505) 334-6178  
 Rio Brazos Road  
 NM 87410  
 District IV - (505) 827-7131

New Mexico  
 Energy Minerals and Natural Resources Department  
 Oil Conservation Division  
 2040 South Pacheco Street  
 Santa Fe, New Mexico 87505  
 (505) 827-7131

Form C-138  
 Originated 8/8/95

Submit Original  
 Plus 1 Copy  
 to appropriate  
 District Office

Env. JN: 98065-04

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/>		4. Generator <u>Key Energy Services</u>
Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		5. Originating Site <u>Main Yard</u>
2. Management Facility Destination <u>Envirotech Soil Remediation Facility Landfarm #2</u>		6. Transporter <u>Envirotech</u>
3. Address of Facility Operator <u>5796 US Highway 64 Farmington, NM 87401</u>		8. State <u>New Mexico</u>
7. Location of Material (Street Address or ULSTR)		<u>5651 US Hwy 64</u>
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.		<u>Farmington, NM 87401</u>

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

Clean diesel spill main yard.



Estimated Volume 10 cy Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_ cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 8-18-00  
 Waste Management Facility Authorized Agent  
 TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Denny Feint TITLE: Geologist DATE: 8/22/00  
 APPROVED BY: \_\_\_\_\_ TITLE: \_\_\_\_\_ DATE: \_\_\_\_\_

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 1. CHEMICAL PRODUCT/COMPANY IDENTIFICATION
 

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No. 2 Diesel Fuel

GASC0220

Revised 2-MAR-1999

## Material Identification

CAS Number : 68476-34-6

## # Tradenames and Synonyms

Diesel Fuel No. 2, Low Sulfur  
 Diesel Fuel No. 2, High Sulfur

## Company Identification

## MANUFACTURER/DISTRIBUTOR

Conoco, Inc.  
 P.O. Box 2197  
 Houston, TX 77252

## PHONE NUMBERS

Product Information : 1-281-293-5550  
 Transport Emergency : CHEMTREC 1-800-424-9300  
 Medical Emergency : 1-800-441-3637

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 2. COMPOSITION/INFORMATION ON INGREDIENTS
 

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## # Components

Material	CAS Number	%
DIESEL FUEL, NO. 2	68476-34-6	100

Petroleum distillate standard applies.

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 3. HAZARDS IDENTIFICATION
 

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## Potential Health Effects

Primary Routes of Entry: Skin, inhalation

The product may cause irritation to the eyes, nose, throat, lungs, and skin after prolonged or repeated exposure. Extreme overexposure or aspiration into the lungs may cause lung damage or death. Overexposure may cause weakness, headache, nausea, confusion, blurred vision, drowsiness, and other nervous system effects; greater overexposure may cause dizziness, slurred speech, flushed face, unconsciousness, and convulsions.

Combustion Product - Carbon Monoxide:

Carbon monoxide decreases the ability of the blood to carry oxygen.

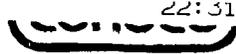
Inhalation may cause headache, nausea, rapid respirations, vomiting, dizziness, confusion, impaired judgement, personality changes, memory impairment, weakness, shortness of breath, unconsciousness, convulsions and death if not treated. It may cause chest pains in persons with heart disease. Carbon monoxide

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poisoning can cause pal (whiteness) or cyanosis (blu s) of the skin and extremities.

High exposures to carbon monoxide may cause heart irregularities.

Carbon monoxide may adversely affect the unborn babies of pregnant women.

Carcinogenicity Information

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.



4. FIRST AID MEASURES

First Aid

INHALATION

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

SKIN CONTACT

Wash skin thoroughly with soap and water. If irritation develops and persists, consult a physician.

EYE CONTACT

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

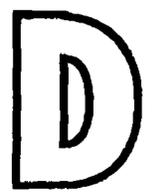
INGESTION

If swallowed, do not induce vomiting. Immediately give 2 glasses of water. Never give anything by mouth to an unconscious person. Call a physician.



Notes to Physicians

Activated charcoal mixture may be administered. To prepare activated charcoal mixture, suspend 50 grams activated charcoal in 400 mL water and mix thoroughly. Administer 5 mL/kg, or 350 mL for an average adult.



5. FIRE FIGHTING MEASURES

Flammable Properties

- Flash Point : 130 F (54 C)
- Method : TCC
- Flammable limits in Air, % by Volume
- LEL : 0.4
- UEL : 6
- Autoignition : 494 F (257 C)

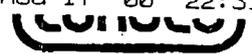


Vapor forms explosive mixture with air. Vapors or gases may travel considerable distances to ignition source and flash back.

NFPA Classification : Class II Combustible Liquid.

Extinguishing Media

Water Spray, Foam, Dry Chemical, CO2.



## Fire Fighting Instructions

Use water to keep fire-exposed containers cool. If a leak or spill has not ignited, use water spray to disperse the vapors and to provide protection for personnel attempting to stop a leak. Water spray may be used to flush spills away from sources of potential ignition.

Products of combustion may contain carbon monoxide, carbon dioxide, and other toxic materials. Do not enter enclosed or confined space without proper protective equipment including respiratory protection.

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## 6. ACCIDENTAL RELEASE MEASURES

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### Safeguards (Personnel)

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

Remove source of heat, sparks, flame, impact, friction and electricity including internal combustion engines and power tools. If equipment is used for spill cleanup, it must be explosion proof and suitable for flammable liquid and vapor.

NOTE: Vapors released from the spill may create an explosive atmosphere.

### Initial Containment

Dike spill. Prevent material from entering sewers, waterways, or low areas.

### Spill Clean Up

Soak up with sawdust, sand, oil dry or other absorbent material.

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## 7. HANDLING AND STORAGE

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### Handling (Personnel)

Avoid breathing vapors or mist. Wash thoroughly after handling. Wash clothing after use.

### Handling (Physical Aspects)

Ground container when pouring. Keep away from heat, sparks and flames. Close container after each use. Do not pressurize, cut, weld, braze, solder, grind, or drill on or near full or empty container. Empty container retains residue (liquid and/or vapor) and may explode in heat of fire.

### Storage

Store in a well ventilated place. Keep container tightly closed. Store in accordance with National Fire Protection Association recommendations. Store away from heat, sparks and flames, oxidizers.



## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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### Engineering Controls

Use only with adequate ventilation. Keep container tightly closed.

### Personal Protective Equipment

#### RESPIRATORY PROTECTION

Select appropriate NIOSH-approved respiratory protective equipment when exposed to sprays or mists. Select appropriate NIOSH-approved respiratory protection where necessary to maintain exposures below acceptable limits. Proper respirator selection should be determined by adequately trained personnel and based on the contaminant(s), the degree of potential exposure, and published respirator protection factors.

#### PROTECTIVE GLOVES

Should be worn when the potential exists for prolonged or repeated skin contact. NBR or neoprene recommended.

#### EYE PROTECTION

Safety glasses with side shields. Chemical splash goggles or face shield for spray/mists or if splashing can occur.

#### OTHER PROTECTIVE EQUIPMENT

Coveralls with long sleeves if splashing is probable.

### Exposure Guidelines

#### Applicable Exposure Limits

Petroleum distillate standard applies.

PEL (OSHA) : 500 ppm, 2000 mg/m<sup>3</sup>, 8 Hr. TWA

TLV (ACGIH) : None Established

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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### Physical Data

Boiling Point	: 350-690 F (177-366 C)
Vapor Pressure	: 1 mm Hg @ 68 F (20 C)
Vapor Density	: >1 (Air=1.0)
% Volatiles	: Nil
Solubility in Water	: Insoluble
Odor	: Aromatic.
Form	: Liquid.
Color	: *
Specific Gravity	: 0.84-0.88 @ 60 F (16 C)

\*Color : Red or Undyed (Clear or Straw-Colored)

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## 10. STABILITY AND REACTIVITY

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### Chemical Stability

Stable at normal temperatures and storage conditions.

### Conditions to Avoid

Heat, sparks, and flames.

Incompatibility with Other Materials

Incompatible or can react with strong oxidizers.

Decomposition

Carbon monoxide may be formed from incomplete combustion.

Polymerization

Polymerization will not occur.

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11. TOXICOLOGICAL INFORMATION

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Animal Data

Animal studies have shown that prolonged or repeated inhalation exposures to high concentrations of some petroleum distillates have caused liver tumors in mice and kidney damage and tumors in male rats. However, kidney effects were not seen in similar studies involving female rats, guinea pigs, dogs, or monkeys. Present studies indicate the kidney effects will only occur in male rats. Also, human studies do not indicate this peculiar sensitivity for kidney damage and studies reported in 1992 showed that this particular type of rat kidney damage is not useful in predicting a human health hazard. The significance of liver tumors in mice exposed to high doses of chemicals is highly speculative and probably not a good indicator for predicting a potential human carcinogenic hazard.

Mouse skin painting studies have shown that petroleum middle distillates (boiling range 100-700 F; naphtha, jet fuel, diesel fuel, kerosene, etc.) can cause skin cancer when repeatedly applied and never washed from the animal's skin. The relative significance of this to human health is uncertain since the petroleum distillates were not washed from the skin and resulting skin effects (irritation, cell damage, etc.) may play a role in the tumorigenic response. A few studies have shown that washing the animal's skin with soap and water between treatments greatly reduces the carcinogenic effect of some petroleum oils. Other laboratory studies indicate that middle distillates caused the skin tumors by promoting, rather than initiating, the formation of tumors, so the effect is probably dose-related and low level exposure should not be carcinogenic.

Studies in mice and rats have shown that chronic exposure (8 hours/day, 7 days/week, 24 months) to unfiltered diesel exhaust produced tumors of the lungs and also lymphomas. On the basis of these studies, NIOSH recommends that whole diesel exhaust be regarded as a potential carcinogen.

Acute toxicity data from studies supported by the American Petroleum Institute with a generic #2 fuel oil sample:

Oral, LD50 (rats)	: 7-21 mL/kg
Skin, LD50 (rabbits)	: >5 mL/kg
Skin Irritation (rabbits; index, 0-8)	: 3-4
Eye Irritation (rabbits; index, 0-110)	: 1
Skin Sensitization (guinea pigs)	: Non-sensitizing

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12. ECOLOGICAL INFORMATION

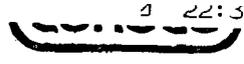
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No specific aquatic data available for this product.

DISPOSAL CONSIDERATIONS

Waste Disposal

Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations. Do not flush to surface water or sanitary sewer system.

By itself, the liquid is expected to be a RCRA ignitable hazardous waste.

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Container Disposal

Empty drums should be completely drained, properly bunged, and promptly shipped to the supplier or a drum reconditioner. All other containers should be disposed of in an environmentally safe manner.

14. TRANSPORTATION INFORMATION

Shipping Information

DOT
Proper Shipping Name : Diesel fuel
Hazard Class : Combustible liquid
I.D. No. (UN/NA) : NA1993
Packing Group : III
DOT Label(s) : None
DOT Placard : Combustible

ICAO/IMO

Proper Shipping Name : Gas Oil
Hazard Class : 3
UN/NA Number : UN1202
Packing Group : III
Label : Flammable liquid
Placard : Flammable

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15. REGULATORY INFORMATION

U.S. Federal Regulations

OSHA HAZARD DETERMINATION

This material is hazardous as defined by OSHA's Hazard Communication Standard, 29 CFR 1910.1200.

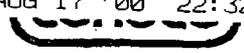
CERCLA/SUPERFUND

Not applicable; this material is covered by the CERCLA petroleum exclusion.

SARA, TITLE III, 302/304

This material is not known to contain extremely hazardous substances.

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SARA, TITLE III, 311/ 31  
Acute : Yes  
Chronic : Yes  
Fire : Yes  
Reactivity : No  
Pressure : No

SARA, TITLE III, 313  
This material is not known to contain any chemical(s) at a level of 1.0% or greater (0.1% for carcinogens) on the list of Toxic Chemicals and subject to release reporting requirements.

TSCA  
This material is in the TSCA Inventory of Chemical Substances (40 CFR 710) and/or is otherwise in compliance with TSCA.

RCRA  
This material, when discarded or disposed of, is not specifically listed as a hazardous waste in Federal regulations; however, it meets criteria for being ignitable according to U. S. EPA definitions (40 CFR 261). This material could also become a hazardous waste if it is mixed with or comes in contact with a listed hazardous waste. If it is a hazardous waste, regulations at 40 CFR 262-266 and 268 may apply.

CLEAN WATER ACT  
The material contains the following ingredient(s) which is considered hazardous if spilled into navigable waters and therefore reportable to the National Response Center (1-800-424-8802).

Ingredient : Petroleum Hydrocarbons.  
Reportable Quantity : Film or sheen upon or discoloration of any water surface.

State Regulations (U.S.)

CALIFORNIA "PROP 65"  
This material is not known to contain any ingredient(s) subject to the Act.

PENNSYLVANIA WORKER & COMMUNITY RIGHT TO KNOW ACT  
This material may contain the following ingredient(s) subject to the Pennsylvania Worker and Community Right to Know Hazardous Substances List.

Ingredient : Diesel Fuel Oil  
Category : Hazardous Substance.

Canadian Regulations

CLASS B Division 3 - Combustible Liquid.  
CLASS D Division 2 Subdivision B - Toxic Material. Chronic Toxic Effects.

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16. OTHER INFORMATION  
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NFPA, NPCA-HMIS

NFPA Rating  
Health : 0  
Flammability : 2  
Reactivity : 0

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## SUSPECTED HAZARDOUS WASTE ANALYSIS

Client:	Key Energy	Project #:	806504
Sample ID:	Yard Stockpile	Date Reported:	08-18-00
Lab ID#:	H993	Date Sampled:	08-17-00
Sample Matrix:	Soil	Date Received:	08-18-00
Preservative:	Cool	Date Analyzed:	08-18-00
Condition:	Cool and Intact	Chain of Custody:	8121

Parameter	Result
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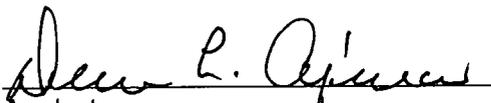
<b>IGNITABILITY:</b>	<b>Negative</b>	
<b>CORROSIVITY:</b>	<b>Negative</b>	<b>pH = 7.27</b>
<b>REACTIVITY:</b>	<b>Negative</b>	

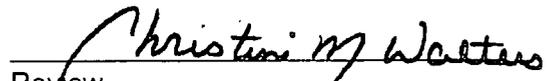
### RCRA Hazardous Waste Criteria

Parameter	Hazardous Waste Criterion
IGNITABILITY:	Characteristic of Ignitability as defined by 40 CFR, Subpart C, Sec. 261.21. (i.e. Sample ignition upon direct contact with flame or flash point < 60° C.)
CORROSIVITY:	Characteristic of Corrosivity as defined by 40 CFR, Subpart C, Sec. 261.22. (i.e. pH less than or equal to 2.0 or pH greater than or equal to 12.5)
REACTIVITY:	Characteristic of Reactivity as defined by 40 CFR, Subpart C, Sec. 261.23. (i.e. Violent reaction with water, strong base, strong acid, or the generation of Sulfide or Cyanide gases at STP with pH between 2.0 and 12.5)

Reference: 40 CFR part 261 Subpart C sections 261.21 - 261.23, July 1, 1992.

Comments: **5651 Hwy 64 Diesel Spill Cleanup.**

  
Analyst

  
Review

# CHAIN OF CUSTODY RECORD

08121

Client / Project Name <b>Key Energy</b>			Project Location <b>5651 Hwy 64</b>		ANALYSIS / PARAMETERS							
Sampler: <b>Niel Winterton</b>			Client No. <b>806504</b>		No. of Containers <b>RCRA RCI</b>							Remarks
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix								
<b>Yard Stockpile</b>	<b>8-17-00</b>	<b>14:55</b>	<b>M993</b>	<b>Soil</b>	<b>1</b>	<b>✓</b>						<b>Diesel Spill cleanup</b>

Relinquished by: (Signature) <b>Harold M Brown</b>	Date <b>8-18-00</b>	Time <b>6:30</b>	Received by: (Signature) <b>D. L. Oylson</b>	Date <b>8-18-00</b>	Time <b>6:30</b>
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

**ENVIROTECH INC.**

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

Sample Receipt			
	Y	N	N/A
Received Intact	<input checked="" type="checkbox"/>		
Cool - Ice/Blue Ice	<input checked="" type="checkbox"/>		

District I - (505) 393-6161  
 P.O. Box 1980  
 Hobbs, NM 88241-1980  
 District II - (505) 748-1283  
 811 S. First  
 Artesia, NM 88210  
 District III - (505) 334-6178  
 Rio Brazos Road  
 Socorro, NM 87410  
 District IV - (505) 827-7131

New Mexico  
 Energy Minerals and Natural Resources Department  
 Oil Conservation Division  
 2040 South Pacheco Street  
 Santa Fe, New Mexico 87505  
 (505) 827-7131

Form C-138  
 Originated 8/8/95

Submit Original  
 Plus 1 Copy  
 to appropriate  
 District Office

Env. JN: 00044

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input checked="" type="checkbox"/> Non-Exempt: <input type="checkbox"/> Verbal Approval Received: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Danny Faust 7-31-00 10:00 A.M.	4. Generator Cimarron Gas Processing for Hallwood Production
2. Management Facility Destination Envirotech Soil Remediation Facility Landfarm #2	5. Originating Site Various see Attached	6. Transporter SCAT Hot Wash
3. Address of Facility Operator 5796 US Highway 66 Farmington, NM 88401	7. Location of Material (Street Address or ULSTR) Southgate - SEE Attached	8. State Colorado
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.		

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

TEG Bottoms from Recycling and cleaning Daily units @ various units. Bottoms cleaned from recycler by Seat Hot Wash.



Estimated Volume 20 bbls cy Known Volume (to be entered by the operator at the end of the haul) 20 bbls cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 8-11-00  
 Waste Management Facility Authorized Agent  
 TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Danny Faust TITLE: Geologist DATE: 8/14/00  
 APPROVED BY: [Signature] TITLE: geologist DATE: 8/14/00



# NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION  
AZTEC DISTRICT OFFICE  
1900 RIO BRAZOS ROAD  
AZTEC, NEW MEXICO 87410  
(505) 334-8170 Fax (505) 334-81

GARY E. JOHNSON  
GOVERNOR

JENNIFER A. SALISBURY  
CABINET SECRETARY

## CERTIFICATE OF WASTE STATUS

<p>1. Generator Name and Address: Hallowood Petroleum.</p>	<p>2. Destination Name: Envirotech Inc. Soil Remediation Facility Landfarm #2, Hilltop, New Mexico 5796 US Hwy 64, Farmington, NM 87401</p>
<p>3. Originating Site (name): Southern Ute 26-4 Southern Ute 15-1 Southern Ute 22-4 Attach list of originating sites as appropriate</p>	<p>Location of the Waste (Street address &amp;/or ULSTR): Waste is contained in a portable six wheel trailer.</p>
<p>4. Source and Description of Waste Waste is spent TEG bottoms from dehydrators from above mentioned locations, diluted slightly with water.</p>	

I, Derek Moore representative for:  
(Print Name)

Cimarron do hereby certify that,  
according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July,  
1988, regulatory determination, the above described waste is: (Check appropriate classification)

EXEMPT oilfield waste       NON-EXEMPT oilfield waste which is non-hazardous by characteristic  
analysis or by product identification

and that nothing has been added to the exempt or non-exempt non-hazardous waste defined above.

For NON-EXEMPT waste the following documentation is attached (check appropriate items):

MSDS Information       Other (description):  
 RCRA Hazardous Waste Analysis  
 Chain of Custody

This waste is in compliance with Regulated Levels of Naturally Occurring Radioactive Material (NORM) pursuant  
to 20 NMAC 3.1 subpart 1403.C and D.

Name (Original Signature): Derek Moore

Title: Farmington District Manager

Date: 7/31/00

**CIMARRON GAS PROCESSING EQUIPMENT COMPANY, INC.**

P.O. BOX 1406  
GUYMON, OK 73942

Ph. 580-338-5496  
Fax 580-338-0885

1830 1st AVENUE  
GREELEY, CO 80631

(970) 352-3123  
Fax (970) 352-3125

July 31, 2000

Michiko Bond  
Southern Ute Indian Tribe  
Box 737  
Ignacio, CO 81137

(970) 563-0384-Fax #

Dear Ms. Bond,

Our company is looking to dispose of TEG bottoms generated from Hallwood Petroleum's Southern Ute leases. We are sending the TEG bottoms to Enviro Tech Soil Remediation, Inc. Facility Land Farm #2 Hilltop, NM 5796 US Hwy 64, Farmington, NM 87401. Our contact there is Harlan Brown.

Thank you for your help in this matter.



Derek Moore  
Cimarron Gas



RECEIVED AUG 10 2000  
RECEIVED AUG 10 2000

# SOUTHERN UTE INDIAN TRIBE

August 8, 2000

Derek Moore  
Cimarron Gas Processing Equipment Co., Inc.  
P.O. Box 1406  
Guymon, OK, 73942

Re: Tribal Notification of Transportation of exempt waste 200 gallons of TEG bottoms  
Cimarron Gas Processing Equipment Company, Inc.,  
NWNW1/4 Sec. 15 T33N R11W, Southern Ute 15-1;  
NESW1/4 Sec. 22 T33N R11W, Southern Ute 22-4;  
NESE1/4 Sec. 15 T33N R11W, Southern Ute 25-4

Dear Mr. Moore:

Thank you for notifying the Environmental Programs Division of the Southern Ute Indian Tribe of the transport of 200 gallons exempt TEG bottom to a land farm in New Mexico. It is our understanding that the contaminated soil will be transported to Envirotech's landfarm in New Mexico.

Certification may be required by the state in New Mexico Oil Conservation Commission (NMOCCD) from your company, the transporter or generator. Transportation of this waste may be subject to other state and federal laws.

Sincerely,

*Michiko Bond (acting)*

Fran King Brown  
Division Head  
Environmental Programs

Cc: Harlan Brown  
Geologist/Hydrologist  
Envirotech Inc.

District I - (505) 393-6161  
 P.O. Box 1980  
 Hobbs, NM 88241-1980  
 District II - (505) 748-1283  
 811 S. First  
 Artesia, NM 88210  
 District III - (505) 334-6178  
 Rio Brazos Road  
 NM 87410  
 District IV - (505) 827-7131

**Energy Minerals and Natural Resources**  
**Oil Conservation Division**  
 2040 South Pacheco Street  
 Santa Fe, New Mexico 87505  
 (505) 827-7131

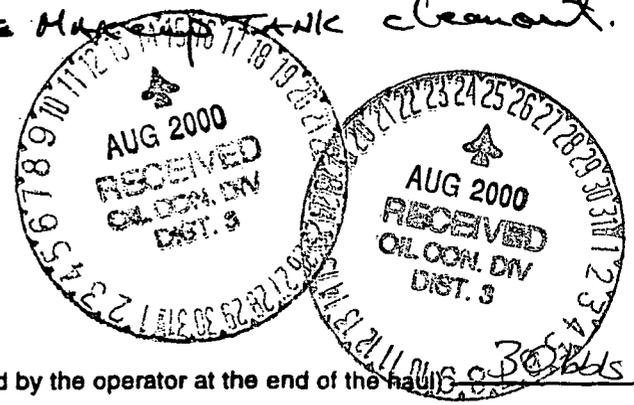
RECEIVED  
 Department  
**AUG 21 2000**  
 Environmental Bureau  
 Oil Conservation Division  
 Env. JN: 92132-09  
 Form C-138  
 Originated 8/8/95  
 Submit Original  
 Plus 1 Copy  
 to appropriate  
 District Office

**REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE**

1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/> <i>Dangerous Waste</i> <i>Martyn Keilly</i> <i>7.19.00</i> <i>16:30</i> <i>Verbal</i>	4. Generator <i>Halliburton Energy Services</i>
Verbal Approval Received: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	5. Originating Site <i>Mato Pond</i>
2. Management Facility Destination <i>Envirotech Soil Remediation Facility Landfarm #2</i>	6. Transporter <i>Serrano's</i>
3. Address of Facility Operator <i>5796 US Highway 64 Farmington, NM 87401</i>	8. State <i>New Mexico</i>
7. Location of Material (Street Address or ULSTR)	<i>4109 E Main</i>
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.	<i>Farmington NM.</i>

**BRIEF DESCRIPTION OF MATERIAL:**

*700-1000 gal of light LGC VIII GEL on a cleanout transport  
 Residual material from ~~the~~ *Mato Pond* tank cleanout.*



Estimated Volume 700-1000g cy Known Volume (to be entered by the operator at the end of the haul) 300 bbls cy

SIGNATURE: *Harlan M. Brown* TITLE: Landfarm Manager DATE: 7.21.00  
 Waste Management Facility Authorized Agent  
 TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

*(This space for State Use)*  
 APPROVED BY: *Denny Faust* TITLE: Geologist DATE: 8/18/00  
 APPROVED BY: *Martyn Keilly* TITLE: Environmental Geologist DATE: 8/22/00

District I - (505) 393-6161  
 P.O. Box 8280  
 Hobbs, NM 88241-1980  
 District II - (505) 748-1283  
 811 S. First  
 Artesia, NM 88210  
 District III - (505) 334-6178  
 7 Rio Brazos Road  
 Roswell, NM 87410  
 District IV - (505) 827-7131

New Mexico  
 Energy Minerals and Natural Resources Department  
 Oil Conservation Division  
 2040 South Pacheco Street  
 Santa Fe, New Mexico 87505  
 (505) 827-7131

Form C-138  
 Originated 8/8/95  
 Submit Original  
 Plus 1 Copy  
 to appropriate  
 District Office

Env. JN: 92132-09

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/>	Damage Post Start-up Keilling 7.19.00 16:30 Verbal	4. Generator <u>Halliburton Energy Services</u>
Verbal Approval Received: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		5. Originating Site <u>Makeup Tank</u>
2. Management Facility Destination <u>Envirotech Soil Remediation Facility Landfarm #2</u>		6. Transporter <u>Serrano's</u>
3. Address of Facility Operator <u>5796 US Highway 64 Farmington, NM 87401</u>		8. State <u>New Mexico</u>
7. Location of Material (Street Address or ULSTR)		<u>4109 E Main</u>
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.		<u>Farmington NM.</u>

BRIEF DESCRIPTION OF MATERIAL:

700-1000 gal of light LGC VIII GEC on a cleanout transport  
 Residual material from ~~the~~ Makeup Tank cleanout.



Estimated Volume 700-1000g cy Known Volume (to be entered by the operator at the end of the haul) \_\_\_\_\_ cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 7.21.00  
 Waste Management Facility Authorized Agent  
 TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: Denny Faust TITLE: Geologist DATE: 8/18/00  
 APPROVED BY: \_\_\_\_\_ TITLE: \_\_\_\_\_ DATE: \_\_\_\_\_

7-19-00  
16:30

Verbal OK  
Dawn Faust  
& Martyne Keeling



# NEW MEXICO ENERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION  
AZTEC DISTRICT OFFICE  
1000 RIO BRAZOS ROAD  
AZTEC, NEW MEXICO 87410  
(505) 334-6170 Fax (505) 334-6170

GARY E. JOHNSON  
GOVERNOR

JENNIFER A. SALISBURY  
CABINET SECRETARY

## CERTIFICATE OF WASTE STATUS

1. Generator Name and Address: Halliburton Energy Services 4109 N. Main Farmington, New Mexico	2. Destination Name: Envirotech Inc. Soil Remediation Remediation Facility Landfarm #2, Hilltop, New Mexico 5796 US Hwy 64, Farmington, NM 87401
3. Originating Site (name): SAd	Location of the Waste (Street address &/or ULSTR):
Attach list of originating sites as appropriate	
4. Source and Description of Waste 700-1000 gallons of LGC VIII rinse water, on a transport. (light gel consistency)	

I, ROBERT SMITH representative for:

HALLIBURTON ENERGY SERVICES do hereby certify that, according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July, 1988, regulatory determination, the above described waste is: (Check appropriate classification)

EXEMPT oilfield waste       NON-EXEMPT oilfield waste which is non-hazardous by characteristic analysis or by product identification

and that nothing has been added to the exempt or non-exempt non-hazardous waste defined above.

For NON-EXEMPT waste the following documentation is attached (check appropriate items):

- MSDS Information
- RCRA Hazardous Waste Analysis
- Chain of Custody
- Other (description):

This waste is in compliance with Regulated Levels of Naturally Occurring Radioactive Material (NORM) pursuant to 20 NMAC 3.1 subpart 1403.C and D.

Name (Original Signature): ROBERT SMITH

Title: HSE ADJUTOR

Date: 7-20-00

4600g

MATERIAL SAFETY DATA SHEET  
HALLIBURTON ENERGY SERVICES  
DUNCAN, OKLAHOMA 73536

DATE: 03-23-00  
REVISED DATE 04-07-99

EMERGENCY TELEPHONE: 800/666-9260 OR 580/251-3359  
EMERGENCY TELEPHONE: 800/666-9260 OR 580/251-3359

\*\*\*\*\* SECTION I - PRODUCT DESCRIPTION \*\*\*\*\*

CHEMICAL CODE: LGC-VIII CONCENTRATE - BULK PART NUMBER: 516005670  
PKG QTY: CARGO TANK APPLICATION: CONCENTRATE  
SERVICE USED: STIMULATION

\*\*\*\*\* SECTION II - COMPONENT INFORMATION \*\*\*\*\*

COMPONENT	PERCENT	TLV	PEL
GUAR GUM 4000 lb.	31-60 %	10 MG/M3	15 MG/M3
ETHOXYLATED NONYLPHENOL	1-10 %	NOT EST	NOT EST
DIESEL 1080 gallon	31-60 %	NOT EST	NOT EST

\*\*\*\*\* SECTION III - PHYSICAL DATA \*\*\*\*\*

PROPERTY MEASUREMENT

APPEARANCE	YELLOWISH LIQUID, GEL
ODOR	DIESEL
SPECIFIC GRAVITY (H2O=1)	1.035
BULK DENSITY	8.62 LB/GAL
PH	NOT DETERMINED
SOLUBILITY IN WATER AT 20 DEG C. GMS/100ML H2O	NIL
BIODEGRADABILITY	SLOWLY
PERCENT VOLATILES	100
EVAPORATION RATE (BUTYL ACETATE=1)	<1
VAPOR DENSITY	5-6
VAPOR PRESSURE (MMHG)	N/D
BOILING POINT (760 MMHG)	300 F / 148 C
POUR POINT	N/D
FREEZE POINT	N/D
SOLUBILITY IN SEAWATER	NOT EVALUATED
PARTITION COEF (OCTANOL IN WATER)	NOT EVALUATED

\*\*\*\*\* SECTION IV - FIRE AND EXPLOSION DATA \*\*\*\*\*

NFPA (704) RATING:  
HEALTH 1 FLAMMABILITY 2 REACTIVITY 0 SPECIAL NONE  
FLASH POINT 128 F / 53 C FLASH MTHD TCC  
AUTOIGNITION TEMPERATURE ND F / ND C  
FLAMMABLE LIMITS (OZ. PER CU. FT.) LOWER N/D UPPER N/D

\*\*\*\*\* EXTINGUISHING MEDIA:

USE WATER SPRAY, FOAM, DRY CHEMICAL, OR CARBON DIOXIDE.

SPECIAL FIRE FIGHTING PROCEDURES:

USE WATER SPRAY TO COOL FIRE-EXPOSED SURFACES.

ATTENTION.

INHALATION:

REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION, PREFERABLY MOUTH-TO-MOUTH. IF BREATHING IS DIFFICULT, GIVE OXYGEN. SEEK PROMPT MEDICAL ATTENTION.

INGESTION:

DO NOT INDUCE VOMITING! ASPIRATION INTO LUNGS DUE TO VOMITING CAN CAUSE CHEMICAL PNEUMONITIS WHICH CAN BE FATAL. IF VOMITING OCCURS SPONTANEOUSLY, KEEP HEAD BELOW HIPS TO PREVENT ASPIRATION OF LIQUID INTO LUNGS.

\* \* \* \* \* SECTION VI - REACTIVITY DATA \* \* \* \* \*

PN: 516005670

PAGE 3

STABILITY: STABLE

CONDITIONS TO AVOID:

HEAT, SPARKS AND OPEN FLAME.

INCOMPATIBILITY (MATERIALS TO AVOID):

STRONG OXIDIZERS.

HAZARDOUS DECOMPOSITION PRODUCTS:

NITROGEN OXIDES, CARBON DIOXIDE AND/OR CARBON MONOXIDE.

HAZARD POLYMERIZATION: WON'T OCCUR

CONDITIONS TO AVOID:

NOT APPLICABLE.

\* \* \* \* \* SECTION VII - SPILL OR LEAK PROCEDURES \* \* \* \* \*

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

USE PROTECTIVE EQUIPMENT. ISOLATE SPILL AREA AND STOP LEAK WHERE SAFE. REMOVE IGNITION SOURCES. CONTAIN AND ABSORB SPILL WITH SAND OR OTHER INERT MATERIAL. SCOOP OR SWEEP UP USING NON-SPARKING TOOLS. IN ENCLOSED AREAS, WEAR SELF-CONTAINED BREATHING APPARATUS.

WASTE DISPOSAL METHOD:

GET APPROVAL FROM HAZARDOUS WASTE DISPOSAL SITE AUTHORIZED UNDER EPA-RCRA SUBTITLE C OR STATE EQUIVALENT. SHIP TO SITE.

\* \* \* \* \* SECTION VIII - SPECIAL PROTECTION INFORMATION \* \* \* \* \*

RESPIRATORY PROTECTION (USE NIOSH/MSHA APPROVED EQUIPMENT):

ORGANIC VAPOR CARTRIDGE RESPIRATOR WITH A DUST-MIST FILTER.

IN OXYGEN DEFICIENT AREAS OR CONFINED SPACES, POSITIVE PRESSURE SUPPLIED-AIR RESPIRATOR WITH 5-MINUTE AUXILIARY BOTTLE, OR PRESSURE-DEMAND OR POSITIVE PRESSURE SELF-CONTAINED BREATHING APPARATUS.

VENTILATION:

USE ONLY WITH ADEQUATE VENTILATION. LOCAL EXHAUST VENTILATION SHOULD BE USED IN AREAS WITHOUT GOOD CROSS VENTILATION.

LOCAL EXHAUST VENTILATION MUST BE DESIGNED FOR COMBUSTIBLE ATMOSPHERES (NEC CLASS II EQUIPMENT).

PROTECTIVE GLOVES:

IMPERVIOUS RUBBER GLOVES.

EYE PROTECTION:

WEAR GOGGLES AND/OR FACE SHIELD. PROVIDE EYEWASH AND QUICK DRENCH SYSTEM.

OTHER PROTECTIVE EQUIPMENT:

RUBBER APRON TO PREVENT DIRECT SKIN CONTACT.

\* \* \* \* \* SECTION IX - SPECIAL PRECAUTIONS \* \* \* \* \*

PRECAUTIONARY LABELING LGC-VIII CONCENTRATE - BULK

516.005670

SITUATIONS IN WHICH THE LISTED PRODUCT OR THIS INFORMATION MAY BE USED BY OUR CUSTOMER, THERE IS NO GUARANTEE THAT THE HEALTH AND SAFETY PRECAUTIONS SUGGESTED WILL BE PROPER UNDER ALL CONDITIONS. IT IS THE SOLE RESPONSIBILITY OF EACH USER OF THE LISTED PRODUCT TO DETERMINE AND COMPLY WITH THE REQUIREMENTS OF ALL APPLICABLE LAWS AND REGULATIONS REGARDING ITS USE OR DISPOSAL. THIS INFORMATION IS GIVEN SOLELY FOR THE PURPOSES OF HEALTH AND SAFETY TO PERSONS AND PROPERTY. ANY OTHER USE OF THIS INFORMATION IS EXPRESSLY PROHIBITED. HEALTH, SAFETY AND ENVIRONMENT DEPARTMENT, HALLIBURTON ENERGY SERVICES.

District I - (505) 393-6161  
 P. O. Box 1980  
 Hobbs, NM 88241-1980  
 District II - (505) 748-1283  
 811 S. First  
 Artesia, NM 88210  
 District III - (505) 334-6178  
 Rio Brazos Road  
 NM 87410  
 District IV - (505) 827-7131

New Mexico  
 Energy Minerals and Natural Resources Department  
 Oil Conservation Division  
 2040 South Pacheco Street  
 Santa Fe, New Mexico 87505  
 (505) 827-7131

Form C-138  
 Originated 8/8/95

Submit Original  
 Plus 1 Copy  
 to appropriate  
 District Office

Env. JN: 96052-

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input checked="" type="checkbox"/> Non-Exempt: <input type="checkbox"/>	<i>Denny Faust</i> 7-13-00 13:00±	4. Generator <i>Phillips Petroleum</i>
Verbal Approval Received: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		5. Originating Site <i>SJ 29-6 #30 SW</i>
2. Management Facility Destination <i>Envirotech Soil Remediation Facility Landfarm #2</i>		6. Transporter <i>Key Energy</i>
3. Address of Facility Operator <i>5796 US Highway 64 Farmington, NM 87401</i>		8. State <i>New Mexico</i>
7. Location of Material (Street Address or ULSTR)	<i>"P" Sec 2, T29N, R6W, S1E, N.M.</i>	
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.  All transporters must certify the wastes delivered are only those consigned for transport.		

BRIEF DESCRIPTION OF MATERIAL:

*Sand & coal fine sledge @ water disposal facility*



Estimated Volume 240 bbl cy Known Volume (to be entered by the operator at the end of the haul) 240 bbl cy

SIGNATURE: *Harlan M. Brown* TITLE: Landfarm Manager DATE: 7.14.00  
 Waste Management Facility Authorized Agent  
 TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. 505-632-0615

(This space for State Use)

APPROVED BY: *Denny Faust* TITLE: Geologist DATE: 7/20/00  
 APPROVED BY: *Charlie Therr* TITLE: Deputy Adm. Director DATE: 7/24/2000

# CERTIFICATE OF WASTE STATUS

<b>1. Generator Name and Address:</b> Phillips Petroleum 5525 Hwy Box 3004 FARMINGTON, NM 87401	<b>2. Destination Name:</b> Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico
<b>3. Originating Site (name):</b> Location of the Waste (Street address &/or ULSTR): SAN JUAN 29-6 #301 WATER DISPOSAL STATION Attach list of originating sites as appropriate	
<b>4. Source and Description of Waste</b> <ul style="list-style-type: none"> <li>TANK BOTTOMS FROM upstream settling tank @ Phillips WATER DISPOSAL STATION</li> <li>product originated from incoming wells producing water mixed w/ solids</li> </ul>	

I, ROBERT A. WIRTANEN RAW representative for: Phillips Petroleum Company do hereby certify that, according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July, 1988, regulatory determination, the above described waste is: (Check appropriate classification)

EXEMPT oilfield waste  NON-EXEMPT oilfield waste which is non-hazardous by characteristic analysis or by product identification  
 - WASTESTREAM WAS CHECKED FOR NORM & NONE WAS FOUND - RAW 7-13-00  
 and that nothing has been added to the exempt or non-exempt non-hazardous waste defined above.

For NON-EXEMPT waste only the following documentation is attached (check appropriate items):

- MSDS Information  Other (description):
- RCRA Hazardous Waste Analysis
- Chain of Custody

Name (Original Signature): Robert A. Wirtanen  
 Title: Sp. Safety - Environmental Specialist  
 Date: 7-13-00