NM1-11

C-138

Date: 1997

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
1000 Rio Brazos Road
Aztec, 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: ☒ Non-Exempt: ☐	4. Generator Various Producers
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Natco
2. Management Facility Destination Envirotech Soil RemediationFac. Landfarm #2	6. Transporter Envirotech
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	2855 Southside River RD. Farmington, N.M. 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:

Solids generated from cleaning oil & gas production equipment
Equipment checked for Norms contamination by producer or by
Natco QC manager before work begins.

BOL 10211
3.24.97
LFZ:US: W-8

RECEIVED
MAR - 7 1997
OIL CON. DIV.
DIST. 3

This document was mis-filed

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

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 3.6.97
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. Foust TITLE: Geologist DATE: 1/29/98

APPROVED BY: Ernie Busch TITLE: Geologist DATE: 1/29/98

ENVIROTECH INC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

'96 U.S. HIGHWAY 64 - 3014
.RMINGTON, NEW MEXICO 87401,
PHONE: (505) 632-0615

CERTIFICATE OF WASTE STATUS
OILFIELD EXEMPT WASTE

Originating Location: Williamson #1-25

Source: Production Equipment (Apache Corporation)

Disposal Location: Envirotech Soil Remediation Facility, (ESRF)
Hilltop, New Mexico

"As a condition of acceptance for disposal, I hereby certify that this waste is an oilfield production exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. Additionally, to my knowledge, no non-exempt waste that is a "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has been added or mixed with the exempt waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, section 261.3(b)."

I, the undersigned, as the agent for Natco concur with the status of the waste from the subject site.

Name Eric Moore
Title/Agency RC Manager
Address 2855 Southside River Road
Signature [illegible]
Date 2-28-97

ENV RO' 'ECH NC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

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

CERTIFICATE OF WASTE STATUS
OILFIELD EXEMPT WASTE

Originating Location: See Attached List

Source: Production Equipment (Conoco)

Disposal Location: Envirotech Soil Remediation Facility, (ESRF)
Hilltop, New Mexico

"As a condition of acceptance for disposal, I hereby certify that this waste is an oilfield production exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. Additionally, to my knowledge, no non-exempt waste that is a "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has been added or mixed with the exempt waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, section 261.3(b)."

I, the undersigned, as the agent for Natco concur with the status of the waste from the subject site.

Name Eric Moore
Title/Agency QC Manager
Address 2855 Southside River Road
Farmington, N.M. 87401
Signature [illegible]
Date 2-28-97

	Conoco	Waste
1	Newsome #20	Job# 73006103
2	Hodges #11	Job# 73006126
3	tate Com J #6	Job# 73006179
4	San Juan 28-7 # 182	Job# 73006191
	State Com M #9	Job# 73006192
6	State Com AI #33	Job# 73006779
7	Jicarilla #18	Job# 73006998
8	San Juan 28-7 #145	Job# 73006471
9	San Juan 28-7 #220	Job# 73006518
10	State Com R-14	Job# 73006866
11	LITE 11A	Job# 73006784
12	SJ. 28-7 Chacra	Job# 73006783
13	San Juan 28-7 #237	Job# 73006754

ENVIROTECH INC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

[illegible] U.S. HIGHWAY 64 - 3014
[illegible]MINGTON, NEW MEXICO 87401
PHONE: (505) 632-0615

CERTIFICATE OF WASTE STATUS
OILFIELD EXEMPT WASTE

Originating Location: See Attached list

Source: Production Equipment (Burlington)

Disposal Location: Envirotech Soil Remediation Facility, (ESRF)
Hilltop, New Mexico

"As a condition of acceptance for disposal, I hereby certify that this waste is an oilfield production exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. Additionally, to my knowledge, no non-exempt waste that is a "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has been added or mixed with the exempt waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, section 261.3(b)."

I, the undersigned, as the agent for Natco concur with the status of the waste from the subject site.

Name Eric Moore
Title/Agency G.C. Manager

Address 2855 Southside River Rd.
Farmington, N.M. 87401

Signature [illegible]

Date 2-28-97

Meridian Waste solids.

1- Marshal #2 Job# 73005916
2- Huber #1 Job# 73006171
3- Jicarilla 443 #1 Job# 73006172
4- Newsome B #12E Job# 73006201
5- San Juan 27-4 #51 Job# 73006236
6- Jicarilla 153 #10 Job# 73006220
7- San Juan 27-4 #145 Job# 73006242
8- San Juan 27-4 #121A Job# 73006247
9- San Juan 27-4 #50E Job# 73006257
10- Turner B-Com A-200 Job# 73006233
11- Albino Canyon #2 Job# 73006224
12- Schumacher #9A Job# 73006223
13- San Juan 29-7 #30E Job# 73006438
14- Greiner A3M Job# 73006453
15- Lutt #1E Job# 7300 7189
16- NYE #3 M.U. Job# 7300 7087
17- San Juan 25-7 #126E Job# 73007178
18- San Juan 25-5 #80 Job# 73007261
19- San Juan 28-5 #103 Job# 73006741
20- Dow Marks Com #1 Job# 73006646
21- Newsom A #15 Job# 73006381
22- Jicarilla 94-1A Job# [illegible]
23- 28-6 #156 Job# 73006675
24- San Juan 28-6 #4R Job# 73006684

Meridian Wastes

25- Fuelie A#5 Job# 73006769

26- San Juan 29-7#138 Job# 73007260

27- San Juan 28-6#185 Job# 73007176

28- San Juan 28-5#97 Job #73007303

29- San Juan 28-5#61 Job# 73007469

30- Vaughn #19 Job# 73007371

31- Sanchez A#2 Job# 73007372

32- CPM #2 Job# 73007373

33- CPM #3A Job# 73007374

NATCO

To whom it may concern.

The equipment on the following lists have all been N.O.R.M. tested by a NATCO qualified technician. Upon arrival to our yard. Or by a qualified person for the lease operator.

Thank You

Eric L. Moore
Q.C. Manager

NATCO, a division of
National Tank Company

2855 Southside River Road
Farmington, NM 87401

Tel: (505) 326-6537
Fax: (505) 327-1481

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
1000 Rio Brazos Road
Aztec, 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: 96003-03

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☒ Non-Exempt: ☐ D.F. 3.24.97 8:55	4. Generator E.P.F.S.
Verbal Approval Received: Yes ☒ No ☐	5. Originating Site Florance #1
2. Management Facility Destination Envirotech Soil RemediationFac. Landfarm #2	6. Transporter Philips ENV.
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	J Sec. 8 T30N R11W.

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:

Dehydrator drip pits

RECEIVED
APR - 1 1997
OIL CON. DIV.
DIST. 3

Estimated Volume ±1000 cy Known Volume (to be entered by the operator at the end of the haul) 230 cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 3.25.97
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. Foust TITLE: Geologist DATE: 4/1/97

APPROVED BY: Johnny Robinson TITLE: Field Rep II DATE: 4-1-97

ENVIROTECH INC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

796 U.S. HIGHWAY 64 - 3014
ARMINGTON, NEW MEXICO 87401
HONE: (505) 632-0615

CERTIFICATE OF WASTE STATUS
OILFIELD EXEMPT WASTE

Originating Location: FLORANCE #1 (J-08-30-11) (4 S T R)

Source: Dehydrator/Drip pits in the state of New Mexico

Disposal Location: Envirotech Soil Remediation Facility, (ESRF) Hilltop, New Mexico

"As a condition of acceptance for disposal, I hereby certify that this waste is an oilfield production exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. Additionally, to my knowledge, no non-exempt waste that is a "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has been added or mixed with the exempt waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, section 261.3(b)."

I, the undersigned as the agent for the _____ concur with the status of the waste from the subject site.

Name Ricky D. Crosby

Title/Agency Compliance Specialist

Address P.O. Box 4990
Farmington NM 87499-99

Signature Ricky D. Crosby

Date 03/20/97

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
[illegible] Rio Brazos Road
[illegible], 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: 96003-03

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☒ Non-Exempt: ☐ DF 3.24.97 8:55	4. Generator EPFS
Verbal Approval Received: Yes ☒ No ☐	5. Originating Site De.Na.Haz. ZA #1
2. Management Facility Destination Envirotech Soil RemediationFac Landfarm #2	6. Transporter Philip Env.
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	D - Sec 18 T 26N R 8W

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:

Dehydrator / drip pits

RECEIVED
APR - 1 1997
OIL CON. DIV.
DIST. 3

Estimated Volume ± 1000 cy Known Volume (to be entered by the operator at the end of the haul) 226 cy

SIGNATURE: Harlan M Brown TITLE: Landfarm Manager DATE: 3.25.97
Waste Management FacilityAuthorized Agent

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. (505)632-0615

(This space for State Use)

APPROVED BY: Denny G. Faut TITLE: Geologist DATE: 4/1/97

APPROVED BY: Johnny Robinson TITLE: Field Rep II DATE: 4-1-97

ENVIROTECH INC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

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

CERTIFICATE OF WASTE STATUS
OILFIELD EXEMPT WASTE

Originating Location: DE-NA-HAZ-ZA#1 (D-18-26-08) (U S T R)

Source: Dehydrator/Drip pits in the state of New Mexico

Disposal Location: Envirotech Soil Remediation Facility, (ESRF) Hilltop, New Mexico

"As a condition of acceptance for disposal, I hereby certify that this waste is an oilfield production exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. Additionally, to my knowledge, no non-exempt waste that is a "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has been added or mixed with the exempt waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, section 261.3(b)."

I, the undersigned as the agent for the _____ concur with the status of the waste from the subject site.

Name Ricky D. Cosby

Title/Agency Compliance Specialist

Address P.O. Box 4990
Farmington NM 87499-99

Signature Ricky D. Cosby

Date 03/20/97

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
1000 Rio Brazos Road
Aztec, 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: 96003-03

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☒ Non-Exempt: ☐ DF 3.24.97 8:55	4. Generator E.P.F.S.
Verbal Approval Received: Yes ☒ No ☐	5. Originating Site Hammond #41A
2. Management Facility Destination Envirotech Soil RemediationFac. Landfarm #2	6. Transporter Philip Env.
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	O Sec25 T27N R 8W

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:

Dehydrator Drip Pits.

RECEIVED
APR - 1 1997
OIL CON. DIV.
DIST. 3

Estimated Volume ±1000 cy Known Volume (to be entered by the operator at the end of the haul) 1176 cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 3-28-97
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. Foust TITLE: Geologist DATE: 4/1/97

APPROVED BY: Johnny Robinson TITLE: Field Rep II DATE: 4-1-97

ENVIROTECH INC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

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

CERTIFICATE OF WASTE STATUS
OILFIELD EXEMPT WASTE

Originating Location: HAMMOND 41 A (U-25-27-08)

Source: Dehydrator/Drip pits in the state of New Mexico

Disposal Location: Envirotech Soil Remediation Facility, (ESRF) Hilltop, New Mexico

"As a condition of acceptance for disposal, I hereby certify that this waste is an oilfield production exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. Additionally, to my knowledge, no non-exempt waste that is a "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has been added or mixed with the exempt waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, section 261.3(b)."

I, the undersigned as the agent for the _____ concur with the status of the waste from the subject site.

Name Ricky D. Cosby

Title/Agency Complaince Specialist

Address P.O. Box 4990
Farmington NM 87499-99

Signature Ricky D. Cosby

Date 03/20/97

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
1000 Rio Brazos Road
Aztec, 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: 92197

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☒ Non-Exempt: ☐ DF 3.25.97 15:25	4. Generator Burlington Resources
Verbal Approval Received: Yes ☒ No ☐	5. Originating Site Val Verde Plant
2. Management Facility Destination Envirotech Soil RemediationFac Landfarm #2	6. Transporter Freemyer
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	County Road 4900, Bloomfield.

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:

Contamination of charcoal filtration media.

RECEIVED
APR - 1 1997
OIL CON. DIV.
DIST. 3

Estimated Volume 8 cy cy Known Volume (to be entered by the operator at the end of the haul) 16 cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 3.25-97
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. Foust TITLE: Geologist DATE: 4/1/97

APPROVED BY: Johnny Robinson TITLE: Field Rep II DATE: 4-1-97

ENVIROTECH INC.

UNDERGROUND TANK TESTING - SITE ASSESSMENT - SITE REMEDIATION

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

CERTIFICATE OF WASTE STATUS
OILFIELD EXEMPT WASTE

Originating Location: Val Verde Plant

Source: Charcoal Filtering

Disposal Location: Envirotech Soil Remediation Facility (ESRF)
Hilltop, New Mexico

"As a condition of acceptance for disposal, I hereby certify that this waste is an oilfield production exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. Additionally, to my knowledge, no non-exempt waste that is a "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has been added or mixed with the exempt waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, section 261.3(b)."

I, the undersigned, as the agent for Burlington Resources, concur with the status of the waste from the subject site.

Name Craig A. Bock
Title/Agency Env. Representative.

Address P.O Box 4289
Farmington, New Mexico 87499-4289.

Signature C. A. Bock

Date 3/25/97

Exempt Waste Manifest
Burlington Resources Oil & Gas

P.O. Box 4289, Farmington, NM 87499

Safety and Environmental

1. Waste Location: Lease/Well No. Val Verde Plant

2. Volume: 16 Cubic Yards _____ Barrels _____ Gallons

3. Description of Waste: Charcoal Filter Media

4. Method of Waste Generation: Charcoal is used to filter the MDEA at the plant. MDEA is used to remove CO2 from the gas stream.

5. Disposal Facility: Envirotech Inc.

6. Disposal Cost: $16 cubic yard

7. This waste material complies with the definition of exempt waste as listed in 40 CFR 261.4.

Approval for Disposal _____ (signature) Date 3/25/97

BR Representative

Transportation Company: _____

Date(s) Transported: _____

BR Representative on Site: _____ (signature) Date _____

Disposal Facility

Complete and return to Burlington Safety and Environmental with invoice.

Date(s) Received: _____

Total Volume Received: _____

Waste Location: Cell/Grid No. _____

Received By: _____

Revised January 28, 1997
s:\2-envnmt\wastemgt\w-mnfst.doc

BURLINGTON RESOURCES

ENVIRONMENTAL/SAFETY DEPARTMENT

3535 East 30th Street, Farmington NM 87401
P.O. Box 4289, Farmington, NM 87499
(505) 326-9700 Fax: (505) 326-9725

DATE: 3/25/97

TO: Harlin

COMPANY: Envirotech

FAX: (505) 632-1865

FROM: Craig A. Bock

NO. OF PAGES (including cover): 3

COMMENTS OR SPECIAL INSTRUCTIONS:

Val Verde Plant will be contacting you with a delivery time.

BR Fax # 326-9725

Please call me at 326-9537 if you have any questions.

Please call (505) 326-9506 or 326-4055 for fax transmission assistance.

P.O. 1980
Hobbs, NM 88241-19
District II - (505) 748-1283
111 S. First
Artesia, NM 88210
District III - (505) 334-6178
1 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

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

Form C-1
Originated 8/

Submit Ori
Plus 1 (
to approp
District O

Env JN: 96003-13

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator E.P.F.S
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site CHACO Plant North & South Contact P
2. Management Facility Destination Envirotech Soil RemediationFac Landfarm #2	6. Transporter TBA
3. Address of Facility Operator 5796 U.S. 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: Previous Approval dated 9.24.96
Continuation of "sludge removed from North & South contact pools"...
Material was stored on 10mil plastic to dry.
TCLP ATTACHED.

RECEIVED MAR 11 1997 OIL CON. DIV DIST. 3

RECEIVED MAR - 7 1997 OIL CON. DIV. DIST. 3

Estimated Volume 1000 cy cy Known Volume (to be entered by the operator at the end of the haul) 756 cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 3.6.97
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. Foust TITLE: Geologist DATE: 3/7/97

APPROVED BY: [illegible] TITLE: Bureau Chief DATE: 3/10/97

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
1000 Rio Brazos Road
Aztec, 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: 96003-13

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator E.P.F.S
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site CHACO Plant North & South Contact Ponds
2. Management Facility Destination Envirotech Soil RemediationFac Landfarm #2	6. Transporter TBA
3. Address of Facility Operator 5796 U.S. 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: Previous Approval dated 9.24.96
Continuation of "sludge removed from North & South contact ponds"..
Material was stored on 10mil plastic to dry.
TCLP ATTACHED.

RECEIVED
MAR - 7 1997
OIL CON. DIV.
DIST. 3

Estimated Volume 1000 cy cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Harlan M. Brown
Waste Management FacilityAuthorized Agent
TITLE: Landfarm Manager DATE: 3.6.97

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. (505)632-0615

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 3/7/97

APPROVED BY: _____ TITLE: _____ DATE: _____

Envirotech
5796 US Highway 64
Farmington, NM 87401

CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL

Originating Location:	El Paso Field Services Chaco Plant
Source:	North & South Contact Wastewater Ponds
Disposal Location:	Envirotech landfarm - Farmington, NM

"As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as determined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR 261 to verify the nature as non-hazardous. I further certify that to my knowledge no "hazardous or listed waste" pursuant to the provisions of 40 CFR, part 261, Subparts C and D, has been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, section 261.3(b)."

I, the undersigned as agent for the El Paso Field Services Company concur with the status of the waste from the subject site.

Name:	David Bays
Title/Agency:	Sr. Env. Scientist
Address:	P. O. Box 4990
	Farmington, NM
Signature:	David Bays
Date:	March 7, 1997

Maximum Contaminant Concentrations For Toxicity Characteristic Wastes

	Waste Stream Constituent	Concentration (milligrams/liter mg/l)	EPA HW No.		Waste Stream Constituent	Concentration (milligrams/liter mg/l)	EPA HW No.	
	* Arsenic	5.0	D004		Hexachlorobenzene	0.13	D032	
	* Barium	100.0	D005		Hexachlorobutadiene	0.5	D033	
	Benzene	0.5	D018		Hexachloroethane	3.0	D034	
	* Cadmium	1.0	D006		* Lead	5.0	D008	
	Carbon Tetrachloride	0.5	D019		* Lindane	0.4	D013	Pesticide
Pesticide	Chlordane	0.03	D020		* Mercury	0.2	D009	
	Chlorobenzene	100.0	D021		* Methoxychlor	10.0	D014	Pesticide
	Chloroform	6.0	D022		Methyl ethyl ketone	200.0	D035	
	* Chromium	5.0	D007		Nitrobenzene	2.0	D036	
	Cresol	200.0	D026		Pentachlorophenol	100.0	D037	
	m-Cresol	200.0	D024		Pyridine	5.0	D038	
	o-Cresol	200.0	D023		* Selenium	1.0	D010	
	p-Cresol	200.0	D025		* Silver	5.0	D011	
Herbicide	* 2,4-D	10.0	D016		* 2,4,5-TP (Silvex)	1.0	D017	Herbicide
	1,4-Dichlorobenzene	7.5	D027		Tetrachloroethylene	0.7	D039	
	1,2-Dichloroethane	0.5	D028		* Toxaphene	0.5	D015	Pesticide
	1,1-Dichloroethylene	0.7	D029		Trichloroethylene	0.5	D040	
	2,4-Dinitrotoluene	0.13	D030		2,4,5-Trichlorophenol	400.0	D041	
Pesticide	* Endrin	0.02	D012		2,4,6-Trichlorophenol	2.0	D042	
Pesticide	Heptachlor	0.008	D031		Vinyl chloride	0.2	D043	

* - EP Toxic wastes; TCLP must now be utilized for characterizing these wastes

ENVIROTECH LABS
PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

September 18, 1996

Mr. John Lambdin
El Paso Field Services, Inc.
P.O. Box 4990
Farmington, New Mexico 87499

Project No.: 96003-13

Dear John,

Enclosed are the analytical results for the sample collected from the EPFS location designated as "Chaco Plant". One sludge sample was collected by EPFS designated personnel on September 6, 1996, and received by the Envirotech laboratory on September 6, 1996 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. 4078 and assigned Laboratory No. A540 (EPFS No. 960740) for tracking purposes. The sample was extracted on 09/09/96 and analyzed on 09/09/96 - 09/12/96 using USEPA or equivalent methods.

Results of the analysis indicate that the material from the designated location is not a characteristic hazardous waste as defined by 40 CFR, Section 261, Subpart C for the noted compounds.

Should you have any questions or require additional information, please do not hesitate to contact us at (505) 632-0615. It is always a pleasure doing business with you.

Respectfully submitted,
Envirotech, Inc.

Stacy W. Sendler
Environmental Scientist/Laboratory Manager

enc.

SWS\sws 96003-13.lb1

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SUSPECTED HAZARDOUS & SOLID WASTE ANALYSIS

Client:	El Paso Field Services	Project #:	96003-13
Sample ID:	960740	Date Reported:	09-16-96
Lab ID#:	A540	Date Sampled:	09-06-96
Sample Matrix:	Sludge	Date Received:	09-06-96
Preservative:	Cool	Date Analyzed:	09-09-96
Condition:	Cool & Intact	Chain of Custody:	4078

Parameter	Result
IGNITABILITY:	**Did not ignite upon direct contact with flame.**
CORROSIVITY:	**7.20**
REACTIVITY:	**Did not react violently with water, strong base (10N Sodium Hydroxide), or strong acid (6N Hydrochloric acid).**

RCRA Hazardous Waste Criteria

Parameter	Hazardous Waste Criterion
IGNITABILITY:	Sample Ignition upon direct contact with flame indicates hazardous waste status.
CORROSIVITY:	pH less than or equal to 2.0 or pH greater than or equal to 12.5 indicates hazardous waste status.
REACTIVITY:	Violent reaction with water, strong base (10N Sodium Hydroxide), or strong acid (6N Hydrocholoric Acid) indicates hazardous waste status.

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

Comments: **Chaco Plant, North Contact Pond.**

Analyst

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EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS

Client:	El Paso Field Services	Project #:	96300-13
Sample ID:	960740	Date Reported:	09-16-96
Laboratory Number:	A540	Date Sampled:	09-06-96
Chain of Custody:	4078	Date Received:	09-06-96
Sample Matrix:	Soil	Date Extracted:	09-09-96
Preservative:	Cool	Date Analyzed:	09-10-96
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.0012	0.2
1,1-Dichloroethene	ND	0.0030	0.7
2-Butanone (MEK)	0.0144	0.0001	200
Chloroform	ND	0.0008	6.0
Carbon Tetrachloride	ND	0.0009	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	96%
	Bromofluorobenzene	96%

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: **Chaco Plant, North Contact Pond.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8040
PHENOLS

Client:	El Paso Field Services	Project #:	96003-13
Sample ID:	960740	Date Reported:	09-16-96
Laboratory Number:	A540	Date Sampled:	09-06-96
Chain of Custody:	4078	Date Received:	09-06-96
Sample Matrix:	Soil	Date Extracted:	09-09-96
Preservative:	Cool	Date Analyzed:	09-12-96
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. 198

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

Comments: **Chaco Plant, North Contact Pond.**

Analyst

Stacy W Sendler

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	El Paso Field Services	Project #:	96003-13
Sample ID:	960740	Date Reported:	09-16-96
Laboratory Number:	A540	Date Sampled:	09-16-96
Chain of Custody:	4078	Date Received:	09-06-96
Sample Matrix:	Soil	Date Extracted:	09-09-96
Preservative:	Cool	Date Analyzed:	09-12-96
Condition:	Cool and Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.021	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	0.021	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: **Chaco Plant, North Contact Pond.**

Analyst

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ENVIRO-TECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC
LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	El Paso Field Services	Project #:	96003-13
Sample ID:	960740	Date Reported:	09-13-96
Laboratory Number:	A540	Date Sampled:	09-06-96
Chain of Custody:	4078	Date Received:	09-06-96
Sample Matrix:	Sludge	Date Analyzed:	09-12-96
Preservative:	Cool	Date Extracted:	09-09-96
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
Arsenic	ND	0.001	5.00
Barium	1.74	0.01	100
Cadmium	0.004	0.001	1.00
Chromium	0.003	0.001	5.00
Lead	0.009	0.001	5.00
Mercury	ND	0.001	0.200
Selenium	ND	0.001	1.00
Silver	ND	0.001	5.0

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

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

Comments: **Chaco Plant, North Contact Pond.**

Analyst

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

QUALITY ASSURANCE / QUALITY CONTROL DOCUMENTATION

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ENVIRO-TECH 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:	09-16-96
Laboratory Number:	09-10-TCV.BLANK	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	09-10-96
Condition:	N/A	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.0012	0.2
1,1-Dichloroethene	ND	0.0030	0.7
2-Butanone (MEK)	ND	0.0001	200
Chloroform	ND	0.0008	6.0
Carbon Tetrachloride	ND	0.0009	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	96%

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 A540.**

Analyst

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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:	09-16-96
Laboratory Number:	09-09-TCV.MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	09-10-96
Condition:	N/A	Date Extracted:	09-09-96
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.0012	0.2
1,1-Dichloroethene	ND	0.0030	0.7
2-Butanone (MEK)	ND	0.0001	200
Chloroform	ND	0.0008	6.0
Carbon Tetrachloride	ND	0.0009	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	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: **QA/QC for sample A540.**

Analyst

Review

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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 Duplicate	Date Reported:	09-16-96
Laboratory Number:	A540	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	09-10-96
Condition:	N/A	Date Extracted:	09-09-96

Parameter	Sample Result (mg/L)	Duplicate Sample Result (mg/L)	Detection Limits (mg/L)	Percent Difference
Vinyl Chloride	ND	ND	0.0012	0.0%
1,1-Dichloroethene	ND	ND	0.0030	0.0%
2-Butanone (MEK)	0.0144	0.0151	0.0001	4.3%
Chloroform	ND	ND	0.0008	0.0%
Carbon Tetrachloride	ND	ND	0.0009	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 A540.

Analyst

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"PRACTICAL SOLUTIONS FOR A BETTER TOMORROW"

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

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Spike	Date Reported:	09-16-96
Laboratory Number:	A540	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	09-10-96
Condition:	N/A	Date Extracted:	09-09-96

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	0.020	0.0207	0.0012	97%	28-163
1,1-Dichloroethene	ND	0.020	0.0218	0.0030	96%	43-143
2-Butanone (MEK)	0.0144	0.020	0.0340	0.0001	99%	47-132
Chloroform	ND	0.020	0.0221	0.0008	98%	49-133
Carbon Tetrachloride	ND	0.020	0.0203	0.0009	97%	43-143
Benzene	ND	0.020	0.0203	0.0001	97%	39-150
1,2-Dichloroethane	ND	0.020	0.0233	0.0001	98%	51-147
Trichloroethene	ND	0.020	0.0219	0.0003	99%	35-146
Tetrachloroethene	ND	0.020	0.0201	0.0005	97%	26-162
Chlorobenzene	ND	0.020	0.0194	0.0003	96%	38-150
1,4-Dichlorobenzene	ND	0.020	0.0198	0.0002	98%	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 A540.

Analyst

Review

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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:	09-16-96
Laboratory Number:	09-12-TCA.BLANK	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	09-12-96
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	99 %
	2,4,6-tribromophenol	98 %

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. 198

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

Comments: **QA/QC for sample A540.**

Analyst

Review

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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:	09-16-96
Laboratory Number:	09-09-TCA.MB	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	Cool	Date Extracted:	09-09-96
Condition:	Cool & Intact	Date Analyzed:	09-12-96
		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	97%
	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. 198

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

Comments: **QA/QC for sample A540.**

Analyst

Review

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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:	09-16-96
Laboratory Number:	A540	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	Cool	Date Extracted:	09-09-96
Condition:	Cool & Intact	Date Analyzed:	09-12-96
		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 A540.**

Analyst

Review

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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:	09-16-96
Laboratory Number:	09-12-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:	09-12-96
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.021	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	0.021	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 A540.**

Analyst

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ENVIRO-TECH 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:	09-16-96
Laboratory Number:	09-09-TBN.MB	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	Cool	Date Extracted:	09-09-96
Condition:	Cool and Intact	Date Analyzed:	09-12-96
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.021	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	0.021	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 A540.**

Analyst

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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:	09-16-96
Laboratory Number:	A540	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Extracted:	09-09-96
Condition:	N/A	Date Analyzed:	09-12-96
		Analysis Requested:	TCLP

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Percent Difference	Det. Limit (mg/L)
Pyridine	ND	ND	0.0%	0.021
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%	0.021

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 A540.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Blanks	Date Reported:	09-13-96
Laboratory Number:	N/A	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	09-12-96
Condition:	N/A	Date Extracted:	N/A

Parameter	Instrument Blank (mg/L)	Method Blank (mg/L)	Det. Limit (mg/L)
Arsenic	ND	ND	0.001
Barium	ND	ND	0.01
Cadmium	ND	ND	0.001
Chromium	ND	ND	0.001
Lead	ND	ND	0.001
Mercury	ND	ND	0.001
Selenium	ND	ND	0.001
Silver	ND	ND	0.001

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

Comments: **QA/QC for samples A540 and A541.**

Analyst

Stacy W Sendler

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	09-13-96
Laboratory Number:	A540	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	09-12-96
Condition:	N/A	Date Extracted:	09-09-96

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Percent Difference
Arsenic	ND	ND	0.0%
Barium	1.74	1.70	2.3%
Cadmium	0.004	0.004	0.0%
Chromium	0.003	0.003	0.0%
Lead	0.009	0.008	11.8%
Mercury	ND	ND	0.0%
Selenium	ND	ND	0.0%
Silver	ND	ND	0.0%

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Maximum Difference
	Trace Metals	30 %

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

Comments: **QA/QC for samples A540 and A541.**

Analyst

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ENVIRO TECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Spike	Date Reported:	09-13-96
Laboratory Number:	A540	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	09-12-96
Condition:	N/A	Date Extracted:	09-09-96

Parameter	Spike Added (mg/L)	Sample Result (mg/L)	Spiked Sample Result (mg/L)	Percent Recovery
Arsenic	0.100	ND	0.100	100%
Barium	1.00	1.74	2.73	100%
Cadmium	0.050	0.004	0.053	98%
Chromium	0.050	0.003	0.053	100%
Lead	0.100	0.009	0.109	100%
Mercury	0.025	ND	0.025	100%
Selenium	0.100	ND	0.099	99%
Silver	0.050	ND	0.050	100%

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Acceptance Range %
	TCLP Metals	80 - 120 %

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

Comments: **QA/QC for samples A540 and A541.**

Analyst

Review

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CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location
JOHN LAMBOIN	CHACO PLANT
Sampler: (Signature) Dennis Bird	Chain of Custody Tape No. 96003-13

ANALYSIS/PARAMETERS

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TCLP METALS	TCLP ORGANICS	REACTIVITY	IGNITIBILITY	CORROSIVITY		Remarks
960740	9-6-96	1123	A540	SLUDGE	1	X	X	X	X	X		NORTH CONTACT POND

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Dennis Bird	9-6-96	1246	[illegible]	9/6/96	1343
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

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

San Juan repro Form 578-81

District I - (505) 393-6161
O Box 1980
lobbs, NM 88241-1980
District II - (505) 748-1283
11 S. First
rtesia, NM 88210
District III - (505) 334-6178
Rio Brazos Road
c. 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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District O

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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Giant Refining
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site T-Way Refinery
2. Management Facility Destination Envirotech Soil RemediationFac Landfarm #2	6. Transporter Giant
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	626 County Road 5500 Bloomfield, NM 87413

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 release: hole in line between Truck and Storage TANK

NOTE: OCD determination for GIANT INDUSTRIES "Handling of Soils Contaminated with Crude Oil", Nov. 9, '95, ATTTACHED

RECEIVED
FEB 27 1997
Environmental Bureau
Oil Conservation Division

RECEIVED
MAR 10 1997
OIL CON. DIV
DIST. 3

RECEIVED
FEB 26 1997
OIL CON. DIV.
DIST. 3

Estimated Volume 30 cy Known Volume (to be entered by the operator at the end of the haul) 90 cy

SIGNATURE: Harlan M Brown TITLE: Landfarm Manager DATE: 2-26-97
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. Foust TITLE: Geologist DATE: 2/26/97

APPROVED BY: [signature] TITLE: Petroleum Engineering Spec DATE: 2/27/97

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
1000 Rio Brazos Road
Aztec, 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: ☐ Non-Exempt: ☒	4. Generator GIANT REFINING
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site T-Way REFINERY
2. Management Facility Destination Envirotech Soil RemediationFac Landfarm #2	6. Transporter GIANT
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	626 County Road 5500 Bloomfield, NM 87413

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 release: hole in line between Truck and Storage TANK

NOTE: OCD determination for GIANT INDUSTRIES "Handling of Soils Contaminated with Crude Oil", Nov. 9, '95, ATTACHED

RECEIVED
FEB 26 1997
OIL CON. DIV.
DIST. 3

Estimated Volume 30y cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Harlan M Brown
Waste Management Facility Authorized Agent

TITLE: Landfarm Manager DATE: 2-26-97

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. (505)632-0615

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 2/26/97

APPROVED BY: _____ TITLE: _____ DATE: _____

Generator: GIANT TRANSPORTATION

CERTIFICATE OF WASTE STATUS
OILFIELD NON-EXEMPT WASTE MATERIAL

Originating Location: 626 CR 5500, Bloomfield, NM 87413

Source: TANK TRUCK, hole in LINE TO Storage TANK

Disposal Location: Envirotech Soil Remediation Facility, (NMED) Hilltop, New Mexico

"As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt oilfield production waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, to verify the nature as non-hazardous. I further certify that to my knowledge no "hazardous or listed waste" pursuant to the provisions of 40 CFR, part 261, Subparts C and D, has been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, section 261.3(b)."

I, the undersigned, as the agent for GIANT TRANSPORTATION concur with the status of the waste from the subject site.

Name Roy ARMENTA
Title/Agency PIPELINE MANAGER

Address 5264 HWY 64
FARMINGTON N.M. 87410

Signature Roy Armenta

Date 2-26-97

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STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION
2040 S. PACHECO
SANTA FE, NEW MEXICO 87505
(505) 827-7131

December 11, 1995

CERTIFIED MAIL
RETURN RECEIPT NO. Z-765-962-523

Mr. Tim Kinney
General Manager
Crude Gathering Operations
Giant Industries, Inc.
5764 US Highway 64
Farmington, New Mexico 87401

RE: CRUDE OIL TRANSPORTATION AND PIPELINE SPILLS

Dear Mr. Kinney:

The New Mexico Oil Conservation Division (OCD) has reviewed Giant Industries, Inc. (Giant) November 9, 1995 "HANDLING OF SOILS CONTAMINATED WITH CRUDE OIL". This document presents the results of representative RCRA hazardous waste characteristic sampling of contaminated soils from transportation related spills of crude oil. Giant requests that they be allowed to use these analyses and a statement of process knowledge for determining the soils to be RCRA non-hazardous. These analyses are to be used in lieu of individual sampling of each spill event.

The above referenced request is approved with the following conditions:

1. The above representative analyses can be used in lieu of individual sampling of each spill event until December 31, 1997.

2. Giant will reference the above waste determination in all future RCRA non-exempt crude oil spill reports to the OCD.

Please be advised that OCD approval does not relieve Giant of liability should these types of leaks and spills result in actual contamination of surface waters, ground waters or the environment. In addition, OCD approval does not relieve Giant of responsibility for compliance with any other federal, state or local laws and/or regulations.

If you have questions please contact me at (505) 827-5885.

Sincerely,

William C. Olson
Hydrogeologist
Environmental Bureau

xc: OCD Aztec District Office
Benito Garcia, NMED Hazardous and Radioactive Waste Bureau

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
1000 Rio Brazos Road
Aztec, 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: 97007

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☒ Non-Exempt: ☐	4. Generator K.N. ENERGY
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Slick Rock Compressor Station
2. Management Facility Destination Envirotech Soil RemediationFac Landfarm #2	6. Transporter INLAND
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State Colorado → New Mexico
7. Location of Material (Street Address or ULSTR)	KW4 SE4 Sec 25, T44N, R19W NMPM San Miguel County, Colo

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: (Previous approval 12-4-96)
Continuation of sludge generated from demo of gas gathering plant.
28 bbls in lined pond @ Fruit, Co. (Mt. West Yard)
1 bbl @ Slick Rock site.

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MAR - 7 1997
OIL CON. DIV.
DIST. 3

Estimated Volume 29 bbl cy Known Volume (to be entered by the operator at the end of the haul) 40bbls cy

SIGNATURE: Harlan M Brown TITLE: Landfarm Manager DATE: 3.6.97
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. Foust TITLE: Geologist DATE: 3/7/97

APPROVED BY: Johnny Robinson TITLE: Field Rep II DATE: 3/7/97

50

Generator: KN Energy

CERTIFICATE OF WASTE STATUS
OILFIELD EXEMPT WASTE

Originating Location: Slick Rock Gas Gathering Plant
NW¼, SE¼, Sec.25, T44N, R19W, NMPM, San Miguel, County, Colorado

Source: Sludge generated during refurbishing/demolition of gas plant (continuation)

Disposal Location: Envirotech Soil Remediation Facility, (ESRF) Hilltop, New Mexico

"As a condition of acceptance for disposal, I hereby certify that this waste is an oilfield production exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. Additionally, to my knowledge, no non-exempt waste that is a "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has been added or mixed with the exempt waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Section 261.3(b)."

I, the undersigned, as agent for MT. West Fabrication concur with the status of the waste from the subject site.

Name: Tony Chavez

Title/Agency Construction Manager

Address 1115 16 Road
Fruita, Colorado

Signature Tony Chavez

Date 3-5-97

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Generator: KN Energy

CERTIFICATE OF WASTE STATUS
OILFIELD EXEMPT WASTE

Originating Location: Slick Rock Gas Gathering Plant
NW¼, SE¼, Sec.25, T44N, R19W, NMPM, San Miguel, County, Colorado

Source: Sludge generated during refurbishing/demolition of gas plant (continuation)

Disposal Location: Envirotech Soil Remediation Facility, (ESRF) Hilltop, New Mexico

"As a condition of acceptance for disposal, I hereby certify that this waste is an oilfield production exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. Additionally, to my knowledge, no non-exempt waste that is a "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has been added or mixed with the exempt waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Section 261.3(b)."

I, the undersigned, as agent for KN Energy Inc.
concur with the status of the waste from the subject site.

Name: Hayden C. Truscott

Title/Agency Environmental Mgr.
KN Energy Inc.

Address 370 Van Gordon St.
Lakewood Co 80228-8304

Signature Hayden C. Truscott

Date 3/3/97

ENVIROTECH INC.
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STATE OF COLORADO
OIL & GAS
CONSERVATION COMMISSION

DEPARTMENT OF NATURAL RESOURCES
Roy Romer, Governor
1120 Lincoln St., Suite 801
Denver, CO 80203
Phone: (303) 894-2100
FAX: (303) 894-2109

February 12, 1997

Tony Chiono
Mountain West
1115 16 Road
Fruita, Colorado

Re: State Notification of Transportation of Exempt Oil Field Waste from the moving and cleaning of the gas plant in Slick Rock, Colorado, NW SE Section 25, Township 44 North, Range 19 West, San Miguel County, Colorado.

Dear Mr. Chiono:

Thank you for notifying the Colorado Oil and Gas Conservation Commission (COGCC) of the transportation of waste from the above referenced well site to an approved landfarm in New Mexico. It is our understanding that one (1) barrel of waste will come from the Slick Rock site, the remainder will come from a 20 foot by 20 foot containment at 1115 16 Road, Fruita, Colorado.

Certification may be required by the State of New Mexico Oil Conservation Division (NMOCD) from your company, the transporter or the generator. Transport of this waste may be subject to other state and Federal laws.

Sincerely,

Loren E. Avis

Loren E. Avis
Environmetal Protection Specialist
COGCC

cc Frank Chavez NMOCD

Frank Chavez
NMOCD
1000 Rio Brazos
Aztec, NM 87410

DEPARTMENT OF NATURAL RESOURCES: James S. Lochhead, Executive Director
COGCC COMMISSION: Caroline Blackwell- Allan Heimer- Bruce Johnson- Logan MacMillan- Mike Matheson- Claudia Rebner- Marie Williams
COGCC STAFF: Richard T. Griebling, Director- Brian J. Macke, Deputy Director- Morris Bell, Manager of Engineering
Patricia C. Beaver, Manager, Environmental & Commission Affairs- Marnan Peacock, Manager of Information

RECEIVED DEC 23 1996

MT WEST
PLANTS & STATIONS
PIPELINES & FABRICATION

PROCESS
ENGINEERING
DESIGN

TRANSMITTAL

DATE: December 19, 1996

NUMBER OF PAGES: 1

ATTENTION: Harlan Brown
COMPANY: Envirotech
PHONE: 505-632-0615
LOCATION: Farmington, NM

FROM: Gary Brom
COMPANY: Mt. West
PHONE: (970)858-3900
FILE: RFQ\waste\1

SUBJECT: CONTENTS OF THE 20'-0" x 20'-0" CONTAINMENT LOCATED AT THE MT. WEST YARD; CONTINUATION OF C-138 DATED 12-4-96 FOR KN ENERGY

Mt. West Fabrication Plants and Stations Inc. was hired by KCS Mountain Resources to dismantle and recondition KN Energy's Slick Rock plant that was purchased by WRA and sold to KCS.

This letter is to confirm that the contents of the 20' x 20' containment at our Fruita yard are mechanically connected to the waste that your company previously removed from our yard. The contents of the 20' x 20' containment were generated exclusively from the Slick Rock plant.

This waste was produced by rinsing the bundles of lean/rich exchanger, reflux condensor and the lean amine coolers.

There is a barrel at the Slick Rock site that was used to contain some amine liquid during the dismantle of the plant. This barrel was overlooked when we moved from the Slick Rock site. Lloyd Nuckles of KN Energy told us that it's a new red barrel on the SE corner of the lot, marked with a label that says "amine." This is mechanically connected processed waste that needs to be disposed.

If you will let Tony Chiono know when a vac-truck is scheduled he will forward the information to Mr. Nuckles. He will also make arrangements for someone to haul off the empty barrel.

Thank you,

Gary Brom

Gary Brom
Manager of Engineering

1115 16 Road • Fruita, Colorado 81521 • (970) 858-3900 • Fax (970) 858-0400

221 NW 2nd Ave., Suite 211 • Portland, Oregon 97209 • (503) 227-7551 • Fax (503) 227-7546

District I - (505) 393-6161
P. O. Box 1980
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811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, 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: 91364-16

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☒ Non-Exempt: ☐ Verbal Approval Received: Yes ☒ No ☐ (Denny Foust 2-19-97 15:00)	4. Generator Burlington Resources 5. Originating Site Jicarilla 96-8A
2. Management Facility Destination Envirotech Soil RemediationFac Landfarm #2	6. Transporter DAWN Trucking
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	Unit D, Section 12, T26N, R3W

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:

Mixed Solids & water from oil & water release from a daily pit.

BOL 10164
35 bbl
Dawn #210
Bland Facility

RECEIVED
FEB 20 1997
OIL CON. DIV.
DIST. 3

Estimated Volume 40-80 bbls cy Known Volume (to be entered by the operator at the end of the haul) 35 bbl cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 2-19-97
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. Foust TITLE: Geologist DATE: 2/21/97

APPROVED BY: Ernie Busch TITLE: Geologist DATE: 2/21/97

ENVIROTECH INC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

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

CERTIFICATE OF WASTE STATUS
OILFIELD EXEMPT WASTE

Originating Location: Jicarilla 96-8A Unit D Sect. 12 T26N R3W

Source: Mixed Solids and Water From Oil & Water Release From Dehy Pit.

Disposal Location: Envirotech Soil Remediation Facility. (ESRF) Hilltop, New Mexico

"As a condition of acceptance for disposal, I hereby certify that this waste is an oilfield production exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. Additionally, to my knowledge, no non-exempt waste that is a "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has been added or mixed with the exempt waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, section 261.3(b)."

I, the undersigned, as the agent for Burlington Resources concur with the status of the waste from the subject site.

Name RANDY GRAVES
Title/Agency Senior Staff Safety Rep.
Address 3535 E. 30th St.
Farmington, NM 87402
Signature Randy Graves
Date 2-19-97

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
Aztec, 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: 93115

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☒ Non-Exempt: ☐ D.F Verbal 2-10-97 14:00	4. Generator Conoco Inc.
Verbal Approval Received: Yes ☒ No ☐	5. Originating Site Shepherd & Kelsey
2. Management Facility Destination Envirotech Soil RemediationFac. Landfarm #2	6. Transporter Rosenbaum
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	Shepard & Kelsey, BE, D Sec 29, T29N, R11W, SJC 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: Pet. Hydrocarbon contaminated soil generated from a Production pit and a produced water pit.

Date	BOL	Volume	Location
2.12.97	10098	160 cy	LF2:45: Y.10
2.13.97	10151	30 cy	LF2:45: Z.10
2.13.97	10151	30 cy	LF2:45: Y.10

RECEIVED
FEB 20 1997
OIL CON. DIV.
DIST. 3

Estimated Volume 80 cy Known Volume (to be entered by the operator at the end of the haul) 220 cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 2-10-97
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. Foust TITLE: Geologist DATE: 2/21/97

APPROVED BY: Ernie Busch TITLE: Geologist DATE: 2/21/97

Generator: Conoco Inc.

CERTIFICATE OF WASTE STATUS
OILFIELD EXEMPT WASTE

Originating Location: Shepherd : Kelsey 1E S 29 / T 29N / R 11W / U D

Source: Exempt Oilfield Waste - Soil Contamination From Leaking Production Tank and Old Production Pit Area

Disposal Location: Envirotech Soil Remediation Facility, (ESRF) Hilltop, New Mexico

"As a condition of acceptance for disposal, I hereby certify that this waste is an oilfield production exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. Additionally, to my knowledge, no non-exempt waste that is a "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has been added or mixed with the exempt waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Section 261.3(b)."

I, the undersigned, as agent for Carl J. Coy concur with the status of the waste from the subject site.

Name: Carl J. Coy

Title/Agency Conoco Inc.
Field Safety Spec.

Address 3315 Bloomfield Hwy
Farmington, NM 87401

Signature Carl J. Coy

Date 2/20/97

ENVIROTECH INC.
PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

5798 U.S. Highway 64-3014 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

Generator: Conoco Inc.

D. F verbal
2.10.97
14:10

CERTIFICATE OF WASTE STATUS
OILFIELD EXEMPT WASTE

Originating Location: Shepherd & Kelsey #1E, D, S29, T29N, R11W
San Juan Co, NM

Source: Production Pit & Produced Water Storage Tank Leak

Disposal Location: Envirotech Soil Remediation Facility, (ESRF)
Hilltop, New Mexico

"As a condition of acceptance for disposal, I hereby certify that this waste is an oilfield production exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. Additionally, to my knowledge, no non-exempt waste that is a "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has been added or mixed with the exempt waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, section 261.3(b)."

I, the undersigned, as the agent for Conoco Inc. concur with the status of the waste from the subject site.

Name Michael K. Lane
Title/Agency Project Manager
On Site Technologies, Ltd.
Address 612 E. Murray Dr.
Farmington, NM
Signature
Date 2/10/97

ENVIROTECH INC.
UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION
5796 U.S. HIGHWAY 64 - 3014

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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

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-
Originated

Submit O
Plus 1
to appro
District

Env JN: 92132

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Halliburton Energy Services
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Main Yard
2. Management Facility Destination Envirotech Soil RemediationFac Landfarm #2	6. Transporter Envirotech Inc.
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	4109 E. Main St. Farmington, 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:

Continuation of Waste Bat. Solids

TCLP, Reaffirmation, CWS attached.

RECEIVED FEB 14 1997 OIL CON. DIV. DIST. 3

RECEIVED FEB 12 1997 OIL CON. DIV. DIST. 3

Estimated Volume 30 cy Known Volume (to be entered by the operator at the end of the haul) 40 cy

SIGNATURE: Harlan M. Brown
Waste Management Facility Authorized Agent

TITLE: Landfarm Manager DATE: 2-11-97

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. (505)632-0615

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 2/12/97

APPROVED BY: [signature] TITLE: Petroleum Engineering Specialist DATE: 2/14/97

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
Aztec, 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
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to appropriate
District Office

Env JN: 92132

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator HALLIBURTON ENERGY SERVICES
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Main Yard
2. Management Facility Destination Envirotech Soil RemediationFac. Landfarm #2	6. Transporter ENVIROTECH INC.
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State NEW MEXICO
7. Location of Material (Street Address or ULSTR)	4109 E. Main St. FARMINGTON, 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:

Continuation of WASH BAY SOLIDS

TCLP, REAFFIRMATION, CWS ATTACHED.

RECEIVED
FEB 12 1997
OIL CON. DIV.
DIST. 3

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: 2-11-97
Waste Management FacilityAuthorized Agent

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. (505)632-0615

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 2/12/97

APPROVED BY: _____ TITLE: _____ DATE: _____

ENVIROTECH INC.

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CERTIFICATE OF WASTE STATUS
OILFIELD NON-EXEMPT WASTE MATERIAL

Originating Location: Halliburton Energy Services 4109 E Main, Farmington

Source: WASH BAY SOLIDS -

Disposal Location: Envirotech Soil Remediation Facility, (NMED)
Hilltop, New Mexico

"As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt oilfield production waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, to verify the nature as non-hazardous. I further certify that to my knowledge no "hazardous or listed waste" pursuant to the provisions of 40 CFR, part 261, Subparts C and D, has been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, section 261.3(b)."

I, the undersigned, as the agent for HALLIBURTON ENERGY SERVICES concur with the status of the waste from the subject site.

Name RJ GREENAKER
Title/Agency SERVICE EQUIPMENT OPERATOR
~~4109 E. MAIN~~ HALLIBURTON ENERGY SERVICES
Address 4109 E. MAIN ST.
FARMINGTON, NM 87402
Signature R J Greenaker
Date Feb 3, 1997

ENVIROTECH INC.

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

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 Characterization Leaching Procedures (TCLP) analysis was performed. I further certify that said material is from operations in the immediate Four Corners area.

Signed RJ Greenaker

Date of TCLP OCT '96

Name RJ GREENAKER

Title/Agency SERVICE EQUIP. OP.

Address 4109 E. MAIN ST.

FARMINGTON, NM 87402

Signature RJ Greenaker

Date FEB 3, '96

IN 92132

Halliburton Energy Services
4109 E Main
Wash. Bay Solids

Maximum Contaminant Concentrations For Toxicity Characteristic Wastes

Waste Stream Constituent	Concentration (milligrams/liter mg/l)	EPA HW No.	Waste Stream Constituent	Concentration (milligrams/liter mg/l)	EPA HW No.
* Arsenic	5.0	D004	Hexachlorobenzene	0.13	D032
* Barium	100.0	D005	Hexachlorobutadiene	0.5	D033
Benzene	0.5	D018	Hexachloroethane	3.0	D034
* Cadmium	1.0	D006	* Lead	5.0	D008
Carbon Tetrachloride	0.5	D019	* Lindane	0.4	D013 Pesticide
Pesticide Chlordane	0.03	D020	* Mercury	0.2	D009
Chlorobenzene	100.0	D021	* Methoxychlor	10.0	D014 Pesticide
Chloroform	6.0	D022	Methyl ethyl ketone	200.0	D035
* Chromium	5.0	D007	Nitrobenzene	2.0	D036
Cresol	200.0	D026	Pentachlorophenol	100.0	D037
m-Cresol	200.0	D024	Pyridine	5.0	D038
o-Cresol	200.0	D023	* Selenium	1.0	D010
p-Cresol	200.0	D025	* Silver	5.0	D011
Herbicide * 2,4-D	10.0	D016	* 2,4,5-TP (Silvex)	1.0	D017 Herbicide
1,4-Dichlorobenzene	7.5	D027	Tetrachloroethylene	0.7	D039
1,2-Dichloroethane	0.5	D028	* Toxaphene	0.5	D015 Pesticide
1,1-Dichloroethylene	0.7	D029	Trichloroethylene	0.5	D040
2,4-Dinitrotoluene	0.13	D030	2,4,5-Trichlorophenol	400.0	D041
Pesticide * Endrin	0.02	D012	2,4,6-Trichlorophenol	2.0	D042
Pesticide Heptachlor	0.008	D031	Vinyl chloride	0.2	D043

*–EP Toxic wastes; TCLP must now be utilized for characterizing these wastes

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

SUSPECTED HAZARDOUS & SOLID WASTE ANALYSIS

Client:	Halliburton Energy Services	Project #:	92132
Sample ID:	Wash Bay Solids	Date Reported:	10-22-96
Lab ID#:	A706	Date Sampled:	10-22-96
Sample Matrix:	Solid	Date Received:	10-22-96
Preservative:	Cool	Date Analyzed:	10-22-96
Condition:	Cool & Intact	Chain of Custody:	4966

Parameter	Result
IGNITABILITY:	**Did not ignite upon direct contact with flame.**
CORROSIVITY:	**7.25**
REACTIVITY:	**Did not react violently with water, strong base (10N Sodium Hydroxide), or strong acid (6N Hydrochloric acid).**

RCRA Hazardous Waste Criteria

Parameter	Hazardous Waste Criterion
IGNITABILITY:	Sample Ignition upon direct contact with flame indicates hazardous waste status.
CORROSIVITY:	pH less than or equal to 2.0 or pH greater than or equal to 12.5 indicates hazardous waste status.
REACTIVITY:	Violent reaction with water, strong base (10N Sodium Hydroxide), or strong acid (6N Hydrocholoric Acid) indicates hazardous waste status.

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

Comments: **4109 E. Main, Farmington, NM.**

Dennis L. Spencer
Analyst

Stacy W. Sandler
Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS

Client:	Halliburton Energy Services	Project #:	92132
Sample ID:	Wash Bay Soilds	Date Reported:	10-29-96
Laboratory Number:	A706	Date Sampled:	10-22-96
Chain of Custody:	4966	Date Received:	10-22-96
Sample Matrix:	Solid	Date Extracted:	10-22-96
Preservative:	Cool	Date Analyzed:	10-28-96
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.0004	0.2
1,1-Dichloroethene	ND	0.0002	0.7
2-Butanone (MEK)	ND	0.0003	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	ND	0.0002	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	103%
	Bromofluorobenzene	96%

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

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8040
PHENOLS

Client:	Halliburton Energy Services	Project #:	92132
Sample ID:	Wash Bay Solids	Date Reported:	10-29-96
Laboratory Number:	A706	Date Sampled:	10-22-96
Chain of Custody:	4966	Date Received:	10-22-96
Sample Matrix:	Solid	Date Extracted:	10-22-96
Preservative:	Cool	Date Analyzed:	10-28-96
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	99%
	2,4,6-Tribromophenol	102%

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. 198

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

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	Halliburton Energy Services	Project #:	92132
Sample ID:	Wash Bay Solids	Date Reported:	10-28-96
Laboratory Number:	A706	Date Sampled:	10-22-96
Chain of Custody:	4966	Date Received:	10-22-96
Sample Matrix:	Solid	Date Extracted:	10-22-96
Preservative:	Cool	Date Analyzed:	10-28-96
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	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: **4109 E. Main, Farmington, NM.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	Halliburton Energy Services	Project #:	92132
Sample ID:	Wash Bay Solids	Date Reported:	10-29-96
Laboratory Number:	A706	Date Sampled:	10-22-96
Chain of Custody:	4966	Date Received:	10-22-96
Sample Matrix:	Solid	Date Analyzed:	10-29-96
Preservative:	Cool	Date Extracted:	10-22-96
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
Arsenic	0.025	0.001	5.00
Barium	0.42	0.01	100
Cadmium	0.057	0.001	1.00
Chromium	0.001	0.001	5.00
Lead	0.009	0.001	5.00
Mercury	ND	0.001	0.200
Selenium	ND	0.001	1.00
Silver	ND	0.001	5.0

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

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

Comments: **4109 E. Main, Farmington, NM.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

QUALITY ASSURANCE / QUALITY CONTROL DOCUMENTATION

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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:	Laboratory Blank	Date Reported:	10-29-96
Laboratory Number:	10-28-TCV.BLANK	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	10-28-96
Condition:	N/A	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.0004	0.2
1,1-Dichloroethene	ND	0.0002	0.7
2-Butanone (MEK)	ND	0.0003	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	ND	0.0002	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	96%
	Bromofluorobenzene	96%

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 A689, A706 and A713.**

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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:	10-29-96
Laboratory Number:	10-22-TCV.MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	10-28-96
Condition:	N/A	Date Extracted:	10-22-96
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.0004	0.2
1,1-Dichloroethene	ND	0.0002	0.7
2-Butanone (MEK)	ND	0.0003	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	ND	0.0002	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	101%

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 A689, A706 and A713.**

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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 Duplicate	Date Reported:	10-29-96
Laboratory Number:	A706	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	10-28-96
Condition:	N/A	Date Extracted:	10-22-96

Parameter	Sample Result (mg/L)	Duplicate Sample Result (mg/L)	Detection Limits (mg/L)	Percent Difference
Vinyl Chloride	ND	ND	0.0004	0.0%
1,1-Dichloroethene	ND	ND	0.0002	0.0%
2-Butanone (MEK)	ND	ND	0.0003	0.0%
Chloroform	ND	ND	0.0001	0.0%
Carbon Tetrachloride	ND	ND	0.0001	0.0%
Benzene	ND	ND	0.0002	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 A689, A706 and A713.**

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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:	10-29-96
Laboratory Number:	A706	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	10-28-96
Condition:	N/A	Date Extracted:	10-22-96

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	0.020	0.0203	0.0004	102%	28-163
1,1-Dichloroethene	ND	0.020	0.0217	0.0002	108%	43-143
2-Butanone (MEK)	ND	0.020	0.0196	0.0003	97%	47-132
Chloroform	ND	0.020	0.0199	0.0001	99%	49-133
Carbon Tetrachloride	ND	0.020	0.0193	0.0001	97%	43-143
Benzene	ND	0.020	0.0207	0.0002	103%	39-150
1,2-Dichloroethane	ND	0.020	0.0185	0.0001	93%	51-147
Trichloroethene	ND	0.020	0.0189	0.0003	95%	35-146
Tetrachloroethene	ND	0.020	0.0195	0.0005	97%	26-162
Chlorobenzene	ND	0.020	0.0204	0.0003	102%	38-150
1,4-Dichlorobenzene	ND	0.020	0.0193	0.0002	96%	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 A689, A706 and A713.**

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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:	10-29-96
Laboratory Number:	10-28-TCA.BLANK	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	10-28-96
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	100 %
	2,4,6-tribromophenol	102 %

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. 198

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

Comments: **QA/QC for samples A689, A706 and A713.**

Analyst

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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:	10-29-96
Laboratory Number:	10-22-TCA.MB	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	Cool	Date Extracted:	10-22-96
Condition:	Cool & Intact	Date Analyzed:	10-28-96
		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	94%
	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. 198

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

Comments: **QA/QC for samples A689, A706 and A713.**

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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:	10-29-96
Laboratory Number:	A706	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	Cool	Date Extracted:	10-22-96
Condition:	Cool & Intact	Date Analyzed:	10-28-96
		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 A689, A706 and A713.**

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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:	10-28-96
Laboratory Number:	10-28-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:	10-28-96
		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 A689, A706 and A713.**

Analyst

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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:	10-28-96
Laboratory Number:	10-22-TBN.MB	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	Cool	Date Extracted:	10-22-96
Condition:	Cool and Intact	Date Analyzed:	10-28-96
		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 A689, A706 and A713.**

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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:	10-28-96
Laboratory Number:	A706	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Extracted:	10-22-96
Condition:	N/A	Date Analyzed:	10-28-96
		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 A689, A706 and A713.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Blanks	Date Reported:	10-29-96
Laboratory Number:	N/A	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	10-29-96
Condition:	N/A	Date Extracted:	N/A

Parameter	Instrument Blank (mg/L)	Method Blank (mg/L)	Det. Limit (mg/L)
Arsenic	ND	ND	0.001
Barium	ND	ND	0.01
Cadmium	ND	ND	0.001
Chromium	ND	ND	0.001
Lead	ND	ND	0.001
Mercury	ND	ND	0.001
Selenium	ND	ND	0.001
Silver	ND	ND	0.001

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

Comments: **QA/QC for samples A706, A711 and A713.**

Analyst

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ENVIROTECH LABS
PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	10-29-96
Laboratory Number:	A706	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	10-29-96
Condition:	N/A	Date Extracted:	10-22-96

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Percent Difference
Arsenic	**0.025**	**0.026**	**3.9%**
Barium	**0.42**	**0.41**	**2.4%**
Cadmium	**0.057**	**0.057**	**0.0%**
Chromium	**0.001**	**0.001**	**0.0%**
Lead	**0.009**	**0.009**	**0.0%**
Mercury	**ND**	**ND**	**0.0%**
Selenium	**ND**	**ND**	**0.0%**
Silver	**ND**	**ND**	**0.0%**

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Maximum Difference
	Trace Metals	**30 %**

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

Comments: **QA/QC for samples A706, A711 and A713.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Spike	Date Reported:	10-29-96
Laboratory Number:	A706	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	10-29-96
Condition:	N/A	Date Extracted:	10-22-96

Parameter	Spike Added (mg/L)	Sample Result (mg/L)	Spiked Sample Result (mg/L)	Percent Recovery
Arsenic	**0.100**	**0.025**	**0.125**	**100%**
Barium	**1.00**	**0.42**	**1.41**	**99%**
Cadmium	**0.050**	**0.057**	**0.106**	**99%**
Chromium	**0.050**	**0.001**	**0.051**	**100%**
Lead	**0.100**	**0.009**	**0.109**	**100%**
Mercury	**0.025**	**ND**	**0.024**	**96%**
Selenium	**0.100**	**ND**	**0.099**	**99%**
Silver	**0.050**	**ND**	**0.049**	**98%**

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Acceptance Range %
	TCLP Metals	**80 - 120 %**

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

Comments: **QA/QC for samples A706, A711 and A713.**

Analyst

Review

5796 U.S. Highway 64-3014 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

4966

CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location
Halliburton Energy Services	4109 E Main St, Farmington

Sampler: (Signature)	Chain of Custody Tape No.
[signature]	92132

ANALYSIS/PARAMETERS

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TCLP w/o Met						Remarks
Intake Bag Solids	10-22-96	9:50	A706	Solid	1	✓						

ished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	10-22-96	10:30	[signature]	10-22-96	10:30
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

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

san juan repro Form 578-81

District I - (505) 393-6161
P. O. Box 1980
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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

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: 96 003-14

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☒ Non-Exempt: ☐ Yes D.F. 1-13-97 pending receipt of CWS.	4. Generator EPFS.
Verbal Approval Received: Yes ☒ No ☐	5. Originating Site Coyote Gulch. Compressor Station
2. Management Facility Destination Envirotech Soil RemediationFac. Landfarm #2	6. Transporter Philip.
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State Colo → New Mexico
7. Location of Material (Street Address or ULSTR)	SE 1/4 Sec 17, T32N, R11W LaPlata, County Co.

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:

Triethylene Glycol contaminated soil generated from a spill at a dehydrator unit.

97

RECEIVED
FEB 12 1997
OIL CON. DIV.
DIST. 3

Estimated Volume 420 cy. cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Harlan M. Brown
Waste Management Facility Authorized Agent
TITLE: Landfarm Manager DATE: 2-3-97

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. (505)632-0615

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 2/12/97

APPROVED BY: Johnny Robinson TITLE: Field Rep II DATE: 2-13-97

EL PASO FIELD SERVICES COMPANY
CERTIFICATE OF WASTE STATUS
OILFIELD EXEMPT WASTE

Originating Location: Coyote Gulch Gas Plant

Source: Dehydrator ; triethylene glycol Contaminated Soil

Disposal Location: Envirotech Landfarm - San Juan Co., NM

"As a condition of acceptance for disposal, I hereby certify that this waste is an oilfield production exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. Additionally, to my knowledge, no non-exempt waste that is a "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has been added or mixed with the exempt waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, section 261.3(b)."

I, the undersigned as agent for the El Paso Field Services Company concur with the status of the waste from the subject site.

Name: David Bays

Title/Agency: Sr. Env. Scientist

Address: P. O. Box 4990

Farmington, NM 87499

Signature: David Bays

Date: January 20, 1997

EL PASO FIELD SERVICES

January 13, 1997

Envirotech
5796 US Highway 64
Farmington, NM 87401

Dear Sirs:

El Paso Field Services needs to dispose of approximately 100 cubic yards of soils contaminated with triethylene glycol. The spilled material is from a gas plant dehydrator, and is exempt under RCRA Subtitle C. The soil is stock piled at the Coyote Gulch Gas Plant located o the Southern Ute Reservation in La Plata County, Colorado. Attached is a RCRA exemption certificate from the Bureau of Indian Affairs allowing EPFS to move the soil off-site. I have also enclosed a Material Safety Data Sheet for the glycol.

Please call me at (505) 599-2256 when you have New Mexico Oil Conservation Department authorization to receive this material. We will then arrange to have Philip Environmental transport the soil to the Envirotech landfill. Please call me if you need any additional information.

Sincerely yours,

David Bays

David Bays
Sr. Environmental Scientist

cc: David Kelsey

S. D. Miller/R. D. Cosby/J. S. Sterrett/Coyote Gulch Regulatory file

El Paso Field Services Company P.O. Box 4990 Farmington, New Mexico 87499 Phone (505) 325-2841 Fax (505) 599-2119

SENT BY:EPNG : 1-13-97 :10:19AM :EL PASO NATURAL GAS → 5056321865:# 2/ 5

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 provided by El Paso concerning the oilfield waste material from the Coyote Gulch location on the Southern Ute Indian Reservation, LaPlata County, Colorado (see attached exhibit), 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 statute.

__XX__ The material is exempt from regulations because it is classified as non-hazardous OILFIELD waste by definition.

_____ The material is exempt from regulation by characteristic analyses.

_____ The material is exempt from regulation by product identification.

THEREFORE:
As a representative for the Bureau of Indian Affairs I have no objections to the material being removed to New Mexico.

NAME: Lena M. Atencio TITLE: Acting Superintendent

SIGNATURE: Lena M. Atencio DATE: January 8, 1997

AGENCY: BUREAU OF INDIAN AFFAIRS

ADDRESS: P.O. BOX 315, IGNACIO, CO 81137

PHONE: (970) 563-4514

1/8/97

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
1000 Rio Brazos Road
Aztec, 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: 92197

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☒ Non-Exempt: ☐ Verbal D.F. 1-24-97 8:30 a.m.	4. Generator Burlington Resources
Verbal Approval Received: Yes ☒ No ☐	5. Originating Site Val Verde Plant
2. Management Facility Destination Envirotech Soil RemediationFac Landfarm #2	6. Transporter Freemyer Co.
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State N.M.
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:

Continuation of charcoal filtration media for amines

RECEIVED
FEB - 7 1997
OIL CON. DIV.
DIST. 3

Estimated Volume 6-10 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: 1-24-97
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. Foust TITLE: Geologist DATE: 2/12/97

APPROVED BY: Johnny Robinson TITLE: Field Rep II DATE: 2-13-97

ENVIROTECH INC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

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

D.F.
Verbal
01-24-97
8:30 a.m.
Freemyer Hauling.

CERTIFICATE OF WASTE STATUS
OILFIELD EXEMPT WASTE

Originating Location: Val Verde Plant

Source: Charcoal Filtering

Disposal Location: Envirotech Soil Remediation Facility, (FSRF)
Hilltop, New Mexico

"As a condition of acceptance for disposal, I hereby certify that this waste is an oilfield production exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. Additionally, to my knowledge, no non-exempt waste that is a "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has been added or mixed with the exempt waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, section 261.3(b)."

I, the undersigned, as the agent for Burlington Resources concur with the status of the waste from the subject site.

Name Keith M. Boedecker
Title/Agency Sr. Staff Env. Rep.

Address P.O. Box 4289
Farmington, New Mexico 87499-4289

Signature Keith M. Boedecker

Date 1/23/97

Exempt Waste Manifest
Burlington Resources Oil & Gas
P.O. Box 4289, Farmington, NM 87499

Safety and Environmental

1. Waste Location: Lease/Well No. Val Verde Plant

2. Volume: _____ Cubic Yards _____ Barrels _____ Gallons

3. Description of Waste: Charcoal Filter Media

4. Method of Waste Generation: Charcoal is used to filter the MDEA at the plant. MDEA is used to remove CO2 from the gas stream.

5. Disposal Facility: Envirotech Inc.

6. Disposal Cost: $16 cubic yard

7. This waste material complies with the definition of exempt waste as listed in 40 CFR 261.4.

Approval for Disposal Keith M. Boedeker (signature) Date 1/23/97

BR Representative

Transportation Company: _____

Date(s) Transported: _____

BR Representative on Site: _____ (signature) Date _____

Disposal Facility
Complete and return to Burlington Safety and Environmental with invoice.

Date(s) Received: _____

Total Volume Received: _____

Waste Location: Cell/Grid No. _____

Received By: _____

Revised January 16, 1994
s:\2-envnmt\wastemgt\vv-mnfst.doc

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Hobbs, NM 88241-1980
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District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, 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: 92142-04

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: [X] Non-Exempt: [ ] D.F. verbal approval 11-26-96 13:45	4. Generator PESCO
Verbal Approval Received: Yes [X] No [ ]	5. Originating Site Main Yard
2. Management Facility Destination Envirotech Soil RemediationFac Landfarm #2	6. Transporter Envirotech
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	5680 U.S. Highway 64 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:

Solids generated from cleaning & REFURBISHING production STORAGE TANKS, separators, dehydrators ~~and other~~ production equipment

1-8-97
BOL 10133
29 drums
LFZ: US: Cell W-7

97

RECEIVED
FEB 12 1997
OIL CON. DIV.
DIST. 3

Estimated Volume 26 drums cy Known Volume (to be entered by the operator at the end of the haul) 29 drums cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 11-26-96.
Waste Management FacilityAuthorized Agent

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. (505)632-0615

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 2/12/97

APPROVED BY: TITLE: Field Rep II DATE: 2-13-97

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

CERTIFICATE OF WASTE STATUS
OILFIELD EXEMPT WASTE

Originating Location: PESCO Main yard, 5680 US Hwy. 64, Farmington, NM

Source: Solids generated from cleaning and refurbishing production storage tanks, separators, dehydrators and other production equipment

Disposal Location: Envirotech Soil Remediation Facility, (ESRF) Hilltop, NM

"As a condition of acceptance for disposal, I hereby certify that this waste is an oilfield production exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. Additionally, to my knowledge, no non-exempt waste that is a "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has been added or mixed with the exempt waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, section 261.3(b)."

I, the undersigned, as the agent for Process Equipment & Service Company, Inc. concur with the status of the waste from the subject site.

Name: Blake Wallace

Title/Agency: Service Manager

Address: 5680 US Hwy 64, Farmington, NM 87401

Signature: Blake Wallace

Date: 11/25/96

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
1000 Rio Brazos Road
Aztec, 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-
Originated

Submit Ori
Plus 1
to approp
District C

Env JN: 92101

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator BJ Services
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Mainland
2. Management Facility Destination Envirotech Soil RemediationFac. Landfarm #2	6. Transporter ENVIROTECH
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	3250 Southside Rio Rd. Farmington, 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:

Sludge from Wash bay, solids

TCLP ATTACHED

RECEIVED
JAN 16 1997
OIL CON. DIV.
DIST. 3

RECEIVED
JAN 22 1997
Environmental Bureau
Oil Conservation Division

Estimated Volume 20 cy Known Volume (to be entered by the operator at the end of the haul) 74 cy

SIGNATURE: Harlan M. Brown
Waste Management Facility Authorized Agent
TITLE: Landfarm Manager DATE: 1-16-97

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. (505)632-0615

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 1/16/97

APPROVED BY: [illegible] TITLE: Bureau Chief DATE: 1/22/97

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
1000 Rio Brazos Road
Aztec, 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: 92101

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator BJ Services
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Hainland
2. Management Facility Destination Envirotech Soil RemediationFac. Landfarm #2	6. Transporter ENVIROTECH
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	3250 Southside Rio Rd. Farmington, 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:

Sludge from Wash bay, solids
TCLP attached

RECEIVED
JAN 16 1997
OIL CON. DIV.
DIST. 3

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: 1-16-97
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. Foust TITLE: Geologist DATE: 1/16/97

APPROVED BY: _____ TITLE: _____ DATE: _____

Generator: BJ. Services 98101

CERTIFICATE OF WASTE STATUS
OILFIELD NON-EXEMPT WASTE MATERIAL

Originating Location: Main Yard, 3250 Southside River Rd, Farmington NM

Source: Waste Bar Solids

Disposal Location: Envirotech Soil Remediation Facility, (NMED)
Hilltop, New Mexico

"As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt oilfield production waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, to verify the nature as non-hazardous. I further certify that to my knowledge no "hazardous or listed waste" pursuant to the provisions of 40 CFR, part 261, Subparts C and D, has been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, section 261.3(b)."

I, the undersigned, as the agent for BJ Services concur with the status of the waste from the subject site.

Name [signature]
Title/Agency BJ Services
Address 3250 Southside River Road, Farmington, New Mexico, 87401
Signature [signature]
Date 1/16/97

ENVIROTECH INC.
PRACTICAL SOLUTIONS FOR A BETTER TOMORROW
5796 U.S. Highway 64-3014 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

92101
BJ Services
Wash Bay Solids

Maximum Contaminant Concentrations For Toxicity Characteristic Wastes

Waste Stream Constituent	Concentration (milligrams/liter, mg/l)	EPA HW No.	Waste Stream Constituent	Concentration (milligrams/liter, mg/l)	EPA HW No.
✓* Arsenic	5.0	D004	✓Hexachlorobenzene	0.13	D032
✓* Barium	100.0	D005	✓Hexachlorobutadiene	0.5	D033
✓ Benzene	0.5	D018	✓Hexachloroethane	3.0	D034
✓* Cadmium	1.0	D006	✓* Lead	5.0	D008
✓ Carbon Tetrachloride	0.5	D019	* Lindane	0.4	D013 Pesticide
Pesticide Chlordane	0.03	D020	✓* Mercury	0.2	D009
✓Chlorobenzene	100.0	D021	* Methoxychlor	10.0	D014 Pesticide
✓ Chloroform	6.0	D022	✓Methyl ethyl ketone	200.0	D035
✓ Chromium	5.0	D007	✓Nitrobenzene	2.0	D036
✓Cresol	200.0	D026	✓Pentachlorophenol	100.0	D037
✓m-Cresol	200.0	D024	✓Pyridine	5.0	D038
✓o-Cresol	200.0	D023	✓* Selenium	1.0	D010
✓p-Cresol	200.0	D025	✓* Silver	5.0	D011
Herbicide * 2,4-D	10.0	D016	* 2,4,5-TP (Silvex)	1.0	D017 Herbicide
✓1,4-Dichlorobenzene	7.5	D027	✓Tetrachloroethylene	0.7	D039
✓1,2-Dichloroethane	0.5	D028	* Toxaphene	0.5	D015 Pesticide
✓1,1-Dichloroethylene	0.7	D029	✓Trichloroethylene	0.5	D040
✓2,4-Dinitrotoluene	0.13	D030	✓2,4,5-Trichlorophenol	400.0	D041
Pesticide * Endrin	0.02	D012	✓2,4,6-Trichlorophenol	2.0	D042
Pesticide Heptachlor	0.008	D031	✓Vinyl chloride	0.2	D043

*=EP Toxic wastes; TCLP must now be utilized for characterizing these wastes

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

January 14, 1997

Mr. Les Baugh
B. J. Services, Inc.
3220 Bloomfield Highway
Farmington, New Mexico 87401

Project No.: 92101

Dear Mr. Baugh,

Enclosed are the analytical results for the samples collected from the "Yard" at the Southside River Road, Farmington, New Mexico location. One water sample and two composite soil samples were collected by Envirotech personnel and delivered to the Envirotech laboratory on 01/03/97. The water sample was analyzed for Volatile Organic Compounds per USEPA Method 8020 and Halogenated Volatile Organic Compounds per USEPA Method 8010. The soil samples were analyzed for Hazardous Waste Characterization components (TCLP Volatiles, Semi-volatiles, Trace Metals, Corrosivity, Reactivity, and Ignitability).

The samples were documented on Envirotech Chain of Custody No. 5051 and assigned Laboratory Nos. A892 (Separator Water Discharge), A893 (Wash Bay), and A894 (Floor Dry Sweep) for tracking purposes. The samples were analyzed 01/03/97 through 01/14/97 using USEPA or equivalent methods.

Results of the analysis indicate that Laboratory Nos. A893 and A894 are not characteristic hazardous wastes as defined by 40 CFR, Section 261, Subpart C for the noted compounds.

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. Sendler

Stacy W. Sendler
Environmental Scientist/Laboratory Manager

enc.

SWS/sws

92101lb3.wpd

5796 U.S. Highway 64-3014 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

SUSPECTED HAZARDOUS & SOLID WASTE ANALYSIS

Client:	B J Services	Project #:	92101
Sample ID:	Wash Bay	Date Reported:	01-07-97
Lab ID#:	A893	Date Sampled:	01-03-97
Sample Matrix:	Soil	Date Received:	01-03-97
Preservative:	Cool	Date Analyzed:	01-03-97
Condition:	Cool & Intact	Chain of Custody:	5051

Parameter	Result
IGNITABILITY:	**Did not ignite upon direct contact with flame.**
CORROSIVITY:	**8.40**
REACTIVITY:	**Did not react violently with water, strong base (10N Sodium Hydroxide), or strong acid (6N Hydrochloric acid).**

RCRA Hazardous Waste Criteria

Parameter	Hazardous Waste Criterion
IGNITABILITY:	Sample Ignition upon direct contact with flame indicates hazardous waste status.
CORROSIVITY:	pH less than or equal to 2.0 or pH greater than or equal to 12.5 indicates hazardous waste status.
REACTIVITY:	Violent reaction with water, strong base (10N Sodium Hydroxide), or strong acid (6N Hydrocholoric Acid) indicates hazardous waste status.
Reference:	40 CFR part 261 Subpart C sections 261.21 - 261.23, July 1, 1992.
Comments:	**Yard, 3250 Southside River Rd., Farmington, NM. Sludge Composite.**

Denise L. Ajenco
Analyst

Stacy W Sendler
Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS

Client:	B J Services	Project #:	92101
Sample ID:	Wash Bay	Date Reported:	01-09-97
Laboratory Number:	A893	Date Sampled:	01-03-97
Chain of Custody:	5051	Date Received:	01-03-97
Sample Matrix:	Soil	Date Extracted:	01-07-97
Preservative:	Cool	Date Analyzed:	01-08-97
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	101%
	Bromofluorobenzene	96%

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: **Yard, 3250 Southside River Rd., Farmington, NM.**
Sludge Composite.

Analyst

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ENVIROTECH LABS
PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8040
PHENOLS

Client:	B J Services	Project #:	92101
Sample ID:	Wash Bay	Date Reported:	01-14-97
Laboratory Number:	A893	Date Sampled:	01-03-97
Chain of Custody:	5051	Date Received:	01-03-97
Sample Matrix:	Soil	Date Extracted:	01-07-97
Preservative:	Cool	Date Analyzed:	01-13-97
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	99%
	2,4,6-Tribromophenol	98%

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. 198

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

Comments: **Yard, 3250 southside River Rd., Farmington, NM.**
Sludge Composite.

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	B J Services	Project #:	92101
Sample ID:	Wash Bay	Date Reported:	01-14-97
Laboratory Number:	A893	Date Sampled:	01-03-97
Chain of Custody:	5051	Date Received:	01-03-97
Sample Matrix:	Soil	Date Extracted:	01-07-97
Preservative:	Cool	Date Analyzed:	01-13-97
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: **Yard, 3250 Southside River Rd., Farmington, NM.**
Sludge Composite.

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

A METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS

Client:	B J Services	Project #:	92101
Sample ID:	Wash Bay	Date Reported:	01-14-97
Laboratory Number:	A893	Date Sampled:	01-03-97
Chain of Custody:	5051	Date Received:	01-03-97
Sample Matrix:	Soil	Date Analyzed:	01-14-97
Preservative:	Cool	Date Extracted:	01-07-97
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
Arsenic	ND	0.001	5.00
Barium	1.72	0.01	100
Cadmium	0.009	0.001	1.00
Chromium	ND	0.001	5.00
Lead	0.081	0.001	5.00
Mercury	ND	0.001	0.200
Selenium	ND	0.001	1.00
Silver	ND	0.001	5.0

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

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

Comments: **Yard, 3250 Southside River Rd., Farmington, NM. Sludge Composite.**

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QUALITY ASSURANCE / QUALITY CONTROL DOCUMENTATION

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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:	Laboratory Blank	Date Reported:	01-09-97
Laboratory Number:	01-08-TCV.BLANK	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	01-08-97
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	97%
	Bromofluorobenzene	96%

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 A893 - A894.**

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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:	01-09-97
Laboratory Number:	01-07-TCV.MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	01-08-97
Condition:	N/A	Date Extracted:	01-07-97
		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	96%

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 A893 - A894.**

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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 Duplicate	Date Reported:	01-09-97
Laboratory Number:	A893	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	01-08-97
Condition:	N/A	Date Extracted:	01-07-97

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 A893 - A894.**

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:	01-09-97
Laboratory Number:	A893	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	01-08-97
Condition:	N/A	Date Extracted:	01-07-97

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	0.020	0.0199	0.0001	99%	28-163
1,1-Dichloroethene	ND	0.020	0.0194	0.0001	97%	43-143
2-Butanone (MEK)	ND	0.020	0.0193	0.0001	96%	47-132
Chloroform	ND	0.020	0.0198	0.0001	98%	49-133
Carbon Tetrachloride	ND	0.020	0.0196	0.0001	97%	43-143
Benzene	ND	0.020	0.0197	0.0001	98%	39-150
1,2-Dichloroethane	ND	0.020	0.0193	0.0001	96%	51-147
Trichloroethene	ND	0.020	0.0197	0.0003	99%	35-146
Tetrachloroethene	ND	0.020	0.0195	0.0005	98%	26-162
Chlorobenzene	ND	0.020	0.0193	0.0003	97%	38-150
1,4-Dichlorobenzene	ND	0.020	0.0200	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 A893 - A894.**

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Analyst

Stacy W Sendler
Review

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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:	01-14-97
Laboratory Number:	01-13-TCA.BLANK	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	01-13-97
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	100 %
	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. 198

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

Comments: **QA/QC for samples A893 - A894.**

Analyst

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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:	01-14-97
Laboratory Number:	01-07-TCA.MB	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	Cool	Date Extracted:	01-07-97
Condition:	Cool & Intact	Date Analyzed:	01-13-97
		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	99%
	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. 198

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

Comments: **QA/QC for samples A893 - A894.**

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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:	01-14-97
Laboratory Number:	A893	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	Cool	Date Extracted:	01-07-97
Condition:	Cool & Intact	Date Analyzed:	01-13-97
		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 A893 - A894.**

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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:	01-13-97
Laboratory Number:	01-13-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:	01-13-97
		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 A893 - A894.**

Analyst

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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:	01-14-97
Laboratory Number:	01-07-TBN.MB	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	Cool	Date Extracted:	01-07-97
Condition:	Cool and Intact	Date Analyzed:	01-13-97
		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 A893 - A894.**

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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:	01-14-97
Laboratory Number:	A893	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Extracted:	01-07-97
Condition:	N/A	Date Analyzed:	01-13-97
		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 A893 - A894.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Blanks	Date Reported:	01-14-97
Laboratory Number:	N/A	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	01-14-97
Condition:	N/A	Date Extracted:	N/A

Parameter	Instrument Blank (mg/L)	Method Blank (mg/L)	Det. Limit (mg/L)
Arsenic	ND	ND	0.001
Barium	ND	ND	0.01
Cadmium	ND	ND	0.001
Chromium	ND	ND	0.001
Lead	ND	ND	0.001
Mercury	ND	ND	0.001
Selenium	ND	ND	0.001
Silver	ND	ND	0.001

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

Comments: **QA/QC for samples A893 - A894.**

Dennis L. Spencer
Analyst

Stacy W Sendler
Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	01-14-97
Laboratory Number:	A893	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	01-14-97
Condition:	N/A	Date Extracted:	01-07-97

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Percent Difference
Arsenic	**ND**	**ND**	**0.0%**
Barium	**1.72**	**1.70**	**1.2%**
Cadmium	**0.009**	**0.008**	**11.8%**
Chromium	**ND**	**ND**	**0.0%**
Lead	**0.081**	**0.081**	**0.0%**
Mercury	**ND**	**ND**	**0.0%**
Selenium	**ND**	**ND**	**0.0%**
Silver	**ND**	**ND**	**0.0%**

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Maximum Difference
	Trace Metals	**30 %**

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

Comments: **QA/QC for samples A893 - A894.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Spike	Date Reported:	01-14-97
Laboratory Number:	A893	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	01-14-97
Condition:	N/A	Date Extracted:	01-07-97

Parameter	Spike Added (mg/L)	Sample Result (mg/L)	Spiked Sample Result (mg/L)	Percent Recovery
Arsenic	**0.100**	**ND**	**0.099**	**99%**
Barium	**1.00**	**1.72**	**2.70**	**99%**
Cadmium	**0.050**	**0.009**	**0.058**	**98%**
Chromium	**0.050**	**ND**	**0.049**	**98%**
Lead	**0.100**	**0.081**	**0.181**	**100%**
Mercury	**0.025**	**ND**	**0.025**	**100%**
Selenium	**0.100**	**ND**	**0.099**	**99%**
Silver	**0.050**	**ND**	**0.050**	**100%**

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Acceptance Range %
	TCLP Metals	**80 - 120 %**

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

Comments: **QA/QC for samples A893 - A894.**

Analyst

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CHAIN OF CUSTODY RECORD

Client/Project Name: BJ SERVICES 92101

Project Location: YARD 3250 SOUTH SIDE RIVER RD. FARMINGTON, NM

Sampler: (Signature) [signature]

Chain of Custody Tape No.

ANALYSIS/PARAMETERS

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	8020	8010	TCLP W/O PEH	RCRA (RESIST., REACT., CORROSIVITY)			Remarks
SEPARATOR WATER DISCHARGE	1/13/97	1016	A892	WATER	2	✓	✓					
WASH BAY	1/13/97	1026	A893	SOIL	1			✓	✓			SLUDGE COMPOSITE
FLOOR DRY SWEEP	1/3/97	1438	A894	SOIL	1			✓	✓			SOURCE: OIL FILTERS + FLOOR DRY COMPOSITE

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	1/3/97	1455	[signature]	1/3/97	1455
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

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

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O. 1980
obbs, NM 88241-1980
District II - (505) 748-1283
11 S. First
rtesia, NM 88210
District III - (505) 334-6178
Rio Brazos Road
c, 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-1
Originated &

Submit Ori
Plus 1
to approp
District O

Env JN: 92101

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator BJ Services
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Main Yard
2. Management Facility Destination Envirotech Soil RemediationFac. Landfarm #2	6. Transporter Envirotech
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	3250 Southside River Rd. Farmington 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:

Floor Sweep (kitty litter)
TCLP attached
went to waste management

RECEIVED
JAN 16 1997
OIL CON. DIV.
DIST. 3

RECEIVED
JAN 22 1997
Environmental Bureau
Oil Conservation Division

Estimated Volume 4 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: 1-16-97
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. Foust TITLE: Geologist DATE: 1/16/97

APPROVED BY: [illegible] TITLE: Bureau Chief DATE: 1/22/97

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
1000 Rio Brazos Road
Aztec, 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: 92101

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator BJ Services
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Main Yard
2. Management Facility Destination Envirotech Soil RemediationFac. Landfarm #2	6. Transporter Envirotech
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	3250 Southside River Rd. Farmington, New Mexico

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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.

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All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

Floor Sweep (Kitty Litter)

TCLP Attached

RECEIVED
JAN 16 1997
OIL CON. DIV.
DIST. 3

Estimated Volume 4 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: 1-16-97
Waste Management FacilityAuthorized Agent

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. (505)632-0615

(This space for State Use)

APPROVED BY: Denny Fee TITLE: Geologist DATE: 1/16/97

APPROVED BY: _____ TITLE: _____ DATE: _____

92101
BJ Services
Floor Sweep

Maximum Contaminant Concentrations For Toxicity Characteristic Wastes

	Waste Stream Constituent	Concentration (milligrams/liter, mg/l)	EPA HW No.	Waste Stream Constituent	Concentration (milligrams/liter, mg/l)	EPA HW No.
	* Arsenic	5.0	D004	Hexachlorobenzene	0.13	D032
	* Barium	100.0	D005	Hexachlorobutadiene	0.5	D033
	Benzene	0.5	D018	Hexachloroethane	3.0	D034
	* Cadmium	1.0	D006	* Lead	5.0	D008
	Carbon Tetrachloride	0.5	D019	* Lindane	0.4	D013 Pesticide
Pesticide	Chlordane	0.03	D020	* Mercury	0.2	D009
	Chlorobenzene	100.0	D021	* Methoxychlor	10.0	D014 Pesticide
	Chloroform	6.0	D022	Methyl ethyl ketone	200.0	D035
	* Chromium	5.0	D007	Nitrobenzene	2.0	D036
	Cresol	200.0	D026	Pentachlorophenol	100.0	D037
	m-Cresol	200.0	D024	Pyridine	5.0	D038
	o-Cresol	200.0	D023	* Selenium	1.0	D010
	p-Cresol	200.0	D025	* Silver	5.0	D011
Herbicide	* 2,4-D	10.0	D016	* 2,4,5-TP (Silvex)	1.0	D017 Herbicide
	1,4-Dichlorobenzene	7.5	D027	Tetrachloroethylene	0.7	D039
	1,2-Dichloroethane	0.5	D028	* Toxaphene	0.5	D015 Pesticide
	1,1-Dichloroethylene	0.7	D029	Trichloroethylene	0.5	D040
	2,4-Dinitrotoluene	0.13	D030	2,4,5-Trichlorophenol	400.0	D041
Pesticide	* Endrin	0.02	D012	2,4,6-Trichlorophenol	2.0	D042
Pesticide	Heptachlor	0.008	D031	Vinyl chloride	0.2	D043

*-EP Toxic wastes; TCLP must now be utilized for characterizing these wastes

Generator: B.J. Services 92101

CERTIFICATE OF WASTE STATUS
OILFIELD NON-EXEMPT WASTE MATERIAL

Originating Location: Main Yard, 3250 Southside River Rd, Farmington, NM.

Source: Floor Sweep.

Disposal Location: **Envirotech Soil Remediation Facility, (NMED) Hilltop, New Mexico**

"As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt oilfield production waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, to verify the nature as non-hazardous. I further certify that to my knowledge no "hazardous or listed waste" pursuant to the provisions of 40 CFR, part 261, Subparts C and D, has been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, section 261.3(b)."

I, the undersigned, as the agent for BJ Services concur with the status of the waste from the subject site.

Name [signature]
Title/Agency BJ Services
Address 3250 Southside River Road Farmington, New Mex. 87401
Signature [signature]
Date 1/16/97

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

January 14, 1997

Mr. Les Baugh
B. J. Services, Inc.
3220 Bloomfield Highway
Farmington, New Mexico 87401

Project No.: 92101

Dear Mr. Baugh,

Enclosed are the analytical results for the samples collected from the "Yard" at the Southside River Road, Farmington, New Mexico location. One water sample and two composite soil samples were collected by Envirotech personnel and delivered to the Envirotech laboratory on 01/03/97. The water sample was analyzed for Volatile Organic Compounds per USEPA Method 8020 and Halogenated Volatile Organic Compounds per USEPA Method 8010. The soil samples were analyzed for Hazardous Waste Characterization components (TCLP Volatiles, Semi-volatiles, Trace Metals, Corrosivity, Reactivity, and Ignitability).

The samples were documented on Envirotech Chain of Custody No. 5051 and assigned Laboratory Nos. A892 (Separator Water Discharge), A893 (Wash Bay), and A894 (Floor Dry Sweep) for tracking purposes. The samples were analyzed 01/03/97 through 01/14/97 using USEPA or equivalent methods.

Results of the analysis indicate that Laboratory Nos. A893 and A894 are not characteristic hazardous wastes as defined by 40 CFR, Section 261, Subpart C for the noted compounds.

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. Sendler

Stacy W. Sendler
Environmental Scientist/Laboratory Manager

enc.

SWS/sws

92101lb3.wpd

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

SUSPECTED HAZARDOUS & SOLID WASTE ANALYSIS

Client:	B J Services	Project #:	92101
Sample ID:	Floor Dry Sweep	Date Reported:	01-07-97
Lab ID#:	A894	Date Sampled:	01-03-97
Sample Matrix:	Soil	Date Received:	01-03-97
Preservative:	Cool	Date Analyzed:	01-03-97
Condition:	Cool & Intact	Chain of Custody:	5051

Parameter	Result
IGNITABILITY:	**Did not ignite upon direct contact with flame.**
CORROSIVITY:	**7.18**
REACTIVITY:	**Did not react violently with water, strong base (10N Sodium Hydroxide), or strong acid (6N Hydrochloric acid).**

RCRA Hazardous Waste Criteria

Parameter	Hazardous Waste Criterion
IGNITABILITY:	Sample Ignition upon direct contact with flame indicates hazardous waste status.
CORROSIVITY:	pH less than or equal to 2.0 or pH greater than or equal to 12.5 indicates hazardous waste status.
REACTIVITY:	Violent reaction with water, strong base (10N Sodium Hydroxide), or strong acid (6N Hydrocholoric Acid) indicates hazardous waste status.
Reference:	40 CFR part 261 Subpart C sections 261.21 - 261.23, July 1, 1992.
Comments:	**Yard, 3250 Southside River Rd., Farmington, NM. Source: Oil Filters & Floor Dry Composite.**

Dean L. Ajenen
Analyst

Stacy W Sendler
Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS

Client:	B J Services	Project #:	92101
Sample ID:	Floor Dry Sweep	Date Reported:	01-09-97
Laboratory Number:	A894	Date Sampled:	01-03-97
Chain of Custody:	5051	Date Received:	01-03-97
Sample Matrix:	Soil	Date Extracted:	01-07-97
Preservative:	Cool	Date Analyzed:	01-08-97
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	99%
	Bromofluorobenzene	96%

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: **Yard, 3250 Southside River Rd., Farmington, NM.**
Source: Oil Filters & Floor Dry Composite.

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8040
PHENOLS

Client:	B J Services	Project #:	92101
Sample ID:	Floor Dry Sweep	Date Reported:	01-14-97
Laboratory Number:	A894	Date Sampled:	01-03-97
Chain of Custody:	5051	Date Received:	01-03-97
Sample Matrix:	Soil	Date Extracted:	01-07-97
Preservative:	Cool	Date Analyzed:	01-13-97
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	99%
	2,4,6-Tribromophenol	98%

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. 198

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

Comments: **Yard, 3250 southside River Rd., Farmington, NM.**
Source: Oil Filters & Floor Dry Composite.

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	B J Services	Project #:	92101
Sample ID:	Floor Dry Sweep	Date Reported:	01-14-97
Laboratory Number:	A894	Date Sampled:	01-03-97
Chain of Custody:	5051	Date Received:	01-03-97
Sample Matrix:	Soil	Date Extracted:	01-07-97
Preservative:	Cool	Date Analyzed:	01-13-97
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: **Yard, 3250 Southside River Rd., Farmington, NM.**
Source: Oil Filters & Floor Dry Composite.

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	B J Services	Project #:	92101
Sample ID:	Floor Dry Sweep	Date Reported:	01-14-97
Laboratory Number:	A894	Date Sampled:	01-03-97
Chain of Custody:	5051	Date Received:	01-03-97
Sample Matrix:	Soil	Date Analyzed:	01-14-97
Preservative:	Cool	Date Extracted:	01-07-97
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
Arsenic	**0.014**	**0.001**	**5.00**
Barium	**1.46**	**0.01**	**100**
Cadmium	**0.011**	**0.001**	**1.00**
Chromium	**0.002**	**0.001**	**5.00**
Lead	**0.033**	**0.001**	**5.00**
Mercury	**ND**	**0.001**	**0.200**
Selenium	**0.009**	**0.001**	**1.00**
Silver	**ND**	**0.001**	**5.0**

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

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

Comments: **Yard, 3250 Southside River Rd., Farmington, NM.**
Source: Oil Filters & Floor Dry Composite.

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

QUALITY ASSURANCE / QUALITY CONTROL

DOCUMENTATION

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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:	Laboratory Blank	Date Reported:	01-09-97
Laboratory Number:	01-08-TCV.BLANK	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	01-08-97
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	97%
	Bromofluorobenzene	96%

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 A893 - A894.**

Analyst

Review

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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:	Method Blank	Date Reported:	01-09-97
Laboratory Number:	01-07-TCV.MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	01-08-97
Condition:	N/A	Date Extracted:	01-07-97
		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	96%

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 A893 - A894.**

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 Duplicate	Date Reported:	01-09-97
Laboratory Number:	A893	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	01-08-97
Condition:	N/A	Date Extracted:	01-07-97

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 A893 - A894.**

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:	01-09-97
Laboratory Number:	A893	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	01-08-97
Condition:	N/A	Date Extracted:	01-07-97

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	0.020	0.0199	0.0001	99%	28-163
1,1-Dichloroethene	ND	0.020	0.0194	0.0001	97%	43-143
2-Butanone (MEK)	ND	0.020	0.0193	0.0001	96%	47-132
Chloroform	ND	0.020	0.0198	0.0001	98%	49-133
Carbon Tetrachloride	ND	0.020	0.0196	0.0001	97%	43-143
Benzene	ND	0.020	0.0197	0.0001	98%	39-150
1,2-Dichloroethane	ND	0.020	0.0193	0.0001	96%	51-147
Trichloroethene	ND	0.020	0.0197	0.0003	99%	35-146
Tetrachloroethene	ND	0.020	0.0195	0.0005	98%	26-162
Chlorobenzene	ND	0.020	0.0193	0.0003	97%	38-150
1,4-Dichlorobenzene	ND	0.020	0.0200	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 A893 - A894.**

Dean L. Spencer
Analyst

Stacy W Sendler
Review

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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:	01-14-97
Laboratory Number:	01-13-TCA.BLANK	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	01-13-97
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	100 %
	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. 198

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

Comments: **QA/QC for samples A893 - A894.**

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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:	01-14-97
Laboratory Number:	01-07-TCA.MB	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	Cool	Date Extracted:	01-07-97
Condition:	Cool & Intact	Date Analyzed:	01-13-97
		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	99%
	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. 198

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

Comments: **QA/QC for samples A893 - A894.**

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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:	01-14-97
Laboratory Number:	A893	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	Cool	Date Extracted:	01-07-97
Condition:	Cool & Intact	Date Analyzed:	01-13-97
		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 A893 - A894.**

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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:	01-13-97
Laboratory Number:	01-13-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:	01-13-97
		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 A893 - A894.**

Analyst

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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:	01-14-97
Laboratory Number:	01-07-TBN.MB	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	Cool	Date Extracted:	01-07-97
Condition:	Cool and Intact	Date Analyzed:	01-13-97
		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 A893 - A894.**

Analyst

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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:	01-14-97
Laboratory Number:	A893	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Extracted:	01-07-97
Condition:	N/A	Date Analyzed:	01-13-97
		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 A893 - A894.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Blanks	Date Reported:	01-14-97
Laboratory Number:	N/A	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	01-14-97
Condition:	N/A	Date Extracted:	N/A

Parameter	Instrument Blank (mg/L)	Method Blank (mg/L)	Det. Limit (mg/L)
Arsenic	ND	ND	0.001
Barium	ND	ND	0.01
Cadmium	ND	ND	0.001
Chromium	ND	ND	0.001
Lead	ND	ND	0.001
Mercury	ND	ND	0.001
Selenium	ND	ND	0.001
Silver	ND	ND	0.001

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

Comments: **QA/QC for samples A893 - A894.**

Dean L. Spencer
Analyst

Stacy W Sendler
Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	01-14-97
Laboratory Number:	A893	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	01-14-97
Condition:	N/A	Date Extracted:	01-07-97

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Percent Difference
Arsenic	ND	ND	0.0%
Barium	1.72	1.70	1.2%
Cadmium	0.009	0.008	11.8%
Chromium	ND	ND	0.0%
Lead	0.081	0.081	0.0%
Mercury	ND	ND	0.0%
Selenium	ND	ND	0.0%
Silver	ND	ND	0.0%

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Maximum Difference
	Trace Metals	**30 %**

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

Comments: **QA/QC for samples A893 - A894.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Spike	Date Reported:	01-14-97
Laboratory Number:	A893	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	01-14-97
Condition:	N/A	Date Extracted:	01-07-97

Parameter	Spike Added (mg/L)	Sample Result (mg/L)	Spiked Sample Result (mg/L)	Percent Recovery
Arsenic	**0.100**	**ND**	**0.099**	**99%**
Barium	**1.00**	**1.72**	**2.70**	**99%**
Cadmium	**0.050**	**0.009**	**0.058**	**98%**
Chromium	**0.050**	**ND**	**0.049**	**98%**
Lead	**0.100**	**0.081**	**0.181**	**100%**
Mercury	**0.025**	**ND**	**0.025**	**100%**
Selenium	**0.100**	**ND**	**0.099**	**99%**
Silver	**0.050**	**ND**	**0.050**	**100%**

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Acceptance Range %
	TCLP Metals	**80 - 120 %**

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

Comments: **QA/QC for samples A893 - A894.**

Analyst

Review

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CHAIN OF CUSTODY RECORD

Client/Project Name: BJ SERVICES 92101

Project Location: YARD 3250 SOUTH SIDE RIVER RD. FARMINGTON, NM

Sampler: (Signature) [signature]

Chain of Custody Tape No.

ANALYSIS/PARAMETERS

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	8020	8010	TCLP W/O PEH	RCRA (RESIST., REACT., CORROSIVITY)			Remarks
SEPARATOR WATER DISCHARGE	1/13/97	1016	A892	WATER	2	✓	✓					
WASH BAY	1/13/97	1026	A893	SOIL	1			✓	✓			SLUDGE COMPOSITE
FLOOR DRY SWEEP	1/3/97	1438	A894	SOIL	1			✓	✓			SOURCE: OIL FILTERS + FLOOR DRY COMPOSITE

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	1/3/97	1455	[signature]	1/3/97	1455
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

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

obbs, NM 88241-1980
istrict II - (505) 748-1283
1 S. First
rtesia, NM 88210
istrict III - (505) 334-6178
1 Rio Brazos Road
c, NM 87410
istrict IV - (505) 827-7131

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

Originated i

Submit Or
Plus 1
to approp
District (

Env JN: 92132

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Halliburton Energy Services
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Wash Bay Sump
2. Management Facility Destination Envirotech Soil RemediationFac Landfarm #2	6. Transporter ENVIROTECH
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	4109 E. MAIN. FARMINGTON, N.M.

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:

Contamination of Wash bay Solids
TCLP Attached & Reaffirmation statement

RECEIVED
JAN - 9 1997
OIL CON. DIV.
DIST. 3

RECEIVED
JAN - 8 1997
Environmental Bureau
Oil Conservation Division

Estimated Volume 20 cy Known Volume (to be entered by the operator at the end of the haul) 31 cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 1-6-97
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. Foust TITLE: Geologist DATE: 1/6/97

APPROVED BY: Patricia W. Gallegos TITLE: Petroleum ENGINEER DATE: 1-9-97

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
Aztec, 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: ☐ Non-Exempt: ☒	4. Generator Halliburton Energy Services
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Wash Bay Sump
2. Management Facility Destination Envirotech Soil RemediationFac. Landfarm #2	6. Transporter ENVIROTECH
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	4109 E. MAIN. FARMINGTON, N.M.

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
TCLP Attached & REAFFIRMATION statement

RECEIVED
JAN - 6 1997
OIL CON. DIV.
DIST. 3

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: 1-6-97
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. Foust TITLE: Geologist DATE: 1/6/97

APPROVED BY: _____ TITLE: _____ DATE: _____

ENVIROTECH INC.

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CERTIFICATE OF WASTE STATUS
OILFIELD NON-EXEMPT WASTE MATERIAL

Originating Location: Halliburton Energy Services 4109 E Main, Farmington

Source: WASH BAY SOLIDS.

Disposal Location: Envirotech Soil Remediation Facility, (NMED)
Hillton, New Mexico

"As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt oilfield production waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, to verify the nature as non-hazardous. I further certify that to my knowledge no "hazardous or listed waste" pursuant to the provisions of 40 CFR, part 261, Subparts C and D, has been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, section 261.3(b)."

I, the undersigned, as the agent for HALLIBURTON ENERGY SERVICES concur with the status of the waste from the subject site.

Name RJ GREENAKER
Title/Agency SERVICE EQUIP. OPERATOR
HALLIBURTON ENERGY SERVICES
Address 4109 E. MAIN ST
FARMINGTON, NM 87402

Signature R.J. Greenaker

Date January 6, 1997

ENVIROTECH INC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

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

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 Characterization Leaching Procedures (TCLP) analysis was performed. I further certify that said material is from operations in the immediate Four Corners area.

Signed RJ Greenaker

Date of TCLP Oct 1996

Name RJ GREENAKER

Title/Agency SERVICE EQUIP. OP.

Address 4109 E. MAIN ST.
FARMINGTON, NM

Signature RJ Greenaker

Date 1-6-97

N - 2152

Halliburton Energy Services
4109 E Main
Wash Tsy Solids

Maximum Contaminant Concentrations For Toxicity Characteristic Wastes

Waste Stream Constituent	Concentration (milligrams/liter mg/l)	EPA HW No.	Waste Stream Constituent	Concentration (milligrams/liter mg/l)	EPA HW No.
* Arsenic	5.0	D004	Hexachlorobenzene	0.13	D032
* Barium	100.0	D005	Hexachlorobutadiene	0.5	D033
Benzene	0.5	D018	Hexachloroethane	3.0	D034
* Cadmium	1.0	D006	* Lead	5.0	D008
Carbon Tetrachloride	0.5	D019	* Lindane	0.4	D013 Pesticide
Pesticide Chlordane	0.03	D020	* Mercury	0.2	D009
Chlorobenzene	100.0	D021	* Methoxychlor	10.0	D014 Pesticide
Chloroform	6.0	D022	Methyl ethyl ketone	200.0	D035
* Chromium	5.0	D007	Nitrobenzene	2.0	D036
Cresol	200.0	D026	Pentachlorophenol	100.0	D037
m-Cresol	200.0	D024	Pyridine	5.0	D038
o-Cresol	200.0	D023	* Selenium	1.0	D010
p-Cresol	200.0	D025	* Silver	5.0	D011
Herbicide * 2,4-D	10.0	D016	* 2,4,5-TP (Silvex)	1.0	D017 Herbicide
1,4-Dichlorobenzene	7.5	D027	Tetrachloroethylene	0.7	D039
1,2-Dichloroethane	0.5	D028	* Toxaphene	0.5	D015 Pesticide
1,1-Dichloroethylene	0.7	D029	Trichloroethylene	0.5	D040
2,4-Dinitrotoluene	0.13	D030	2,4,5-Trichlorophenol	400.0	D041
Pesticide * Endrin	0.02	D012	2,4,6-Trichlorophenol	2.0	D042
Pesticide Heptachlor	0.008	D031	Vinyl chloride	0.2	D043

*=EP Toxic wastes; TCLP must now be utilized for characterizing these wastes

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

SUSPECTED HAZARDOUS & SOLID WASTE ANALYSIS

Client:	Halliburton Energy Services	Project #:	92132
Sample ID:	Wash Bay Solids	Date Reported:	10-22-96
Lab ID#:	A706	Date Sampled:	10-22-96
Sample Matrix:	Solid	Date Received:	10-22-96
Preservative:	Cool	Date Analyzed:	10-22-96
Condition:	Cool & Intact	Chain of Custody:	4966

Parameter	Result
IGNITABILITY:	**Did not ignite upon direct contact with flame.**
CORROSIVITY:	**7.25**
REACTIVITY:	**Did not react violently with water, strong base (10N Sodium Hydroxide), or strong acid (6N Hydrochloric acid).**

RCRA Hazardous Waste Criteria

Parameter	Hazardous Waste Criterion
IGNITABILITY:	Sample Ignition upon direct contact with flame indicates hazardous waste status.
CORROSIVITY:	pH less than or equal to 2.0 or pH greater than or equal to 12.5 indicates hazardous waste status.
REACTIVITY:	Violent reaction with water, strong base (10N Sodium Hydroxide), or strong acid (6N Hydrocholoric Acid) indicates hazardous waste status.

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

Comments: **4109 E. Main, Farmington, NM.**

Dennis L. Spencer
Analyst

Stacy W. Sandler
Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS

Client:	Halliburton Energy Services	Project #:	92132
Sample ID:	Wash Bay Soilds	Date Reported:	10-29-96
Laboratory Number:	A706	Date Sampled:	10-22-96
Chain of Custody:	4966	Date Received:	10-22-96
Sample Matrix:	Solid	Date Extracted:	10-22-96
Preservative:	Cool	Date Analyzed:	10-28-96
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.0004	0.2
1,1-Dichloroethene	ND	0.0002	0.7
2-Butanone (MEK)	ND	0.0003	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	ND	0.0002	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	103%
	Bromofluorobenzene	96%

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.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8040
PHENOLS

Client:	Halliburton Energy Services	Project #:	92132
Sample ID:	Wash Bay Solids	Date Reported:	10-29-96
Laboratory Number:	A706	Date Sampled:	10-22-96
Chain of Custody:	4966	Date Received:	10-22-96
Sample Matrix:	Solid	Date Extracted:	10-22-96
Preservative:	Cool	Date Analyzed:	10-28-96
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	99%
	2,4,6-Tribromophenol	102%

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. 198

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

Comments: **4109 E. Main, Farmington, NM.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	Halliburton Energy Services	Project #:	92132
Sample ID:	Wash Bay Solids	Date Reported:	10-28-96
Laboratory Number:	A706	Date Sampled:	10-22-96
Chain of Custody:	4966	Date Received:	10-22-96
Sample Matrix:	Solid	Date Extracted:	10-22-96
Preservative:	Cool	Date Analyzed:	10-28-96
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	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: **4109 E. Main, Farmington, NM.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	Halliburton Energy Services	Project #:	92132
Sample ID:	Wash Bay Solids	Date Reported:	10-29-96
Laboratory Number:	A706	Date Sampled:	10-22-96
Chain of Custody:	4966	Date Received:	10-22-96
Sample Matrix:	Solid	Date Analyzed:	10-29-96
Preservative:	Cool	Date Extracted:	10-22-96
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
Arsenic	**0.025**	**0.001**	**5.00**
Barium	**0.42**	**0.01**	**100**
Cadmium	**0.057**	**0.001**	**1.00**
Chromium	**0.001**	**0.001**	**5.00**
Lead	**0.009**	**0.001**	**5.00**
Mercury	**ND**	**0.001**	**0.200**
Selenium	**ND**	**0.001**	**1.00**
Silver	**ND**	**0.001**	**5.0**

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

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

Comments: **4109 E. Main, Farmington, NM.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

QUALITY ASSURANCE / QUALITY CONTROL

DOCUMENTATION

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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:	Laboratory Blank	Date Reported:	10-29-96
Laboratory Number:	10-28-TCV.BLANK	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	10-28-96
Condition:	N/A	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.0004	0.2
1,1-Dichloroethene	ND	0.0002	0.7
2-Butanone (MEK)	ND	0.0003	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	ND	0.0002	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	96%
	Bromofluorobenzene	96%

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 A689, A706 and A713.**

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:	Method Blank	Date Reported:	10-29-96
Laboratory Number:	10-22-TCV.MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	10-28-96
Condition:	N/A	Date Extracted:	10-22-96
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.0004	0.2
1,1-Dichloroethene	ND	0.0002	0.7
2-Butanone (MEK)	ND	0.0003	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	ND	0.0002	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	101%

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 A689, A706 and A713.**

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:	10-29-96
Laboratory Number:	A706	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	10-28-96
Condition:	N/A	Date Extracted:	10-22-96

Parameter	Sample Result (mg/L)	Duplicate Sample Result (mg/L)	Detection Limits (mg/L)	Percent Difference
Vinyl Chloride	ND	ND	0.0004	0.0%
1,1-Dichloroethene	ND	ND	0.0002	0.0%
2-Butanone (MEK)	ND	ND	0.0003	0.0%
Chloroform	ND	ND	0.0001	0.0%
Carbon Tetrachloride	ND	ND	0.0001	0.0%
Benzene	ND	ND	0.0002	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 A689, A706 and A713.**

Dawn L. Ojeman
Analyst

Stacy W Sendler
Review

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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:	10-29-96
Laboratory Number:	A706	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	10-28-96
Condition:	N/A	Date Extracted:	10-22-96

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	0.020	0.0203	0.0004	102%	28-163
1,1-Dichloroethene	ND	0.020	0.0217	0.0002	108%	43-143
2-Butanone (MEK)	ND	0.020	0.0196	0.0003	97%	47-132
Chloroform	ND	0.020	0.0199	0.0001	99%	49-133
Carbon Tetrachloride	ND	0.020	0.0193	0.0001	97%	43-143
Benzene	ND	0.020	0.0207	0.0002	103%	39-150
1,2-Dichloroethane	ND	0.020	0.0185	0.0001	93%	51-147
Trichloroethene	ND	0.020	0.0189	0.0003	95%	35-146
Tetrachloroethene	ND	0.020	0.0195	0.0005	97%	26-162
Chlorobenzene	ND	0.020	0.0204	0.0003	102%	38-150
1,4-Dichlorobenzene	ND	0.020	0.0193	0.0002	96%	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 A689, A706 and A713.**

Analyst

Review

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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:	10-29-96
Laboratory Number:	10-28-TCA.BLANK	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	10-28-96
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	100 %
	2,4,6-tribromophenol	102 %

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. 198

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

Comments: **QA/QC for samples A689, A706 and A713.**

Analyst

Review

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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:	10-29-96
Laboratory Number:	10-22-TCA.MB	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	Cool	Date Extracted:	10-22-96
Condition:	Cool & Intact	Date Analyzed:	10-28-96
		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	94%
	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. 198

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

Comments: **QA/QC for samples A689, A706 and A713.**

Dean L. Spencer
Analyst

Stacy W. Sendler
Review

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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:	10-29-96
Laboratory Number:	A706	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	Cool	Date Extracted:	10-22-96
Condition:	Cool & Intact	Date Analyzed:	10-28-96
		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 A689, A706 and A713.**

Analyst

Review

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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:	10-28-96
Laboratory Number:	10-28-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:	10-28-96
		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 A689, A706 and A713.**

Analyst

Review

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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:	10-28-96
Laboratory Number:	10-22-TBN.MB	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	Cool	Date Extracted:	10-22-96
Condition:	Cool and Intact	Date Analyzed:	10-28-96
		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 A689, A706 and A713.**

Analyst

Review

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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:	10-28-96
Laboratory Number:	A706	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Extracted:	10-22-96
Condition:	N/A	Date Analyzed:	10-28-96
		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 A689, A706 and A713.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Blanks	Date Reported:	10-29-96
Laboratory Number:	N/A	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	10-29-96
Condition:	N/A	Date Extracted:	N/A

Parameter	Instrument Blank (mg/L)	Method Blank (mg/L)	Det. Limit (mg/L)
Arsenic	**ND**	**ND**	**0.001**
Barium	**ND**	**ND**	**0.01**
Cadmium	**ND**	**ND**	**0.001**
Chromium	**ND**	**ND**	**0.001**
Lead	**ND**	**ND**	**0.001**
Mercury	**ND**	**ND**	**0.001**
Selenium	**ND**	**ND**	**0.001**
Silver	**ND**	**ND**	**0.001**

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

Comments: **QA/QC for samples A706, A711 and A713.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	10-29-96
Laboratory Number:	A706	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	10-29-96
Condition:	N/A	Date Extracted:	10-22-96

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Percent Difference
Arsenic	**0.025**	**0.026**	**3.9%**
Barium	**0.42**	**0.41**	**2.4%**
Cadmium	**0.057**	**0.057**	**0.0%**
Chromium	**0.001**	**0.001**	**0.0%**
Lead	**0.009**	**0.009**	**0.0%**
Mercury	**ND**	**ND**	**0.0%**
Selenium	**ND**	**ND**	**0.0%**
Silver	**ND**	**ND**	**0.0%**

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Maximum Difference
	Trace Metals	**30 %**

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

Comments: **QA/QC for samples A706, A711 and A713.**

Analyst

Review

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ENVIROTECH LABS
PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Spike	Date Reported:	10-29-96
Laboratory Number:	A706	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	10-29-96
Condition:	N/A	Date Extracted:	10-22-96

Parameter	Spike Added (mg/L)	Sample Result (mg/L)	Spiked Sample Result (mg/L)	Percent Recovery
Arsenic	**0.100**	**0.025**	**0.125**	**100%**
Barium	**1.00**	**0.42**	**1.41**	**99%**
Cadmium	**0.050**	**0.057**	**0.106**	**99%**
Chromium	**0.050**	**0.001**	**0.051**	**100%**
Lead	**0.100**	**0.009**	**0.109**	**100%**
Mercury	**0.025**	**ND**	**0.024**	**96%**
Selenium	**0.100**	**ND**	**0.099**	**99%**
Silver	**0.050**	**ND**	**0.049**	**98%**

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Acceptance Range %
	TCLP Metals	**80 - 120 %**

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

Comments: **QA/QC for samples A706, A711 and A713.**

Dean L. Spencer
Analyst

Stacy W Sendler
Review

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CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location	ANALYSIS/PARAMETERS
Halliburton Energy Services	4109 E Main St, Farmington	
Sampler: (Signature)	Chain of Custody Tape No.	
[signature]	92132	

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TCLP w/o ZHE						Remarks
Waste Bag Solids	10.22.96	9:50	A706	Solid	1	✓						

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	10.22.96	10:30	[signature]	10-22-96	10:30
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

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

san juan repro Form 578-81

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

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

Form C-
Originated

Submit O
Plus 1
to appr
District

Env JN: 96033-

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator El Paso Natural Gas
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site White Rock Compressor Station
2. Management Facility Destination Envirotech Soil Remediation Fac. Landfarm #2	6. Transporter Envirotech
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	NE 4 Sec 15 T23N R14W, SJC, 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:

Pigging Waste from Transmission line

TCLP Attached.

RECEIVED
JAN - 9 1997
OIL CON. DIV.
DIST. 3

RECEIVED
JAN - 8 1997
Environmental Bureau
Oil Conservation Division

Estimated Volume 1500 cy Known Volume (to be entered by the operator at the end of the haul) 1072 cy

SIGNATURE: Harlan M. Brown
Waste Management Facility Authorized Agent
TITLE: Landfarm Manager DATE: 1-6-97

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. (505)632-0615

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 1/6/97

APPROVED BY: Patricia A. Sanchez TITLE: Pet Engineer DATE: 1-9-97

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
Aztec, 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: 96033-

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator El Paso Natural Gas
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site White Rock Compressor Station
2. Management Facility Destination Envirotech Soil RemediationFac Landfarm #2	6. Transporter Envirotech
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	NE4 SEC15 T23N R14W, SJC, N.M.

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 Waste from Transmission line

TCLP Attached

RECEIVED
JAN - 6 1997
OIL CON. DIV.
DIST. 3

Estimated Volume 1500 cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 1-6-97
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. Foust TITLE: Geologist DATE: 1/6/97

APPROVED BY: _____ TITLE: _____ DATE: _____

Generator: ElPaso Natural Gas Company

CERTIFICATE OF WASTE STATUS
OILFIELD NON-EXEMPT WASTE MATERIAL

Originating Location: El Paso Natural Gas Company
White Rock Compressor Station (36 miles South of Farmington)

Source: Non-exempt
Hydrocarbon stained soil - Pigging waste from Transmission line

Disposal Location: **Envirotech Soil Remediation Facility, (NMED)**
Hilltop, New Mexico

"As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt oilfield production waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, to verify the nature as non-hazardous. I further certify that to my knowledge no "hazardous or listed waste" pursuant to the provisions of 40 CFR, part 261, Subparts C and D, has been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, section 261.3(b)."

I, the undersigned, as the agent for El Paso Natural Gas Company concur with the status of the waste from the subject site.

Name Richard Duarte
Title/Agency Sr. EnvironmentalEngr.
El Paso Natural Gas Company
Address 3801 Atrisco Blvd.
Albquerque, NM 87120
Signature Richard Duarte
Date 1/8/97

ENVIROTECH INC.
PRACTICAL SOLUTIONS FOR A BETTER TOMORROW
5796 U.S. Highway 64-3014 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

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 Drywater - Window Rock (520)-871-5938
- Jerry DeGroat - Crownpoint

American Environmental Network (Arizona), Inc.

AEN I.D. 612663

December 27, 1996

El Paso Natural Gas Company
8645 Railroad Drive
El Paso, TX 79904

Project Name/Number: Whiterock

Attention: Darrell Campbell

On 12/11/96, American Environmental Network (Arizona), Inc., received a request to analyze non-aqueous sample(s). The sample(s) were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

Reactivity analysis was performed by Pace Analytical Services, Inc., 900 Gemini Avenue, Houston, TX 77058 (See Attachment 1).

If you have any questions or comments, please do not hesitate to contact us at (602) 496-4400.

Linda Eshelman
Project Manager

LE/jmb

Enclosure

ADHS License No. AZ0061
Sherman McCutcheon, General Manager

9830 S. 51st Street, Suite B-113 • Phoenix, AZ 85044 • (602) 496-4400 • Fax (602) 496-4101

American Environmental Network (Arizona), Inc.

CLIENT : EL PASO NATURAL GAS
PROJECT # : (NONE)
PROJECT NAME : WHITEROCK
ATI I.D. : 612663

DATE RECEIVED : 12/11/96
REPORT DATE : 12/27/96

ATI #	CLIENT DESCRIPTION	MATRIX	DATE COLLECTED
01	F960174	NON-AQUEOUS	12/10/96

----- TOTALS -----

MATRIX	# SAMPLES
NON-AQUEOUS	1

ATI STANDARD DISPOSAL PRACTICE

The samples from this project will be disposed of in thirty (30) days from the date of this report. If an extended storage period is required, please contact our sample control department before the scheduled disposal date.

American Environmental Network (Arizona), Inc.

GENERAL CHEMISTRY RESULTS

ATI I.D. : 612663

CLIENT : EL PASO NATURAL GAS
PROJECT # : (NONE)
PROJECT NAME : WHITEROCK

DATE RECEIVED : 12/11/96
REPORT DATE : 12/27/96

PARAMETER	UNITS	01
IGNITABILITY (ATI P10.618)		NEG
PH (EPA 9040/9045)	UNITS	7.0

American Environmental Network (Arizona), Inc.

GENERAL CHEMISTRY - QUALITY CONTROL

CLIENT : EL PASO NATURAL GAS
PROJECT # : (NONE)
PROJECT NAME : WHITEROCK ATI I.D. : 612663

PARAMETER	UNITS	ATI I.D.	SAMPLE RESULT	DUP. RESULT	RPD	SPIKED SAMPLE	SPIKE CONC	% REC
IGNITABILITY		61266301	NEG	NEG	NA	NA	NA	NA
PH	UNITS	61255501	11.7	11.8	0.8	NA	NA	NA

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative Percent Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

American Environmental Network (Arizona), Inc.

METALS RESULTS

ATI I.D. : 612663

CLIENT : EL PASO NATURAL GAS
PROJECT # : (NONE)
PROJECT NAME : WHITEROCK

DATE RECEIVED : 12/11/96
REPORT DATE : 12/27/96

PARAMETER	UNITS	01
SILVER (TCLP 1311/6010)	MG/L	<0.05
ARSENIC (TCLP 1311/6010)	MG/L	<0.1
BARIUM (TCLP 1311/6010)	MG/L	<0.50
CADMIUM (TCLP 1311/6010)	MG/L	<0.05
CHROMIUM (TCLP 1311/6010)	MG/L	<0.10
MERCURY (TCLP 1311/7470)	MG/L	<0.002
LEAD (TCLP 1311/6010)	MG/L	<0.1
SELENIUM (TCLP 1311/6010)	MG/L	<0.1

American Environmental Network (Arizona), Inc.

METALS - QUALITY CONTROL

CLIENT : EL PASO NATURAL GAS
PROJECT # : (NONE)
PROJECT NAME : WHITEROCK ATI I.D. : 612663

PARAMETER	UNITS	ATI I.D.	SAMPLE RESULT	DUP. RESULT	RPD	SPIKED SAMPLE	SPIKE CONC	% REC
SILVER	MG/L	61249923	<0.05	<0.05	NA	0.93	1.00	93
ARSENIC	MG/L	61249923	<0.1	<0.1	NA	5.0	5.0	100
BARIUM	MG/L	61249923	1.45	1.45	0	6.25	5.00	96
CADMIUM	MG/L	61249923	<0.05	<0.05	NA	0.95	1.00	95
CHROMIUM	MG/L	61249923	0.10	0.10	0	4.92	5.00	96
MERCURY	MG/L	61273812	<0.002	<0.002	NA	0.025	0.025	100
LEAD	MG/L	61263301	<0.1	<0.1	NA	5.0	5.0	100
SELENIUM	MG/L	61249923	<0.1	<0.1	NA	0.9	1.0	90

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative Percent Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

American Environmental Network (Arizona), Inc.

GCMS - RESULTS

ATI I.D. : 61266301

TEST : EPA METHOD 8240 (TCLP 1311)

CLIENT	: EL PASO NATURAL GAS	DATE SAMPLED	: 12/10/96
PROJECT #	: (NONE)	DATE RECEIVED	: 12/11/96
PROJECT NAME	: WHITEROCK	DATE EXTRACTED	: 12/11/96
CLIENT I.D.	: F960174	DATE ANALYZED	: 12/12/96
SAMPLE MATRIX	: NON-AQUEOUS	UNITS	: UG/L
		DILUTION FACTOR	: 1

COMPOUNDS	RESULTS
BENZENE	<10
CARBON TETRACHLORIDE	<10
CHLOROBENZENE	<10
CHLOROFORM	<10
1,2-DICHLOROETHANE	<10
1,1-DICHLOROETHENE	<10
METHYL ETHYL KETONE	<100
TETRACHLOROETHENE	<10
TRICHLOROETHENE	<10
VINYL CHLORIDE	<10

SURROGATE PERCENT RECOVERIES

DIBROMOFLUOROMETHANE (%)	108
BROMOFLUOROBENZENE (%)	98
TOLUENE-D8 (%)	101

American Environmental Network (Arizona), Inc.

GCMS - RESULTS

REAGENT BLANK

TEST : EPA METHOD 8240 (TCLP 1311)

		ATI I.D.	: 612663
CLIENT	: EL PASO NATURAL GAS	DATE EXTRACTED	: 12/11/96
PROJECT #	: (NONE)	DATE ANALYZED	: 12/12/96
PROJECT NAME	: WHITEROCK	UNITS	: UG/L
CLIENT I.D.	: REAGENT BLANK	DILUTION FACTOR	: N/A

COMPOUNDS	RESULTS
BENZENE	<10
CARBON TETRACHLORIDE	<10
CHLOROBENZENE	<10
CHLOROFORM	<10
1,2-DICHLOROETHANE	<10
1,1-DICHLOROETHENE	<10
METHYL ETHYL KETONE	<100
TETRACHLOROETHENE	<10
TRICHLOROETHENE	<10
VINYL CHLORIDE	<10

SURROGATE PERCENT RECOVERIES

DIBROMOFLUOROMETHANE (%)	111
BROMOFLUOROBENZENE (%)	97
TOLUENE-D8 (%)	100

American Environmental Network (Arizona), Inc.

QUALITY CONTROL DATA

ATI I.D. : 612663

TEST : EPA METHOD 8240 (TCLP 1311)

CLIENT : EL PASO NATURAL GAS
PROJECT # : (NONE)
PROJECT NAME : WHITEROCK
REF I.D. : 61249938

DATE ANALYZED : 12/11/96
SAMPLE MATRIX : NON-AQUEOUS
UNITS : UG/L

COMPOUNDS	SAMPLE RESULT	CONC. SPIKED	SPIKED SAMPLE	% REC.	DUP. SPIKED SAMPLE	DUP. % REC.	RPD
1,1-DICHLOROETHENE	<4	20	19	95	18	90	5
TRICHLOROETHENE	<4	20	17	85	17	85	0
CHLOROBENZENE	<5	20	18	90	18	90	0
BENZENE	<4	20	19	95	19	95	0

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative \% Difference)} = \frac{(\text{Spiked Sample Result} - \text{Duplicate Spike Sample Result})}{\text{Average of Spiked Sample}} \times 100$$

American Environmental Network (Arizona), Inc.

GCMS - RESULTS

ATI I.D. : 61266301

TEST : EPA METHOD 8270 (TCLP 1311)

CLIENT	: EL PASO NATURAL GAS	DATE SAMPLED	: 12/10/96
PROJECT #	: (NONE)	DATE RECEIVED	: 12/11/96
PROJECT NAME	: WHITEROCK	DATE EXTRACTED	: 12/12/96
CLIENT I.D.	: F960174	DATE ANALYZED	: 12/13/96
SAMPLE MATRIX	: NON-AQUEOUS	UNITS	: UG/L
		DILUTION FACTOR	: 1

COMPOUNDS	RESULTS
O-CRESOL	<100
M & P-CRESOL	<100
1,4-DICHLOROBENZENE	<100
2,4-DINITROTOLUENE	<100
HEXACHLOROBENZENE	<100
HEXACHLOROBUTADIENE	<100
HEXACHLOROETHANE	<100
NITROBENZENE	<100
PENTACHLOROPHENOL	<100
2,4,5-TRICHLOROPHENOL	<100
2,4,6-TRICHLOROPHENOL	<100
PYRIDINE	<100

SURROGATE PERCENT RECOVERIES

NITROBENZENE (%)	86
2-FLUOROBIPHENYL (%)	98
TERPHENYL (%)	87
PHENOL-D6 (%)	80
2-FLUOROPHENOL (%)	77
2,4,6-TRIBROMOPHENOL (%)	94

American Environmental Network (Arizona), Inc.

GCMS - RESULTS

REAGENT BLANK

TEST : EPA METHOD 8270 (TCLP 1311)

CLIENT	: EL PASO NATURAL GAS	ATI I.D.	: 612663
PROJECT #	: (NONE)	DATE EXTRACTED	: 12/12/96
PROJECT NAME	: WHITEROCK	DATE ANALYZED	: 12/13/96
CLIENT I.D.	: REAGENT BLANK	UNITS	: UG/L
		DILUTION FACTOR	: N/A

COMPOUNDS	RESULTS
O-CRESOL	<100
M & P-CRESOL	<100
1,4-DICHLOROBENZENE	<100
2,4-DINITROTOLUENE	<100
HEXACHLOROBENZENE	<100
HEXACHLOROBUTADIENE	<100
HEXACHLOROETHANE	<100
NITROBENZENE	<100
PENTACHLOROPHENOL	<100
2,4,5-TRICHLOROPHENOL	<100
2,4,6-TRICHLOROPHENOL	<100
PYRIDINE	<100

SURROGATE PERCENT RECOVERIES

NITROBENZENE (%)	82
2-FLUOROBIPHENYL (%)	94
TERPHENYL (%)	98
PHENOL-D6 (%)	70
2-FLUOROPHENOL (%)	73
2,4,6-TRIBROMOPHENOL (%)	79

American Environmental Network (Arizona), Inc.

QUALITY CONTROL DATA

ATI I.D. : 612663

TEST : EPA METHOD 8270 (TCLP 1311)

CLIENT : EL PASO NATURAL GAS
PROJECT # : (NONE)
PROJECT NAME : WHITEROCK
REF I.D. : 61266301

DATE ANALYZED : 12/12/96
SAMPLE MATRIX : NON-AQUEOUS
UNITS : UG/L

COMPOUNDS	SAMPLE RESULT	CONC. SPIKED	SPIKED SAMPLE	% REC.	DUP. SPIKED SAMPLE	DUP. % REC.	RPD
2,4-DINITROTOLUENE	<100	500	387	77	434	87	11
1,4-DICHLOROBENZENE	<100	500	421	84	425	85	1
PENTACHLOROPHENOL	<100	1000	862	86	852	85	1
O-CRESOL	<100	1000	813	81	798	80	2

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative \% Difference)} = \frac{(\text{Spiked Sample Result} - \text{Duplicate Spike Sample Result})}{\text{Average of Spiked Sample}} \times 100$$

American Environmental Network (Arizona), Inc.

DATES OF ANALYSIS

ACCESSION #: 612663

SAMPLE ID	TEST AND METHOD NUMBER	DATE OF ANALYSIS	ANALYST
61266301	ARSENIC (TCLP 1311/6010)	12/16/96	JLC
61266301	BARIUM (TCLP 1311/6010)	12/16/96	JLC
61266301	CADMIUM (TCLP 1311/6010)	12/16/96	JLC
61266301	CHROMIUM (TCLP 1311/6010)	12/16/96	JLC
61266301	EPA METHOD 8240 (TCLP 1311)	12/12/96	WPH
61266301	EPA METHOD 8270 (TCLP 1311)	12/13/96	CL
61266301	IGNITABILITY (ATI P10.618)	12/18/96	CM
61266301	LEAD (TCLP 1311/6010)	12/16/96	JLC
61266301	MERCURY (TCLP 1311/6010)	12/17/96	DS
61266301	PH (EPA 9040/9045)	12/13/96	MH
61266301	SELENIUM (TCLP 1311/6010)	12/16/96	JLC
61266301	SILVER (TCLP 1311/6010)	12/16/96	JLC

REFERENCES: Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW 846, 3rd Ed.

El Paso Natural Gas Company

CHAIN OF CUSTODY RECORD

AEN #6126663

Page 1 of 1

PROJECT NUMBER:

PROJECT NAME: Whitrock Station

SAMPLERS (Signature): Charles R. Padilla

DATE:

CONTRACT LABORATORY P. O. NUMBER: American Environmental Network Phoenix, AZ

LAB ID	DATE	TIME	MATRIX	SAMPLE NUMBER	TOTAL NUMBER OF CONTAINERS	COMPOSITE OR GRAB	REQUESTED ANALYSIS: TCLP Metals (8 RCRA)	TCLP 8240	TCLP 8270	Ignitability	Reactivity	Corrosivity	REMARKS
1	12-10-96	1040	Soil/Sludge	F960174	1	C	✓	✓	✓	✓	✓	✓	

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
Charles R. Padilla	12-11-96 1305				
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED OF LABORATORY BY: (Signature)
				12/11/96 1030	Melanie Gieneyman

REQUESTED TURNAROUND TIME:
☐ ROUTINE ☒ RUSH Faxed with Limits @ AEN

CARRIER CO.:

BILL NO.:

SAMPLE RECEIPT REMARKS:

CHARGE CODE:

RESULTS & INVOICES TO:

TRANSMISSION OPERATIONS LABORATORY
EL PASO NATURAL GAS COMPANY
8645 RAILROAD DRIVE
EL PASO, TEXAS 79904

915-759-2229 FAX: 915-759-2335

White - Testing Laboratory Canary - EPNG Lab Pink - Field Sampler

FM-08-0566 (Rev. 5-95)

ATTACHMENT 1

Pace Analytical

Pace Analytical Services, Inc.
900 Gemini Avenue
Houston, TX 77058
Tel: 713-488-1810
Fax: 713-488-4881

December 19, 1996
Report No.: 00057387
Section A Page 1

LABORATORY ANALYSIS REPORT

CLIENT NAME: AEN
ADDRESS: 9830 S. 51ST ST, STE B113
PHOENIX, AZ 85044-
ATTENTION: LINDA ESHELMAN

LIMS CLIENT: 0938 0004
PACE PROJECT: H42854
PACE CLIENT: 621093
P.O. NO: 612663

SAMPLE ID: 612663-01
SAMPLE NO: H441642
SAMPLE MATRIX: SOIL

DATE SAMPLED: 10-DEC-96 1040
DATE RECEIVED: 12-DEC-96
PROJECT MANAGER: Debbie Proctor

LN	TEST CODE	DETERMINATION	DILUTION FACTOR	RESULT	UNITS
1	I750	Sulfide, Reactive (as S)	1	58	mg/kg
2	I278	Cyanide, Reactive (HCN)	1	< 0.5	mg/kg

REPORT OF LABORATORY ANALYSIS

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Pace Analytical

Pace Analytical Services, Inc.
900 Gemini Avenue
Houston, TX 77058
Tel: 713-488-1810
Fax: 713-488-4681

December 19, 1996
Report No.: 00057387
Section B Page 1

SUPPLEMENTAL INFORMATION

LN	TEST CODE	LCSR BLNK BATCH	DUP/MS MS/MSD BATCH	SAMPLE PREPARATION LR-METHOD	DATE/TIME	ANALYST	SAMPLE ANALYSIS LR-METHOD	DATE/TIME	ANALYST	INSTRUMENT
SAMPLE ID: 612663-01									SAMPLE NO: H441642	
1	I750	69730	69730	NA			19-7.3.4	15-DEC-96 1200	GES	
2	I278	69854	69854	NA			19-7.3.3	15-DEC-96 1200	GES	401WAT

LR Method Literature Reference

19 EPA-Test Methods for Evaluating Solid Waste, 3rd ed, Nov. 1986 and updates

REPORT OF LABORATORY ANALYSIS

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Pace Analytical

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900 Gemini Avenue
Houston, TX 77058
Tel: 713-488-1810
Fax: 713-488-4881

December 19, 1996
Report No.: 00057387
Section D Page 1

LABORATORY CONTROL SAMPLE RECOVERY

TEST CODE	DETERMINATION	LCS % RECOVERY	ACCEPTANCE LIMITS
BATCH NO: 69730			SAMPLE NO: H379546
1750	Sulfide, Reactive (as S)	46.3	-

REPORT OF LABORATORY ANALYSIS

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Pace Analytical

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900 Gemini Avenue
Houston, TX 77058
Tel: 713-488-1810
Fax: 713-488-4881

December 19, 1996
Report No.: 00057387
Section E Page 1

METHOD BLANK DATA

TEST CODE	DETERMINATION	RESULT	UNIT
BATCH NO: 69730		SAMPLE NO: H379547	
I750	Sulfide, Reactive (as S)	< 5	mg/kg
BATCH NO: 69854		SAMPLE NO: H379728	
I27B	Cyanide, Reactive (HCN)	< 0.5	mg/kg

REPORT OF LABORATORY ANALYSIS

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Pace Analytical

Pace Analytical Services, Inc.
900 Gemini Avenue
Houston, TX 77058
Tel: 713-488-1810
Fax: 713-488-4881

December 19, 1996
Report No.: 00057387
Section H Page 1

MATRIX SPIKE AND MATRIX SPIKE DUPLICATE DATA

TEST CODE	DETERMINATION	MS RESULT	MSD RESULT	UNITS	RPD	MS PCT RCVRY	MSD PCT RCVRY
BATCH NO: 69730					SAMPLE NO: H439349		
1750	Sulfide, Reactive (as S)	120	110	mg/kg	2.1	55.2	50.7

REPORT OF LABORATORY ANALYSIS

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SENT BY:EL PASO NATURAL GAS CO; 1- 8-97 ; 11:15 ; T.O.E. LABORATORY; 5058317740;#14

American Environmental Network (Arizona), Inc.

Interlab Chain of Custody

DATE 12/11/96 PAGE 1 OF 1

PROJECT MANAGER: Linda Eshelman

COMPANY: American Environmental Network (Arizona), Inc.
ADDRESS: 9830 S. 51st Street, Suite B-113
Phoenix, Arizona 85044
(602) 496-4400

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID (HH11)	NUMBER OF CONTAINERS	AIR - O_2, CO_2, METHANE, CO, N_2		GROSS ALPHA / BETA	RADIUM 226 / 228	ISOTOPIC URANIUM	RADON 222		SURFACTANTS (MBAS)	FECAL COLIFORM	TOTAL COLIFORM	BOD	COD	VOLATILE ORGANICS ( )		EPA 610/8310	Reactivity	EPA 547	EPA 548	EPA 549	EPA 1613	EPA 525		ASBESTOS	KARL FISHER % MOISTURE	SULFIDE		TOC	TOX
612663-01	12/10/96	1040	Sludge	[illegible]	1																X												

PROJECT INFORMATION	
PROJECT NUMBER:	612663
PROJECT NAME:	
QC LEVEL:	STD IV
TAT:	☐ STANDARD ☒ RUSH!
AEN WORKORDER #	

SAMPLE RECEIPT	
TOTAL NUMBER OF CONTAINERS	
CHAIN OF CUSTODY SEALS	
INTACT?	
RECEIVED GOOD COND. / COLD	
LAB NUMBER	

DUE DATE: Need FAX results by 12/18/96!

TIME: _____

0.1°C

SAMPLES SENT TO:	
PENSACOLA	
PORTLAND	
AQUATIC	
CORE	
ALBUQUERQUE	
ATEL	
WEST COAST	
FORT COLLINS	
Pace, Houston	X

RELINQUISHED BY: 1.		RELINQUISHED BY: 2.	
Signature: [signature]	Time: 1800	Signature:	Time:
Printed Name: Linda Eshelman	Date: 12/11/96	Printed Name:	Date:
American Environmental Network Phoenix		Company:	
RECEIVED BY: 1.		**RECEIVED BY: (LAB) 2.**	
Signature:	Time:	Signature: [signature]	Time: 0950
Printed Name:	Date:	Printed Name: P Schales	Date: 12-12-96
Company:		Company: PACE	

AEN Labs: Albuquerque (505) 344-3777 • Pensacola (904) 474-1001 • Portland (503) 684-0447 • Columbia (410) 730-8525 • Pleasant Hill (510) 930-9090 DISTRIBUTION: White, Canary - AEN (Arizona), Inc. • Pink - ORIGINATOR

195

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
1000 Rio Brazos Road
Aztec, 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: 96003-21

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator El Paso Field Services
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Farmington/San Juan Warehouse
2. Management Facility Destination Envirotech Soil Remediation Fac. Landfarm #2	6. Transporter Envirotech
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	3621 E. Main St. Farmington, N.M. 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:

Wash Rack Solids
TCLP ATTACHED

Harlans checking never hauled ??

RECEIVED
JUN - 2 1997
OIL CON. DIV.
DIST. 3

RECEIVED
MAY 19 1997
OIL CON. DIV.
DIST. 3

Estimated Volume 3 cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Harlan M. Brown
Waste Management Facility Authorized Agent
TITLE: Landfarm Manager DATE: 5-16-97

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. (505)632-0615

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 5/19/97

APPROVED BY: R. Chavez TITLE: Bureau Chief DATE: 5/23/97

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
Aztec, 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: 96003-21

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator El Paso Field Services
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Farmington/San Juan Warehouse
2. Management Facility Destination Envirotech Soil RemediationFac. Landfarm #2	6. Transporter Envirotech
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	3621 E. Main St. Farmington, N.M. 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:

Wash Rack Solids

TCLP ATTACHED

RECEIVED
MAY 19 1997
OIL CON. DIV.
DIST. 3

Estimated Volume 3 cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 5-16-97
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. Foust TITLE: Geologist DATE: 5/19/97

APPROVED BY: _____ TITLE: _____ DATE: _____

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

CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL

Originating Location:	El Paso Field Services - San Juan Warehouse
Source:	Wash Rack Tank Bottom Solids
Disposal Location:	Envirotech Landfarm

"As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as determined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR 261 to verify the nature as non-hazardous. I further certify that to my knowledge no "hazardous or listed waste" pursuant to the provisions of 40 CFR, part 261, Subparts C and D, has been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, section 261.3(b)."

I, the undersigned as agent for the El Paso Field Services Company concur with the status of the waste from the subject site.

Name:	David Bays
Title/Agency:	Sr. Environmental Scientist
	El Paso Field Services Co.
Address:	P. O. Box 4990
	Farmington, NM 87499
Signature:	David Bays
Date:	May 13, 1997

David Sandlin
Paperworks.

ENVIROTECH LABS

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May 7, 1997

Mr. John Lambdin
El Paso Field Services, Inc.
P.O. Box 4990
Farmington, New Mexico 87499

Project No.: 96003-21

Dear John,

Enclosed are the analytical results for the sample collected from the EPFS location designated as "Farmington Warehouse". One sludge sample was collected by EPFS personnel on 04/24/97, and received by the Envirotech laboratory on 04/28/97 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. 4082 and assigned Laboratory No. B176 (EPFS No. 970346) for tracking purposes. The sample was extracted on 04/28/97 and analyzed on 04/28/97 - 05/06/97 using USEPA or equivalent methods.

Results of the analysis indicate that the material from the designated location is not a characteristic hazardous waste as defined by 40 CFR, Section 261, Subpart C for the noted compounds.

Should you have any questions or require additional information, please do not hesitate to contact us at (505) 632-0615. It is always a pleasure doing business with you.

Respectfully submitted,
Envirotech, Inc.

Stacy W. Sendler

Stacy W. Sendler
Environmental Scientist/Laboratory Manager

enc.

SWS\sws

96003-21.lb1/wpd

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

SUSPECTED HAZARDOUS SOLID WASTE ANALYSIS

Client:	El Paso Field Service	Project #:	96003-21
Sample ID:	970346	Date Reported:	04-28-97
Lab ID#:	B176	Date Sampled:	04-24-97
Sample Matrix:	Sludge	Date Received:	04-28-97
Preservative:	Cool	Date Analyzed:	04-28-97
Condition:	Cool & Intact	Chain of Custody:	4082

Parameter	Result	
IGNITABILITY:	**Negative**	
CORROSIVITY:	**Negative**	**pH = 5.05**
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: **Farmington Warehouse. Fiberglass Tank.**

Analyst

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EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS

Client:	El Paso Field Service	Project #:	96003-21
Sample ID:	970346	Date Reported:	04-30-97
Laboratory Number:	B176	Date Sampled:	04-24-97
Chain of Custody:	4082	Date Received:	04-28-97
Sample Matrix:	Sludge	Date Extracted:	04-28-97
Preservative:	Cool	Date Analyzed:	04-30-97
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)	0.0085	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	0.0057	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: **Farmington Warehouse, Fiberglass Tank.**

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EPA METHOD 8040
PHENOLS

Client:	El Paso Field Service	Project #:	96003-21
Sample ID:	970346	Date Reported:	05-02-97
Laboratory Number:	B176	Date Sampled:	04-24-97
Chain of Custody:	4082	Date Received:	04-28-97
Sample Matrix:	Sludge	Date Extracted:	04-28-97
Preservative:	Cool	Date Analyzed:	05-02-97
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	0.094	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	102%
	2,4,6-Tribromophenol	96%

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

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

Method 8040, Phenols, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1

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

Comments: **Farmington Warehouse. Fiberglass Tank.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	El Paso Field Service	Project #:	96003-21
Sample ID:	970346	Date Reported:	05-02-97
Laboratory Number:	B176	Date Sampled:	04-24-97
Chain of Custody:	4082	Date Received:	04-28-97
Sample Matrix:	Sludge	Date Extracted:	04-28-97
Preservative:	Cool	Date Analyzed:	05-02-97
Condition:	Cool and Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	**0.022**	**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	**0.095**	**0.020**	**0.13**
HexachloroBenzene	**0.026**	**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: **Farmington Warehouse. Fiberglass Tank.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	El Paso Field Service	Project #:	96003-21
Sample ID:	970346	Date Reported:	05-01-97
Laboratory Number:	B176	Date Sampled:	04-24-97
Chain of Custody:	4082	Date Received:	04-28-97
Sample Matrix:	Sludge	Date Analyzed:	04-30-97
Preservative:	Cool	Date Extracted:	04-28-97
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
Arsenic	ND	0.001	5.00
Barium	0.43	0.01	100
Cadmium	0.094	0.001	1.00
Chromium	ND	0.001	5.00
Lead	0.168	0.001	5.00
Mercury	ND	0.001	0.200
Selenium	ND	0.001	1.00
Silver	ND	0.001	5.0

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

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

Comments: **Farmington Warehouse, Fiberglass Tank.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

QUALITY ASSURANCE / QUALITY CONTROL

DOCUMENTATION

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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:	Laboratory Blank	Date Reported:	04-30-97
Laboratory Number:	04-30-TCV.BLANK	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	04-30-97
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	97%
	Bromofluorobenzene	101%

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 B176 - B177.**

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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:	04-30-97
Laboratory Number:	04-28-TCV.MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	04-30-97
Condition:	N/A	Date Extracted:	04-28-97
		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	101%

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 B176 - B177.**

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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 Duplicate	Date Reported:	04-30-97
Laboratory Number:	B176	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	04-30-97
Condition:	N/A	Date Extracted:	04-28-97

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)	0.0085	0.0085	0.0001	0.0%
Chloroform	ND	ND	0.0001	0.0%
Carbon Tetrachloride	ND	ND	0.0001	0.0%
Benzene	0.0057	0.0060	0.0001	5.3%
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 B176 - B177.**

Analyst

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

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Spike	Date Reported:	04-30-97
Laboratory Number:	B176	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	04-30-97
Condition:	N/A	Date Extracted:	04-28-97

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	0.0502	0.0001	100%	28-163
1,1-Dichloroethene	ND	0.050	0.0490	0.0001	98%	43-143
2-Butanone (MEK)	0.0085	0.050	0.0584	0.0001	100%	47-132
Chloroform	ND	0.050	0.0499	0.0001	100%	49-133
Carbon Tetrachloride	ND	0.050	0.0502	0.0001	100%	43-143
Benzene	0.0057	0.050	0.0549	0.0001	99%	39-150
1,2-Dichloroethane	ND	0.050	0.0493	0.0001	99%	51-147
Trichloroethene	ND	0.050	0.0500	0.0003	100%	35-146
Tetrachloroethene	ND	0.050	0.0488	0.0005	98%	26-162
Chlorobenzene	ND	0.050	0.0507	0.0003	101%	38-150
1,4-Dichlorobenzene	ND	0.050	0.0499	0.0002	100%	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 B176 - B177.**

Analyst

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EPA METHOD 8040
PHENOLS
Quality Assurance Report
Laboratory Blank

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	05-02-97
Laboratory Number:	05-02-TCA.BLANK	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	05-02-97
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	97 %

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

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

Method 8040, Phenols, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1

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

Comments: **QA/QC for samples B176 - B177.**

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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:	05-02-97
Laboratory Number:	04-28-TCA.MB	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	Cool	Date Extracted:	04-28-97
Condition:	Cool & Intact	Date Analyzed:	05-02-97
		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	102%
	2,4,6-Tribromophenol	98%

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

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

Method 8040, Phenols, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1

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

Comments: **QA/QC for samples B176 - B177.**

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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:	05-02-97
Laboratory Number:	B176	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	Cool	Date Extracted:	04-28-97
Condition:	Cool & Intact	Date Analyzed:	05-02-97
		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	0.094	0.092	0.020	2.5%
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. 19

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

Comments: **QA/QC for samples B176 - B177.**

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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:	05-02-97
Laboratory Number:	05-02-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:	05-02-97
		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	**102%**

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 B176 - B177.**

Analyst

Review

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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:	05-02-97
Laboratory Number:	04-28-TBN.MB	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	Cool	Date Extracted:	04-28-97
Condition:	Cool and Intact	Date Analyzed:	05-02-97
		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 B176 - B177.**

Analyst

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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:	05-02-97
Laboratory Number:	B176	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Extracted:	04-28-97
Condition:	N/A	Date Analyzed:	05-02-97
		Analysis Requested:	TCLP

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Percent Difference	Det. Limit (mg/L)
Pyridine	**0.022**	**0.022**	**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	**0.095**	**0.094**	**1.0%**	**0.020**
HexachloroBenzene	**0.026**	**0.025**	**5.3%**	**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 B176 - B177.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Blanks	Date Reported:	05-01-97
Laboratory Number:	N/A	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	04-30-97
Condition:	N/A	Date Extracted:	N/A

Parameter	Instrument Blank (mg/L)	Method Blank (mg/L)	Det. Limit (mg/L)
Arsenic	**ND**	**ND**	**0.001**
Barium	**ND**	**ND**	**0.01**
Cadmium	**ND**	**ND**	**0.001**
Chromium	**ND**	**ND**	**0.001**
Lead	**ND**	**ND**	**0.001**
Mercury	**ND**	**ND**	**0.001**
Selenium	**ND**	**ND**	**0.001**
Silver	**ND**	**ND**	**0.001**

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

Comments: **QA/QC for samples B176, B177 and B183.**

Analyst

Review

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ENVIROTECH LABS
PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	05-01-97
Laboratory Number:	B176	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	04-30-97
Condition:	N/A	Date Extracted:	04-28-97

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Percent Difference
Arsenic	**ND**	**ND**	**0.0%**
Barium	**0.43**	**0.42**	**2.4%**
Cadmium	**0.094**	**0.092**	**2.2%**
Chromium	**ND**	**ND**	**0.0%**
Lead	**0.168**	**0.164**	**2.4%**
Mercury	**ND**	**ND**	**0.0%**
Selenium	**ND**	**ND**	**0.0%**
Silver	**ND**	**ND**	**0.0%**

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Maximum Difference
	Trace Metals	**30 %**

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

Comments: **QA/QC for samples B176, B177 and B183.**

Analyst

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ENVIROTECH LABS
PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Spike	Date Reported:	05-01-97
Laboratory Number:	B176	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	04-30-97
Condition:	N/A	Date Extracted:	04-28-97

Parameter	Spike Added (mg/L)	Sample Result (mg/L)	Spiked Sample Result (mg/L)	Percent Recovery
Arsenic	**0.100**	**ND**	**0.099**	**99%**
Barium	**1.00**	**0.43**	**1.42**	**99%**
Cadmium	**0.050**	**0.094**	**0.142**	**99%**
Chromium	**0.050**	**ND**	**0.049**	**98%**
Lead	**0.100**	**0.168**	**0.263**	**98%**
Mercury	**0.025**	**ND**	**0.024**	**96%**
Selenium	**0.100**	**ND**	**0.099**	**99%**
Silver	**0.050**	**ND**	**0.051**	**102%**

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Acceptance Range %
	TCLP Metals	**80 - 120 %**

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

Comments: **QA/QC for samples B176, B177 and B183.**

Analyst

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CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location
JOHN LAMBOIN EL PASO FIELD SERVICE	FARMINGTON WAREHOUSE

Sampler: (Signature)	Chain of Custody Tape No.
Dennis Bird	96003-21

ANALYSIS/PARAMETERS

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TCLP METALS	TCLP ORGANICS	REACTIVITY	IGNITIBILITY	CORROSIVITY		Remarks
970346	4-24-97	1447	B176	SLUDGE	1	X	X	X	X	X		FIBERGLASS TANK
						Sample received cool & intact						

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Dennis Bird	4-26-97	0900 ~~1535~~	Dean L. Apman	4-28-97	9:00
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

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

san juan repro Form 578-81

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
1000 Rio Brazos Road
Aztec, 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: 96003-19

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator E.P.F.S
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Kutz Plant
2. Management Facility Destination Envirotech Soil RemediationFac Landfarm #2	6. Transporter ENVIROTECH
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State NEW MEXICO
7. Location of Material (Street Address or ULSTR) SW/4 Sec 15 T29N R12W, SJC, NMPM	

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 @ the Kutz Plant Hydrocarbon Recovery Facility.

RECEIVED
JUN - 2 1997
OIL CON. DIV.
DIST. 3

RECEIVED
MAY 28 1997
OIL CON. DIV.
DIST. 3

Estimated Volume 10 cy cy Known Volume (to be entered by the operator at the end of the haul) 481 bbls cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 5-28-97
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. Foust TITLE: Geologist DATE: 5/28/97

APPROVED BY: [illegible] TITLE: Bureau Chief DATE: 5/30/97

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
1000 Rio Brazos Road
Aztec, 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: 96003-19

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator E.P.F.S
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Kutz Plant
2. Management Facility Destination Envirotech Soil RemediationFac. Landfarm #2	6. Transporter ENVIROTECH
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State NEW MEXICO
7. Location of Material (Street Address or ULSTR) SW/4 Sec 15 T29N R12W, SJC, NMPM	

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 @ the Kutz Plant Hydrocarbon Recovery Facility.

RECEIVED
MAY 28 1997
OIL CON. DIV.
DIST. 3

Estimated Volume 10 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: 5-28-97
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. Foust TITLE: Geologist DATE: 5/28/97

APPROVED BY: _____ TITLE: _____ DATE: _____

Envirotech
5796 U. S. Highway 64
Farmington, NM 97401

CERTIFICATE OF WASTE STATUS
NON-EXEMPT WASTE MATERIAL

Originating Location: El Paso Field Services Co.

Source: Kutz Hydrocarbon Recovery Facility

Disposal Location: Envirotech Landfarm

"As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt waste as determined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR 261 to verify the nature as non-hazardous. I further certify that to my knowledge no "hazardous or listed waste" pursuant to the provisions of 40 CFR, part 261, Subparts C and D, has been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, section 261.3(b)."

I, the undersigned as agent for the El Paso Field Services Company concur with the status of the waste from the subject site.

Name: David Bays

Title/Agency: Sr. Environmental Scientist
El Paso Field Services Co.

Address: P. O. Box 4990
Farmington, NM 87499

Signature: David Bays

Date: May 21, 1997

Loren Pacig

ENVIROTECH LABS

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April 29, 1997

Mr. John Lambdin
El Paso Field Services, Inc.
P.O. Box 4990
Farmington, New Mexico 87499

Project No.: 96003-19

Dear John,

Enclosed are the analytical results for the sample collected from the EPFS location designated as "Kutz Separator". One sludge sample was collected by EPFS personnel on 04/15/97, and received by the Envirotech laboratory on 04/16/97 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. 4081 and assigned Laboratory No. B138 (EPFS No. 970289) for tracking purposes. The sample was extracted on 04/17/97 and analyzed on 04/17/97 - 04/22/97 using USEPA or equivalent methods.

Results of the analysis indicate that the material from the designated location is not a characteristic hazardous waste as defined by 40 CFR, Section 261, Subpart C for the noted compounds.

Should you have any questions or require additional information, please do not hesitate to contact us at (505) 632-0615. It is always a pleasure doing business with you.

Respectfully submitted,
Envirotech, Inc.

Stacy W. Sendler

Stacy W. Sendler
Environmental Scientist/Laboratory Manager

enc.

SWS\sws 96003-19.lb1/wpd

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

SUSPECTED HAZARDOUS SOLID WASTE ANALYSIS

Client:	El Paso Field Service	Project #:	96003-19
Sample ID:	970289	Date Reported:	04-23-97
Lab ID#:	B138	Date Sampled:	04-15-97
Sample Matrix:	Sludge	Date Received:	04-16-97
Preservative:	Cool	Date Analyzed:	04-17-97
Condition:	Cool & Intact	Chain of Custody:	4081

Parameter	Result	
IGNITABILITY:	**Negative**	
CORROSIVITY:	**Negative**	**pH = 5.85**
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: **Kutz Separator. Drain Box.**

Dean L. O'Leary
Analyst

Stacy W Sendler
Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS

Client:	El Paso Field Service	Project #:	96003-18
Sample ID:	970289	Date Reported:	04-23-97
Laboratory Number:	B138	Date Sampled:	04-15-97
Chain of Custody:	4081	Date Received:	04-16-97
Sample Matrix:	Sludge	Date Extracted:	04-17-97
Preservative:	Cool	Date Analyzed:	04-22-97
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)	0.0577	0.0001	200
Chloroform	0.0095	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	0.0149	0.0003	0.5
Tetrachloroethene	0.0502	0.0005	0.7
Chlorobenzene	ND	0.0003	100
1,4-Dichlorobenzene	0.0219	0.0003	7.5

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery
	Trifluorotoluene	96%
	Bromofluorobenzene	101%

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: **Kutz Separator. Drain Box.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8040
PHENOLS

Client:	El Paso Field Service	Project #:	96003-19
Sample ID:	970289	Date Reported:	04-23-97
Laboratory Number:	B138	Date Sampled:	04-15-97
Chain of Custody:	4081	Date Received:	04-16-97
Sample Matrix:	Sludge	Date Extracted:	04-17-97
Preservative:	Cool	Date Analyzed:	04-22-97
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	0.198	0.020	200
p,m-Cresol	0.254	0.040	200
2,4,6-Trichlorophenol	0.415	0.020	2.0
2,4,5-Trichlorophenol	0.394	0.020	400
Pentachlorophenol	0.099	0.023	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	2-Fluorophenol	102%
	2,4,6-Tribromophenol	103%

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. 198

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

Comments: **Kutz Separator. Drain Box.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	El Paso Field Service	Project #:	96003-19
Sample ID:	970289	Date Reported:	04-23-97
Laboratory Number:	B138	Date Sampled:	04-15-97
Chain of Custody:	4081	Date Received:	04-16-97
Sample Matrix:	Sludge	Date Extracted:	04-17-97
Preservative:	Cool	Date Analyzed:	04-22-97
Condition:	Cool and Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	**0.137**	**0.020**	**5.0**
Hexachloroethane	**0.023**	**0.020**	**3.0**
Nitrobenzene	**0.162**	**0.020**	**2.0**
Hexachlorobutadiene	**0.058**	**0.020**	**0.5**
2,4-Dinitrotoluene	**0.076**	**0.020**	**0.13**
HexachloroBenzene	**0.025**	**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: **Kutz Separator. Drain Box.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	El Paso Field Service	Project #:	96003-19
Sample ID:	970289	Date Reported:	04-21-97
Laboratory Number:	B138	Date Sampled:	04-15-97
Chain of Custody:	4081	Date Received:	04-16-97
Sample Matrix:	Sludge	Date Analyzed:	04-21-97
Preservative:	Cool	Date Extracted:	04-17-97
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
Arsenic	**ND**	**0.001**	**5.00**
Barium	**2.96**	**0.01**	**100**
Cadmium	**0.018**	**0.001**	**1.00**
Chromium	**0.001**	**0.001**	**5.00**
Lead	**0.002**	**0.001**	**5.00**
Mercury	**ND**	**0.001**	**0.200**
Selenium	**ND**	**0.001**	**1.00**
Silver	**ND**	**0.001**	**5.0**

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

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

Comments: **Kutz Separator. Drain Box.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

QUALITY ASSURANCE / QUALITY CONTROL DOCUMENTATION

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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:	Laboratory Blank	Date Reported:	04-23-97
Laboratory Number:	04-22-TCV.BLANK	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	04-22-97
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	0.0003	7.5

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery
	Trifluorotoluene	98%
	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 B132, B137, B138 and B147.**

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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:	04-23-97
Laboratory Number:	04-16-TCV.MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	04-22-97
Condition:	N/A	Date Extracted:	04-16-97
		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	0.0003	7.5

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery
	Trifluorotoluene	99%
	Bromofluorobenzene	101%

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 B132, B137, B138 and B147.**

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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:	04-23-97
Laboratory Number:	B132	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	04-22-97
Condition:	N/A	Date Extracted:	04-16-97

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**	**0.0003**	**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 B132, B137, B138 and B147.**

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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:	04-23-97
Laboratory Number:	B132	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	04-22-97
Condition:	N/A	Date Extracted:	04-16-97

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	0.0497	0.0001	97%	28-163
1,1-Dichloroethene	ND	0.050	0.0491	0.0001	98%	43-143
2-Butanone (MEK)	ND	0.050	0.0498	0.0001	100%	47-132
Chloroform	ND	0.050	0.0496	0.0001	99%	49-133
Carbon Tetrachloride	ND	0.050	0.0511	0.0001	100%	43-143
Benzene	ND	0.050	0.0491	0.0001	98%	39-150
1,2-Dichloroethane	ND	0.050	0.0502	0.0001	100%	51-147
Trichloroethene	ND	0.050	0.0486	0.0003	97%	35-146
Tetrachloroethene	ND	0.050	0.0497	0.0005	99%	26-162
Chlorobenzene	ND	0.050	0.0490	0.0003	98%	38-150
1,4-Dichlorobenzene	ND	0.050	0.0489	0.0003	96%	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 B132, B137, B138 and B147.**

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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:	04-23-97
Laboratory Number:	04-22-TCA.BLANK	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	04-22-97
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	0.023	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	2-fluorophenol	98 %
	2,4,6-tribromophenol	97 %

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. 198

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

Comments: **QA/QC for samples B132, B137, B138 and B147.**

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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:	04-23-97
Laboratory Number:	04-16-TCA.MB	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	Cool	Date Extracted:	04-16-97
Condition:	Cool & Intact	Date Analyzed:	04-22-97
		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	0.023	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	2-Fluorophenol	100%
	2,4,6-Tribromophenol	97%

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. 198

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

Comments: **QA/QC for samples B132, B137, B138 and B147.**

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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:	04-23-97
Laboratory Number:	B132	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	Cool	Date Extracted:	04-16-97
Condition:	Cool & Intact	Date Analyzed:	04-22-97
		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	0.023	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 B132, B137, B138 and B147.**

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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:	04-23-97
Laboratory Number:	04-22-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:	04-22-97
		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 samples B132, B137, B138 and B147.**

Analyst

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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:	04-23-97
Laboratory Number:	04-16-TBN.MB	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	Cool	Date Extracted:	04-16-97
Condition:	Cool and Intact	Date Analyzed:	04-22-97
		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: **QA/QC for samples B132, B137, B138 and B147.**

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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:	04-23-97
Laboratory Number:	B132	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Extracted:	04-16-97
Condition:	N/A	Date Analyzed:	04-22-97
		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 B132, B137, B138 and B147.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Blanks	Date Reported:	04-21-97
Laboratory Number:	N/A	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	04-21-97
Condition:	N/A	Date Extracted:	N/A

Parameter	Instrument Blank (mg/L)	Method Blank (mg/L)	Det. Limit (mg/L)
Arsenic	**ND**	**ND**	**0.001**
Barium	**ND**	**ND**	**0.01**
Cadmium	**ND**	**ND**	**0.001**
Chromium	**ND**	**ND**	**0.001**
Lead	**ND**	**ND**	**0.001**
Mercury	**ND**	**ND**	**0.001**
Selenium	**ND**	**ND**	**0.001**
Silver	**ND**	**ND**	**0.001**

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

Comments: **QA/QC for samples B132, B134, B135, B137, B138 and B147**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	04-21-97
Laboratory Number:	B132	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	04-21-97
Condition:	N/A	Date Extracted:	04-16-97

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Percent Difference
Arsenic	**ND**	**ND**	**0.0%**
Barium	**3.12**	**3.11**	**0.3%**
Cadmium	**0.057**	**0.056**	**1.8%**
Chromium	**0.003**	**0.003**	**0.0%**
Lead	**0.042**	**0.042**	**0.0%**
Mercury	**ND**	**ND**	**0.0%**
Selenium	**ND**	**ND**	**0.0%**
Silver	**ND**	**ND**	**0.0%**

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Maximum Difference
	Trace Metals	**30 %**

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

Comments: **QA/QC for samples B132, B134, B135, B137, B138 and B147**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Spike	Date Reported:	04-21-97
Laboratory Number:	B132	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	04-21-97
Condition:	N/A	Date Extracted:	04-16-97

Parameter	Spike Added (mg/L)	Sample Result (mg/L)	Spiked Sample Result (mg/L)	Percent Recovery
Arsenic	**0.100**	**ND**	**0.099**	**99%**
Barium	**1.00**	**3.12**	**4.13**	**100%**
Cadmium	**0.050**	**0.057**	**0.106**	**99%**
Chromium	**0.050**	**0.003**	**0.053**	**100%**
Lead	**0.100**	**0.042**	**0.142**	**100%**
Mercury	**0.025**	**ND**	**0.025**	**100%**
Selenium	**0.100**	**ND**	**0.099**	**99%**
Silver	**0.050**	**ND**	**0.050**	**100%**

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Acceptance Range %
	TCLP Metals	**80 - 120 %**

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

Comments: **QA/QC for samples B132, B134, B135, B137, B138 and B147**

Analyst

Review

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CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location
JOHN LAMBOIN EL PASO FIELD SERVICE	KUTZ SEPARATOR
Sampler: (Signature) Dennis Bird	Chain of Custody Tape No. 96003-19

ANALYSIS/PARAMETERS

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TCLP METALS	TCLP ORGANICS	REACTIVITY	IGNITIBILITY	CORROSIVITY		Remarks
970289	4-15-97	1018	B138	~~LIQUID~~ SLUDGE	1	X	X	X	X	X		DRAIN BOX
					Sample Received cool & intact DLA							

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Dennis Bird	4-16-97	1000	Dean L. Ayerson	4-16-97	10:00
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

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

san juan repro Form 578-81

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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
1000 Rio Brazos Road
Aztec, 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: 9607C-03

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE Horseshoe Field

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Giant Industries
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Station #9 Ciniza Gallup Horseshoe Field
2. Management Facility Destination Envirotech Soil Remediation Fac. Landfarm #2	6. Transporter Envirotech
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	NW4 SW1/4 SW4 Sec 9, T30N, ~~R16W~~ T30N, R16W

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:

Tank Bottoms - generated during destruction of Tanks
TCLP ATTACHED

Never Hauled

RECEIVED JUN - 2 1997 OIL CON. DIV. DIST. 3

RECEIVED MAY - 8 1997 OIL CON. DIV. DIST. 3

Estimated Volume 400 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: 5-7-97
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. Foust TITLE: Geologist DATE: 5/12/97

APPROVED BY: R. Chavez TITLE: Bureau Chief DATE: 5/19/97

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
Aztec, 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: 96070-03

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE Horseshoe Field

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator GIANT INDUSTRIES
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Station #9 CINIZA GALLUP Horseshoe Field
2. Management Facility Destination Envirotech Soil RemediationFac Landfarm #2	6. Transporter Envirotech
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	NW4SW1/4SW4Sec9, T30N, R16W T30N, R16W

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:

Tank Bottoms - generated during destruction of Tanks
TCLP ATTACHED

RECEIVED
MAY - 8 1997
OIL CON. DIV.
DIST. 3

Estimated Volume 400 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: 5-7-97
Waste Management FacilityAuthorized Agent

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. (505)632-0615

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 5/12/97

APPROVED BY: _____ TITLE: _____ DATE: _____

Generator GIANT INDUSTRIES

CERTIFICATE OF WASTE STATUS
OILFIELD NON-EXEMPT WASTE MATERIAL

Originating Location: Station#9, CINIZA GALLUP HORSESHOE Field, NW4SW4SW4Sec9 T30N R16W

Source: TANK Bottom SOLIDS, generated during TANK Demolition

Disposal Location: Envirotech Soil Remediation Facility, (NMED) Hilltop, New Mexico

"As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt oilfield production waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, to verify the nature as non-hazardous. I further certify that to my knowledge no "hazardous or listed waste" pursuant to the provisions of 40 CFR, part 261, Subparts C and D, has been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, section 261.3(b)."

I, the undersigned, as the agent for Giant Transportation concur with the status of the waste from the subject site.

Name Tim Kinney
Title/Agency General Manager
Address 5761 Hwy 64

Signature [signature]

Date 5/8/97

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ENVIROTECH LABS
PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

May 7, 1997

Mr. Mike Haddenham
Freemyer, Inc.
3600 Bloomfield Highway
Farmington, New Mexico 87401

Project No.: 96070-03

Dear Mr. Haddenham,

Enclosed are the analytical results for the sample collected from the location designated as "Station #9/Ciniza Gallup Horse Shoe Field". One solid sample identified as "#1 Composite Tank Bottoms" was collected by Envirotech personnel on 04/26/97, and delivered to the Envirotech Laboratory on 04/28/97 for Hazardous Waste Characterization analysis (Volatile and Semi-volatile Organics, Metals, Reactivity, Corrosivity, and Ignitability).

The sample was documented on Envirotech Chain of Custody No. 5194 and assigned Laboratory No. B177 for tracking purposes. The sample was extracted on 04/28/97 and analyzed on 04/28/97 - 05/06/97 using USEPA or equivalent methods.

Results of the analysis indicate that the material from the designated location is not a characteristic hazardous waste as defined by 40 CFR, Section 261, Subpart C for the noted compounds.

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. Sendler

Stacy W. Sendler
Environmental Scientist/Laboratory Manager

enc.

SWS\sws

96070-03.lb1/wpd

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ENVIROTECH LABS

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SUSPECTED HAZARDOUS SOLID WASTE ANALYSIS

Client:	Freemyer	Project #:	96070-3
Sample ID:	#1 Composite Tank Bottoms	Date Reported:	04-28-97
Lab ID#:	B177	Date Sampled:	04-26-97
Sample Matrix:	Solid	Date Received:	04-28-97
Preservative:	Cool	Date Analyzed:	04-28-97
Condition:	Cool & Intact	Chain of Custody:	5194

Parameter	Result	
IGNITABILITY:	**Negative**	
CORROSIVITY:	**Negative**	**pH = 4.57**
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: **Station #9 / Ciniza, Gallup Horse Shoe Field.**

Analyst

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ENVIROTECH LABS

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EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS

Client:	Freemyer	Project #:	96070-3
Sample ID:	#1 Composite Tank Bottoms	Date Reported:	04-30-97
Laboratory Number:	B177	Date Sampled:	04-26-97
Chain of Custody:	5194	Date Received:	04-28-97
Sample Matrix:	Solid	Date Extracted:	04-28-97
Preservative:	Cool	Date Analyzed:	04-30-97
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)	0.0214	0.0001	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	0.0144	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	97%
	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: **Station #9 / Ciniza, Gallup Horse Shoe Field.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8040
PHENOLS

Client:	Freemyer	Project #:	96070-3
Sample ID:	#1 Composite Tank Bottoms	Date Reported:	05-02-97
Laboratory Number:	B177	Date Sampled:	04-26-97
Chain of Custody:	5194	Date Received:	04-28-97
Sample Matrix:	Solid	Date Extracted:	04-28-97
Preservative:	Cool	Date Analyzed:	05-02-97
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	0.276	0.020	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	2-Fluorophenol	102%
	2,4,6-Tribromophenol	102%

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. 198

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

Comments: **Station #9 / Ciniza, Gallup Horse Shoe Field.**

Analyst

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ENVIROTECH LABS
PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	Freemyer	Project #:	96070-3
Sample ID:	#1 Composite Tank Bottoms	Date Reported:	05-02-97
Laboratory Number:	B177	Date Sampled:	04-26-97
Chain of Custody:	5194	Date Received:	04-28-97
Sample Matrix:	Solid	Date Extracted:	04-28-97
Preservative:	Cool	Date Analyzed:	05-02-97
Condition:	Cool and Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	**0.021**	**0.020**	**5.0**
Hexachloroethane	**0.098**	**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	**0.065**	**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: **Station #9 / Ciniza, Gallup Horse Shoe Field.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	Freemyer	Project #:	96070-3
Sample ID:	#1 Composite Tank Bottoms	Date Reported:	05-01-97
Laboratory Number:	B177	Date Sampled:	04-26-97
Chain of Custody:	5194	Date Received:	04-28-97
Sample Matrix:	Solid	Date Analyzed:	04-30-97
Preservative:	Cool	Date Extracted:	04-28-97
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
Arsenic	**ND**	**0.001**	**5.00**
Barium	**ND**	**0.01**	**100**
Cadmium	**ND**	**0.001**	**1.00**
Chromium	**ND**	**0.001**	**5.00**
Lead	**0.014**	**0.001**	**5.00**
Mercury	**ND**	**0.001**	**0.200**
Selenium	**ND**	**0.001**	**1.00**
Silver	**ND**	**0.001**	**5.0**

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

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

Comments: **Station #9 / Ciniza Gallup Horse Shoe Field.**

Dennis L. Ojeman
Analyst

Stacy W Sendler
Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

QUALITY ASSURANCE / QUALITY CONTROL DOCUMENTATION

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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:	Laboratory Blank	Date Reported:	04-30-97
Laboratory Number:	04-30-TCV.BLANK	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	04-30-97
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	97%
	Bromofluorobenzene	101%

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 B176 - B177.**

Analyst

Review

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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:	Method Blank	Date Reported:	04-30-97
Laboratory Number:	04-28-TCV.MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	04-30-97
Condition:	N/A	Date Extracted:	04-28-97
		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	101%

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 B176 - B177.**

Analyst

Review

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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 Duplicate	Date Reported:	04-30-97
Laboratory Number:	B176	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	04-30-97
Condition:	N/A	Date Extracted:	04-28-97

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)	0.0085	0.0085	0.0001	0.0%
Chloroform	ND	ND	0.0001	0.0%
Carbon Tetrachloride	ND	ND	0.0001	0.0%
Benzene	0.0057	0.0060	0.0001	5.3%
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 B176 - B177.**

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:	04-30-97
Laboratory Number:	B176	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	04-30-97
Condition:	N/A	Date Extracted:	04-28-97

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	0.0502	0.0001	100%	28-163
1,1-Dichloroethene	ND	0.050	0.0490	0.0001	98%	43-143
2-Butanone (MEK)	0.0085	0.050	0.0584	0.0001	100%	47-132
Chloroform	ND	0.050	0.0499	0.0001	100%	49-133
Carbon Tetrachloride	ND	0.050	0.0502	0.0001	100%	43-143
Benzene	0.0057	0.050	0.0549	0.0001	99%	39-150
1,2-Dichloroethane	ND	0.050	0.0493	0.0001	99%	51-147
Trichloroethene	ND	0.050	0.0500	0.0003	100%	35-146
Tetrachloroethene	ND	0.050	0.0488	0.0005	98%	26-162
Chlorobenzene	ND	0.050	0.0507	0.0003	101%	38-150
1,4-Dichlorobenzene	ND	0.050	0.0499	0.0002	100%	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 B176 - B177.**

Analyst

Review

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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:	05-02-97
Laboratory Number:	05-02-TCA.BLANK	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	05-02-97
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	97 %

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

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

Method 8040, Phenols, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1

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

Comments: **QA/QC for samples B176 - B177.**

Analyst

Review

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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:	05-02-97
Laboratory Number:	04-28-TCA.MB	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	Cool	Date Extracted:	04-28-97
Condition:	Cool & Intact	Date Analyzed:	05-02-97
		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	102%
	2,4,6-Tribromophenol	98%

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

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

Method 8040, Phenols, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1

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

Comments: **QA/QC for samples B176 - B177.**

Analyst

Review

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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:	05-02-97
Laboratory Number:	B176	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	Cool	Date Extracted:	04-28-97
Condition:	Cool & Intact	Date Analyzed:	05-02-97
		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	0.094	0.092	0.020	2.5%
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. 19

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

Comments: **QA/QC for samples B176 - B177.**

Analyst

Review

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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:	05-02-97
Laboratory Number:	05-02-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:	05-02-97
		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	**102%**

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 B176 - B177.**

Analyst

Review

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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:	05-02-97
Laboratory Number:	04-28-TBN.MB	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	Cool	Date Extracted:	04-28-97
Condition:	Cool and Intact	Date Analyzed:	05-02-97
		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 B176 - B177.**

Analyst

Review

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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:	05-02-97
Laboratory Number:	B176	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Extracted:	04-28-97
Condition:	N/A	Date Analyzed:	05-02-97
		Analysis Requested:	TCLP

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Percent Difference	Det. Limit (mg/L)
Pyridine	**0.022**	**0.022**	**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	**0.095**	**0.094**	**1.0%**	**0.020**
HexachloroBenzene	**0.026**	**0.025**	**5.3%**	**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 B176 - B177.**

Analyst

Review

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ENVIROTECH LABS
PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Blanks	Date Reported:	05-01-97
Laboratory Number:	N/A	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	04-30-97
Condition:	N/A	Date Extracted:	N/A

Parameter	Instrument Blank (mg/L)	Method Blank (mg/L)	Det. Limit (mg/L)
Arsenic	**ND**	**ND**	**0.001**
Barium	**ND**	**ND**	**0.01**
Cadmium	**ND**	**ND**	**0.001**
Chromium	**ND**	**ND**	**0.001**
Lead	**ND**	**ND**	**0.001**
Mercury	**ND**	**ND**	**0.001**
Selenium	**ND**	**ND**	**0.001**
Silver	**ND**	**ND**	**0.001**

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

Comments: **QA/QC for samples B176, B177 and B183.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	05-01-97
Laboratory Number:	B176	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	04-30-97
Condition:	N/A	Date Extracted:	04-28-97

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Percent Difference
Arsenic	**ND**	**ND**	**0.0%**
Barium	**0.43**	**0.42**	**2.4%**
Cadmium	**0.094**	**0.092**	**2.2%**
Chromium	**ND**	**ND**	**0.0%**
Lead	**0.168**	**0.164**	**2.4%**
Mercury	**ND**	**ND**	**0.0%**
Selenium	**ND**	**ND**	**0.0%**
Silver	**ND**	**ND**	**0.0%**

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Maximum Difference
	Trace Metals	**30 %**

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

Comments: **QA/QC for samples B176, B177 and B183.**

Analyst

Review

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ENVIROTECH LABS
PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Spike	Date Reported:	05-01-97
Laboratory Number:	B176	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	04-30-97
Condition:	N/A	Date Extracted:	04-28-97

Parameter	Spike Added (mg/L)	Sample Result (mg/L)	Spiked Sample Result (mg/L)	Percent Recovery
Arsenic	**0.100**	**ND**	**0.099**	**99%**
Barium	**1.00**	**0.43**	**1.42**	**99%**
Cadmium	**0.050**	**0.094**	**0.142**	**99%**
Chromium	**0.050**	**ND**	**0.049**	**98%**
Lead	**0.100**	**0.168**	**0.263**	**98%**
Mercury	**0.025**	**ND**	**0.024**	**96%**
Selenium	**0.100**	**ND**	**0.099**	**99%**
Silver	**0.050**	**ND**	**0.051**	**102%**

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Acceptance Range %
	TCLP Metals	**80 - 120 %**

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

Comments: **QA/QC for samples B176, B177 and B183.**

Analyst

Stacy W Sendler
Review

5796 U.S. Highway 64-3014 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

CHAIN OF CUSTODY RECORD

Client/Project Name: FREEMYER 96070-3

Project Location: STATION #9/CINIZA GALLUP HORSE SHOE FIELD

Sampler: (Signature) Morris D. Young

Chain of Custody Tape No.

ANALYSIS/PARAMETERS

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TCLP 1,2,C HP						Remarks
#1 Composite TANK Bottoms	4/26/97	1236	B177	SOLID	2	✓						

Samples received cool & intact
Dcity

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Morris D. Young	4/28/97	9:38	[illegible]	4-28-97	9:38
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

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

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
1000 Rio Brazos Road
Aztec, 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: 96003-

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: [X] Non-Exempt: [ ]	4. Generator E.P.F.S
Verbal Approval Received: Yes [ ] No [X]	5. Originating Site Lat 2C Pipeline
2. Management Facility Destination Envirotech Soil RemediationFac. Landfarm #2	6. Transporter Philip Env.
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	Sec 36, T26N, R8W.

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 w/ exempt petroleum Hydrocarbons (Natural Gas pipeline; gathering)

RECEIVED
MAY 28 1997
OIL CON. DIV.
DIST. 3

Estimated Volume 20 cy Known Volume (to be entered by the operator at the end of the haul) 74 cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 5-28-97
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. Foust TITLE: Geologist DATE: 5/28/97

APPROVED BY: Ernie Busch TITLE: " DATE: "

ENVIROTECH INC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

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

CERTIFICATE OF WASTE STATUS
OILFIELD EXEMPT WASTE

Originating Location: Lateral 2C

Source: Leak from pipeline Sec. 36, Tw 26, Rg 08

Disposal Location: Land Farm #2

"As a condition of acceptance for disposal, I hereby certify that this waste is an oilfield production exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. Additionally, to my knowledge, no non-exempt waste that is a "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has been added or mixed with the exempt waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, section 261.3(b)."

I, the undersigned as the agent for the E.P.F.S. concur with the status of the waste from the subject site.

Name Ricky D. Cosby

Title/Agency Compliance Specialist

Address P.O. Box 4990
Farmington, New Mexico

Signature Ricky D. Cosby

Date 05/20/97

strict I - (505) 393-6161
O. Box 1980
bbs, NM 88241-1980
strict II - (505) 748-1283
1 S. First
tesia, NM 88210
strict III - (505) 334-6178
Rio Brazos Road
c, NM 87410
strict 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: ☐ Non-Exempt: ☒	4. Generator Dowell Schlumberger
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Main Yard Bulk Plant
2. Management Facility Destination Envirotech Soil RemediationFac Landfarm #2	6. Transporter Envirotech
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	3106 Bloomfield Hwy. Farmington, New Mexico 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:

New diesel - guaur gum gel slurry spilled near bulk plant mixing area - TRADE Name - PSG Polymer Slurry J877
M.S.D.S Attached

RECEIVED
JUN - 2 1997
OIL CON. DIV.
DIST. 3

RECEIVED
MAY 2 8 1997
OIL CON. DIV.
DIST. 3

Estimated Volume 2 drums cy Known Volume (to be entered by the operator at the end of the haul) 7 drums cy

SIGNATURE: Harlan M Brown TITLE: Landfarm Manager DATE: 5-21-97
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. Foust TITLE: Geologist DATE: 5/28/97

APPROVED BY: [signature] TITLE: Bureau Chief DATE: 5/30/97

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
Aztec, 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: ☐ Non-Exempt: ☒	4. Generator Dowell Schlumberger
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Main Yard Bulk Plant
2. Management Facility Destination Envirotech Soil RemediationFac. Landfarm #2	6. Transporter Envirotech
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	3106 Bloomfield Hwy. Farmington, New Mexico 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:

New diesel - guaur gum gel slurry spilled near bulk plant mixing area - TRADEFLOW - PSG Polymer Slurry J877
M.S.D.S Attached

RECEIVED
MAY 28 1997
OIL CON. DIV.
DIST. 3

Estimated Volume 2 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: 5-21-97
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: 5/28/97

APPROVED BY: _____ TITLE: _____ DATE: _____

Generator Dowell Schlumberger

CERTIFICATE OF WASTE STATUS
OILFIELD NON-EXEMPT WASTE MATERIAL

Originating Location: 3106 Bloomfield Hwy, Farmington, N.M. 87401

Source: Spill of PSG Slurry 1877 ; Diesel Guar-Gum Mix

Disposal Location: Envirotech Soil Remediation Facility, (NMED) Hilltop, New Mexico

"As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt oilfield production waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, to verify the nature as non-hazardous. I further certify that to my knowledge no "hazardous or listed waste" pursuant to the provisions of 40 CFR, part 261, Subparts C and D, has been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, section 261.3(b)."

I, the undersigned, as the agent for Dowell - Schlumberger concur with the status of the waste from the subject site.

Name Butch Jensen
Title/Agency Bulk Plant

Address 3106 Bloomfield Hwy
Farmington New Mexico 87401

Signature Butch Jensen

Date 5-21-97

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632 1865

NORTH AMERICA MATERIAL SAFETY DATA SHEET

Dowell Schlumberger
P. O. Box 2710, Tulsa, Oklahoma 74101

Emergency Phone:
918-582-0104

CHEMICAL CODE: J877
PRODUCT NAME: PSG POLYMER SLURRY J877

EFFECTIVE DATE: 14 AUG 90 PREPARED BY: W. W. SHEPHERD

HMIS RATING:
Health 0 Flammability 2 Reactivity 0

HAZARDOUS INGREDIENTS:	CAS NUMBER
PROPRIETARY HIGH MOLECULAR WEIGHT ORGANIC POLYMERS IN DIESEL OIL	068476-34-6

SECTION 1 - PHYSICAL PROPERTIES:

Chemical Nature: Polymer
Form: Slurry
Color: Amber
Odor: Diesel
Vap.Density: >1
%Sol. In Water: Insoluble
pH: Not determined
Sp. Gravity: 1.06
Pour Point: Not determined
Boiling Pt.: 350-650 deg F (177-343 C)
Vap.Pressure: <1 mmHg @ 20 deg C (% Volatile: <50 68 F)
Viscosity: Not determined
Bulk Density: Not determined

SECTION 2 - FIRE AND EXPLOSION HAZARDS:

Flash Point: 140 F (60 C) Method Used: Tag closed cup
Ignition Temperature: Not determined
Explosion Limits in Air - Lower: 0.4 Upper: 2.6
Extinguishing Media: Water Fog, Alcohol Foam, CO2, Dry Chemical
Special Fire Fighting Equipment and Hazards:
Wear protective fire fighting clothing and avoid breathing vapors. Use self-contained breathing apparatus in closed areas. Autoignition temperature - 494 deg F (256 deg C).

SECTION 3 - REACTIVITY HAZARDS:

Stability: Stable
Incompatibility: Oxidizing materials.
Hazardous Decomposition:
When heated strongly or burned, oxides of carbon and harmful organic chemical fumes are released.
Hazardous Polymerization: Will not occur.

SECTION 4 - FIRST AID PROCEDURES:

Eye Contact:	Immediately flush eyes with water for 15 minutes while holding eyelids open. See a doctor at once.
Skin Contact:	Wash thoroughly with soap and water. See a doctor if irritation occurs. Wash clothes thoroughly before reusing.
Swallowing:	DO NOT induce vomiting. Give activated charcoal in water (preferred), take to hospital at once. If charcoal unavailable, give 2 glasses of milk (preferred) or water and take to hospital at once.
Inhalation:	Remove to fresh air. See a doctor if effects occur.
Notes:	None

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
1000 Rio Brazos Road
Aztec, 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: 95008

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator TIDEWATER
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site WASH BAY
2. Management Facility Destination Envirotech Soil RemediationFac Landfarm #2	6. Transporter TBA.
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	1125 US HWY 550 AZTEC, N.M.

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:

Wash Bay - Solids
TCLP ATTACHED.

RECEIVED
MAY - 8 1997
OIL CON. DIV.
DIST. 3

RECEIVED
JUN - 2 1997
OIL CON. DIV.
DIST. 3

Estimated Volume 15 cy Known Volume (to be entered by the operator at the end of the haul) 36.4 drums of sludge cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 5-7-97
Waste Management FacilityAuthorized 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: 5/12/97

APPROVED BY: R. Chavez TITLE: Bureau Chief DATE: 5/19/97

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
1000 Rio Brazos Road
Aztec, 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: 95008

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator TIDEWATER
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site WASH BAY
2. Management Facility Destination Envirotech Soil RemediationFac. Landfarm #2	6. Transporter TBA.
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	1125 US HWY 550 AZTEC, 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:

Wash Bay - Solids

TCLP ATTACHED.

RECEIVED
MAY - 8 1997
OIL CON. DIV.
DIST. 3

Estimated Volume 15 cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Harlan M. Brown
Waste Management Facility Authorized Agent

TITLE: Landfarm Manager DATE: 5-7-97

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. (505)632-0615

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 5/12/97

APPROVED BY: _____ TITLE: _____ DATE: _____

Generator: Tidewater Compression Services

CERTIFICATE OF WASTE STATUS
OILFIELD NON-EXEMPT WASTE MATERIAL

Originating Location: 1125 US. Hwy 550, Aztec, NM.

Source: Wash Bay Solids

Disposal Location: Envirotech Soil Remediation Facility, (NMED) Hilltop, New Mexico

"As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt oilfield production waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, to verify the nature as non-hazardous. I further certify that to my knowledge no "hazardous or listed waste" pursuant to the provisions of 40 CFR, part 261, Subparts C and D, has been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, section 261.3(b)."

I, the undersigned, as the agent for Tidewater Compression concur with the status of the waste from the subject site.

Name James Woods
Title/Agency Regional Supervisor
Address 1125 US Hwy 550
Aztec NM 87410
Signature J. M. Woods
Date 5-8-97

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April 29, 1997

Mr. Jim Woods
Tidewater Compression Services, Inc. (505) 334-6713
P.O. Box 280
Flora Vista, New Mexico 87415

Project No.: 95008

Dear Mr. Woods,

Enclosed are the analytical results for the sample collected from the location designated as "1125 U.S. Highway 550 - Wash Bay Solids". One sludge sample was collected from the designated location and delivered to the Envirotech laboratory on 04/14/97 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. 5192 and assigned Laboratory No. B132 for tracking purposes. The sample was extracted on 04/16/97 and analyzed on 04/16/97 - 04/22/97 using USEPA or equivalent methods.

Results of the analysis indicate that the material from the designated location is not a characteristic hazardous waste as defined by 40 CFR, Section 261, Subpart C for the noted compounds.

Should you have any questions or require additional information, please do not hesitate to contact us at (505) 632-0615. It is always a pleasure doing business with you.

Respectfully submitted,
Envirotech, Inc.

Stacy W. Sendler

Stacy W. Sendler
Environmental Scientist/Laboratory Manager

enc.

SWS\sws 95008lb5.wpd

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

SUSPECTED HAZARDOUS SOLID WASTE ANALYSIS

Client:	Tidewater Compression	Project #:	95008
Sample ID:	Wash Bay Solids	Date Reported:	04-23-97
Lab ID#:	B132	Date Sampled:	04-14-97
Sample Matrix:	Sludge	Date Received:	04-14-97
Preservative:	Cool	Date Analyzed:	04-16-97
Condition:	Cool & Intact	Chain of Custody:	5192

Parameter	Result	
IGNITABILITY:	**Negative**	
CORROSIVITY:	**Negative**	**pH = 6.71**
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: **1125 US Hwy 550.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS

Client:	Tidewater Compression	Project #:	95008
Sample ID:	Wash Bay Solids	Date Reported:	04-23-97
Laboratory Number:	B132	Date Sampled:	04-14-97
Chain of Custody:	5192	Date Received:	04-14-97
Sample Matrix:	Sludge	Date Extracted:	04-16-97
Preservative:	Cool	Date Analyzed:	04-22-97
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	0.0003	7.5

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery
	Trifluorotoluene	98%
	Bromofluorobenzene	101%

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: **1125 US Hwy 550.**

Analyst

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ENVIROTECH LABS
PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8040
PHENOLS

Client:	Tidewater Compression	Project #:	95008
Sample ID:	Wash Bay Solids	Date Reported:	04-23-97
Laboratory Number:	B132	Date Sampled:	04-14-97
Chain of Custody:	5192	Date Received:	04-14-97
Sample Matrix:	Sludge	Date Extracted:	04-16-97
Preservative:	Cool	Date Analyzed:	04-22-97
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	0.023	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	2-Fluorophenol	101%
	2,4,6-Tribromophenol	101%

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. 198

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

Comments: **1125 US Hwy. 550.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	Tidewater Compression	Project #:	95008
Sample ID:	Wash Bay Solids	Date Reported:	04-23-97
Laboratory Number:	B132	Date Sampled:	04-14-97
Chain of Custody:	5192	Date Received:	04-14-97
Sample Matrix:	Sludge	Date Extracted:	04-16-97
Preservative:	Cool	Date Analyzed:	04-22-97
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: **1125 US Hwy. 550.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	Tidewater Compression	Project #:	95008
Sample ID:	Wash Bay Solids	Date Reported:	04-21-97
Laboratory Number:	B132	Date Sampled:	04-14-97
Chain of Custody:	5192	Date Received:	04-14-97
Sample Matrix:	Sludge	Date Analyzed:	04-21-97
Preservative:	Cool	Date Extracted:	04-16-97
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
Arsenic	**ND**	**0.001**	**5.00**
Barium	**3.12**	**0.01**	**100**
Cadmium	**0.057**	**0.001**	**1.00**
Chromium	**0.003**	**0.001**	**5.00**
Lead	**0.042**	**0.001**	**5.00**
Mercury	**ND**	**0.001**	**0.200**
Selenium	**ND**	**0.001**	**1.00**
Silver	**ND**	**0.001**	**5.0**

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

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

Comments: **1125 US Hwy. 550.**

Dean L. Ajeneu
Analyst

Stacy W Sendlar
Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

QUALITY ASSURANCE / QUALITY CONTROL DOCUMENTATION

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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:	Laboratory Blank	Date Reported:	04-23-97
Laboratory Number:	04-22-TCV.BLANK	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	04-22-97
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	0.0003	7.5

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery
	Trifluorotoluene	98%
	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 B132, B137, B138 and B147.**

Analyst

Review

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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:	Method Blank	Date Reported:	04-23-97
Laboratory Number:	04-16-TCV.MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	04-22-97
Condition:	N/A	Date Extracted:	04-16-97
		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	0.0003	7.5

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery
	Trifluorotoluene	99%
	Bromofluorobenzene	101%

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 B132, B137, B138 and B147.**

Analyst

Review

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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 Duplicate	Date Reported:	04-23-97
Laboratory Number:	B132	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	04-22-97
Condition:	N/A	Date Extracted:	04-16-97

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	0.0003	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 B132, B137, B138 and B147.**

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:	04-23-97
Laboratory Number:	B132	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	04-22-97
Condition:	N/A	Date Extracted:	04-16-97

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	0.0497	0.0001	97%	28-163
1,1-Dichloroethene	ND	0.050	0.0491	0.0001	98%	43-143
2-Butanone (MEK)	ND	0.050	0.0498	0.0001	100%	47-132
Chloroform	ND	0.050	0.0496	0.0001	99%	49-133
Carbon Tetrachloride	ND	0.050	0.0511	0.0001	100%	43-143
Benzene	ND	0.050	0.0491	0.0001	98%	39-150
1,2-Dichloroethane	ND	0.050	0.0502	0.0001	100%	51-147
Trichloroethene	ND	0.050	0.0486	0.0003	97%	35-146
Tetrachloroethene	ND	0.050	0.0497	0.0005	99%	26-162
Chlorobenzene	ND	0.050	0.0490	0.0003	98%	38-150
1,4-Dichlorobenzene	ND	0.050	0.0489	0.0003	96%	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 B132, B137, B138 and B147.**

Analyst

Review

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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:	04-23-97
Laboratory Number:	04-22-TCA.BLANK	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	04-22-97
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	0.023	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	2-fluorophenol	98 %
	2,4,6-tribromophenol	97 %

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. 198

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

Comments: **QA/QC for samples B132, B137, B138 and B147.**

Analyst

Review

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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:	04-23-97
Laboratory Number:	04-16-TCA.MB	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	Cool	Date Extracted:	04-16-97
Condition:	Cool & Intact	Date Analyzed:	04-22-97
		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	0.023	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	2-Fluorophenol	100%
	2,4,6-Tribromophenol	97%

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. 198

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

Comments: **QA/QC for samples B132, B137, B138 and B147.**

Analyst

Review

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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:	04-23-97
Laboratory Number:	B132	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	Cool	Date Extracted:	04-16-97
Condition:	Cool & Intact	Date Analyzed:	04-22-97
		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	0.023	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 B132, B137, B138 and B147.**

Analyst

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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:	04-23-97
Laboratory Number:	04-22-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:	04-22-97
		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 samples B132, B137, B138 and B147.**

Analyst

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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:	04-23-97
Laboratory Number:	04-16-TBN.MB	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	Cool	Date Extracted:	04-16-97
Condition:	Cool and Intact	Date Analyzed:	04-22-97
		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: **QA/QC for samples B132, B137, B138 and B147.**

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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:	04-23-97
Laboratory Number:	B132	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Extracted:	04-16-97
Condition:	N/A	Date Analyzed:	04-22-97
		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 B132, B137, B138 and B147.**

Dean L. Spencer
Analyst

Stacy W Sendler
Review

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Blanks	Date Reported:	04-21-97
Laboratory Number:	N/A	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	04-21-97
Condition:	N/A	Date Extracted:	N/A

Parameter	Instrument Blank (mg/L)	Method Blank (mg/L)	Det. Limit (mg/L)
Arsenic	**ND**	**ND**	**0.001**
Barium	**ND**	**ND**	**0.01**
Cadmium	**ND**	**ND**	**0.001**
Chromium	**ND**	**ND**	**0.001**
Lead	**ND**	**ND**	**0.001**
Mercury	**ND**	**ND**	**0.001**
Selenium	**ND**	**ND**	**0.001**
Silver	**ND**	**ND**	**0.001**

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

Comments: **QA/QC for samples B132, B134, B135, B137, B138 and B147**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	04-21-97
Laboratory Number:	B132	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	04-21-97
Condition:	N/A	Date Extracted:	04-16-97

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Percent Difference
Arsenic	**ND**	**ND**	**0.0%**
Barium	**3.12**	**3.11**	**0.3%**
Cadmium	**0.057**	**0.056**	**1.8%**
Chromium	**0.003**	**0.003**	**0.0%**
Lead	**0.042**	**0.042**	**0.0%**
Mercury	**ND**	**ND**	**0.0%**
Selenium	**ND**	**ND**	**0.0%**
Silver	**ND**	**ND**	**0.0%**

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Maximum Difference
	Trace Metals	**30 %**

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

Comments: **QA/QC for samples B132, B134, B135, B137, B138 and B147**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Spike	Date Reported:	04-21-97
Laboratory Number:	B132	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	04-21-97
Condition:	N/A	Date Extracted:	04-16-97

Parameter	Spike Added (mg/L)	Sample Result (mg/L)	Spiked Sample Result (mg/L)	Percent Recovery
Arsenic	**0.100**	**ND**	**0.099**	**99%**
Barium	**1.00**	**3.12**	**4.13**	**100%**
Cadmium	**0.050**	**0.057**	**0.106**	**99%**
Chromium	**0.050**	**0.003**	**0.053**	**100%**
Lead	**0.100**	**0.042**	**0.142**	**100%**
Mercury	**0.025**	**ND**	**0.025**	**100%**
Selenium	**0.100**	**ND**	**0.099**	**99%**
Silver	**0.050**	**ND**	**0.050**	**100%**

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Acceptance Range %
	TCLP Metals	**80 - 120 %**

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

Comments: **QA/QC for samples B132, B134, B135, B137, B138 and B147**

Analyst

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CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location	ANALYSIS/PARAMETERS
Tidewater Compression	1125 US HWY 550	
Sampler: (Signature) Harlan M Brown	Chain of Custody Tape No. 95008	

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TCLP w/o H.P.						Remarks
Lubbay Solids	4.14.97	10:45	B132	Sludge	1							

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Harlan M Brown	4.14.97	11:15	[illegible]	4-14-97	11:15
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

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

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
1000 Rio Brazos Road
Aztec, 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: 95008

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Tidewater
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Various oilfield Locations
2. Management Facility Destination Envirotech Soil RemediationFac Landfarm #2	6. Transporter TBA.
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico.
7. Location of Material (Street Address or ULSTR)	Various oilfield & Nat. gas production Locations.

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 collected in drums at Tidewater yard, @ 1125 U.S. Hwy 550, Aztec, NM.
Petroleum Hydrocarbons contaminated soil cleaned up @ various locations. Contamination resulted from spills or releases during routine maintenance or repair of compressors and related equipment.

RECEIVED MAY - 8 1997 OIL CON. DIV. DIST. 3

RECEIVED JUN - 2 1997 OIL CON. DIV. DIST. 3

Estimated Volume 7 drums cy Known Volume (to be entered by the operator at the end of the haul) 7 drums cy

SIGNATURE: Harlan M Brown TITLE: Landfarm Manager DATE: 5-7-97
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. Foust TITLE: Geologist DATE: 5/12/97

APPROVED BY: R Chavez TITLE: Bureau Chief DATE: 5/19/97

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
1000 Rio Brazos Road
Aztec, 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: 95008

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Tidewater
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Various oilfield Locations
2. Management Facility Destination Envirotech Soil RemediationFac. Landfarm #2	6. Transporter TBA.
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico.
7. Location of Material (Street Address or ULSTR)	Various oilfield & Nat. gas production Locations.

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 collected in drums at Tidewater yard, @ 1125 U.S. Hwy 550, Aztec, NM.
Petroleum Hydrocarbons contaminated soil cleaned up @ various locations. Contamination resulted from spills or releases during routine maintenance or repair of compressors and related equipment.

RECEIVED
MAY - 8 1997
OIL CON. DIV.
DIST. 3

Estimated Volume 7 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: 5-7-97
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. Foust TITLE: Geologist DATE: 5/12/97

APPROVED BY: _____ TITLE: _____ DATE: _____

Generator: Tidewater Compression Services.

CERTIFICATE OF WASTE STATUS
OILFIELD NON-EXEMPT WASTE MATERIAL

Originating Location: Various oilfield locations

Source: Cleanup of releases associated with Compressor Maintenance & repair.

Disposal Location: **Envirotech Soil Remediation Facility, (NMED)**
Hilltop, New Mexico

"As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt oilfield production waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, to verify the nature as non-hazardous. I further certify that to my knowledge no "hazardous or listed waste" pursuant to the provisions of 40 CFR, part 261, Subparts C and D, has been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, section 261.3(b)."

I, the undersigned, as the agent for Tidewater Compression concur with the status of the waste from the subject site.

Name James Woods
Title/Agency Regional Supervisor
Address 1125 US Hwy 550
Aztec NM 87410
Signature J.M. Wood
Date 5-8-97

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

April 29, 1997

Mr. Jim Woods
Tidewater Compression Services, Inc.
P.O. Box 280
Flora Vista, New Mexico 87415

(505) 334-6713

Project No.: 95008

Dear Mr. Woods,

Enclosed are the analytical results for the sample collected from the location designated as "1125 U.S. Highway 550 - Soil Field Cleanups, 7 barrels". One soil sample was collected from the designated location and delivered to the Envirotech laboratory on 04/16/97 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. 5200 and assigned Laboratory No. B147 for tracking purposes. The sample was extracted on 04/17/97 and analyzed on 04/17/97 - 04/22/97 using USEPA or equivalent methods.

Results of the analysis indicate that the material from the designated location is not a characteristic hazardous waste as defined by 40 CFR, Section 261, Subpart C for the noted compounds.

Should you have any questions or require additional information, please do not hesitate to contact us at (505) 632-0615. It is always a pleasure doing business with you.

Respectfully submitted,
Envirotech, Inc.

Stacy W. Sendler

Stacy W. Sendler
Environmental Scientist/Laboratory Manager

enc.

SWS\sws

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

SUSPECTED HAZARDOUS SOLID WASTE ANALYSIS

Client:	Tidewater Compression	Project #:	95008
Sample ID:	Soil - Field Clean Ups	Date Reported:	04-23-97
Lab ID#:	B147	Date Sampled:	04-16-97
Sample Matrix:	Soil	Date Received:	04-16-97
Preservative:	Cool	Date Analyzed:	04-17-97
Condition:	Cool & Intact	Chain of Custody:	5200

Parameter	Result	
IGNITABILITY:	**Negative**	
CORROSIVITY:	**Negative**	**pH = 7.52**
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: **1125 US Hwy 550. 7 Barrels.**

Dean L. Ofman
Analyst

Stacy W Sendler
Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS

Client:	Tidewater Compression	Project #:	95008
Sample ID:	Soil - Field Clean Ups	Date Reported:	04-23-97
Laboratory Number:	B147	Date Sampled:	04-16-97
Chain of Custody:	5200	Date Received:	04-16-97
Sample Matrix:	Soil	Date Extracted:	04-17-97
Preservative:	Cool	Date Analyzed:	04-22-97
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	0.0003	7.5

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery
	Trifluorotoluene	98%
	Bromofluorobenzene	101%

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: **1125 US Hwy 550. 7 Barrels.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8040
PHENOLS

Client:	Tidewater Compression	Project #:	95008
Sample ID:	Soil-Field Clean Up	Date Reported:	04-23-97
Laboratory Number:	B147	Date Sampled:	04-16-97
Chain of Custody:	5200	Date Received:	04-16-97
Sample Matrix:	Soil	Date Extracted:	04-17-97
Preservative:	Cool	Date Analyzed:	04-22-97
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	0.023	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	2-Fluorophenol	101%
	2,4,6-Tribromophenol	101%

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. 198

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

Comments: **1125 US Hwy. 550. 7 Barrels.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	Tidewater Compression	Project #:	95008
Sample ID:	Soil-Field Clean Ups	Date Reported:	04-23-97
Laboratory Number:	B147	Date Sampled:	04-16-97
Chain of Custody:	5200	Date Received:	04-16-97
Sample Matrix:	Soil	Date Extracted:	04-17-97
Preservative:	Cool	Date Analyzed:	04-22-97
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: **1125 US Hwy. 550. 7 Barrels.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	Tidewater Compression	Project #:	95008
Sample ID:	Soil - Field Clean Ups	Date Reported:	04-21-97
Laboratory Number:	B147	Date Sampled:	04-16-97
Chain of Custody:	5200	Date Received:	04-16-97
Sample Matrix:	Soil	Date Analyzed:	04-21-97
Preservative:	Cool	Date Extracted:	04-17-97
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
Arsenic	**ND**	**0.001**	**5.00**
Barium	**ND**	**0.01**	**100**
Cadmium	**0.093**	**0.001**	**1.00**
Chromium	**0.001**	**0.001**	**5.00**
Lead	**0.006**	**0.001**	**5.00**
Mercury	**ND**	**0.001**	**0.200**
Selenium	**ND**	**0.001**	**1.00**
Silver	**ND**	**0.001**	**5.0**

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

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

Comments: **1125 US Hwy. 550. 7 Barrels.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

QUALITY ASSURANCE / QUALITY CONTROL DOCUMENTATION

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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:	Laboratory Blank	Date Reported:	04-23-97
Laboratory Number:	04-22-TCV.BLANK	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	04-22-97
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	0.0003	7.5

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery
	Trifluorotoluene	98%
	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 B132, B137, B138 and B147.**

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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:	Method Blank	Date Reported:	04-23-97
Laboratory Number:	04-16-TCV.MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	04-22-97
Condition:	N/A	Date Extracted:	04-16-97
		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	0.0003	7.5

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery
	Trifluorotoluene	99%
	Bromofluorobenzene	101%

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 B132, B137, B138 and B147.**

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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 Duplicate	Date Reported:	04-23-97
Laboratory Number:	B132	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	04-22-97
Condition:	N/A	Date Extracted:	04-16-97

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	0.0003	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 B132, B137, B138 and B147.**

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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:	04-23-97
Laboratory Number:	B132	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	04-22-97
Condition:	N/A	Date Extracted:	04-16-97

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	0.0497	0.0001	97%	28-163
1,1-Dichloroethene	ND	0.050	0.0491	0.0001	98%	43-143
2-Butanone (MEK)	ND	0.050	0.0498	0.0001	100%	47-132
Chloroform	ND	0.050	0.0496	0.0001	99%	49-133
Carbon Tetrachloride	ND	0.050	0.0511	0.0001	100%	43-143
Benzene	ND	0.050	0.0491	0.0001	98%	39-150
1,2-Dichloroethane	ND	0.050	0.0502	0.0001	100%	51-147
Trichloroethene	ND	0.050	0.0486	0.0003	97%	35-146
Tetrachloroethene	ND	0.050	0.0497	0.0005	99%	26-162
Chlorobenzene	ND	0.050	0.0490	0.0003	98%	38-150
1,4-Dichlorobenzene	ND	0.050	0.0489	0.0003	96%	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 B132, B137, B138 and B147.**

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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:	04-23-97
Laboratory Number:	04-22-TCA.BLANK	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	04-22-97
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	0.023	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	2-fluorophenol	98 %
	2,4,6-tribromophenol	97 %

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. 198

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

Comments: **QA/QC for samples B132, B137, B138 and B147.**

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:	04-23-97
Laboratory Number:	04-16-TCA.MB	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	Cool	Date Extracted:	04-16-97
Condition:	Cool & Intact	Date Analyzed:	04-22-97
		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	0.023	100

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	2-Fluorophenol	100%
	2,4,6-Tribromophenol	97%

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. 198

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

Comments: **QA/QC for samples B132, B137, B138 and B147.**

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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:	04-23-97
Laboratory Number:	B132	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	Cool	Date Extracted:	04-16-97
Condition:	Cool & Intact	Date Analyzed:	04-22-97
		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	0.023	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 B132, B137, B138 and B147.**

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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:	04-23-97
Laboratory Number:	04-22-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:	04-22-97
		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 samples B132, B137, B138 and B147.**

Analyst

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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:	04-23-97
Laboratory Number:	04-16-TBN.MB	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	Cool	Date Extracted:	04-16-97
Condition:	Cool and Intact	Date Analyzed:	04-22-97
		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: **QA/QC for samples B132, B137, B138 and B147.**

Analyst

Review

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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:	04-23-97
Laboratory Number:	B132	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Extracted:	04-16-97
Condition:	N/A	Date Analyzed:	04-22-97
		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 B132, B137, B138 and B147.**

Analyst

Review

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ENVIROTECH LABS
PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Blanks	Date Reported:	04-21-97
Laboratory Number:	N/A	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	04-21-97
Condition:	N/A	Date Extracted:	N/A

Parameter	Instrument Blank (mg/L)	Method Blank (mg/L)	Det. Limit (mg/L)
Arsenic	**ND**	**ND**	**0.001**
Barium	**ND**	**ND**	**0.01**
Cadmium	**ND**	**ND**	**0.001**
Chromium	**ND**	**ND**	**0.001**
Lead	**ND**	**ND**	**0.001**
Mercury	**ND**	**ND**	**0.001**
Selenium	**ND**	**ND**	**0.001**
Silver	**ND**	**ND**	**0.001**

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

Comments: **QA/QC for samples B132, B134, B135, B137, B138 and B147**

Dean L. Ofeson
Analyst

Stacy W Sendler
Review

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ENVIROTECH LABS
PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	04-21-97
Laboratory Number:	B132	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	04-21-97
Condition:	N/A	Date Extracted:	04-16-97

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Percent Difference
Arsenic	**ND**	**ND**	**0.0%**
Barium	**3.12**	**3.11**	**0.3%**
Cadmium	**0.057**	**0.056**	**1.8%**
Chromium	**0.003**	**0.003**	**0.0%**
Lead	**0.042**	**0.042**	**0.0%**
Mercury	**ND**	**ND**	**0.0%**
Selenium	**ND**	**ND**	**0.0%**
Silver	**ND**	**ND**	**0.0%**

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Maximum Difference
	Trace Metals	**30 %**

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

Comments: **QA/QC for samples B132, B134, B135, B137, B138 and B147**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Spike	Date Reported:	04-21-97
Laboratory Number:	B132	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	04-21-97
Condition:	N/A	Date Extracted:	04-16-97

Parameter	Spike Added (mg/L)	Sample Result (mg/L)	Spiked Sample Result (mg/L)	Percent Recovery
Arsenic	**0.100**	**ND**	**0.099**	**99%**
Barium	**1.00**	**3.12**	**4.13**	**100%**
Cadmium	**0.050**	**0.057**	**0.106**	**99%**
Chromium	**0.050**	**0.003**	**0.053**	**100%**
Lead	**0.100**	**0.042**	**0.142**	**100%**
Mercury	**0.025**	**ND**	**0.025**	**100%**
Selenium	**0.100**	**ND**	**0.099**	**99%**
Silver	**0.050**	**ND**	**0.050**	**100%**

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Acceptance Range %
	TCLP Metals	**80 - 120 %**

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

Comments: **QA/QC for samples B132, B134, B135, B137, B138 and B147**

Analyst

Review

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CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location	ANALYSIS/PARAMETERS
TIDEWATER Compression Serv.	1125 US HWY 550	
Sampler: (Signature) Harlan M Brown	Chain of Custody Tape No. 95008	

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TCLP w/o HEP						Remarks
il-Field Cleanups	4.16.97	13:05	B147	Soil	1	✓						7 barrels
					Sample received cool & Intact							

nquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Harlan M Brown	4.16.97	13:45	[illegible]	4-16-97	13:45
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

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

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
1000 Rio Brazos Road
Aztec, 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: 96052-02

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☒ Non-Exempt: ☐ DF. 5-12-97 13:30	4. Generator Phillips Petroleum
Verbal Approval Received: Yes ☒ No ☐	5. Originating Site SWD #301
2. Management Facility Destination Envirotech Soil RemediationFac. Landfarm #2	6. Transporter Dawson Trucking
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	T29N, R6W, #301 SWD.

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:

Basic Sediments, water, scale & sludge from Tanks @ an injection facility.

RECEIVED
MAY 19 1997
OIL CON. DIV.
DIST. 3

Estimated Volume 1400 bbls. cy Known Volume (to be entered by the operator at the end of the haul) 1760 cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 5-12-97
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. Foust TITLE: Geologist DATE: 5/19/97

APPROVED BY: Ernie Busch TITLE: Geologist DATE: 5/19/97

CERTIFICATE OF WASTE STATUS
OILFIELD EXEMPT WASTE MATERIAL

Generator Phillips Petroleum 5525 Hwy 64 Farmington NM 87401 (599-3462)

Originating Location 29-6 Water Disposal Facility, site #301 / Basic Sediments & water-scale & sludge from tank bottoms via 12 storage tanks

"As a conditon of acceptance for disposal, I hereby certify that this waste is an exempt oilfield production waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. I further certify that to my knowledge no "hazardous or listed waste" pursuant to the provisions of 40 CFR, Subparts C and D, has been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, section 261.3(b)."

I, the undersigned, as the agent for Phillips Petroleum Company concur with the status of the waste from the subject site.

- Estimated Quantity = 1400 bbls
- NORM readings were also taken (attached)

Name Robert A. Wirtanen

Title/Agency PPC.

Address 5525 Hwy 64

Farmington NM 87401

Signature Robert A. Wirtanen

Date 5-12-97

INSPECTION FOR N.O.R.M. CONTAMINATION
PHILLIPS PETROLEUM COMPANY

Location: 29-6 #301 SWD Date: 5-5-97

Survey Instrument Model: Ludlum Model 3 Last Calibrated: 7-30-96

Item Description: Tank scale inside H_2O tanks

Number of Pieces: 12 tanks #3 highest

Location Where Items Originated: Coal seam wells

Background Reading: 10 uR/hr

Highest NORM reading: 19 in tk #3 uR/hr

Lowest NORM reading: 8 uR/hr

Any samples taken, if so how many:

---

12 Tanks Pieces inspected

Pieces found to be free of NORM contamination

Pieces found to have NORM contamination

Representative samples @

Remarks: Tank 1 = 14 uR/hr
2 = 10 uR/hr
3 = 19 uR/hr
11 = 12 uR/hr

Inspector: Ray Tracker

What is final disposition: Awaiting OCD approval for disposal @ Envirotech (NAPI)

Released to: RA Wirtanen Date: 5-12-97

Office

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
1000 Rio Brazos Road
Aztec, 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: ☐ Non-Exempt: ☒	4. Generator Halliburton Energy Services
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Wash Bay Sump
2. Management Facility Destination Envirotech Soil RemediationFac Landfarm #2	6. Transporter Envirotech
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	4109 E. Main St. Farmington 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:

Continuation of Wash Bay Solids; Solids from 3-bay oil/water separator located outside of wash Bays; Oil & grease are skimmed off for other handling; Water discharges to City of Farmington. Wash Bay pits and oil/water separator are all connected.

TCLP Attached

RECEIVED MAY 19 1997 OIL CON. DIV. DIST. 3

RECEIVED JUN - 2 1997 OIL CON. DIV. DIST. 3

Estimated Volume 10 cy cy Known Volume (to be entered by the operator at the end of the haul) 7 cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 5-19-97
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. Foust TITLE: Geologist DATE: 5/19/97

APPROVED BY: R. Chavez TITLE: Bureau Chief DATE: 5/23/97

300

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
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Aztec, 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: ☐ Non-Exempt: ☒	4. Generator Halliburton Energy Services
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Wash Bay Sump
2. Management Facility Destination Envirotech Soil RemediationFac Landfarm #2	6. Transporter Envirotech
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	4109 E. Main St. Farmington 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:

Continuation of Wash Bay Solids; Solids from 3-bay oil/water separator located outside of wash Bays; Oil & grease are skimmed off for other handling; Water discharges to City of Farmington. Wash Bay pits and oil/water separator are all connected.

TCLP attached

RECEIVED
MAY 19 1997
OIL CON. DIV.
DIST. 2

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

SIGNATURE: Harlan M Brown
Waste Management Facility Authorized Agent

TITLE: Landfarm Manager DATE: 5-19-97

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. (505)632-0615

(This space for State Use)

APPROVED BY: Denny G. Kent TITLE: Geologist DATE: 5/19/97

APPROVED BY: _____ TITLE: _____ DATE: _____

ENVIROTECH INC.

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CERTIFICATE OF WASTE STATUS
OILFIELD NON-EXEMPT WASTE MATERIAL

Originating Location: Halliburton Energy Services 4109 E Main, Farmington

Source: WASH BAY SOLIDS.

Disposal Location: Envirotech Soil Remediation Facility, (NMED)
Hilltop, New Mexico

"As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt oilfield production waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, to verify the nature as non-hazardous. I further certify that to my knowledge no "hazardous or listed waste" pursuant to the provisions of 40 CFR, part 261, Subparts C and D, has been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, section 261.3(b)."

I, the undersigned, as the agent for HALLIBURTON ENERGY SERVICE concur with the status of the waste from the subject site.

Name RJ GREENAKER
Title/Agency TOOL TECHNICIAN I
410 HALLIBURTON ENERGY SERVICE
Address 4109 E. MAIN ST
FARMINGTON, NM 87402
Signature RJ Greenaker
Date 14 MAY 97

ENVIROTEC INC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIA

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

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 Characterization Leaching Procedures (TCLP) analysis was performed. I further certify that said material is from operations in the immediate Four Corners area.

Signed R J Greenaker

Date of TCLP Oct 96

Name RJ GREENAKER

Title/Agency TOOL TECHNITION I
HALLIBURTON ENERGY SERVICE

Address 4109 E. MAIN ST.
FARMINGTON NM 87402

Signature R J Greenaker

Date 14 MAY 97

RECEIVED MAY 15 1997

Harrisburg Energy Services
4109 E Main
Wed. TSA Services.

Maximum Contaminant Concentrations For Toxicity Characteristic Wastes

	Waste Stream Constituent	Concentration (milligrams/liter mg/l)	EPA HW No.		Waste Stream Constituent	Concentration (milligrams/liter mg/l)	EPA HW No.	
	Arsenic	5.0	D004		Hexachlorobenzene	0.13	D032	
	* Barium	100.0	D005		Hexachlorobutadiene	0.5	D033	
	Benzene	0.5	D018		Hexachloroethane	3.0	D034	
	Cadmium	1.0	D006		Lead	5.0	D008	
	Carbon Tetrachloride	0.5	D019		* Lindane	0.4	D013	Pesticide
Pesticide	Chlordane	0.03	D020		Mercury	0.2	D009	
	Chlorobenzene	100.0	D021		* Methoxychlor	10.0	D014	Pesticide
	Chloroform	6.0	D022		Methyl ethyl ketone	200.0	D035	
	Chromium	5.0	D007		Nitrobenzene	2.0	D036	
	Cresol	200.0	D026		Pentachlorophenol	100.0	D037	
	m-Cresol	200.0	D024		Pyridine	5.0	D038	
	o-Cresol	200.0	D023		Selenium	1.0	D010	
	p-Cresol	200.0	D025		Silver	5.0	D011	
Herbicide	* 2,4-D	10.0	D016		* 2,4,5-TP (Silvex)	1.0	D017	Herbicide
	1,4-Dichlorobenzene	7.5	D027		Tetrachloroethylene	0.7	D039	
	1,2-Dichloroethane	0.5	D028		* Toxaphene	0.5	D015	Pesticide
	1,1-Dichloroethylene	0.7	D029		Trichloroethylene	0.5	D040	
	2,4-Dinitrotoluene	0.13	D030		2,4,5-Trichlorophenol	400.0	D041	
Pesticide	* Endrin	0.02	D012		2,4,6-Trichlorophenol	2.0	D042	
Pesticide	Heptachlor	0.008	D031		Vinyl chloride	0.2	D043	

*-EP Toxic wastes; TCLP must now be utilized for characterizing these wastes

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

SUSPECTED HAZARDOUS & SOLID WASTE ANALYSIS

Client:	Halliburton Energy Services	Project #:	92132
Sample ID:	Wash Bay Solids	Date Reported:	10-22-96
Lab ID#:	A706	Date Sampled:	10-22-96
Sample Matrix:	Solid	Date Received:	10-22-96
Preservative:	Cool	Date Analyzed:	10-22-96
Condition:	Cool & Intact	Chain of Custody:	4966

Parameter	Result
IGNITABILITY:	**Did not ignite upon direct contact with flame.**
CORROSIVITY:	**7.25**
REACTIVITY:	**Did not react violently with water, strong base (10N Sodium Hydroxide), or strong acid (6N Hydrochloric acid).**

RCRA Hazardous Waste Criteria

Parameter	Hazardous Waste Criterion
IGNITABILITY:	Sample Ignition upon direct contact with flame indicates hazardous waste status.
CORROSIVITY:	pH less than or equal to 2.0 or pH greater than or equal to 12.5 indicates hazardous waste status.
REACTIVITY:	Violent reaction with water, strong base (10N Sodium Hydroxide), or strong acid (6N Hydrocholoric Acid) indicates hazardous waste status.
Reference:	40 CFR part 261 Subpart C sections 261.21 - 261.23, July 1, 1992.
omments:	**4109 E. Main, Farmington, NM.**

nalyst L. ' en

Review Stacy W Sendler

U.S. Highway 64-3014 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS

Client:	Halliburton Energy Services	Project #:	92132
Sample ID:	Wash Bay Solids	Date Reported:	10-29-96
Laboratory Number:	A706	Date Sampled:	10-22-96
Chain of Custody:	4966	Date Received:	10-22-96
Sample Matrix:	Solid	Date Extracted:	10-22-96
Preservative:	Cool	Date Analyzed:	10-28-96
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.0004	0.2
1,1-Dichloroethene	ND	0.0002	0.7
2-Butanone (MEK)	ND	0.0003	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	ND	0.0002	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	103%
	Bromofluorobenzene	96%

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

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ENVIROTECH LABS
PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8040
PHENOLS

Client:	Halliburton Energy Services	Project #:	92132
Sample ID:	Wash Bay Solids	Date Reported:	10-29-96
Laboratory Number:	A706	Date Sampled:	10-22-96
Chain of Custody:	4966	Date Received:	10-22-96
Sample Matrix:	Solid	Date Extracted:	10-22-96
Preservative:	Cool	Date Analyzed:	10-28-96
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	99%
	2,4,6-Tribromophenol	102%

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. 198

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

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	Halliburton Energy Services	Project #:	92132
Sample ID:	Wash Bay Solids	Date Reported:	10-28-96
Laboratory Number:	A706	Date Sampled:	10-22-96
Chain of Custody:	4966	Date Received:	10-22-96
Sample Matrix:	Solid	Date Extracted:	10-22-96
Preservative:	Cool	Date Analyzed:	10-28-96
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	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: **4109 E. Main, Farmington, NM.**

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ENVIROTECH LABS
PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS

Client:	Halliburton Energy Services	Project #:	92132
Sample ID:	Wash Bay Solids	Date Reported:	10-29-96
Laboratory Number:	A706	Date Sampled:	10-22-96
Chain of Custody:	4966	Date Received:	10-22-96
Sample Matrix:	Solid	Date Analyzed:	10-29-96
Preservative:	Cool	Date Extracted:	10-22-96
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
Arsenic	0.025	0.001	5.00
Barium	0.42	0.01	100
Cadmium	0.057	0.001	1.00
Chromium	0.001	0.001	5.00
Lead	0.009	0.001	5.00
Mercury	ND	0.001	0.200
Selenium	ND	0.001	1.00
Silver	ND	0.001	5.0

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

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

Comments: **4109 E. Main, Farmington, NM.**

Denise L. Ajenson
Analyst

Stacy W Sendler
Review

ENV ROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

QUALITY ASSURANCE / QUALITY CONTROL DOCUMENTATION

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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:	Laboratory Blank	Date Reported:	10-29-96
Laboratory Number:	10-28-TCV.BLANK	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	10-28-96
Condition:	N/A	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.0004	0.2
1,1-Dichloroethene	ND	0.0002	0.7
2-Butanone (MEK)	ND	0.0003	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	ND	0.0002	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	96%
	Bromofluorobenzene	96%

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 A689, A706 and A713.

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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:	Method Blank	Date Reported:	10-29-96
Laboratory Number:	10-22-TCV.MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	10-28-96
Condition:	N/A	Date Extracted:	10-22-96
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.0004	0.2
1,1-Dichloroethene	ND	0.0002	0.7
2-Butanone (MEK)	ND	0.0003	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	ND	0.0002	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	101%

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 A689, A706 and A713.

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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:	10-29-96
Laboratory Number:	A706	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	10-28-96
Condition:	N/A	Date Extracted:	10-22-96

Parameter	Sample Result (mg/L)	Duplicate Sample Result (mg/L)	Detection Limits (mg/L)	Percent Difference
Vinyl Chloride	ND	ND	0.0004	0.0%
1,1-Dichloroethene	ND	ND	0.0002	0.0%
2-Butanone (MEK)	ND	ND	0.0003	0.0%
Chloroform	ND	ND	0.0001	0.0%
Carbon Tetrachloride	ND	ND	0.0001	0.0%
Benzene	ND	ND	0.0002	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 A689, A706 and A713.

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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:	10-29-96
Laboratory Number:	A706	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	10-28-96
Condition:	N/A	Date Extracted:	10-22-96

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	0.020	0.0203	0.0004	102%	28-163
1,1-Dichloroethene	ND	0.020	0.0217	0.0002	108%	43-143
2-Butanone (MEK)	ND	0.020	0.0196	0.0003	97%	47-132
Chloroform	ND	0.020	0.0199	0.0001	99%	49-133
Carbon Tetrachloride	ND	0.020	0.0193	0.0001	97%	43-143
Benzene	ND	0.020	0.0207	0.0002	103%	39-150
1,2-Dichloroethane	ND	0.020	0.0185	0.0001	93%	51-147
Trichloroethene	ND	0.020	0.0189	0.0003	95%	35-146
Tetrachloroethene	ND	0.020	0.0195	0.0005	97%	26-162
Chlorobenzene	ND	0.020	0.0204	0.0003	102%	38-150
1,4-Dichlorobenzene	ND	0.020	0.0193	0.0002	96%	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 A689, A706 and A713.

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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:	10-29-96
Laboratory Number:	10-28-TCA.BLANK	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	10-28-96
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	100 %
	2,4,6-tribromophenol	102 %

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. 198

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

Comments: **QA/QC for samples A689, A706 and A713.**

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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:	10-29-96
Laboratory Number:	10-22-TCA.MB	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	Cool	Date Extracted:	10-22-96
Condition:	Cool & Intact	Date Analyzed:	10-28-96
		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	94%
	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. 198

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

Comments: **QA/QC for samples A689, A706 and A713.**

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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:	10-29-96
Laboratory Number:	A706	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	Cool	Date Extracted:	10-22-96
Condition:	Cool & Intact	Date Analyzed:	10-28-96
		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 A689, A706 and A713.**

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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:	10-28-96
Laboratory Number:	10-28-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:	10-28-96
		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 A689, A706 and A713.**

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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:	10-28-96
Laboratory Number:	10-22-TBN.MB	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	Cool	Date Extracted:	10-22-96
Condition:	Cool and Intact	Date Analyzed:	10-28-96
		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 A689, A706 and A713.**

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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:	10-28-96
Laboratory Number:	A706	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Extracted:	10-22-96
Condition:	N/A	Date Analyzed:	10-28-96
		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 A689, A706 and A713.

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ENVIROTECH LABS
PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Blanks	Date Reported:	10-29-96
Laboratory Number:	N/A	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	10-29-96
Condition:	N/A	Date Extracted:	N/A

Parameter	Instrument Blank (mg/L)	Method Blank (mg/L)	Det. Limit (mg/L)
Arsenic	ND	ND	0.001
Barium	ND	ND	0.01
Cadmium	ND	ND	0.001
Chromium	ND	ND	0.001
Lead	ND	ND	0.001
Mercury	ND	ND	0.001
Selenium	ND	ND	0.001
Silver	ND	ND	0.001

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

Comments: **QA/QC for samples A706, A711 and A713.**

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ENVIROTECH LABS
PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	10-29-96
Laboratory Number:	A706	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	10-29-96
Condition:	N/A	Date Extracted:	10-22-96

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Percent Difference
Arsenic	0.025	0.026	3.9%
Barium	0.42	0.41	2.4%
Cadmium	0.057	0.057	0.0%
Chromium	0.001	0.001	0.0%
Lead	0.009	0.009	0.0%
Mercury	ND	ND	0.0%
Selenium	ND	ND	0.0%
Silver	ND	ND	0.0%

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Maximum Difference
	Trace Metals	30 %

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

Comments: **QA/QC for samples A706, A711 and A713.**

Dean L. Ajenen
Analyst

Stacy W Sendler
Review

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ENVIROTECH LABS
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EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Spike	Date Reported:	10-29-96
Laboratory Number:	A706	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	10-29-96
Condition:	N/A	Date Extracted:	10-22-96

Parameter	Spike Added (mg/L)	Sample Result (mg/L)	Spiked Sample Result (mg/L)	Percent Recovery
Arsenic	0.100	0.025	0.125	100%
Barium	1.00	0.42	1.41	99%
Cadmium	0.050	0.057	0.106	99%
Chromium	0.050	0.001	0.051	100%
Lead	0.100	0.009	0.109	100%
Mercury	0.025	ND	0.024	96%
Selenium	0.100	ND	0.099	99%
Silver	0.050	ND	0.049	98%

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Acceptance Range %
	TCLP Metals	80 - 120 %

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

Comments: QA/QC for samples A706, A711 and A713.

Analyst

Review

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4966

CHAIN OF CUSTODY RECORD

Client/Project Name: Halliburton Energy Services

Project Location: 4109 E Main St, Farming

Sampler: (Signature) [signature]

Chain of Custody Tape No.: 92132

ANALYSIS/PARAMETERS

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TCLP w/o H&P	Remarks
Wash	10.	9:50	0	Solid	1	✓	

	Date	Time	Received		Date	Time
by: (Signature) [signature]	10-22-96	10:30		0	10-22-96	10:30

Relinquished by: (Signature) Received by: (Signature)

Relinquished by: (Signature) Received by: (Signature)

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

San Juan Repro Form 579-01

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
1000 Rio Brazos Road
Aztec, 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: ☐ Non-Exempt: ☒	4. Generator Halliburton Energy Services
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Main Yard Wash Bay
2. Management Facility Destination Envirotech Soil RemediationFac. Landfarm #2	6. Transporter Envirotech
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	4162 E. Main Farmington N.M.

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:
Contamination of wash bay solids disposal
TCLP ATTACHED.

RECEIVED JUN - 2 1997 OIL CON. DIV. DIST. 3

RECEIVED MAY - 9 1997 OIL CON. DIV. DIST. 3

Estimated Volume 24 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: 5-9-97
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. Foust TITLE: Geologist DATE: 5/12/97

APPROVED BY: [illegible] TITLE: Bureau Chief DATE: 5/19/97

3.50

District I - (505) 393-6161
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Hobbs, NM 88241-1980
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811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1 Rio Brazos Road
Aztec, 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: ☐ Non-Exempt: ☒	4. Generator Halliburton Energy Services
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Main Yard Wash Bay
2. Management Facility Destination Envirotech Soil RemediationFac Landfarm #2	6. Transporter Envirotech
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	4109 E. Main Farmington N.M.

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
TCLP Attached.

RECEIVED
MAY - 9 1997
OIL CON. DIV.
DIST. 3

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

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 5-9-97
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. Foust TITLE: Geologist DATE: 5/12/97

APPROVED BY: _____ TITLE: _____ DATE: _____

ENVIROTECH INC.

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CERTIFICATE OF WASTE STATUS
OILFIELD NON-EXEMPT WASTE MATERIAL

Originating Location: Halliburton Energy Services 4109 E Main, Farmington

Source: WASH BAY SOLIDS -

Disposal Location: Envirotech Soil Remediation Facility, (NMED)
Hilltop, New Mexico

"As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt oilfield production waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, to verify the nature as non-hazardous. I further certify that to my knowledge no "hazardous or listed waste" pursuant to the provisions of 40 CFR, part 261, Subparts C and D, has been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, section 261.3(b)."

I, the undersigned, as the agent for HALLIBURTON ENERGY SERVICE concur with the status of the waste from the subject site.

Name RJ GREENAKER
Title/Agency TOOL TECHNITION I
HALLIBURTON ENERGY SERVICE
Address 4109 E MAIN ST
FARMINGTON NM. 87402
Signature RJ Greenaker
Date May 8, 1997

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ENVIROTECH INC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIA

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

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 Characterization Leaching Procedures (TCLP) analysis was performed. I further certify that said material is from operations in the immediate Four Corners area.

Signed RJ Greenaker

Date of TCLP Oct 1996

Name RJ GREENAKER

Title/Agency TOOL TECHNITION I

Address 4109 E. MAIN ST.

FARMINGTON, NM

Signature RJ Greenaker

Date May 8, 1997

IN 52132

Halliburton Energy Services
4109 E Main
Wash. Tsy Solids

Maximum Contaminant Concentrations For Toxicity Characteristic Wastes

Waste Stream Constituent	Concentration (milligrams/liter mg/l)	EPA HW No.	Waste Stream Constituent	Concentration (milligrams/liter mg/l)	EPA HW No.
* Arsenic	5.0	D004	Hexachlorobenzene	0.13	D032
* Barium	100.0	D005	Hexachlorobutadiene	0.5	D033
Benzene	0.5	D018	Hexachloroethane	3.0	D034
* Cadmium	1.0	D006	* Lead	5.0	D008
Carbon Tetrachloride	0.5	D019	* Lindane	0.4	D013 Pesticide
Pesticide Chlordane	0.03	D020	* Mercury	0.2	D009
Chlorobenzene	100.0	D021	* Methoxychlor	10.0	D014 Pesticide
Chloroform	6.0	D022	Methyl ethyl ketone	200.0	D035
* Chromium	5.0	D007	Nitrobenzene	2.0	D036
Cresol	200.0	D026	Pentachlorophenol	100.0	D037
m-Cresol	200.0	D024	Pyridine	5.0	D038
o-Cresol	200.0	D023	* Selenium	1.0	D010
p-Cresol	200.0	D025	* Silver	5.0	D011
Herbicide * 2,4-D	10.0	D016	* 2,4,5-TP (Silvex)	1.0	D017 Herbicide
1,4-Dichlorobenzene	7.5	D027	Tetrachloroethylene	0.7	D039
1,2-Dichloroethane	0.5	D028	* Toxaphene	0.5	D015 Pesticide
1,1-Dichloroethylene	0.7	D029	Trichloroethylene	0.5	D040
2,4-Dinitrotoluene	0.13	D030	2,4,5-Trichlorophenol	400.0	D041
Pesticide * Endrin	0.02	D012	2,4,6-Trichlorophenol	2.0	D042
Pesticide Heptachlor	0.008	D031	Vinyl chloride	0.2	D043

* –EP Toxic wastes; TCLP must now be utilized for characterizing these wastes

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

SUSPECTED HAZARDOUS & SOLID WASTE ANALYSIS

Client:	Halliburton Energy Services	Project #:	92132
Sample ID:	Wash Bay Solids	Date Reported:	10-22-96
Lab ID#:	A706	Date Sampled:	10-22-96
Sample Matrix:	Solid	Date Received:	10-22-96
Preservative:	Cool	Date Analyzed:	10-22-96
Condition:	Cool & Intact	Chain of Custody:	4966

Parameter	Result
IGNITABILITY:	**Did not ignite upon direct contact with flame.**
CORROSIVITY:	**7.25**
REACTIVITY:	**Did not react violently with water, strong base (10N Sodium Hydroxide), or strong acid (6N Hydrochloric acid).**

RCRA Hazardous Waste Criteria

Parameter	Hazardous Waste Criterion
IGNITABILITY:	Sample Ignition upon direct contact with flame indicates hazardous waste status.
CORROSIVITY:	pH less than or equal to 2.0 or pH greater than or equal to 12.5 indicates hazardous waste status.
REACTIVITY:	Violent reaction with water, strong base (10N Sodium Hydroxide), or strong acid (6N Hydrocholoric Acid) indicates hazardous waste status.

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

Comments: **4109 E. Main, Farmington, NM.**

Dennis L. Spencer
Analyst

Stacy W. Sandoval
Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS

Client:	Halliburton Energy Services	Project #:	92132
Sample ID:	Wash Bay Solids	Date Reported:	10-29-96
Laboratory Number:	A706	Date Sampled:	10-22-96
Chain of Custody:	4966	Date Received:	10-22-96
Sample Matrix:	Solid	Date Extracted:	10-22-96
Preservative:	Cool	Date Analyzed:	10-28-96
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.0004	0.2
1,1-Dichloroethene	ND	0.0002	0.7
2-Butanone (MEK)	ND	0.0003	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	ND	0.0002	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	103%
	Bromofluorobenzene	96%

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

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8040
PHENOLS

Client:	Halliburton Energy Services	Project #:	92132
Sample ID:	Wash Bay Solids	Date Reported:	10-29-96
Laboratory Number:	A706	Date Sampled:	10-22-96
Chain of Custody:	4966	Date Received:	10-22-96
Sample Matrix:	Solid	Date Extracted:	10-22-96
Preservative:	Cool	Date Analyzed:	10-28-96
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	99%
	2,4,6-Tribromophenol	102%

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. 198

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

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	Halliburton Energy Services	Project #:	92132
Sample ID:	Wash Bay Solids	Date Reported:	10-28-96
Laboratory Number:	A706	Date Sampled:	10-22-96
Chain of Custody:	4966	Date Received:	10-22-96
Sample Matrix:	Solid	Date Extracted:	10-22-96
Preservative:	Cool	Date Analyzed:	10-28-96
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	**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: **4109 E. Main, Farmington, NM.**

Dean L. Ajenon
Analyst

Stacy W Sendler
Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	Halliburton Energy Services	Project #:	92132
Sample ID:	Wash Bay Solids	Date Reported:	10-29-96
Laboratory Number:	A706	Date Sampled:	10-22-96
Chain of Custody:	4966	Date Received:	10-22-96
Sample Matrix:	Solid	Date Analyzed:	10-29-96
Preservative:	Cool	Date Extracted:	10-22-96
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
Arsenic	0.025	0.001	5.00
Barium	0.42	0.01	100
Cadmium	0.057	0.001	1.00
Chromium	0.001	0.001	5.00
Lead	0.009	0.001	5.00
Mercury	ND	0.001	0.200
Selenium	ND	0.001	1.00
Silver	ND	0.001	5.0

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

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

Comments: **4109 E. Main, Farmington, NM.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

QUALITY ASSURANCE / QUALITY CONTROL

DOCUMENTATION

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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:	Laboratory Blank	Date Reported:	10-29-96
Laboratory Number:	10-28-TCV.BLANK	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	10-28-96
Condition:	N/A	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.0004	0.2
1,1-Dichloroethene	ND	0.0002	0.7
2-Butanone (MEK)	ND	0.0003	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	ND	0.0002	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	96%
	Bromofluorobenzene	96%

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 A689, A706 and A713.**

Analyst

Review

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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:	Method Blank	Date Reported:	10-29-96
Laboratory Number:	10-22-TCV.MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	10-28-96
Condition:	N/A	Date Extracted:	10-22-96
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.0004	0.2
1,1-Dichloroethene	ND	0.0002	0.7
2-Butanone (MEK)	ND	0.0003	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	ND	0.0002	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	101%

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 A689, A706 and A713.**

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:	10-29-96
Laboratory Number:	A706	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	10-28-96
Condition:	N/A	Date Extracted:	10-22-96

Parameter	Sample Result (mg/L)	Duplicate Sample Result (mg/L)	Detection Limits (mg/L)	Percent Difference
Vinyl Chloride	ND	ND	0.0004	0.0%
1,1-Dichloroethene	ND	ND	0.0002	0.0%
2-Butanone (MEK)	ND	ND	0.0003	0.0%
Chloroform	ND	ND	0.0001	0.0%
Carbon Tetrachloride	ND	ND	0.0001	0.0%
Benzene	ND	ND	0.0002	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 A689, A706 and A713.**

Denn L. Ajenen
Analyst

Stacy W Sendler
Review

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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:	10-29-96
Laboratory Number:	A706	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	10-28-96
Condition:	N/A	Date Extracted:	10-22-96

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	0.020	0.0203	0.0004	102%	28-163
1,1-Dichloroethene	ND	0.020	0.0217	0.0002	108%	43-143
2-Butanone (MEK)	ND	0.020	0.0196	0.0003	97%	47-132
Chloroform	ND	0.020	0.0199	0.0001	99%	49-133
Carbon Tetrachloride	ND	0.020	0.0193	0.0001	97%	43-143
Benzene	ND	0.020	0.0207	0.0002	103%	39-150
1,2-Dichloroethane	ND	0.020	0.0185	0.0001	93%	51-147
Trichloroethene	ND	0.020	0.0189	0.0003	95%	35-146
Tetrachloroethene	ND	0.020	0.0195	0.0005	97%	26-162
Chlorobenzene	ND	0.020	0.0204	0.0003	102%	38-150
1,4-Dichlorobenzene	ND	0.020	0.0193	0.0002	96%	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 A689, A706 and A713.**

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:	10-29-96
Laboratory Number:	10-28-TCA.BLANK	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	10-28-96
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	100 %
	2,4,6-tribromophenol	102 %

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. 198

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

Comments: **QA/QC for samples A689, A706 and A713.**

Analyst

Review

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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:	10-29-96
Laboratory Number:	10-22-TCA.MB	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	Cool	Date Extracted:	10-22-96
Condition:	Cool & Intact	Date Analyzed:	10-28-96
		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	94%
	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. 198

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

Comments: **QA/QC for samples A689, A706 and A713.**

Analyst

Review

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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:	10-29-96
Laboratory Number:	A706	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	Cool	Date Extracted:	10-22-96
Condition:	Cool & Intact	Date Analyzed:	10-28-96
		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 A689, A706 and A713.**

Analyst

Review

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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:	10-28-96
Laboratory Number:	10-28-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:	10-28-96
		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 A689, A706 and A713.**

Analyst

Review

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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:	10-28-96
Laboratory Number:	10-22-TBN.MB	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	Cool	Date Extracted:	10-22-96
Condition:	Cool and Intact	Date Analyzed:	10-28-96
		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 A689, A706 and A713.**

Analyst

Review

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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:	10-28-96
Laboratory Number:	A706	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Extracted:	10-22-96
Condition:	N/A	Date Analyzed:	10-28-96
		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 A689, A706 and A713.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Blanks	Date Reported:	10-29-96
Laboratory Number:	N/A	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	10-29-96
Condition:	N/A	Date Extracted:	N/A

Parameter	Instrument Blank (mg/L)	Method Blank (mg/L)	Det. Limit (mg/L)
Arsenic	ND	ND	0.001
Barium	ND	ND	0.01
Cadmium	ND	ND	0.001
Chromium	ND	ND	0.001
Lead	ND	ND	0.001
Mercury	ND	ND	0.001
Selenium	ND	ND	0.001
Silver	ND	ND	0.001

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

Comments: **QA/QC for samples A706, A711 and A713.**

Dennis L. Spencer
Analyst

Stacy W Sendler
Review

96 U.S. Highway 64-3014 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

ENVIROTECH LABS
PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	10-29-96
Laboratory Number:	A706	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	10-29-96
Condition:	N/A	Date Extracted:	10-22-96

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Percent Difference
Arsenic	**0.025**	**0.026**	**3.9%**
Barium	**0.42**	**0.41**	**2.4%**
Cadmium	**0.057**	**0.057**	**0.0%**
Chromium	**0.001**	**0.001**	**0.0%**
Lead	**0.009**	**0.009**	**0.0%**
Mercury	**ND**	**ND**	**0.0%**
Selenium	**ND**	**ND**	**0.0%**
Silver	**ND**	**ND**	**0.0%**

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Maximum Difference
	Trace Metals	**30 %**

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

Comments: **QA/QC for samples A706, A711 and A713.**

Dean L. Ajenen
Analyst

Stacy W Sendler
Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Spike	Date Reported:	10-29-96
Laboratory Number:	A706	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	10-29-96
Condition:	N/A	Date Extracted:	10-22-96

Parameter	Spike Added (mg/L)	Sample Result (mg/L)	Spiked Sample Result (mg/L)	Percent Recovery
Arsenic	0.100	0.025	0.125	100%
Barium	1.00	0.42	1.41	99%
Cadmium	0.050	0.057	0.106	99%
Chromium	0.050	0.001	0.051	100%
Lead	0.100	0.009	0.109	100%
Mercury	0.025	ND	0.024	96%
Selenium	0.100	ND	0.099	99%
Silver	0.050	ND	0.049	98%

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Acceptance Range %
	TCLP Metals	80 - 120 %

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

Comments: **QA/QC for samples A706, A711 and A713.**

Analyst

Review

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CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location
Halliburton Energy Services	4109 E Main St, Farmington

Sampler: (Signature)	Chain of Custody Tape No.
[signature]	92132

ANALYSIS/PARAMETERS

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TCLP w/o H&P						Remarks
Wash Bay Solids	10-22-96	9:50	A706	Solid	1	✓						

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	10-22-96	10:30	[signature]	10-22-96	10:30
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

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

san juan repro Form 578-81

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
1000 Rio Brazos Road
Aztec, 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: ☐ Non-Exempt: ☒ - Ernie Bush 5/2/97 - Roger Anderson 5/2/97 Verbal Approval Received: Yes ☒ No ☐	4. Generator Giant Refining 5. Originating Site Bloomfield Refinery
2. Management Facility Destination Envirotech Soil RemediationFac Landfarm #2	6. Transporter — Sonny's Trucking
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR) #50 CR 4990 Bloomfield NM 87413	

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:

TANK 27 BOTTOMS. SLURRY RUN DOWN. TANK CONTAINED #6 BUNKER FUEL. BOTTOMS ARE EMULSIFIED OIL, FCC CATALYST FINES (SILICA) ~ 1-2% WATER.

RECEIVED
MAY 14 1997
OIL CON. DIV.
DIST. 3

Faxes attached to original CCP ATTACHED

Estimated Volume 300 in 15 Roll-offs cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Robert M. Young TITLE: Landfarm ~~Manager~~ Supv DATE: 5/2/97
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: ~~Harlan M. Brown~~ Robert M. Young TELEPHONE NO. (505)632-0615

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 5/2/97

APPROVED BY: Martyne J. Kieling TITLE: Environmental Geologist DATE: 5/6/97

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Submit 5 copies to Appropriate District Office
DISTRICT I
P.O.Box 1980, Hobbs, NM 88241-1980
DISTRICT II
P.O. Drawer DD, Artesia, NM 88211-0719
DISTRICT III
1000 Rio Brazos Rd, Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-117 A
Revised 4-1-91

OIL CONSERVATION DIVISION

2040 S Pacheco
Santa Fe, New Mexico 87504-2088

PERMIT NO. 3-588

TANK CLEANING, SEDIMENT OIL REMOVAL, TRANSPORTATION OF MISCELLANEOUS HYDROCARBONS AND DISPOSAL PERMIT

Operator or Owner GIANT REFINING CO. Address #50 CR 4990 BLOOMFIELD, NM 87413

Lease or Facility Name BLOOMFIELD REFINERY Location F, 27-29N-11W
U.L. - Sec. - Twp. - Rge.

OPERATION TO BE PERFORMED:

☒ Tank Cleaning ☐ Sediment Oil Removal ☒ Transportation of Miscellaneous Hydrocarbons

Operator or Owner Representative authorizing work LYNN SHELTON

Date Work to be Performed 5/2/97 to 5/10/97

TANK CLEANING DATA Tank Number 27 Volume 10,000 BBL

Tank Type WELDED Volume Below Load Line 250 BBL.

SEDIMENT OIL OR MISCELLANEOUS HYDROCARBON DATA

Sediment Oil from: ☐ Pit ☐ Cellar ☐ Other

MISCELLANEOUS OIL

Tank Bottoms From: ☐ Pipeline Station ☐ Crude Terminal ☒ Refinery ☐ Other*

Catchings From: ☐ Gasoline Plant ☐ Gathering Lines ☐ Salt Water Disposal System ☐ Other*

Pipeline Break Oil or Spill ☐

*Other (Explain)

VOLUME AND DESTINATION: Estimated Volume 1500 Bbls. Field test volume of good oil 0 Bbls.
(Not required prior to Division approval)

Destination (Name and Location of treating plant or other facility) ENVIROTECH LAND FARM #2
BLOOMFIELD, NM 87413

DESTRUCTION OF SEDIMENT OIL BY: ☐ Burning ☒ Pit Disposal ☐ Use on Roads or firewalls ☐ Other
(Explain)

Location of Destruction ENVIROTECH LANDFARM #2

Justification of Destruction

CERTIFICATION: (APPLICATION MAY BE MADE BY EITHER OF THE FOLLOWING)
I hereby certify that the infomation above is true and complete to the best of my knowledge and belief.

Owner GIANT REFINING CO.
By Lynn Shelton
Title ENVIRONMENTAL MANAGER
Date 5/2/97

Transporter SHORT MAN TRUCKING
Address P.O. BOX 2075 BLMFLD
Signature [illegible]
Title OWNER Date 5-2-97

OIL CONSERVATION DIVISION

Approved By [illegible] Title ~~DEPUTY OIL & GAS INSPECTOR, DIST. #3~~ Date MAY 2 1997

A COPY OF THIS FORM MUST BE ON LOCATION DURING TANK CLEANING, REMOVAL OF SEDIMENT OIL OR MISCELLANEOUS HYDROCARBONS, AND MUST BE PRESENTED WITH TANK BOTTOMS, SEDIMENT OIL OR MISCELLANEOUS HYDROCARBONS AT THE TREATING PLANT TO WHICH IT IS DELIVERED.

DISTRIBUTION BY OCD	
	Santa Fe
	File
	Operator
	Transporter (2)

Refinery file

GIANT REFINING COMPANY - BLOOMFIELD

DISTRIBUTION OF VACUUM BOXES AND TANK 27 SLUDGE

MAY, 1997

VACUUM BOX NUMBER	SHIPPING DATE	DESTINATION	AMOUNT (CU/YD)
309-3	4/28/97	CRI	15
325002	4/27/97	CRI	15
614-44	4/27/97	CRI	16
1614	4/25/97	CRI	16
1626	5/6/97	ENVIROTECH	16
V2676	5/1/97	CRI	16
V2638	5/6/97	ENVIROTECH	16
V2673	5/5/97	ENVIROTECH	16
V2555	5/2/97	CRI	16
1627	4/29/97	CRI	16
1612	5/6/97	ENVIROTECH	16
1611	5/5/97	ENVIROTECH	16
1524	5/6/97	ENVIROTECH	16
1642	5/6/97	ENVIROTECH	16
1608	5/6/97	ENVIROTECH	16
V2674	5/5/97	ENVIROTECH	16
V2520	5/2/97	CRI	15
2773	5/5/97	ENVIROTECH	15
3163	5/5/97	ENVIROTECH	16
4921	5/5/97	ENVIROTECH	16
3774	5/5/97	ENVIROTECH	16
1571	4/30/97	CRI (1/3 LOAD)	5
1614	5/6/97	ENVIROTECH	16

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OIL CON. DIV.
DIST. 3

attach to C-138

GIANT REFINING COMPANY - BLOOMFIELD

DISTRIBUTION OF VACUUM BOXES AND TANK 27 SLUDGE

MAY, 1997

VACUUM BOX NUMBER	SHIPPING DATE	DESTINATION	AMOUNT (CU/YD)
309-3	4/28/97	CRI	15
325002	4/27/97	CRI	15
614-44	4/27/97	CRI	16
1614	4/25/97	CRI	16
1626	5/6/97	ENVIROTECH	16
V2676	5/1/97	CRI	16
V2638	5/6/97	ENVIROTECH	16
V2673	5/5/97	ENVIROTECH	16
V2555	5/2/97	CRI	16
1627	4/29/97	CRI	16
1612	5/6/97	ENVIROTECH	16
1611	5/5/97	ENVIROTECH	16
1524	5/6/97	ENVIROTECH	16
1642	5/6/97	ENVIROTECH	16
1608	5/6/97	ENVIROTECH	16
V2674	5/5/97	ENVIROTECH	16
V2520	5/2/97	CRI	15
2773	5/5/97	ENVIROTECH	15
3163	5/5/97	ENVIROTECH	16
4921	5/5/97	ENVIROTECH	16
3774	5/5/97	ENVIROTECH	16
1571	4/30/97	CRI (1/3 LOAD)	5
1614	5/6/97	ENVIROTECH	16

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Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, 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-1
Originated 8/

Submit Ori
Plus 1 (
to approp
District O

Env JN: _____

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒ - Ernie Bush 5/2/97 Per Anderson 5/2/97	4. Generator Giant Refining
Verbal Approval Received: Yes ☒ No ☐	5. Originating Site Bloomfield Refinery
2. Management Facility Destination Envirotech Soil Remediation Fac. Landfarm #2	6. Transporter — Sonny's Trucking
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR) #50 CR 4990 Bloomfield NM 87413	

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:

TANK 27 BOTTOMS. SLURRY RUN DOWN. TANK CONTAINED #6 BUNKER FUEL. BOTTOMS ARE EMULSIFIED OIL, FCC CATALYST FINES (SILICA) ~ 1-2% WATER.

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MAY - 2 1997
OIL CON. DIV.
DIST. 3

TCLP ATTACHED

Estimated Volume 300 in 15 Roll-offs cy Known Volume (to be entered by the operator at the end of the haul) 224 cy

SIGNATURE: _____ TITLE: Landfarm ~~Manager~~ Supv DATE: 5/2/97
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: ~~Harlan M. Brown~~ Robert M. Young TELEPHONE NO. (505)632-0615

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 5/2/97

APPROVED BY: Martyne J. Kieling TITLE: Environmental Geologist DATE: 5/6/97

1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

(505) 827-7131

Di

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Giant Refining
Verbal Approval Received: Yes ☐ No ☐	5. Originating SiteBloomfield R
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter Sonny's & Cact
3. Address of Facility Operator P.O. Box 369 Hobbs	8. State New Mexico
7. Location of Material (Street Address or ULSTR) P.O. Box 159 Bloomfield, New Mexico 87413	

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste fro Generator; one certificate per job.

(B.) All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analy PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardo listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

RECEIVE

APR 3 0 1997

Environmental Burea
Oil Conservation Divis

BRIEF DESCRIPTION OF MATERIAL:

Tank # 27 Giant - Bloomfield Refinery

6 fuel oil to be recycled through Controlled Recovery, Inc.' s reclamation plant at Halfway, New Mexico

OCD TUBBS OFFICE

APR 2 4 1997

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Estimated Volume 1000 bbls cy Known Volume (to be entered by the operator at the end of the haul) _____

SIGNATURE: Billie Charo TITLE: Office Manager DATE: 04/23/97
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Billie Charo TELEPHONE NO. (505)393-1079

(This space for State Use)

APPROVED BY: [signature] TITLE: Envir Engr DATE: 4/24/97

APPROVED BY: Matthew J. Kelly TITLE: Environmental Geologist DATE: 4/25/97

ict I - (505) 393-6161
Box 1980
bs, NM 88241-1980
ict II - (505) 748-1283
S. First
sia, NM 88210
ict III - (505) 334-6178
) Rio Brazos Road
c, NM 87410
ict 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 6/5/

Submit Origi
Plus 1 Co
to appropri
District Offi

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator BIG A WELL SERVICE
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site WASH SUMP
2. Management Facility Destination SUNCO DISPOSAL	6. Transporter SUNCO
3. Address of Facility Operator #345 CR 3500, AZTEC, NM	8. State NM
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:

EQUIPMENT WASH DOWN WATER

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OIL CON. DIV.
DIST. 3

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

SIGNATURE: Michael Tabovich TITLE: Disposal Mgr DATE: 5-1-97
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: MICHAEL TABOVICH TELEPHONE NO. 505-334-6186

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 5/2/97

APPROVED BY: Martyn J. Kiely TITLE: Environmental Geologist DATE: 5/6/97

District I - (505) 393-6161
P.O. Box 1980
Hobbs, NM 88241-1980
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Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

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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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District O

Env JN: _____

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒ - Ernie Bush 5/2/97 Roy Anderson 5/2/97 Verbal Approval Received: Yes ☒ No ☐	4. Generator Giant Refining
	5. Originating Site Bloomfield Refinery
2. Management Facility Destination Envirotech Soil RemediationFac. Landfarm #2	6. Transporter — Sonny's Trucking
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR) #50 CR 4990 Bloomfield NM 87413	

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.

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BRIEF DESCRIPTION OF MATERIAL:

TANK 27 BOTTOMS. SLURRY RUN DOWN. TANK CONTAINED #6 BUNKER FUEL. BOTTOMS ARE EMULSIFIED OIL, FCC CATALYST FINES (SILICA) ~ 1-2% WATER.

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MAY 12 1997
OIL CON. DIV.
DIST. 3

— TCLP ATTACHED
14 roll-offs

Estimated Volume 300 in 15 Roll-offs cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Robert M. Young TITLE: Landfarm ~~Manager~~ Super DATE: 5/2/97
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: ~~Harlan M. Brown~~ Robert M. Young TELEPHONE NO. (505)632-0615

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 5/2/97

APPROVED BY: Martyne J. Kieling TITLE: Environmental Geologist DATE: 5/6/97

1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

(505) 827-7131

Di

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Giant Refining
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site Bloomfield R
2. Management Facility Destination Controlled Recovery, Inc.	6. Transporter Sonny's & Cact
3. Address of Facility Operator P.O. Box 369 Hobbs	8. State New Mexico
7. Location of Material (Street Address or ULSTR) P.O. Box 159 Bloomfield, New Mexico 87413	

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All transporters must certify the wastes delivered are only those consigned for transport.

RECEIVE

APR 3 0 1997

Environmental Bureau
Oil Conservation Divis

BRIEF DESCRIPTION OF MATERIAL:

Tank # 27 Giant - Bloomfield Refinery

6 fuel oil to be recycled through Controlled Recovery, Inc.' s reclamation plant at Halfway, New Mexico

OCD RUBBER OFFICE
APR 2 4 1997
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MAY 1 2 1997
OIL CON. DIV.
DIST. 3

6 roll-offs

Estimated Volume 1000 bbls cy Known Volume (to be entered by the operator at the end of the haul) _____

SIGNATURE: Billie Charo TITLE: Office Manager DATE: 04/23/97
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Billie Charo TELEPHONE NO. (505)393-1079

(This space for State Use)

APPROVED BY: [signature] TITLE: Envir Engr DATE: 4/24/97

APPROVED BY: Martyne J. Kieling TITLE: Environmental Geologist DATE: 4/25/97

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
Aztec, 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: ☐ Non-Exempt: ☒ - Ernie Bush 5/2/97 - Roger Anderson 5/2/97 Verbal Approval Received: Yes ☒ No ☐	4. Generator Giant Refining 5. Originating Site Bloomfield Refinery
2. Management Facility Destination Envirotech Soil RemediationFac Landfarm #2	6. Transporter — Sonny's Trucking
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR) #50 CR 4990 Bloomfield NM 87413	

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TANK 27 BOTTOMS. SLURRY RUN DOWN. TANK CONTAINED #6 BUNKER FUEL. BOTTOMS ARE EMULSIFIED OIL, FCC CATALYST FINES (SILICA) ~ 1-2% WATER.

— TCLP ATTACHED

Estimated Volume 300 in 15 Roll-offs. cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Robert M. Young TITLE: Landfarm ~~Manager~~ Supv DATE: 5/2/97
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: ~~Harlan M. Brown~~ Robert M. Young TELEPHONE NO. (505)632-0615

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 5/2/97

APPROVED BY: _____ TITLE: _____ DATE: _____

ENVIROTECH INC.

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CERTIFICATE OF WASTE STATUS
OILFIELD NON-EXEMPT WASTE MATERIAL

Originating Location: Giant Refining - Bloomfield Refinery - Tank 27 Bottoms.

Source: Tank 27 Bottoms

Disposal Location: Envirotech Soil Remediation Facility, (NMED)
Hilltop, New Mexico

"As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt oilfield production waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, to verify the nature as non-hazardous. I further certify that to my knowledge no "hazardous or listed waste" pursuant to the provisions of 40 CFR, part 261, Subparts C and D, has been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, section 261.3(b)."

I, the undersigned, as the agent for GIANT REFINING CO. concur with the status of the waste from the subject site.

Name LYNN SHELTON
Title/Agency ENVIRONMENTAL MGR.

Address #50 CR 4990
BLOOMFIELD, NM 87413

Signature Lynn Shelton

Date 5/2/97

5796 U.S. Highway 64-3014 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

Inter-Mountain
Laboratories, Inc.

2506 West Main Street
Farmington, New Mexico 87401
Tel. (505) 326-4737

Lynn Shelton
Giant Refining Company
P.O. Box 159
Bloomfield, NM 87413

25 April 1997

Mr. Shelton:

Enclosed please find the reports for the samples received by our laboratory for analysis on April 17, 1997.

If you have any questions about the results of these analyses, please don't hesitate to call at your convenience.

Sincerely,

Sharon Williams
Organic Analyst

Enclosures

xc: File

Ved for TCLP, Ignitability, Reactivity, Corrosivity
5/6/97 [illegible]. OK to Accept at LF 2.

Inter-Mountain Laboratories, Inc

2506 W. Main Street
Farmington, New Mexico 87401

TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL CONCENTRATION

Client:	Giant Refining Company		
Project:	Bloomfield	Date Reported:	04/23/97
Sample ID:	Tank 27	Date Sampled:	04/17/97
Laboratory ID:	0397G00645	Date Received:	04/17/97
Sample Matrix:	soil	Date Analyzed:	04/23/97

Parameter	Result	Detection Limit	Regulatory Level	Units
✓Arsenic.....	<0.005	0.005	5	mg/L
✓Barium.....	*0.914	0.01	100	mg/L
✓Cadmium.....	<0.004	0.004	1	mg/L
✓Chromium.....	<0.01	0.01	5	mg/L
✓Lead.....	<0.05	0.05	5	mg/L
✓Mercury.....	<0.001	0.001	0.2	mg/L
✓Selenium.....	<0.005	0.005	1	mg/L
✓Silver.....	<0.01	0.01	5	mg/L

ND- Analyte not detected at stated detection level.

References: Method 1311: Toxicity Characteristic Leaching Procedure, SW-846, Rev. 0, July 1992.

Method 3010A: Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, Rev. 1, July 1992.

Comments: *Analyte detected in Method Blank.

Reported By: [signature]

Reviewed: DB

Inter-Mountain Laboratories, Inc

2506 W. Main Street
Farmington, New Mexico 87401

Quality Control / Quality Assurance

Spike Analysis / Blank Analysis

TOXICITY CHARACTERISTIC LEACHING PROCEDURE

Client:	Giant Refining Company	Date Reported:	04/23/97
Project:	Bloomfield	Date Analyzed:	04/23/97
Sample Matrix:	soil	Date Received:	04/17/97

Spike Analysis

Parameter	Spike Result (mg/L)	Sample Result (mg/L)	Spike Added (mg/L)	Percent Recovery
Arsenic	*	*	*	*
Barium	0.99	<0.01	1.00	99%
Cadmium	1.040	<0.004	1.000	104%
Chromium	1.02	<0.01	1.00	102%
Lead	1.04	<0.05	1.00	104%
Mercury	0.025	<0.001	0.025	98%
Selenium	0.024	<0.005	0.025	96%
Silver	1.04	<0.01	1.00	104%

Method Blank Analysis

Parameter	Result	Detection Limit	Units
Arsenic	ND	0.005	mg/L
Barium	**1.09	0.01	mg/L
Cadmium	ND	0.004	mg/L
Chromium	ND	0.01	mg/L
Lead	ND	0.005	mg/L
Mercury	ND	0.001	mg/L
Selenium	ND	0.005	mg/L
Silver	ND	0.01	mg/L

References:

Method 1311: Toxicity Characteristic Leaching Procedure, SW-846, Rev. 0, July 1992.

Method 3010A: Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, Rev. 1, July 1992.

Comments:

*No Spike data available.
**Analyte present in Method Blank.

Reported by _____ Reviewed by _____

Inter-Mountain Laboratories, Inc

2506 W. Main Street
Farmington, New Mexico 87401

Quality Control / Quality Assurance

Known Analysis

TOXICITY CHARACTERISTIC LEACHING PROCEDURE

Client:	Giant Refining Company	Date Reported:	04/23/97
Project:	Bloomfield	Date Analyzed:	04/23/97
Sample Matrix:	soil	Date Received:	04/17/97

Known Analysis

Parameter	Found Result	Known Result	Percent Recovery	Units
Arsenic	0.009	0.010	90%	mg/L
Barium	1.03	1.00	103%	mg/L
Cadmium	1.020	1.000	98%	mg/L
Chromium	1.03	1.00	103%	mg/L
Lead	1.05	1.00	105%	mg/L
Mercury	0.008	0.008	100%	mg/L
Selenium	0.010	0.010	100%	mg/L
Silver	2.13	2.00	107%	mg/L

References:

Method 1311: Toxicity Characteristic Leaching Procedure, SW-846, Rev. 0, July 1992.

Method 3010A: Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, Rev. 1, July 1992.

Comments:

Reported by _____

Reviewed by _____

Inter-Mountain Laboratories, Inc.

2506 W. Main Street
Farmington, New Mexico 87401

Flash Point

Client:	**Giant Refining Company**		
Project:	Bloomfield	Date Reported:	04/23/97
Sample ID:	Tank 27	Date Sampled:	04/17/97
Laboratory ID:	0397G00645	Date Received:	04/17/97
Sample Matrix:	soil		
Condition:	Intact		

Analyte	Result	Units
Flash Point	>140°F	°F

References:

Analysis performed according to SW-846 "Test Methods for Evaluating Solid Waste: Physical / Chemical Methods" United States Environmental Protection Agency 3rd Edition, Final Update II, September, 1994.

Annual Book of ASTM Standards, Method D56.

Reported by: _____

Reviewed by: DB

Inter-Mountain Laboratories, Inc

2506 W. Main Street
Farmington, New Mexico 87401

Client:	**Giant Refining Company**		
Project:	Bloomfield		
Sample ID:	Tank 27	Date Reported:	04/23/97
Laboratory ID:	0397G00645	Date Sampled:	04/17/97
Sample Matrix:	soil	Time Sampled:	
Condition:	Cool/Intact	Date Received:	04/17/97

Parameter	Analytical Result	Units
pH	7.63	s.u.

Reference:

Reported by _____

Reviewed by SB

Inter-Mountain Laboratories, Inc.

1160 Research Drive
Bozeman, Montana 59718

RCRA CHARACTERIZATION

Client: GIANT REFINING COMPANY
Sample ID: Tank 27
Project ID: Bloomfield, NM
Lab ID: B971928
Matrix: Soil

Date Reported: 04/23/97
Date Sampled: 04/17/97
Date Received: 04/18/97
Date Extracted: 04/20/97

Parameter	Date Analyzed	Result	PQL	Regulatory Level	Units
Reactivity-Cyanide	04/21/97	ND	10	250	mg/kg
Reactivity-Sulfide	04/21/97	ND	25	500	mg/kg

ND - Not Detected at Practical Quantitation Level (PQL)

Reference: SW-846, United States Environmental Protection Agency, Nov. 1986.

Analyst [signature]

Reviewed CRB

Inter·Mountain Laboratories, Inc.
1160 Research Drive
Bozeman, Montana 59718

TOXICITY CHARACTERISTIC LEACHING PROCEDURE
HSL VOLATILE COMPOUNDS

Client: GIANT REFINING COMPANY
Sample ID: Tank 27
Project ID: Bloomfield, NM
Lab ID: B971928
Matrix: Soil

Date Reported: 04/21/97
Date Sampled: 04/17/97
Date Received: 04/18/97
Date Extracted: 04/19/97
Date Analyzed: 04/21/97

Parameter	Result	PQL	Regulatory Level	Units
✓ 1,1-Dichloroethene	ND	0.02	0.7	mg/L
✓ 1,2-Dichloroethane	ND	0.02	0.5	mg/L
✓ 2-Butanone (MEK)	ND	0.1	200	mg/L
✓ Benzene	0.023	0.02	0.5	mg/L
✓ Carbon Tetrachloride	ND	0.02	0.5	mg/L
✓ Chlorobenzene	ND	0.02	100	mg/L
✓ Chloroform	ND	0.02	6.0	mg/L
✓ Tetrachloroethene (PCE)	ND	0.02	0.7	mg/L
✓ Trichloroethene (TCE)	ND	0.02	0.5	mg/L
✓ Vinyl Chloride	ND	0.02	0.2	mg/L

QUALITY CONTROL - Surrogate Recovery	%	QC Limits
1,2-Dichloroethane-d4	93	80 - 120
Bromofluorobenzene	83 #	86 - 115
Toluene-d8	102	88 - 110

ND - Not Detected at Practical Quantitation Level (PQL)
- Surrogate Recovery not within control limits.

Reference: Method 8260A Gas Chromatography/Mass Spectrometry for Volatile Organics, Test Methods for Evaluating Solid Wastes, SW-846, Final Update II, United States Environmental Protection Agency, September 1994.
Method 1311, Toxicity Characteristic Leaching Procedure, Test Methods for Evaluating Solid Wastes, SW-846, United States EPA, September 1994.

Analyst E.D. **Reviewed** CRB

Inter·Mountain Laboratories, Inc.
1160 Research Drive
Bozeman, Montana 59718

TOXICITY CHARACTERISTIC LEACHING PROCEDURE
HSL SEMI-VOLATILE COMPOUNDS

Client: GIANT REFINING COMPANY
Sample ID: Tank 27
Project ID: Bloomfield, NM
Lab ID: B971928
Matrix: Soil

Date Reported: 04/21/97
Date Sampled: 04/17/97
Date Received: 04/18/97
Date Extracted: 04/19/97
Date Analyzed: 04/20/97

Parameter	Result	PQL	Regulatory Level	Units
✓1,4-Dichlorobenzene	ND	0.01	7.5	mg/L
✓2,4,5-Trichlorophenol	ND	0.02	400	mg/L
✓2,4,6-Trichlorophenol	ND	0.02	2.0	mg/L
✓2,4-Dinitrotoluene	ND	0.01	0.13	mg/L
✓Hexachloro-1,3-butadiene	ND	0.02	0.5	mg/L
✓Hexachlorobenzene	ND	0.02	0.13	mg/L
✓Hexachloroethane	ND	0.02	3.0	mg/L
✓m,p-Cresol	0.011	0.01	200	mg/L
✓Nitrobenzene	ND	0.01	2.0	mg/L
✓o-Cresol	ND	0.01	200	mg/L
✓Pentachlorophenol	ND	0.05	100	mg/L
✓Pyridine	ND	0.02	5.0	mg/L

QUALITY CONTROL - Surrogate Recovery	%	QC Limits
2,4,6-Tribromophenol	78	10 - 123
2-Fluorobiphenyl	60	43 - 116
2-Fluorophenol	49	21 - 100
Nitrobenzene-d5	63	35 - 114
Phenol-d6	47	10 - 94
Terphenyl-d14	58	33 - 121

ND - Not Detected at Practical Quantitation Level (PQL)
TCLP extraction performed on 04/19/97.

Reference: Method 8270B, Gas Chromatography/Mass Spectrometry for Semivolatile Organics, Test Methods for Evaluating Solid Wastes, SW-846, United States EPA, September 1994.
Method 1311, Toxicity Characteristic Leaching Procedure, Test Methods for Evaluating Solid Wastes, SW-846, United States EPA, September 1994.

Analyst _____ **Reviewed** CRB

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Bozeman, Montana 59718

TOXICITY CHARACTERISTIC LEACHING PROCEDURE
ORGANOCHLORINE PESTICIDES

Client: GIANT REFINING COMPANY
Sample ID: Tank 27
Project ID: Bloomfield, NM
Lab ID: B971928
Matrix: Soil

Date Reported: 04/21/97
Date Sampled: 04/17/97
Date Received: 04/18/97
Date Extracted: 04/19/97
Date Analyzed: 04/20/97

Parameter	Result	PQL	Units
✓Chlordane	ND	0.03	mg/L
✓Endrin	ND	0.0002	mg/L
✓gamma-BHC (Lindane)	ND	0.0002	mg/L
✓Heptachlor	ND	0.0002	mg/L
Heptachlor epoxide	ND	0.0002	mg/L
✓Methoxychlor	ND	0.0004	mg/L
✓Toxaphene	ND	0.5	mg/L

ND - Not Detected at Practical Quantitation Level (PQL)

Reference: Method 8081, Organochlorine Pesticides and PCB's, Test Methods for Evaluating Solid Waste, SW-846, United States EPA, September 1994.
Method 1311, Toxicity Characteristic Leaching Procedure, Test Methods for Evaluating Solid Wastes, SW-846, United States EPA, September 1994.

Analyst VDA

Reviewed CRB

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Bozeman, Montana 59718

TOXICITY CHARACTERISTIC LEACHING PROCEDURE
CHLORINATED HERBICIDES

Client:	GIANT REFINING COMPANY		
Sample ID:	Tank 27	Date Reported:	04/23/97
Project ID:	Bloomfield, NM	Date Sampled:	04/17/97
Lab ID:	B971928	Date Received:	04/18/97
Matrix:	Soil	Date Extracted:	04/21/97
		Date Analyzed:	04/22/97

Parameter	Result	PQL	Units
2,4-D (2,4-Dichlorophenoxyacetic acid)	ND	1.0	mg/L
Silvex	ND	0.1	mg/L

ND - Not Detected at Practical Quantitation Level (PQL)

Reference: Method 8151, Chlorinated Herbicides by GC Using Methylation Derivatization: Capillary Column Technique, Test Methods for Evaluating Solid Waste, United States Environmental Protection Agency, SW-846, September 1994.
Method 1311, Toxicity Characteristic Leaching Procedure, Test Methods for Evaluating Solid Wastes, SW-846, United States EPA, September 1994.

Analyst _____ **Reviewed** _____

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QUALITY ASSURANCE / QUALITY CONTROL

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LAB QA/QC
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
METHOD BLANK

Date Analyzed: 04/21/97
Lab ID: MBW97108
Matrix: Water
Date Extracted 04/19/97

Parameter	Result	PQL	Units
1,1-Dichloroethene	ND	0.02	mg/L
1,2-Dichloroethane	ND	0.02	mg/L
2-Butanone (MEK)	ND	0.1	mg/L
Benzene	ND	0.02	mg/L
Carbon Tetrachloride	ND	0.02	mg/L
Chlorobenzene	ND	0.02	mg/L
Chloroform	ND	0.02	mg/L
Tetrachloroethene (PCE)	ND	0.02	mg/L
Trichloroethene (TCE)	ND	0.02	mg/L
Vinyl Chloride	ND	0.02	mg/L

QUALITY CONTROL - Surrogate Recovery	%
1,2-Dichloroethane-d4	94
Bromofluorobenzene	99
Toluene-d8	97

ND - Not Detected at Practical Quantitation Level (PQL)

Analyst E. D.

Reviewed CZB

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LAB QA/QC
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
MATRIX SPIKE SUMMARY

Date Analyzed: 04/21/97
Laboratory ID: W1928
Sample Matrix: SOIL
Date Extracted: 4/19/97

Parameter	Spike Added mg/L	Sample Concentration mg/L	Matrix Spike Concentration mg/L	Matrix Spike Recovery (%)
Vinyl Chloride	0.05	0	0.056	112
1,1-Dichloroethene	0.05	0	0.058	116
1,2-Dichloroethane	0.05	0	0.051	102
Chloroform	0.05	0	0.052	104
Carbon Tetrachloride	0.05	0	0.051	102
Trichloroethene	0.05	0	0.055	110
Benzene	0.05	0.023	0.078	110
Tetrachloroethene	0.05	0	0.056	112
Chlorobenzene	0.05	0	0.054	108
Methyl Ethyl Ketone	0.1	0	0.086	86

QUALITY CONTROL:

Surrogate Recovery	%
1,2-Dichloroethane-d4	99
Toluene-d8	101
Bromofluorobenzene	93

References:

Method 8260, Gas Chromatography/Mass Spectrometry for Volatile Organics, Test Methods for Evaluating Solid Wastes, SW-846, Final Update II,United States Environmental Protection Agency, September 1994.

Method 1311, Toxicity Characteristic Leaching Procedure, Test Methods for Evaluating Solid Wastes, SW-846, United States Environmental Protection Agency, September 1994.

E.D.
Analyst

CLB
Reviewed

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LAB QA/QC
EPA METHOD 8270
METHOD BLANK

Date Analyzed: 04/20/97
Lab ID: MBW97109
Matrix: Water
Date Extracted: 04/19/97

Parameter	Result	PQL	Units
1,2,4-Trichlorobenzene	ND	10	ug/L
1,2-Dichlorobenzene	ND	10	ug/L
1,3-Dichlorobenzene	ND	10	ug/L
1,4-Dichlorobenzene	ND	10	ug/L
2,4,5-Trichlorophenol	ND	10	ug/L
2,4,6-Trichlorophenol	ND	10	ug/L
2,4-Dichlorophenol	ND	10	ug/L
2,4-Dimethylphenol	ND	20	ug/L
2,4-Dinitrophenol	ND	50	ug/L
2,4-Dinitrotoluene	ND	10	ug/L
2,6-Dinitrotoluene	ND	10	ug/L
2-Chloronaphthalene	ND	10	ug/L
2-Chlorophenol	ND	10	ug/L
2-Methylnaphthalene	ND	10	ug/L
2-Methylphenol	ND	20	ug/L
2-Nitroaniline	ND	10	ug/L
2-Nitrophenol	ND	10	ug/L
3,3'-Dichlorobenzidine	ND	20	ug/L
3-Methylphenol/4-Methylphenol	ND	50	ug/L
3-Nitroaniline	ND	10	ug/L
4,6-Dinitro-2-methylphenol	ND	50	ug/L
4-Bromophenyl-phenylether	ND	10	ug/L
4-Chloro-3-methylphenol	ND	10	ug/L
4-Chloroaniline	ND	10	ug/L
4-Chlorophenyl-phenylether	ND	10	ug/L
4-Nitroaniline	ND	10	ug/L
4-Nitrophenol	ND	50	ug/L
Acenaphthene	ND	10	ug/L
Acenaphthylene	ND	10	ug/L
Anthracene	ND	10	ug/L
Benzo(a)anthracene	ND	10	ug/L
Benzo(a)pyrene	ND	10	ug/L
Benzo(b)fluoranthene	ND	10	ug/L

Continued

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LAB QA/QC
EPA METHOD 8270
METHOD BLANK

Date Analyzed: 04/20/97
Lab ID: MBW97109
Matrix: Water
Date Extracted: 04/19/97

Parameter	Result	PQL	Units
Benzo(g,h,i)perylene	ND	10	ug/L
Benzo(k)fluoranthene	ND	10	ug/L
Benzoic Acid	ND	50	ug/L
Benzyl Alcohol	ND	10	ug/L
bis(2-Chloroethoxy)methane	ND	10	ug/L
bis(2-Chloroethyl)ether	ND	10	ug/L
bis(2-Chloroisopropyl)ether	ND	10	ug/L
bis(2-Ethylhexyl)phthalate	ND	10	ug/L
Butylbenzylphthalate	ND	10	ug/L
Chrysene	ND	10	ug/L
Di-n-Butylphthalate	ND	10	ug/L
Di-n-Octylphthalate	ND	10	ug/L
Dibenz(a,h)anthracene	ND	10	ug/L
Dibenzofuran	ND	10	ug/L
Diethylphthalate	ND	10	ug/L
Dimethylphthalate	ND	10	ug/L
Fluoranthene	ND	10	ug/L
Fluorene	ND	50	ug/L
Hexachlorobenzene	ND	10	ug/L
Hexachlorobutadiene	ND	10	ug/L
Hexachlorocyclopentadiene	ND	10	ug/L
Hexachloroethane	ND	10	ug/L
Indeno(1,2,3-cd)pyrene	ND	10	ug/L
Isophorone	ND	10	ug/L
N-Nitrosodi-n-propylamine	ND	10	ug/L
N-Nitrosodiphenylamine	ND	10	ug/L
Naphthalene	ND	10	ug/L
Nitrobenzene	ND	10	ug/L
Pentachlorophenol	ND	50	ug/L
Phenanthrene	ND	10	ug/L
Phenol	ND	10	ug/L
Pyrene	ND	10	ug/L

Continued

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LAB QA/QC
EPA METHOD 8270
METHOD BLANK

Date Analyzed: 04/20/97
Lab ID: MBW97109
Matrix: Water
Date Extracted: 04/19/97

Parameter	Result	PQL	Units

Continued

QUALITY CONTROL - Surrogate Recovery	%	QC Limits
2,4,6-Tribromophenol	76	10 - 123
2-Fluorobiphenyl	61	43 - 116
2-Fluorophenol	54	21 - 110
Nitrobenzene-d5	65	35 - 114
Phenol-d6	50	10 - 110
Terphenyl-d14	64	33 - 141

ND - Not Detected at Practical Quantitation Level (PQL)

Analyst _____ Reviewed _____

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TOXICITY CHARACTERISTIC LEACHING PROCEDURE - TCLP
HSL SEMI-VOLATILE COMPOUNDS
TCLP METHOD BLANK

Date Analyzed: 04/20/97
Laboratory ID: TMB97-108
Sample Matrix: Extraction Fluid
Date Extracted: 04/19/97
TCLP Extracted: 04/19/97

Parameter	Analytical Result (mg/L)	Detection Limit (mg/L)	Regulatory Limit (mg/L)
1,4-Dichlorobenzene	ND	0.01	7.5
Hexachloroethane	ND	0.02	3
Nitrobenzene	ND	0.01	2
Hexachloro-1,3-butadiene	ND	0.02	0.5
2,4,6-Trichlorophenol	ND	0.02	2
2,4,5-Trichlorophenol	ND	0.02	400
2,4-Dinitrotoluene	ND	0.01	0.13
Hexachlorobenzene	ND	0.02	0.13
Pentachlorophenol	ND	0.05	100
o-Cresol	ND	0.01	200 **
m & p-Cresol *	ND	0.01	200 **
Pyridine	ND	0.02	5

ND - Compound not detected at stated Detection Limit
B - Compound detected in Method Blank.
* - Compounds coelute by GCMS.
** - Regulatory Limit of combined Cresols.

QUALITY CONTROL:

Surrogate Recoveries	%
2,4,6-Tribromophenol	80
2-Fluorobiphenyl	60
2-Fluorophenol	55
Nitrobenzene-d5	64
Phenol-d6	50
Terphenyl-d14	59

References:

Method 8270B, Semivolatile Organics - GC/MS, Test Methods for Evaluating Solid Waste, USEPA, SW-846, Vol. IB, September 1994.

Method 1311, Toxicity Characteristic Leaching Procedure, Test Methods for Evaluating Solid Waste, USEPA, SW-846, Vol. IB, September 1994.

Analyst

Reviewed

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Bozeman, Montana 59718

LAB QA/QC
TCLP SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS
MATRIX SPIKE / MATRIX SPIKE DUPLICATE SUMMARY

Date Analyzed: 04/20/97
Laboratory ID: B97-01831
Sample Matrix: Sand
Date Extracted: 04/19/97

ORIGINAL SAMPLE PARAMETERS

Parameter	Spike Added (mg/L)	Sample Conc. (mg/L)	MS Conc. (mg/L)	MS Recovery (%)
1,4-Dichlorobenzene	0.100	0.000	0.066	66
2,4,5-Trichlorophenol	0.100	0.000	0.075	75
2,4,6-Trichlorophenol	0.100	0.000	0.071	71
2,4-Dinitrotoluene	0.100	0.000	0.086	86
Hexachlorobenzene	0.100	0.000	0.075	75
Hexachlorobutadiene	0.100	0.000	0.062	62
Hexachloroethane	0.100	0.000	0.063	63
m,p-Cresol	0.200	0.000	0.146	73
Nitrobenzene	0.100	0.000	0.068	68
o-Cresol	0.100	0.000	0.080	80
Pentachlorophenol	0.100	0.000	0.074	74
Pyridine	0.100	0.000	0.073	73

DUPLICATE SAMPLE PARAMETERS

Parameter	Spike Added (mg/L)	MSD Conc. (mg/L)	MSD Recovery (%)	RPD (%)
1,4-Dichlorobenzene	0.100	0.067	67	2
2,4,5-Trichlorophenol	0.100	0.074	74	1
2,4,6-Trichlorophenol	0.100	0.068	68	4
2,4-Dinitrotoluene	0.100	0.082	82	5
Hexachlorobenzene	0.100	0.070	70	7
Hexachlorobutadiene	0.100	0.062	62	0
Hexachloroethane	0.100	0.065	65	3
m,p-Cresol	0.200	0.145	73	1
Nitrobenzene	0.100	0.067	67	1
o-Cresol	0.100	0.080	80	0
Pentachlorophenol	0.100	0.069	69	7
Pyridine	0.100	0.069	69	6

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LAB QA/QC
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC/MS
MATRIX SPIKE SUMMARY

Date Analyzed: 04/20/97
Laboratory ID: TBS97-105
Sample Matrix: Water
Date Extracted: 04/19/97

Parameter	Spike Added (mg/L)	Sample Concentration (mg/L)	Matrix Spike Concentration (mg/L)	Matrix Spike Recovery (%)
1,4-Dichlorobenzene	0.1	0	0.064	64
2,4,5-Trichlorophenol	0.1	0	0.077	77
2,4,6-Trichlorophenol	0.1	0	0.071	71
2,4-Dinitrotoluene	0.1	0	0.085	85
Hexachlorobenzene	0.1	0	0.073	73
Hexachlorobutadiene	0.1	0	0.060	60
Hexachloroethane	0.1	0	0.062	62
m,p-Cresol	0.2	0	0.148	74
Nitrobenzene	0.1	0	0.068	68
o-Cresol	0.1	0	0.079	79
Pentachlorophenol	0.1	0	0.081	81
Pyridine	0.1	0	0.054	54

QUALITY CONTROL:

Surrogate Recoveries	%
2,4,6-Tribromophenol	81
2-Fluorobiphenyl	64
2-Fluorophenol	60
Nitrobenzene-d5	66
Phenol-d6	55
Terphenyl-d14	63

References:

Method 8270B, Semivolatile Organics - GC/MS, Test Methods for Evaluating Solid Waste, USEPA, SW-846, Vol. IB, September 1994.

Analyst

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EPA METHOD 8081
ORGANOCHLORINE PESTICIDES
METHOD BLANK

Client:	GIANT REFINING COMPANY		
Sample ID:	Method Blank	Date Reported:	04/21/97
Project ID:	Bloomfield, NM	Date Sampled:	NA
Laboratory ID:	MBW970109	Date Received:	NA
Sample Matrix:	Water	Date Extracted:	04/19/97
		Date Analyzed:	04/20/97

Parameter	Analytical Results	PQL	Units
Endrin	ND	0.0002	mg/L
Lindane	ND	0.0002	mg/L
Heptachlor	ND	0.0002	mg/L
Heptachlor Epoxide	ND	0.0002	mg/L
Methoxychlor	ND	0.0004	mg/L
Chlordane	ND	0.0300	mg/L
Toxaphene	ND	0.5000	mg/L

ND - Parameter Not Detected at Stated Detection Limit

QUALITY CONTROL

Surrogate Recoveries	Percent
Dibutyl Chlorendate	95

References:

Method 8081, Organochlorine Pesticides and PCB s, Test Methods for Evaluating Solid Waste, United States Environmental Protection Agency SW-846, September, 1994

Analyst CDH

Reviewed CZB

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Bozeman, Montana 59718

TOXICITY CHARACTERISTIC LEACHING PROCEDURE
ORGANOCHLORINE PESTICIDES
EXTRACTION BLANK

Client:	GIANT REFINING COMPANY		
Sample ID:	Extraction Blank	Date Reported:	04/21/97
Project ID:	Bloomfield, NM	Date Sampled:	04/17/97
Laboratory ID:	TMB-108-1	Date Received:	04/18/97
Sample Matrix:	Extraction Fluid	Date Extracted:	04/19/97
		Date Analyzed:	04/20/97
		Date Extracted-TCLP:	04/19/97

Parameter	Analytical Results	PQL	Units
Endrin	ND	0.0002	mg/L
Lindane	ND	0.0002	mg/L
Heptachlor	ND	0.0002	mg/L
Heptachlor Epoxide	ND	0.0002	mg/L
Methoxychlor	ND	0.0004	mg/L
Chlordane	ND	0.0300	mg/L
Toxaphene	ND	0.5000	mg/L

ND - Parameter Not Detected at Stated Detection Limit

QUALITY CONTROL

Surrogate Recoveries	Percent
Dibutyl Chlorendate	100

References:

Method 8081, Organochlorine Pesticides and PCB s, Test Methods for Evaluating Solid Waste, United States Environmental Protection Agency SW-846, September, 1994

Method 1311, Toxicity Characteristic Leaching Procedure, Test Methods for the Evaluating Solid Waste, USEPA, SW-846, September, 1994.

Analyst

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TOXICITY CHARACTERISTIC LEACHING PROCEDURE
ORGANOCHLORINE PESTICIDES
MATRIX SPIKE

Client:	GIANT REFINING COMPANY		
Sample ID:	Matrix Spike	Date Reported:	04/21/97
Project ID:	Bloomfield, NM	Date Sampled:	04/17/97
Laboratory ID:	MSS970109	Date Received:	04/18/97
Sample Matrix:	Sample TCLP Extract	Date Extracted:	04/19/97
		Date Analyzed:	04/20/97
		Date Extracted-TCLP:	04/19/97

Parameter	Analytical Result (mg/L)	Expected Result (mg/L)	Percent Recovery
Endrin	0.0011	0.0008	138%
Lindane	0.0007	0.0008	93%
Heptachlor Epoxide	0.0008	0.0008	99%
Heptachlor	0.0007	0.0008	86%
Methoxychlor	0.0010	0.0008	120%

ND - Parameter Not Detected at Stated Detection Limit

QUALITY CONTROL

Surrogate Recoveries	Percent
Dibutyl Chlorendate	109

References:

Method 8081, Organochlorine Pesticides and PCBs, Test Methods for Evaluating Solid Waste, United States Environmental Protection Agency SW-846, September, 1994

Method 1311, Toxicity Characteristic Leaching Procedure, Test Methods for the Evaluating Solid Waste, USEPA, SW-846, September, 1994.

Analyst

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EPA METHOD 8081
ORGANOCHLORINE PESTICIDES
BLANK SPIKE

Client:	GIANT REFINING COMPANY		
Sample ID:	Blank Spike	Date Reported:	04/04/97
Project ID:	Bloomfield, NM	Date Sampled:	NA
Laboratory ID:	BSW970109	Date Received:	NA
Sample Matrix:	Water	Date Extracted:	03/26/97
		Date Analyzed:	03/29/97

Parameter	Analytical Result (mg/L)	Expected Result (mg/L)	Percent Recovery
Endrin	0.00091	0.0008	114%
Lindane	0.00078	0.0008	98%
Heptachlor Epoxide	0.00078	0.0008	98%
Heptachlor	0.00067	0.0008	84%
Methoxychlor	0.00078	0.0008	98%

ND - Parameter Not Detected at Stated Detection Limit

QUALITY CONTROL

Surrogate Recovery	Percent
Dibutyl Chlorendate	109

References:

Method 8081, Organochlorine Pesticides and PCBs, Test Methods for Evaluating Solid Waste, United States Environmental Protection Agency SW-846, September, 1994

Analyst

Reviewed

Inter-Mountain Laboratories, Inc.

CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location
GIANT - BLOOMFIELD	

Sampler: (Signature)	Chain of Custody Tape No.
Lynn Shelton	

ANALYSES / PARAMETERS

Sample No./ Identification	Date	Time	Lab Number	Matrix	No. of Containers	TCLP 8260	TCLP 8080, 8270, 8150 METALS		IGNITE CORROS-REACT	Remarks
TANK 27	4/17/97	1100		SOLIDS	3	X	X		X	

5 DAY RUSH!!!

Cool + intact

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Lynn Shelton	4/17/97	1651	Chris Raymer	4-17-97	1651
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by laboratory: (Signature)	Date	Time

Inter-Mountain Laboratories, Inc.

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- ☐ 1701 Phillips Circle, Gillette, Wyoming 82718, Telephone (307) 682-8945
- ☒ 2506 West Main Street, Farmington, NM 87401, Telephone (505) 326-4737
- ☐ 1160 Research Dr., Bozeman, Montana 59715, Telephone (406) 586-8450
- ☐ 11183 SH 30, College Station, TX 77845, Telephone (409) 776-8945

43931

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P.O. Drawer DD, Artesia, NM 88211-0719

DISTRICT III
1000 Rio Brazos Rd, Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

2040 S Pacheco
Santa Fe, New Mexico 87504-2088

Form C-117 A
Revised 4-1-91

PERMIT NO. 3-588

TANK CLEANING, SEDIMENT OIL REMOVAL, TRANSPORTATION OF MISCELLANEOUS HYDROCARBONS AND DISPOSAL PERMIT

Operator or Owner GIANT REFINING CO. Address #50 CR 4990 BLOOMFIELD, NM 87413

Lease or Facility Name BLOOMFIELD REFINERY Location F, 27-29N-11W
U.L. - Sec. - Twp. - Rge.

OPERATION TO BE PERFORMED:

☒ Tank Cleaning ☐ Sediment Oil Removal ☒ Transportation of Miscellaneous Hydrocarbons

Operator or Owner Representative authorizing work LYNN SHELTON

Date Work to be Performed 5/2/97 to 5/10/97

TANK CLEANING DATA Tank Number 27 Volume 10,000 BBL

Tank Type WELDED Volume Below Load Line 250 BBL.

SEDIMENT OIL OR MISCELLANEOUS HYDROCARBON DATA

Sediment Oil from: ☐ Pit ☐ Cellar ☐ Other

MISCELLANEOUS OIL

Tank Bottoms From: ☐ Pipeline Station ☐ Crude Terminal ☒ Refinery ☐ Other*

Catchings From: ☐ Gasoline Plant ☐ Gathering Lines ☐ Salt Water Disposal System ☐ Other*

Pipeline Break Oil or Spill ☐

*Other (Explain)

VOLUME AND DESTINATION: Estimated Volume 1500 Bbls. Field test volume of good oil 0 Bbls.
(Not required prior to Division approval)

Destination (Name and Location of treating plant or other facility) ENVIROTECH LAND FARM #2
BLOOMFIELD, NM 87413

DESTRUCTION OF SEDIMENT OIL BY: ☐ Burning ☒ Pit Disposal ☐ Use on Roads or firewalls ☐ Other
(Explain)

Location of Destruction ENVIROTECH LANDFARM #2.

Justification of Destruction

CERTIFICATION: (APPLICATION MAY BE MADE BY EITHER OF THE FOLLOWING)

I hereby certify that the infomation above is true and complete to the best of my knowledge and belief.

Owner GIANT REFINING CO.
By Lynn Shelton
Title ENVIRONMENTAL MANAGER
Date 5/2/97

Transporter SHORT MAN TRUCKING
Address P.O. BOX 2075 BLMFLD
Signature [illegible]
Title OWNER Date 5-2-97

OIL CONSERVATION DIVISION

Approved By [illegible] Title ~~DEPUTY OIL & GAS INSPECTOR, DIST. #3~~ Date MAY 2 1997

A COPY OF THIS FORM MUST BE ON LOCATION DURING TANK CLEANING, REMOVAL OF SEDIMENT OIL OR MISCELLANEOUS HYDROCARBONS, AND MUST BE PRESENTED WITH TANK BOTTOMS, SEDIMENT OIL OR MISCELLANEOUS HYDROCARBONS AT THE TREATING PLANT TO WHICH IT IS DELIVERED.

DISTRIBUTION BY OCD
Santa Fe
File
Operator
Transporter (2)

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
1000 Rio Brazos Road
Aztec, 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 11/8/95

Submit Original Plus 1 Copy to appropriate District Office

Env JN: 97018

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☒ Non-Exempt: ☐ Donna Faust 5-7-97 9:45 A.M.	4. Generator Natco
Verbal Approval Received: Yes ☒ No ☐	5. Originating Site Various E&P Locations
2. Management Facility Destination Envirotech Soil RemediationFac. Landfarm #2	6. Transporter Envirotech
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico.
7. Location of Material (Street Address or ULSTR)	2855 Southside River Rd. Farmington 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:

Solids generated during the reconditioning of various types of production equipment. Norm's Tested

RECEIVED
MAY - 8 1997
OIL CON. DIV.
DIST. 3

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

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 5-7-97
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. Foust TITLE: Geologist DATE: 5/12/97

APPROVED BY: [illegible] TITLE: [illegible] DATE: 5/12/97

NATCO

To whom it may concern.

The equipment on the following lists have all been N.O.R.M. tested by a NATCO qualified technician. Upon arrival to our yard. Or by a qualified person for the lease operator.

Thank You

Eric L. Moore
Q.C. Manager

NATCO, a division of
National Tank Company

2855 Southside River Road
Farmington, NM 87401

Tel: (505) 326-6537
Fax: (505) 327-1481

ENVIROTECH INC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

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

CERTIFICATE OF WASTE STATUS
OILFIELD EXEMPT WASTE

Originating Location: See Attached List

Source: Production equipment - Burlington Resources

Disposal Location: Envirotech Soil Remediation Facility, (ESRF)
Hilltop, New Mexico

"As a condition of acceptance for disposal, I hereby certify that this waste is an oilfield production exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. Additionally, to my knowledge, no non-exempt waste that is a "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has been added or mixed with the exempt waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, section 261.3(b)."

I, the undersigned, as the agent for Natco concur with the status of the waste from the subject site.

Name Eric Moore
Title/Agency QC Manager - Natco
Address 2855 Southside River Road
Farmington N.M. 87401
Signature [illegible]
Date 5-5-97

Farmington ~~[illegible]~~ Waste Solids.

Location	Job number
1- Sheets #250	7300 7480
2- Haidie D#2	7300 7377
3- Hanley WM 1E	7300 6582
4- Hagood -4	7300 6397
5- State Com 1Y	" 6364
6- Kelly #2	" 6337
7- 28-6 #47	" 6333
8- 28-6 #109	" 7750
9- Huerfano #200E (OK)	" 7591
10- 27-4 #14X	" 7503
11- 28-5 #98	" 7658
12- CLU #117	" 7543
13- 28-4 #202	" 7494
14- 27-4 #53	" 7531
15- 28-5 #59	USA00089
16- Kelly B #1R	73007680
17- 28-6 #423	73007664
18- Sunray B #1A	" 7666
19- Haidie D #2	" 7377
20- Florance #2A	" 7530

ENVIROTECH INC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

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

CERTIFICATE OF WASTE STATUS
OILFIELD EXEMPT WASTE

Originating Location: Federal #12

Source: Production Equipment - Conoco

Disposal Location: Envirotech Soil Remediation Facility, (ESRF)
Hilltop, New Mexico

"As a condition of acceptance for disposal, I hereby certify that this waste is an oilfield production exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. Additionally, to my knowledge, no non-exempt waste that is a "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has been added or mixed with the exempt waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, section 261.3(b)."

I, the undersigned, as the agent for Natco concur with the status of the waste from the subject site.

Name Eric L. Moore
Title/Agency Q.C. Manager - Natco
Address 2855 Southside River Road
Farmington N.M. 87401
Signature [illegible]
Date 5-5-97

ENVIROTECH INC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

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

CERTIFICATE OF WASTE STATUS
OILFIELD EXEMPT WASTE

Originating Location: Aneth Unit Battery #29

Source: Production Equipment - Texaco

Disposal Location: Envirotech Soil Remediation Facility, (ESRF) Hilltop, New Mexico

"As a condition of acceptance for disposal, I hereby certify that this waste is an oilfield production exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. Additionally, to my knowledge, no non-exempt waste that is a "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has been added or mixed with the exempt waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, section 261.3(b)."

I, the undersigned, as the agent for Natco concur with the status of the waste from the subject site.

Name Eric Moore
Title/Agency QC Manager - Natco
Address 8655 Southside River Road
Farmington N.M. 87401
Signature [signature]
Date 5-5-97

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
1000 Rio Brazos Road
Aztec, 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: ☒ Non-Exempt: ☐ DF 3-17-97?	4. Generator Western Gas Resources
Verbal Approval Received: Yes ☒ No ☐	5. Originating Site San Juan River Plant
2. Management Facility Destination Envirotech Soil RemediationFac Landfarm #2	6. Transporter ENVIROTECH
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State 99 Road 6500 Kirtland, 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:

Picking Solids from ~~Natural Gas Gathering~~ system (Hauled 3-17-97)

RECEIVED
MAY 12 1997
OIL CON. DIV.
DIST. 3

Estimated Volume 12 cy cy Known Volume (to be entered by the operator at the end of the haul) 11 cy

SIGNATURE: Harlan M Brown TITLE: Landfarm Manager DATE: 5-12-97
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. Foust TITLE: Geologist DATE: 5/12/97

APPROVED BY: Jerrie Busch TITLE: Geologist DATE: 5/12/97

Generator: Western Gas Resources, Inc.

CERTIFICATE OF WASTE STATUS
OILFIELD EXEMPT WASTE

Originating Location: San Juan River Plant

Source: Pigging Sludge from Gathering System

Disposal Location: Envirotech Soil Remediation Facility, (ESRF) Hilltop, New Mexico

"As a condition of acceptance for disposal, I hereby certify that this waste is an oilfield production exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. Additionally, to my knowledge, no non-exempt waste that is a "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has been added or mixed with the exempt waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Section 261.3(b)."

I, the undersigned, as agent for WESTERN GAS RESOURCES concur with the status of the waste from the subject site.

Name: Arlyn Thor

Title/Agency Field Supervisor
San Juan River Plant

Address PO Box 70, 99 CR 6500
Kirtland, NM 87417

Signature

Date 4-17-97
for 3-17-97
Transport

ENVIROTECH INC.
PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

579 U.S. Highway 64-3014 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1 65

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
1000 Rio Brazos Road
Aztec, 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: ☒ Non-Exempt: ☐ Denise Foust 4.29.97 10:00AM.	4. Generator Western Gas Resources
Verbal Approval Received: Yes ☒ No ☐	5. Originating Site San Juan River Plant
2. Management Facility Destination Envirotech Soil RemediationFac. Landfarm #2	6. Transporter Envirotech
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	99 Road 6500 Kirtland 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:

Pigging Solids from Natural Gas Gathering System

RECEIVED
MAY - 9 1997
OIL CON. DIV.
DIST. 3

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: 4.29.97
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. Foust TITLE: Geologist DATE: 5/12/97

APPROVED BY: Fred Bach TITLE: Geologist DATE: 5/12/97

Generator: Western Gas Resources, Inc.

CERTIFICATE OF WASTE STATUS
OILFIELD EXEMPT WASTE

Originating Location: San Juan River Plant

Source: Pigging Sludge from Gathering System

Disposal Location: Envirotech Soil Remediation Facility, (ESRF) Hilltop, New Mexico

"As a condition of acceptance for disposal, I hereby certify that this waste is an oilfield production exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. Additionally, to my knowledge, no non-exempt waste that is a "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has been added or mixed with the exempt waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, Section 261.3(b)."

I, the undersigned, as agent for WESTERN GAS RESOURCES concur with the status of the waste from the subject site.

Name: Arlyn Thors

Title/Agency Field Supervisor

San Juan River Plant

Address PO Box, 70, 99 CR 6500

Kirtland, NM 87417

Signature

Date 4-29-97

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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
Aztec, 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: 92142-04

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☒ Non-Exempt: ☐	4. Generator Pasco
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Main Yard
2. Management Facility Destination Envirotech Soil RemediationFac. Landfarm #2	6. Transporter Envirotech.
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	5680 US Hwy 64, Farmington.

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.

RECEIVED
MAY - 8 1997
OIL CON. DIV.
DIST. 3

Estimated Volume 23 drums cy Known Volume (to be entered by the operator at the end of the haul) 13 drums cy

SIGNATURE: Harlan M. Brown
Waste Management Facility Authorized Agent
TITLE: Landfarm Manager DATE: 5.7.97

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. (505)632-0615

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 5/12/97

APPROVED BY: Ernie Busch TITLE: Geologist DATE: 5/12/97

CERTIFICATE OF WASTE STATUS
OILFIELD EXEMPT WASTE

Originating Location: PESCO Main yard, 5680 US Hwy. 64, Farmington, NM

Source: Solids generated from cleaning and refurbishing production storage tanks, separators, dehydrators and other production equipment

Disposal Location: Envirotech Soil Remediation Facility, (ESRF) Hilltop, NM

"As a condition of acceptance for disposal, I hereby certify that this waste is an oilfield production exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. Additionally, to my knowledge, no non-exempt waste that is a "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has been added or mixed with the exempt waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, section 261.3(b)."

I, the undersigned, as the agent for Process Equipment & Service Company, Inc. concur with the status of the waste from the subject site.

Name: Blake Wallace

Title/Agency: Service Manager

Address: 5680 US Hwy 64, Farmington, NM 87401

Signature: Blake Wallace

Date: May 2, 1997

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
1000 Rio Brazos Road
Aztec, 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-1
Originated 8/

Submit Orig
Plus 1 C
to approp
District O

Env JN: 96070

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Giant Refining & Ta
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Hospah
2. Management Facility Destination Envirotech Soil RemediationFac. Landfarm #2	6. Transporter Freemyer
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	Section 1, T17N, 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:

Tank Bottoms - generated during destruction of Tanks

RECEIVED APR 17 1997 OIL CON. DIV. DIST. 3

RECEIVED APR 14 1997 Environmental Bureau Oil Conservation Division

RECEIVED APR 11 1997 OIL CON. DIV. DIST. 3

300bbls yields an additional

Estimated Volume 100 cy Known Volume (to be entered by the operator at the end of the haul) 260 209 cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 4.11.97
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. Foust TITLE: Geologist DATE: 4/11/97

APPROVED BY: Martyne J. Kieling TITLE: Environmental Geologist DATE: 4/17/97

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
Aztec, 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: 96070

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Giant Refining & Texas
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Hospah
2. Management Facility Destination Envirotech Soil RemediationFac Landfarm #2	6. Transporter Freemyer
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	Section 1, T17N, 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:

Tank Bottoms - generated during destruction of Tank.

RECEIVED
APR 11 1997
OIL CON. DIV.
DIST. 3

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

SIGNATURE: Harlan M. Brown
Waste Management Facility Authorized Agent
TITLE: Landfarm Manager DATE: 4.11.97

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. (505)632-0615

(This space for State Use)

APPROVED BY: Denny Foust TITLE: Geologist DATE: 4/11/97

APPROVED BY: _____ TITLE: _____ DATE: _____

425

Generator: GIANT TRANSPORTATION.

CERTIFICATE OF WASTE STATUS
OILFIELD NON-EXEMPT WASTE MATERIAL

Originating Location: Hospah Station sec1 Twn 17N Rge 9W

Source: Tank Bottoms

Disposal Location: Envirotech Soil Remediation Facility, (NMED) Hilltop, New Mexico

"As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt oilfield production waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, to verify the nature as non-hazardous. I further certify that to my knowledge no "hazardous or listed waste" pursuant to the provisions of 40 CFR, part 261, Subparts C and D, has been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, section 261.3(b)."

I, the undersigned, as the agent for Giant Industries concur with the status of the waste from the subject site.

Name Tim Kinney
Title/Agency General Manager

Address 5764 Hwy 64
Farmington

Signature Tim Kinney

Date 4/11/97

ENVIROTECH INC.
PRACTICAL SOLUTIONS FOR A BETTER TOMORROW
5796 U.S. Highway 64-3014 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

April 8, 1997

Mr. Mike Haddenham
Freemyer, Inc.
3600 Bloomfield Highway
Farmington, New Mexico 87401

Project No.: 96070

Dear Mr. Haddenham,

Enclosed are the analytical results for the sample collected from the Giant (Hospah), Hospah, NM location. One tank bottoms sample identified as "G-H-2" was collected by Freemyer designated personnel on 04/01/97, and delivered to the Envirotech Laboratory on 04/02/97 for for Hazardous Waste Characterization analysis (Volatile and Semi-volatile Organics, Metals, Reactivity, Corrosivity, and Ignitability).

The sample was documented on Envirotech Chain of Custody No. 5176 and assigned Laboratory No. B054 (G-H-2 Tank Bottoms) for tracking purposes.

Results of the analysis indicate that the material from the designated location is not a characteristic hazardous waste as defined by 40 CFR, Section 261, Subpart C for the noted compounds.

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 Sendler

Stacy W. Sendler
Environmental Scientist/Laboratory Manager

enc.

SWS\sws

96070lb2.wpd

5796 U.S. Highway 64-3014 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

SUSPECTED HAZARDOUS SOLID WASTE ANALYSIS

Client:	Freemyer	Project #:	96070
Sample ID:	G - H - 2	Date Reported:	04-07-97
Lab ID#:	B054	Date Sampled:	04-01-97
Sample Matrix:	Tank Bottoms	Date Received:	04-02-97
Preservative:	Cool	Date Analyzed:	04-02-97
Condition:	Cool & Intact	Chain of Custody:	5176

Parameter	Result	
IGNITABILITY:	**Negative**	
CORROSIVITY:	**Negative**	**pH = 6.66**
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: **Giant (Hospah), Hospah, NM.**

Analyst

Review

5796 U.S. Highway 64-3014 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS

Client:	Freemyer	Project #:	96070
Sample ID:	G - H - 2	Date Reported:	04-07-97
Laboratory Number:	B054	Date Sampled:	04-01-97
Chain of Custody:	5176	Date Received:	04-02-97
Sample Matrix:	Tank Bottoms	Date Extracted:	04-02-97
Preservative:	Cool	Date Analyzed:	04-04-97
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.0002	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	0.031	0.0001	200
Chloroform	ND	0.0003	6.0
Carbon Tetrachloride	ND	0.0003	0.5
Benzene	0.120	0.0001	0.5
1,2-Dichloroethane	ND	0.0002	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	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: **Giant (Hospah), Hospah, NM.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8040
PHENOLS

Client:	Freemyer	Project #:	96070
Sample ID:	G - H - 2	Date Reported:	04-07-97
Laboratory Number:	B054	Date Sampled:	04-01-97
Chain of Custody:	5176	Date Received:	04-02-97
Sample Matrix:	Tank Bottoms	Date Extracted:	04-02-97
Preservative:	Cool	Date Analyzed:	04-07-97
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limit (mg/L)
o-Cresol	0.023	0.020	200
p,m-Cresol	0.045	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	99%
	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. 198

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

Comments: **Giant (Hospah), Hospah, NM.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	Freemyer	Project #:	96070
Sample ID:	G - H - 2	Date Reported:	04-07-97
Laboratory Number:	B054	Date Sampled:	04-01-97
Chain of Custody:	5176	Date Received:	04-02-97
Sample Matrix:	Tank Bottoms	Date Extracted:	04-02-97
Preservative:	Cool	Date Analyzed:	04-04-97
Condition:	Cool and Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	**0.116**	**0.028**	**5.0**
Hexachloroethane	**ND**	**0.020**	**3.0**
Nitrobenzene	**0.029**	**0.020**	**2.0**
Hexachlorobutadiene	**ND**	**0.020**	**0.5**
2,4-Dinitrotoluene	**0.027**	**0.020**	**0.13**
HexachloroBenzene	**ND**	**0.024**	**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: **Giant (Hospah), Hospah, NM.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	Freemyer	Project #:	96070
Sample ID:	G - H - 2	Date Reported:	04-08-97
Laboratory Number:	B054	Date Sampled:	04-01-97
Chain of Custody:	5176	Date Received:	04-02-97
Sample Matrix:	Tank Bottoms	Date Analyzed:	04-08-97
Preservative:	Cool	Date Extracted:	04-02-97
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
Arsenic	**0.006**	**0.001**	**5.00**
Barium	**2.68**	**0.01**	**100**
Cadmium	**ND**	**0.001**	**1.00**
Chromium	**0.067**	**0.001**	**5.00**
Lead	**0.001**	**0.001**	**5.00**
Mercury	**ND**	**0.001**	**0.200**
Selenium	**ND**	**0.001**	**1.00**
Silver	**0.020**	**0.001**	**5.0**

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

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

Comments: **Giant (Hospah), Hospah, NM.**

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Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

QUALITY ASSURANCE / QUALITY CONTROL

DOCUMENTATION

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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:	Laboratory Blank	Date Reported:	04-07-97
Laboratory Number:	04-04-TCV.BLANK	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	04-04-97
Condition:	N/A	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.0002	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	ND	0.0001	200
Chloroform	ND	0.0003	6.0
Carbon Tetrachloride	ND	0.0003	0.5
Benzene	ND	0.0001	0.5
1,2-Dichloroethane	ND	0.0002	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	97%
	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 B052 - B054.**

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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:	Method Blank	Date Reported:	04-07-97
Laboratory Number:	04-01-TCV.MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	04-04-97
Condition:	N/A	Date Extracted:	04-01-97
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.0002	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	ND	0.0001	200
Chloroform	ND	0.0003	6.0
Carbon Tetrachloride	ND	0.0003	0.5
Benzene	ND	0.0001	0.5
1,2-Dichloroethane	ND	0.0002	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	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 B052 - B054.**

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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 Duplicate	Date Reported:	04-07-97
Laboratory Number:	B052	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	04-04-97
Condition:	N/A	Date Extracted:	04-01-97

Parameter	Sample Result (mg/L)	Duplicate Sample Result (mg/L)	Detection Limits (mg/L)	Percent Difference
Vinyl Chloride	ND	ND	0.0002	0.0%
1,1-Dichloroethene	ND	ND	0.0001	0.0%
2-Butanone (MEK)	ND	ND	0.0001	0.0%
Chloroform	ND	ND	0.0003	0.0%
Carbon Tetrachloride	ND	ND	0.0003	0.0%
Benzene	ND	ND	0.0001	0.0%
1,2-Dichloroethane	ND	ND	0.0002	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 B052 - B054.**

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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:	04-07-97
Laboratory Number:	B052	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	04-04-97
Condition:	N/A	Date Extracted:	04-01-97

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	0.0493	0.0002	98%	28-163
1,1-Dichloroethene	ND	0.050	0.0489	0.0001	98%	43-143
2-Butanone (MEK)	ND	0.050	0.0509	0.0001	100%	47-132
Chloroform	ND	0.050	0.0494	0.0003	99%	49-133
Carbon Tetrachloride	ND	0.050	0.0492	0.0003	98%	43-143
Benzene	ND	0.050	0.0502	0.0001	97%	39-150
1,2-Dichloroethane	ND	0.050	0.0488	0.0002	98%	51-147
Trichloroethene	ND	0.050	0.0494	0.0003	99%	35-146
Tetrachloroethene	ND	0.050	0.0488	0.0005	98%	26-162
Chlorobenzene	ND	0.050	0.0495	0.0003	99%	38-150
1,4-Dichlorobenzene	ND	0.050	0.0500	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 B052 - B054.**

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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:	04-07-97
Laboratory Number:	04-07-TCA.BLANK	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	04-07-97
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	100 %
	2,4,6-tribromophenol	98 %

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. 198

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

Comments: **QA/QC for samples B052 - B054.**

Analyst

Review

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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:	04-07-97
Laboratory Number:	04-01-TCA.MB	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	Cool	Date Extracted:	04-01-97
Condition:	Cool & Intact	Date Analyzed:	04-07-97
		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	101%
	2,4,6-Tribromophenol	100%

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. 198

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

Comments: **QA/QC for samples B052 - B054.**

Analyst

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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:	04-07-97
Laboratory Number:	B052	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	Cool	Date Extracted:	04-01-97
Condition:	Cool & Intact	Date Analyzed:	04-07-97
		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 B052 - B054.**

Analyst

Review

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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:	04-07-97
Laboratory Number:	04-04-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:	04-04-97
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	**ND**	**0.028**	**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**	**0.024**	**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: **QA/QC for samples B052 - B054.**

Analyst

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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:	04-07-97
Laboratory Number:	04-01-TBN.MB	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	Cool	Date Extracted:	04-01-97
Condition:	Cool and Intact	Date Analyzed:	04-04-97
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	**ND**	**0.028**	**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**	**0.024**	**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 B052 - B054.**

Analyst

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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:	04-07-97
Laboratory Number:	B052	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Extracted:	04-01-97
Condition:	N/A	Date Analyzed:	04-04-97
		Analysis Requested:	TCLP

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Percent Difference	Det. Limit (mg/L)
Pyridine	**ND**	ND	**0.0%**	**0.028**
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%**	**0.024**

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 B052 - B054.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Blanks	Date Reported:	04-08-97
Laboratory Number:	N/A	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	04-08-97
Condition:	N/A	Date Extracted:	N/A

Parameter	Instrument Blank (mg/L)	Method Blank (mg/L)	Det. Limit (mg/L)
Arsenic	ND	ND	0.001
Barium	ND	ND	0.01
Cadmium	ND	ND	0.001
Chromium	ND	ND	0.001
Lead	ND	ND	0.001
Mercury	ND	ND	0.001
Selenium	ND	ND	0.001
Silver	ND	ND	0.001

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

Comments: **QA/QC for samples B052 - B054.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	04-08-97
Laboratory Number:	B052	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	04-08-97
Condition:	N/A	Date Extracted:	04-01-97

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Percent Difference
Arsenic	**ND**	**ND**	**0.0%**
Barium	**3.75**	**3.78**	**0.8%**
Cadmium	**ND**	**ND**	**0.0%**
Chromium	**0.017**	**0.017**	**0.0%**
Lead	**ND**	**ND**	**0.0%**
Mercury	**ND**	**ND**	**0.0%**
Selenium	**ND**	**ND**	**0.0%**
Silver	**ND**	**ND**	**0.0%**

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Maximum Difference
	Trace Metals	**30 %**

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

Comments: **QA/QC for samples B052 - B054.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Spike	Date Reported:	04-08-97
Laboratory Number:	B052	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	04-08-97
Condition:	N/A	Date Extracted:	04-01-97

Parameter	Spike Added (mg/L)	Sample Result (mg/L)	Spiked Sample Result (mg/L)	Percent Recovery
Arsenic	**0.100**	**ND**	**0.100**	**100%**
Barium	**1.00**	**3.75**	**4.77**	**100%**
Cadmium	**0.050**	**ND**	**0.050**	**100%**
Chromium	**0.050**	**0.017**	**0.067**	**100%**
Lead	**0.100**	**ND**	**0.101**	**101%**
Mercury	**0.025**	**ND**	**0.024**	**96%**
Selenium	**0.100**	**ND**	**0.099**	**99%**
Silver	**0.050**	**ND**	**0.051**	**102%**

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Acceptance Range %
	TCLP Metals	**80 - 120 %**

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

Comments: **QA/QC for samples B052 - B054.**

Analyst

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CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location	ANALYSIS/PARAMETERS
Freemyer / GIANT (HOSPAH)	Hospah NM	
Sampler: (Signature) Vale Wilson	Chain of Custody Tape No. 96070	

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TCLP w/o Herb & Pest						Remarks
G-H-2	4/1/97	1500	B054	Tank Bottoms	1	✓						Sample received cool & intact. DJH

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Mike Haddle	4/2/97	8:30Am	[signature]	4/2/97	830
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

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

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
1000 Rio Brazos Road
Aztec, 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-
Originated

Submit Or
Plus 1
to appro
District

Env JN: 96003-17

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator EPFS
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Blanco Plant
2. Management Facility Destination Envirotech Soil Remediation Fac Landfarm #2	6. Transporter Philip. Env.
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	N/2, 14, T29N, R11W.

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 generated at the clean up of the Skimmer Sump

TCLP ATTACHED

RECEIVED APR 17 1997 OIL CON. DIV. DIST. 3

RECEIVED APR 14 1997 Environmental Bureau Oil Conservation Division

RECEIVED APR 11 1997 OIL CON. DIV. DIST. 3

Estimated Volume ±1400 cy Known Volume (to be entered by the operator at the end of the haul) 1500 cy

SIGNATURE: Harlan M. Brown
Waste Management Facility Authorized Agent
TITLE: Landfarm Manager DATE: 4-10-97

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. (505)632-0615

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 4/11/97

APPROVED BY: Martyne J. Kieling TITLE: Environmental Geologist DATE: 4/17/97

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
1000 Rio Brazos Road
Aztec, 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: 96003-17

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator E.P.FS
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Blanco Plant
2. Management Facility Destination Envirotech Soil RemediationFac. Landfarm #2	6. Transporter Philip. Env.
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	N/2, 14, T29N, R11W.

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 generated at the clean up of the Skimmer Sump.

TCLP ATTACHED

RECEIVED
APR 11 1997
OIL CON. DIV.
DIST. 3

Estimated Volume ± 1400 cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 4-10-97
Waste Management FacilityAuthorized Agent

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. (505)632-0615

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 4/11/97

APPROVED BY: _____ TITLE: _____ DATE: _____

CERTIFICATE OF WASTE STATUS
OILFIELD NON-EXEMPT WASTE MATERIAL

Originating Location: BLANCO PLANT SKIMMER BASIN SUMP N/2-14-29-11

Source: PLANT WASTE WATER

Disposal Location: Envirotech Soil Remediation Facility, (NMED)
Hilltop, New Mexico

"As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt oilfield production waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, to verify the nature as non-hazardous. I further certify that to my knowledge no "hazardous or listed waste" pursuant to the provisions of 40 CFR, part 261, Subparts C and D, has been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, section 261.3(b)."

I, the undersigned, as the agent for _____
concur with the status of the waste from the subject site.

Name Ricky D. Cosby
Title/Agency COMPLIANCE SPECIALIST
EL PASO FIELD SERVICES
Address P.O. BOX 4990
FARMINGTON, N.M. 87499
Signature Ricky D. Cosby
Date 04/09/92

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

April 8, 1997

Mr. John Lambdin
El Paso Field Services, Inc.
P.O. Box 4990
Farmington, New Mexico 87499

Project No.: 96003-17

Dear John,

Enclosed are the analytical results for the samples collected from the EPFS Blanco Plant location. Two soil samples were collected by EPFS designated personnel on 03/24/97, and received by the Envirotech Laboratory on 04/01/97 for Hazardous Waste Characterization analysis (Volatile and Semi-volatile Organics, Metals, Reactivity, Corrosivity, and Ignitability).

The samples were documented on Envirotech Chain of Custody No. 4079 and assigned Laboratory Nos. B052 (EPFS No. 970221- Skimmer Sump) and B053 (EPFS No. 970222 - Compressor Sump) for tracking purposes.

Results of the analysis indicate that the material from the designated locations are not characteristic hazardous wastes as defined by 40 CFR, Section 261, Subpart C for the noted compounds.

Should you have any questions or require additional information, please do not hesitate to contact us at (505) 632-0615. It is always a pleasure doing business with you.

Respectfully submitted,
Envirotech, Inc.

Stacy W Sendler

Stacy W. Sendler
Environmental Scientist/Laboratory Manager

enc.

SWS\sws 96003-13/lb4/wpd

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

SUSPECTED HAZARDOUS SOLID WASTE ANALYSIS

Client:	El Paso Field Service Co.	Project #:	96003-17
Sample ID:	970221	Date Reported:	04-07-97
Lab ID#:	B052	Date Sampled:	03-24-97
Sample Matrix:	Soil	Date Received:	04-01-97
Preservative:	Cool	Date Analyzed:	04-01-97
Condition:	Cool & Intact	Chain of Custody:	4079

Parameter	Result	
IGNITABILITY:	**Negative**	
CORROSIVITY:	**Negative**	**pH = 8.13**
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: **Blanco Plant. Skimmer Sump.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS

Client:	El Paso Field Services	Project #:	96003-17
Sample ID:	970221	Date Reported:	04-07-97
Laboratory Number:	B052	Date Sampled:	03-24-97
Chain of Custody:	4079	Date Received:	04-01-97
Sample Matrix:	Soil	Date Extracted:	04-01-97
Preservative:	Cool	Date Analyzed:	04-04-97
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.0002	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	ND	0.0001	200
Chloroform	ND	0.0003	6.0
Carbon Tetrachloride	ND	0.0003	0.5
Benzene	ND	0.0001	0.5
1,2-Dichloroethane	ND	0.0002	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	97%
	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: **Blanco Plant. Skimmer Sump.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8040
PHENOLS

Client:	El Paso Field Service Co.	Project #:	96003-17
Sample ID:	970221	Date Reported:	04-07-97
Laboratory Number:	B052	Date Sampled:	03-24-97
Chain of Custody:	4079	Date Received:	04-01-97
Sample Matrix:	Soil	Date Extracted:	04-01-97
Preservative:	Cool	Date Analyzed:	04-07-97
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	100%
	2,4,6-Tribromophenol	100%

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. 198

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

Comments: **Blanco Plant. Skimmer Sump.**

Dean L. Ajeven
Analyst

Stacy W Sendler
Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	El Paso Field Service Co.	Project #:	96003-17
Sample ID:	970221	Date Reported:	04-07-97
Laboratory Number:	B052	Date Sampled:	03-24-97
Chain of Custody:	4079	Date Received:	04-01-97
Sample Matrix:	Soil	Date Extracted:	04-01-97
Preservative:	Cool	Date Analyzed:	04-04-97
Condition:	Cool and Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	**ND**	**0.028**	**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**	**0.024**	**0.13**

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria	Parameter	Percent Recovery
	2-fluorobiphenyl	**102%**

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: **Blanco Plant. Skimmer Sump.**

Analyst

Review

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ENVIROTECH LABS
PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	El Paso Field Service Co.	Project #:	96003-17
Sample ID:	970221	Date Reported:	04-08-97
Laboratory Number:	B052	Date Sampled:	03-24-97
Chain of Custody:	4079	Date Received:	04-01-97
Sample Matrix:	Soil	Date Analyzed:	04-08-97
Preservative:	Cool	Date Extracted:	04-01-97
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
Arsenic	**ND**	**0.001**	**5.00**
Barium	**3.75**	**0.01**	**100**
Cadmium	**ND**	**0.001**	**1.00**
Chromium	**0.017**	**0.001**	**5.00**
Lead	**ND**	**0.001**	**5.00**
Mercury	**ND**	**0.001**	**0.200**
Selenium	**ND**	**0.001**	**1.00**
Silver	**ND**	**0.001**	**5.0**

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

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

Comments: **Blanco Plant. Skimmer Sump.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

QUALITY ASSURANCE / QUALITY CONTROL DOCUMENTATION

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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:	Laboratory Blank	Date Reported:	04-07-97
Laboratory Number:	04-04-TCV.BLANK	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	04-04-97
Condition:	N/A	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.0002	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	ND	0.0001	200
Chloroform	ND	0.0003	6.0
Carbon Tetrachloride	ND	0.0003	0.5
Benzene	ND	0.0001	0.5
1,2-Dichloroethane	ND	0.0002	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	97%
	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 B052 - B054.**

Analyst

Review

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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:	Method Blank	Date Reported:	04-07-97
Laboratory Number:	04-01-TCV.MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	04-04-97
Condition:	N/A	Date Extracted:	04-01-97
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.0002	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	ND	0.0001	200
Chloroform	ND	0.0003	6.0
Carbon Tetrachloride	ND	0.0003	0.5
Benzene	ND	0.0001	0.5
1,2-Dichloroethane	ND	0.0002	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	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 B052 - B054.**

Analyst

Review

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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 Duplicate	Date Reported:	04-07-97
Laboratory Number:	B052	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	04-04-97
Condition:	N/A	Date Extracted:	04-01-97

Parameter	Sample Result (mg/L)	Duplicate Sample Result (mg/L)	Detection Limits (mg/L)	Percent Difference
Vinyl Chloride	ND	ND	0.0002	0.0%
1,1-Dichloroethene	ND	ND	0.0001	0.0%
2-Butanone (MEK)	ND	ND	0.0001	0.0%
Chloroform	ND	ND	0.0003	0.0%
Carbon Tetrachloride	ND	ND	0.0003	0.0%
Benzene	ND	ND	0.0001	0.0%
1,2-Dichloroethane	ND	ND	0.0002	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 B052 - B054.**

Analyst

Review

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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:	04-07-97
Laboratory Number:	B052	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	04-04-97
Condition:	N/A	Date Extracted:	04-01-97

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	0.0493	0.0002	98%	28-163
1,1-Dichloroethene	ND	0.050	0.0489	0.0001	98%	43-143
2-Butanone (MEK)	ND	0.050	0.0509	0.0001	100%	47-132
Chloroform	ND	0.050	0.0494	0.0003	99%	49-133
Carbon Tetrachloride	ND	0.050	0.0492	0.0003	98%	43-143
Benzene	ND	0.050	0.0502	0.0001	97%	39-150
1,2-Dichloroethane	ND	0.050	0.0488	0.0002	98%	51-147
Trichloroethene	ND	0.050	0.0494	0.0003	99%	35-146
Tetrachloroethene	ND	0.050	0.0488	0.0005	98%	26-162
Chlorobenzene	ND	0.050	0.0495	0.0003	99%	38-150
1,4-Dichlorobenzene	ND	0.050	0.0500	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 B052 - B054.**

Analyst

Review

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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:	04-07-97
Laboratory Number:	04-07-TCA.BLANK	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	04-07-97
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	100 %
	2,4,6-tribromophenol	98 %

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. 198

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

Comments: **QA/QC for samples B052 - B054.**

Analyst

Review

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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:	04-07-97
Laboratory Number:	04-01-TCA.MB	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	Cool	Date Extracted:	04-01-97
Condition:	Cool & Intact	Date Analyzed:	04-07-97
		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	101%
	2,4,6-Tribromophenol	100%

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. 198

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

Comments: **QA/QC for samples B052 - B054.**

Analyst

Review

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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:	04-07-97
Laboratory Number:	B052	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	Cool	Date Extracted:	04-01-97
Condition:	Cool & Intact	Date Analyzed:	04-07-97
		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 B052 - B054.**

Analyst

Review

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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:	04-07-97
Laboratory Number:	04-04-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:	04-04-97
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	**ND**	**0.028**	**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**	**0.024**	**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: **QA/QC for samples B052 - B054.**

Analyst

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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:	04-07-97
Laboratory Number:	04-01-TBN.MB	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	Cool	Date Extracted:	04-01-97
Condition:	Cool and Intact	Date Analyzed:	04-04-97
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	**ND**	**0.028**	**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**	**0.024**	**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 B052 - B054.**

Analyst

Review

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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:	04-07-97
Laboratory Number:	B052	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Extracted:	04-01-97
Condition:	N/A	Date Analyzed:	04-04-97
		Analysis Requested:	TCLP

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Percent Difference	Det. Limit (mg/L)
Pyridine	**ND**	ND	**0.0%**	**0.028**
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%**	**0.024**

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 B052 - B054.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Blanks	Date Reported:	04-08-97
Laboratory Number:	N/A	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	04-08-97
Condition:	N/A	Date Extracted:	N/A

Parameter	Instrument Blank (mg/L)	Method Blank (mg/L)	Det. Limit (mg/L)
Arsenic	**ND**	**ND**	**0.001**
Barium	**ND**	**ND**	**0.01**
Cadmium	**ND**	**ND**	**0.001**
Chromium	**ND**	**ND**	**0.001**
Lead	**ND**	**ND**	**0.001**
Mercury	**ND**	**ND**	**0.001**
Selenium	**ND**	**ND**	**0.001**
Silver	**ND**	**ND**	**0.001**

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

Comments: **QA/QC for samples B052 - B054.**

Analyst

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	04-08-97
Laboratory Number:	B052	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	04-08-97
Condition:	N/A	Date Extracted:	04-01-97

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Percent Difference
Arsenic	**ND**	**ND**	**0.0%**
Barium	**3.75**	**3.78**	**0.8%**
Cadmium	**ND**	**ND**	**0.0%**
Chromium	**0.017**	**0.017**	**0.0%**
Lead	**ND**	**ND**	**0.0%**
Mercury	**ND**	**ND**	**0.0%**
Selenium	**ND**	**ND**	**0.0%**
Silver	**ND**	**ND**	**0.0%**

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Maximum Difference
	Trace Metals	**30 %**

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

Comments: **QA/QC for samples B052 - B054.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Spike	Date Reported:	04-08-97
Laboratory Number:	B052	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	04-08-97
Condition:	N/A	Date Extracted:	04-01-97

Parameter	Spike Added (mg/L)	Sample Result (mg/L)	Spiked Sample Result (mg/L)	Percent Recovery
Arsenic	**0.100**	**ND**	**0.100**	**100%**
Barium	**1.00**	**3.75**	**4.77**	**100%**
Cadmium	**0.050**	**ND**	**0.050**	**100%**
Chromium	**0.050**	**0.017**	**0.067**	**100%**
Lead	**0.100**	**ND**	**0.101**	**101%**
Mercury	**0.025**	**ND**	**0.024**	**96%**
Selenium	**0.100**	**ND**	**0.099**	**99%**
Silver	**0.050**	**ND**	**0.051**	**102%**

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Acceptance Range %
	TCLP Metals	**80 - 120 %**

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

Comments: **QA/QC for samples B052 - B054.**

Analyst

Review

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CHAIN OF CUSTODY RECORD

Client/Project Name: EL PASO FIELD SERVICE CO. JOHN CAMBOIN

Project Location: BLANCO PLANT

Sampler: (Signature) D. CESARK DB

Chain of Custody Tape No.: 96003-17

ANALYSIS/PARAMETERS

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TCLP METALS	TCLP ORGANICS	REACTIVITY	IGNITIBILITY	CORROSIVITY		Remarks
970221	3-24-97	0845	B052	SOIL	2	X	X	X	X	X		SKIMMER SUMP
970222	3-24-97	0900	B053	SOIL	2	X	X	X	X	X		COMPRESSOR SUMP
												Samples Received
												Cool and Intact
												DLAjemian

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Dennis Bird	4-1-97	0920	Dennis L. Ajemian	4-1-97	0920
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

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

san juan repro Form 578-81

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
1000 Rio Brazos Road
Aztec, 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-1
Originated by

Submit Original Plus 1 Copy to appropriate District Office

Env JN: 92132

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator HALLIBURTON E.S.
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Wash Bay Sump
2. Management Facility Destination Envirotech Soil RemediationFac Landfarm #2	6. Transporter ENVIROTECH
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	4109 E. Main Farmington N.M.

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.
TCLP & Reaffirmation Statement attached.

RECEIVED
APR 14 1997
Environmental Bureau
Oil Conservation Division

RECEIVED APR - 3 1997 OIL CON. DIV. DIST. 3

RECEIVED APR 17 1997 OIL CON. DIV. DIST. 3

Estimated Volume 24 cy. cy Known Volume (to be entered by the operator at the end of the haul) 18 cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 4-2-97
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. Foust TITLE: Geologist DATE: 4/11/97

APPROVED BY: Martyne J. Kieling TITLE: Environmental Geologist DATE: 4/17/97

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
1000 Rio Brazos Road
Aztec, 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: ☐ Non-Exempt: ☒	4. Generator HALLIBURTON E.S.
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Wash Bay Sump
2. Management Facility Destination Envirotech Soil RemediationFac. Landfarm #2	6. Transporter ENVIROTECH
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	4109 E. Main Farmington N.M.

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.
TCLP & Reaffirmation Statement attached.

RECEIVED
APR - 3 1997
OIL CON. DIV.
DIST. 3

Estimated Volume 24 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: 4.2.97
Waste Management FacilityAuthorized Agent

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. (505)632-0615

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 4/11/97

APPROVED BY: _____ TITLE: _____ DATE: _____

ENVIROTECH INC.

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CERTIFICATE OF WASTE STATUS
OILFIELD NON-EXEMPT WASTE MATERIAL

Originating Location: Halliburton Energy Services 4109 E Main, Farmington

Source: WASH BAY SOLIDS.

Disposal Location: Envirotech Soil Remediation Facility, (NMED).
Hilltop, New Mexico

"As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt oilfield production waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, to verify the nature as non-hazardous. I further certify that to my knowledge no "hazardous or listed waste" pursuant to the provisions of 40 CFR, part 261, Subparts C and D, has been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, section 261.3(b)."

I, the undersigned, as the agent for HALLIBURTON ENERGY SERVICES concur with the status of the waste from the subject site.

Name RJ GREENAKER
Title/Agency SERVICE EQUIPMENT OPERATOR
HALLIBURTON ENERGY SERVICES
Address 4109 E MAIN ST
FARMINGTON, NM
Signature R J Greenaker
Date April 1, 1997

ENVIROTECH INC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE RE

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

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 Characterization Leaching Procedures (TCLP) analysis was performed. I further certify that said material is from operations in the immediate Four Corners area.

Signed RJ Grenaker

Date of TCLP Oct 1996

Name RJ GRENAKER

Title/Agency SERVICE EQUIP. OP.
HALLIBURTON ENERGY

Address 4109 E MAIN ST
FARMINGTON, NM

Signature RJ Grenaker

Date April 1, 1997

Harrison Energy Services
4109 E Main
Wed. Tsa Services.

Maximum Contaminant Concentrations For Toxicity Characteristic Wastes

	Waste Stream Constituent	Concentration (milligrams/liter mg/l)	EPA HW No.	Waste Stream Constituent	Concentration (milligrams/liter mg/l)	EPA HW No.
	Arsenic	5.0	D004	Hexachlorobenzene	0.13	D032
	* Barium	100.0	D005	Hexachlorobutadiene	0.5	D033
	Benzene	0.5	D018	Hexachloroethane	3.0	D034
	Cadmium	1.0	D006	Lead	5.0	D008
	Carbon Tetrachloride	0.5	D019	* Lindane	0.4	D013 Pesticide
Pesticide	Chlordane	0.03	D020	Mercury	0.2	D009
	Chlorobenzene	100.0	D021	* Methoxychlor	10.0	D014 Pesticide
	Chloroform	6.0	D022	Methyl ethyl ketone	200.0	D035
	* Chromium	5.0	D007	Nitrobenzene	2.0	D036
	Cresol	200.0	D026	Pentachlorophenol	100.0	D037
	m-Cresol	200.0	D024	Pyridine	5.0	D038
	o-Cresol	200.0	D023	Selenium	1.0	D010
	p-Cresol	200.0	D025	Silver	5.0	D011
Herbicide	* 2,4-D	10.0	D016	* 2,4,5-TP (Silvex)	1.0	D017 Herbicide
	1,4-Dichlorobenzene	7.5	D027	Tetrachloroethylene	0.7	D039
	1,2-Dichloroethane	0.5	D028	* Toxaphene	0.5	D015 Pesticide
	1,1-Dichloroethylene	0.7	D029	Trichloroethylene	0.5	D040
	2,4-Dinitrotoluene	0.13	D030	2,4,5-Trichlorophenol	400.0	D041
Pesticide	* Endrin	0.02	D012	2,4,6-Trichlorophenol	2.0	D042
Pesticide	Heptachlor	0.008	D031	Vinyl chloride	0.2	D043

*-EP Toxic wastes; TCLP must now be utilized for characterizing these wastes

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

SUSPECTED HAZARDOUS & SOLID WASTE ANALYSIS

Client:	Halliburton Energy Services	Project #:	92132
Sample ID:	Wash Bay Solids	Date Reported:	10-22-96
Lab ID#:	A706	Date Sampled:	10-22-96
Sample Matrix:	Solid	Date Received:	10-22-96
Preservative:	Cool	Date Analyzed:	10-22-96
Condition:	Cool & Intact	Chain of Custody:	4966

Parameter	Result
IGNITABILITY:	**Did not ignite upon direct contact with flame.**
CORROSIVITY:	**7.25**
REACTIVITY:	**Did not react violently with water, strong base (10N Sodium Hydroxide), or strong acid (6N Hydrochloric acid).**

RCRA Hazardous Waste Criteria

Parameter	Hazardous Waste Criterion
IGNITABILITY:	Sample Ignition upon direct contact with flame indicates hazardous waste status.
CORROSIVITY:	pH less than or equal to 2.0 or pH greater than or equal to 12.5 indicates hazardous waste status.
REACTIVITY:	Violent reaction with water, strong base (10N Sodium Hydroxide), or strong acid (6N Hydrocholoric Acid) indicates hazardous waste status.

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

Comments: **4109 E. Main, Farmington, NM.**

Dennis L. Spencer
Analyst

Stacy W. Sandlea
Review

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS

Client:	Halliburton Energy Services	Project #:	92132
Sample ID:	Wash Bay Solids	Date Reported:	10-29-96
Laboratory Number:	A706	Date Sampled:	10-22-96
Chain of Custody:	4966	Date Received:	10-22-96
Sample Matrix:	Solid	Date Extracted:	10-22-96
Preservative:	Cool	Date Analyzed:	10-28-96
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.0004	0.2
1,1-Dichloroethene	ND	0.0002	0.7
2-Butanone (MEK)	ND	0.0003	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	ND	0.0002	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	103%
	Bromofluorobenzene	96%

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.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8040
PHENOLS

Client:	Halliburton Energy Services	Project #:	92132
Sample ID:	Wash Bay Solids	Date Reported:	10-29-96
Laboratory Number:	A706	Date Sampled:	10-22-96
Chain of Custody:	4966	Date Received:	10-22-96
Sample Matrix:	Solid	Date Extracted:	10-22-96
Preservative:	Cool	Date Analyzed:	10-28-96
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	99%
	2,4,6-Tribromophenol	102%

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. 198

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

Comments: **4109 E. Main, Farmington, NM.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	Halliburton Energy Services	Project #:	92132
Sample ID:	Wash Bay Solids	Date Reported:	10-28-96
Laboratory Number:	A706	Date Sampled:	10-22-96
Chain of Custody:	4966	Date Received:	10-22-96
Sample Matrix:	Solid	Date Extracted:	10-22-96
Preservative:	Cool	Date Analyzed:	10-28-96
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	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: **4109 E. Main, Farmington, NM.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	Halliburton Energy Services	Project #:	92132
Sample ID:	Wash Bay Solids	Date Reported:	10-29-96
Laboratory Number:	A706	Date Sampled:	10-22-96
Chain of Custody:	4966	Date Received:	10-22-96
Sample Matrix:	Solid	Date Analyzed:	10-29-96
Preservative:	Cool	Date Extracted:	10-22-96
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
Arsenic	0.025	0.001	5.00
Barium	0.42	0.01	100
Cadmium	0.057	0.001	1.00
Chromium	0.001	0.001	5.00
Lead	0.009	0.001	5.00
Mercury	ND	0.001	0.200
Selenium	ND	0.001	1.00
Silver	ND	0.001	5.0

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

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

Comments: **4109 E. Main, Farmington, NM.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

QUALITY ASSURANCE / QUALITY CONTROL

DOCUMENTATION

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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:	10-29-96
Laboratory Number:	10-28-TCV.BLANK	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	10-28-96
Condition:	N/A	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.0004	0.2
1,1-Dichloroethene	ND	0.0002	0.7
2-Butanone (MEK)	ND	0.0003	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	ND	0.0002	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	96%
	Bromofluorobenzene	96%

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 A689, A706 and A713.**

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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:	10-29-96
Laboratory Number:	10-22-TCV.MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	10-28-96
Condition:	N/A	Date Extracted:	10-22-96
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.0004	0.2
1,1-Dichloroethene	ND	0.0002	0.7
2-Butanone (MEK)	ND	0.0003	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	ND	0.0002	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	101%

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 A689, A706 and A713.**

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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:	10-29-96
Laboratory Number:	A706	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	10-28-96
Condition:	N/A	Date Extracted:	10-22-96

Parameter	Sample Result (mg/L)	Duplicate Sample Result (mg/L)	Detection Limits (mg/L)	Percent Difference
Vinyl Chloride	ND	ND	0.0004	0.0%
1,1-Dichloroethene	ND	ND	0.0002	0.0%
2-Butanone (MEK)	ND	ND	0.0003	0.0%
Chloroform	ND	ND	0.0001	0.0%
Carbon Tetrachloride	ND	ND	0.0001	0.0%
Benzene	ND	ND	0.0002	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 A689, A706 and A713.

Dennis L. Ojeman
Analyst

Stacy W Sendler
Review

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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:	10-29-96
Laboratory Number:	A706	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	10-28-96
Condition:	N/A	Date Extracted:	10-22-96

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	0.020	0.0203	0.0004	102%	28-163
1,1-Dichloroethene	ND	0.020	0.0217	0.0002	108%	43-143
2-Butanone (MEK)	ND	0.020	0.0196	0.0003	97%	47-132
Chloroform	ND	0.020	0.0199	0.0001	99%	49-133
Carbon Tetrachloride	ND	0.020	0.0193	0.0001	97%	43-143
Benzene	ND	0.020	0.0207	0.0002	103%	39-150
1,2-Dichloroethane	ND	0.020	0.0185	0.0001	93%	51-147
Trichloroethene	ND	0.020	0.0189	0.0003	95%	35-146
Tetrachloroethene	ND	0.020	0.0195	0.0005	97%	26-162
Chlorobenzene	ND	0.020	0.0204	0.0003	102%	38-150
1,4-Dichlorobenzene	ND	0.020	0.0193	0.0002	96%	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 A689, A706 and A713.**

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:	10-29-96
Laboratory Number:	10-28-TCA.BLANK	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	10-28-96
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	100 %
	2,4,6-tribromophenol	102 %

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. 198

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

Comments: **QA/QC for samples A689, A706 and A713.**

Dean L. Ajeneu
Analyst

Stacy W Sendler
Review

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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:	10-29-96
Laboratory Number:	10-22-TCA.MB	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	Cool	Date Extracted:	10-22-96
Condition:	Cool & Intact	Date Analyzed:	10-28-96
		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	94%
	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. 198

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

Comments: **QA/QC for samples A689, A706 and A713.**

Analyst

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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:	10-29-96
Laboratory Number:	A706	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	Cool	Date Extracted:	10-22-96
Condition:	Cool & Intact	Date Analyzed:	10-28-96
		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 A689, A706 and A713.**

Analyst

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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:	10-28-96
Laboratory Number:	10-28-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:	10-28-96
		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 A689, A706 and A713.**

Analyst

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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:	10-28-96
Laboratory Number:	10-22-TBN.MB	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	Cool	Date Extracted:	10-22-96
Condition:	Cool and Intact	Date Analyzed:	10-28-96
		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 A689, A706 and A713.**

Analyst

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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:	10-28-96
Laboratory Number:	A706	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Extracted:	10-22-96
Condition:	N/A	Date Analyzed:	10-28-96
		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 A689, A706 and A713.**

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ENVIROTECH LABS
PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Blanks	Date Reported:	10-29-96
Laboratory Number:	N/A	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	10-29-96
Condition:	N/A	Date Extracted:	N/A

Parameter	Instrument Blank (mg/L)	Method Blank (mg/L)	Det. Limit (mg/L)
Arsenic	ND	ND	0.001
Barium	ND	ND	0.01
Cadmium	ND	ND	0.001
Chromium	ND	ND	0.001
Lead	ND	ND	0.001
Mercury	ND	ND	0.001
Selenium	ND	ND	0.001
Silver	ND	ND	0.001

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

Comments: **QA/QC for samples A706, A711 and A713.**

Denise L. Spencer
Analyst

Stacy W Sendler
Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	10-29-96
Laboratory Number:	A706	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	10-29-96
Condition:	N/A	Date Extracted:	10-22-96

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Percent Difference
Arsenic	**0.025**	**0.026**	**3.9%**
Barium	**0.42**	**0.41**	**2.4%**
Cadmium	**0.057**	**0.057**	**0.0%**
Chromium	**0.001**	**0.001**	**0.0%**
Lead	**0.009**	**0.009**	**0.0%**
Mercury	**ND**	**ND**	**0.0%**
Selenium	**ND**	**ND**	**0.0%**
Silver	**ND**	**ND**	**0.0%**

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Maximum Difference
	Trace Metals	**30 %**

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

Comments: **QA/QC for samples A706, A711 and A713.**

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ENVIROTECH LABS
PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Spike	Date Reported:	10-29-96
Laboratory Number:	A706	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	10-29-96
Condition:	N/A	Date Extracted:	10-22-96

Parameter	Spike Added (mg/L)	Sample Result (mg/L)	Spiked Sample Result (mg/L)	Percent Recovery
Arsenic	0.100	0.025	0.125	100%
Barium	1.00	0.42	1.41	99%
Cadmium	0.050	0.057	0.106	99%
Chromium	0.050	0.001	0.051	100%
Lead	0.100	0.009	0.109	100%
Mercury	0.025	ND	0.024	96%
Selenium	0.100	ND	0.099	99%
Silver	0.050	ND	0.049	98%

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Acceptance Range %
	TCLP Metals	80 - 120 %

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

Comments: **QA/QC for samples A706, A711 and A713.**

Analyst

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CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location
Allied Energy Services	409 E Main St, Farmington

Sampler: (Signature)	Chain of Custody Tape No.
[signature]	92132

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TCLP w/o HCP						Remarks
Wash Bay Solids	10-22-96	9:50	A706	Solid	1	✓						

ANALYSIS/PARAMETERS

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	10-22-96	10:30	[signature]	10-22-96	10:30
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

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

San Juan repro Form 578-81

District I - (505) 393-6161
P.O. Box 1
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
NM 88210
District III - (505) 334-6178
1000 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-
Originated

Submit Original Plus 1 to appropriate District

Env JN: 96003-17

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator EPFS
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Blanco Plant
2. Management Facility Destination Envirotech Soil Remediation Fac. Landfarm #2	6. Transporter Philip ENV.
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	N/2 Sec 14, T29N, R11W

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 generated at the of the Compressor Sump. C Plant
TCLP ATTACHED.

RECEIVED APR 17 1997 OIL CON. DIV. DIST. 3

RECEIVED APR 14 1997 Environmental Bureau Oil Conservation Division

RECEIVED APR 11 1997 OIL CON. DIV. DIST. 3

Estimated Volume 450 cy Known Volume (to be entered by the operator at the end of the haul) 380 cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 4.10.97
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. Foust TITLE: Geologist DATE: 4/11/97

APPROVED BY: Martyne J. Kieling TITLE: Environmental Geologist DATE: 4/10/97

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
Aztec, 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: 96003-17

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator EPFS
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Blanco Plant
2. Management Facility Destination Envirotech Soil RemediationFac, Landfarm #2	6. Transporter Philip ENV.
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	N/2 Sec 14, T29N, R11W

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 generated at the of the Compressor Sump. "C Plant"
TCLP ATTACHED.

RECEIVED
APR 11 1997
OIL CON. DIV.
DIST. 3

Estimated Volume 450 cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 4.10.97
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. Foust TITLE: Geologist DATE: 4/11/97

APPROVED BY: _____ TITLE: _____ DATE: _____

CERTIFICATE OF WASTE STATUS
OILFIELD NON-EXEMPT WASTE MATERIAL

Originating Location: BLANCO "C" PLANT SUMP N/2-14-29-11

Source: Basement Drains

Disposal Location: Envirotech Soil Remediation Facility, (NMED)
Hilltop, New Mexico

"As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt oilfield production waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, to verify the nature as non-hazardous. I further certify that to my knowledge no "hazardous or listed waste" pursuant to the provisions of 40 CFR, part 261, Subparts C and D, has been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, section 261.3(b)."

I, the undersigned, as the agent for _____ concur with the status of the waste from the subject site.

Name Rick D. Cosby
Title/Agency COMPLIANCE SPECIALIST
EL PASO FIELD SERVICES
Address P.O. BOX 4990
FARMINGTON, N.M. 87499
Signature [signature]
Date 04/09/97

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

April 8, 1997

Mr. John Lambdin
El Paso Field Services, Inc.
P.O. Box 4990
Farmington, New Mexico 87499

Project No.: 96003-17

Dear John,

Enclosed are the analytical results for the samples collected from the EPFS Blanco Plant location. Two soil samples were collected by EPFS designated personnel on 03/24/97, and received by the Envirotech Laboratory on 04/01/97 for Hazardous Waste Characterization analysis (Volatile and Semi-volatile Organics, Metals, Reactivity, Corrosivity, and Ignitability).

The samples were documented on Envirotech Chain of Custody No. 4079 and assigned Laboratory Nos. B052 (EPFS No. 970221- Skimmer Sump) and B053 (EPFS No. 970222 - Compressor Sump) for tracking purposes.

Results of the analysis indicate that the material from the designated locations are not characteristic hazardous wastes as defined by 40 CFR, Section 261, Subpart C for the noted compounds.

Should you have any questions or require additional information, please do not hesitate to contact us at (505) 632-0615. It is always a pleasure doing business with you.

Respectfully submitted,
Envirotech, Inc.

Stacy W Sendler

Stacy W. Sendler
Environmental Scientist/Laboratory Manager

enc.

SWS\sws

96003-13/lb4/wpd

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

SUSPECTED HAZARDOUS SOLID WASTE ANALYSIS

Client:	El Paso Field Service Co.	Project #:	96003-17
Sample ID:	970222	Date Reported:	04-07-97
Lab ID#:	B053	Date Sampled:	03-24-97
Sample Matrix:	Soil	Date Received:	04-01-97
Preservative:	Cool	Date Analyzed:	04-01-97
Condition:	Cool & Intact	Chain of Custody:	4079

Parameter	Result	
IGNITABILITY:	**Negative**	
CORROSIVITY:	**Negative**	**pH = 6.84**
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: **Blanco Plant. Compressor Sump.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8040
PHENOLS

Client:	El Paso Field Service Co.	Project #:	96003-17
Sample ID:	970222	Date Reported:	04-07-97
Laboratory Number:	B053	Date Sampled:	03-24-97
Chain of Custody:	4079	Date Received:	04-01-97
Sample Matrix:	Soil	Date Extracted:	04-01-97
Preservative:	Cool	Date Analyzed:	04-07-97
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	101%
	2,4,6-Tribromophenol	98%

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. 198

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

Comments: **Blanco Plant. Compressor Sump.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS

Client:	El Paso Field Services	Project #:	96003-17
Sample ID:	970222	Date Reported:	04-07-97
Laboratory Number:	B053	Date Sampled:	03-24-97
Chain of Custody:	4079	Date Received:	04-01-97
Sample Matrix:	Soil	Date Extracted:	04-01-97
Preservative:	Cool	Date Analyzed:	04-04-97
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.0002	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	ND	0.0001	200
Chloroform	ND	0.0003	6.0
Carbon Tetrachloride	ND	0.0003	0.5
Benzene	ND	0.0001	0.5
1,2-Dichloroethane	ND	0.0002	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	97%
	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: **Blanco Plant. Compressor Sump.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	El Paso Field Service Co.	Project #:	96003-17
Sample ID:	970222	Date Reported:	04-07-97
Laboratory Number:	B053	Date Sampled:	03-24-97
Chain of Custody:	4079	Date Received:	04-01-97
Sample Matrix:	Soil	Date Extracted:	04-01-97
Preservative:	Cool	Date Analyzed:	04-04-97
Condition:	Cool and Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.028	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	0.024	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: **Blanco Plant. Compressor Sump.**

Analyst

Review

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ENVIROTECH LABS
PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	El Paso Field Service Co.	Project #:	96003-17
Sample ID:	970222	Date Reported:	04-08-97
Laboratory Number:	B053	Date Sampled:	03-24-97
Chain of Custody:	4079	Date Received:	04-01-97
Sample Matrix:	Soil	Date Analyzed:	04-08-97
Preservative:	Cool	Date Extracted:	04-01-97
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
Arsenic	**0.008**	**0.001**	**5.00**
Barium	**1.51**	**0.01**	**100**
Cadmium	**0.001**	**0.001**	**1.00**
Chromium	**0.019**	**0.001**	**5.00**
Lead	**ND**	**0.001**	**5.00**
Mercury	**ND**	**0.001**	**0.200**
Selenium	**ND**	**0.001**	**1.00**
Silver	**0.005**	**0.001**	**5.0**

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

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

Comments: **Blanco Plant. Compressor Sump.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

QUALITY ASSURANCE / QUALITY CONTROL DOCUMENTATION

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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:	Laboratory Blank	Date Reported:	04-07-97
Laboratory Number:	04-04-TCV.BLANK	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	04-04-97
Condition:	N/A	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.0002	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	ND	0.0001	200
Chloroform	ND	0.0003	6.0
Carbon Tetrachloride	ND	0.0003	0.5
Benzene	ND	0.0001	0.5
1,2-Dichloroethane	ND	0.0002	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	97%
	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 B052 - B054.**

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:	Method Blank	Date Reported:	04-07-97
Laboratory Number:	04-01-TCV.MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	04-04-97
Condition:	N/A	Date Extracted:	04-01-97
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.0002	0.2
1,1-Dichloroethene	ND	0.0001	0.7
2-Butanone (MEK)	ND	0.0001	200
Chloroform	ND	0.0003	6.0
Carbon Tetrachloride	ND	0.0003	0.5
Benzene	ND	0.0001	0.5
1,2-Dichloroethane	ND	0.0002	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	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 B052 - B054.**

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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 Duplicate	Date Reported:	04-07-97
Laboratory Number:	B052	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	04-04-97
Condition:	N/A	Date Extracted:	04-01-97

Parameter	Sample Result (mg/L)	Duplicate Sample Result (mg/L)	Detection Limits (mg/L)	Percent Difference
Vinyl Chloride	ND	ND	0.0002	0.0%
1,1-Dichloroethene	ND	ND	0.0001	0.0%
2-Butanone (MEK)	ND	ND	0.0001	0.0%
Chloroform	ND	ND	0.0003	0.0%
Carbon Tetrachloride	ND	ND	0.0003	0.0%
Benzene	ND	ND	0.0001	0.0%
1,2-Dichloroethane	ND	ND	0.0002	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 B052 - B054.**

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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:	04-07-97
Laboratory Number:	B052	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	04-04-97
Condition:	N/A	Date Extracted:	04-01-97

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	0.0493	0.0002	98%	28-163
1,1-Dichloroethene	ND	0.050	0.0489	0.0001	98%	43-143
2-Butanone (MEK)	ND	0.050	0.0509	0.0001	100%	47-132
Chloroform	ND	0.050	0.0494	0.0003	99%	49-133
Carbon Tetrachloride	ND	0.050	0.0492	0.0003	98%	43-143
Benzene	ND	0.050	0.0502	0.0001	97%	39-150
1,2-Dichloroethane	ND	0.050	0.0488	0.0002	98%	51-147
Trichloroethene	ND	0.050	0.0494	0.0003	99%	35-146
Tetrachloroethene	ND	0.050	0.0488	0.0005	98%	26-162
Chlorobenzene	ND	0.050	0.0495	0.0003	99%	38-150
1,4-Dichlorobenzene	ND	0.050	0.0500	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 B052 - B054.**

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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:	04-07-97
Laboratory Number:	04-07-TCA.BLANK	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	04-07-97
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	100 %
	2,4,6-tribromophenol	98 %

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. 198

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

Comments: **QA/QC for samples B052 - B054.**

Analyst

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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:	04-07-97
Laboratory Number:	04-01-TCA.MB	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	Cool	Date Extracted:	04-01-97
Condition:	Cool & Intact	Date Analyzed:	04-07-97
		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	101%
	2,4,6-Tribromophenol	100%

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. 198

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

Comments: **QA/QC for samples B052 - B054.**

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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:	04-07-97
Laboratory Number:	B052	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	Cool	Date Extracted:	04-01-97
Condition:	Cool & Intact	Date Analyzed:	04-07-97
		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 B052 - B054.**

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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:	04-07-97
Laboratory Number:	04-04-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:	04-04-97
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	ND	0.028	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	0.024	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: **QA/QC for samples B052 - B054.**

Analyst

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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:	04-07-97
Laboratory Number:	04-01-TBN.MB	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	Cool	Date Extracted:	04-01-97
Condition:	Cool and Intact	Date Analyzed:	04-04-97
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Limit (mg/L)
Pyridine	**ND**	**0.028**	**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**	**0.024**	**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 B052 - B054.**

Analyst

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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:	04-07-97
Laboratory Number:	B052	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Extracted:	04-01-97
Condition:	N/A	Date Analyzed:	04-04-97
		Analysis Requested:	TCLP

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Percent Difference	Det. Limit (mg/L)
Pyridine	**ND**	ND	**0.0%**	**0.028**
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%**	**0.024**

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 B052 - B054.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Blanks	Date Reported:	04-08-97
Laboratory Number:	N/A	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	04-08-97
Condition:	N/A	Date Extracted:	N/A

Parameter	Instrument Blank (mg/L)	Method Blank (mg/L)	Det. Limit (mg/L)
Arsenic	**ND**	**ND**	**0.001**
Barium	**ND**	**ND**	**0.01**
Cadmium	**ND**	**ND**	**0.001**
Chromium	**ND**	**ND**	**0.001**
Lead	**ND**	**ND**	**0.001**
Mercury	**ND**	**ND**	**0.001**
Selenium	**ND**	**ND**	**0.001**
Silver	**ND**	**ND**	**0.001**

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

Comments: **QA/QC for samples B052 - B054.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	04-08-97
Laboratory Number:	B052	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	04-08-97
Condition:	N/A	Date Extracted:	04-01-97

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Percent Difference
Arsenic	**ND**	**ND**	**0.0%**
Barium	**3.75**	**3.78**	**0.8%**
Cadmium	**ND**	**ND**	**0.0%**
Chromium	**0.017**	**0.017**	**0.0%**
Lead	**ND**	**ND**	**0.0%**
Mercury	**ND**	**ND**	**0.0%**
Selenium	**ND**	**ND**	**0.0%**
Silver	**ND**	**ND**	**0.0%**

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Maximum Difference
	Trace Metals	**30 %**

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

Comments: **QA/QC for samples B052 - B054.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Spike	Date Reported:	04-08-97
Laboratory Number:	B052	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	04-08-97
Condition:	N/A	Date Extracted:	04-01-97

Parameter	Spike Added (mg/L)	Sample Result (mg/L)	Spiked Sample Result (mg/L)	Percent Recovery
Arsenic	**0.100**	**ND**	**0.100**	**100%**
Barium	**1.00**	**3.75**	**4.77**	**100%**
Cadmium	**0.050**	**ND**	**0.050**	**100%**
Chromium	**0.050**	**0.017**	**0.067**	**100%**
Lead	**0.100**	**ND**	**0.101**	**101%**
Mercury	**0.025**	**ND**	**0.024**	**96%**
Selenium	**0.100**	**ND**	**0.099**	**99%**
Silver	**0.050**	**ND**	**0.051**	**102%**

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Acceptance Range %
	TCLP Metals	**80 - 120 %**

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

Comments: **QA/QC for samples B052 - B054.**

Analyst

Review

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CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location
EL PASO FIELD SERVICE CO. JOHN LAMBDIN	BLANCO PLANT
Sampler: (Signature) D. CESARK DB	Chain of Custody Tape No. 96003-17

ANALYSIS/PARAMETERS

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TCLP METALS	TCLP ORGANICS	REACTIVITY	IGNITIBILITY	CORROSIVITY		Remarks
970221	3-24-97	0845	B052	SOIL	2	X	X	X	X	X		SKIMMER SUMP
970222	3-24-97	0900	B053	SOIL	2	X	X	X	X	X		COMPRESSOR SUMP
												Samples Received
												Cool and Intact
												DLAjeen

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Dennis Birch	4-1-97	0920	Dennis L. Ajeen	4-1-97	0920
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

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

san juan repro Form 578-81

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Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, 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: 92197

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☒ Non-Exempt: ☐ Ernie Busch 4.9.97 13:05	4. Generator Burlington Resources
Verbal Approval Received: Yes ☒ No ☐	5. Originating Site Val Verde Plant
2. Management Facility Destination Envirotech Soil RemediationFac. Landfarm #2	6. Transporter FREEMYER
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	A, Sec 14, T29N, R11W, SJC, N.M.P.M.

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 charcoal Filtration Media

RECEIVED
APR 11 1997
OIL CON. DIV.
DIST. 3

Estimated Volume 8 cy Known Volume (to be entered by the operator at the end of the haul) 16 cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 4.9.97
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. Foust TITLE: Geologist DATE: 4/11/97

APPROVED BY: Ernie Busch TITLE: Geologist DATE: 4/11/97

Verbal Approval
4.9.97
Ernie Busch
13:05

Exempt Waste Manifest
Burlington Resources Oil & Gas

P.O. Box 4289, Farmington, NM 87499

Safety and Environmental

1. Waste Location: Lease/Well No. Val Verde Plant

2. Volume: 16 Cubic Yards _____ Barrels _____ Gallons

3. Description of Waste: Charcoal Filter Media

4. Method of Waste Generation: Charcoal is used to filter the MDEA at the plant. MDEA is used to remove CO2 from the gas stream.

5. Disposal Facility: Envirotech Inc.

6. Disposal Cost: $16 cubic yard

7. This waste material complies with the definition of exempt waste as listed in 40 CFR 261.4.

Approval for Disposal _____ (signature) Date 4/9/97

BR Representative

Transportation Company: _____

Date(s) Transported: _____

BR Representative on Site: _____ (signature) Date _____

Disposal Facility
Complete and return to Burlington Safety and Environmental with invoice.

Date(s) Received: _____

Total Volume Received: _____

Waste Location: Cell/Grid No. _____

Received By: _____

Revised January 28, 1997
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ENVIROTECH INC.

UNDERGROUND TANK TESTING - SITE ASSESSMENT - SITE REMEDIATION

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

CERTIFICATE OF WASTE STATUS
OILFIELD EXEMPT WASTE

Originating Location: Val Verde Plant.

Source: Charcoal Filtering.

Disposal Location: Envirotech Soil Remediation Facility (ESRF)
Hilltop, New Mexico.

"As a condition of acceptance for disposal, I hereby certify that this waste is an oilfield production exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. Additionally, to my knowledge, no non-exempt waste that is a "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has been added or mixed with the exempt waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, section 261.3(b)."

I, the undersigned, as the agent for Burlington Resources, concur with the status of the waste from the subject site.

Name Craig A. Bock.
Title/Agency Env. Representative.
Address P.O Box 4289.
Farmington, New Mexico 87499-4289.
Signature Craig A Bock.
Date 4/9/97.

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1000 Rio Brazos Road
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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-1
Originated 8/

Submit Ori
Plus 1 (
to approp
District O

Env JN: 96070-01

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Giant Transportation
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Rattlegraw Station
2. Management Facility Destination Envirotech Soil Remediation Fac. Landfarm #2	6. Transporter Envirotech
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico.
7. Location of Material (Street Address or ULSTR)	F, Sec 16, T26N, 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.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

Solids generated during cleaning of Crude oil Tanks. in Preparation for Tank Demolition.

TCLP ATTACHED

RECEIVED
APR - 8 1997
OIL CON. DIV.
DIST. 3

RECEIVED
APR 07 1997
Environmental Bureau
Oil Conservation Division

RECEIVED
APR - 3 1997
OIL CON. DIV.
DIST. 3

Estimated Volume 80 cy Known Volume (to be entered by the operator at the end of the haul) 154 cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 4-3-97
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. Foust TITLE: Geologist DATE: 4/4/97

APPROVED BY: Martyne J. Kieling TITLE: Env Geologist DATE: 4/8/97

District I - (505) 393-6161
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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

Env JN: 96070-01

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Giant Transportation
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Pettigrew Station
2. Management Facility Destination Envirotech Soil RemediationFac. Landfarm #2	6. Transporter Envirotech
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico.
7. Location of Material (Street Address or ULSTR)	F, Sec 16, T26N, 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.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

Solids generated during cleaning of Crude oil Tanks. in Preparation for Tank Demolition.

TCLP ATTACHED.

RECEIVED
APR - 3 1997
OIL CON. DIV.
DIST. 3

Estimated Volume 80 cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 4.3.97
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. Foust TITLE: Geologist DATE: 4/4/97

APPROVED BY: _____ TITLE: _____ DATE: _____

525

Generator: GIANT TRANSPORTATION

CERTIFICATE OF WASTE STATUS
OILFIELD NON-EXEMPT WASTE MATERIAL

Originating Location: Giant Transportation Pettigrew Station

Source: Tank Cleaning

Disposal Location: Envirotech Soil Remediation Facility, (NMED) Hilltop, New Mexico

"As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt oilfield production waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, to verify the nature as non-hazardous. I further certify that to my knowledge no "hazardous or listed waste" pursuant to the provisions of 40 CFR, part 261, Subparts C and D, has been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, section 261.3(b)."

I, the undersigned, as the agent for Giant Transportation concur with the status of the waste from the subject site.

Name Tim Kenney
Title/Agency General Manager
Address 5764 Hwy 64

Signature Tim Kenney

Date 4/3/97

ENVIROTECH INC.
PRACTICAL SOLUTIONS FOR A BETTER TOMORROW
5796 U.S. Highway 64-3014 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

ENVIROTECH LABS
PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

March 27, 1997

Mr. Mike Hanaham
Freemyer Company
P.O. Box 2269
Farmington, New Mexico 87499

(505) 325-4450
(505) 325-5809

Project No.: 96070-01

Dear Mr. Hanaham,

Enclosed are the analytical results for the sample collected from the Freemyer location designated as "Giant Tanks". One solid sample was collected by Freemyer Company personnel on 03/14/97, and received by the Envirotech laboratory on 03/14/97 for Hazardous Waste Characterization analysis (Volatile and Semi-volatile Organics, Metals, Reactivity, Corrosivity, and Ignitability).

The sample was documented on Envirotech Chain of Custody No. 5162 and assigned Laboratory No. B017 (6724) for tracking purposes. The sample was extracted on 03/18/97, and analyzed 03/13/97 through 03/26/97 using USEPA or equivalent methods.

Results of the analysis indicate that the material from the designated location is not a characteristic hazardous waste as defined by 40 CFR, Section 261, Subpart C for the noted compounds.

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. Sendler

Stacy W. Sendler
Environmental Scientist/Laboratory Manager

enc.

SWS\sws

96070-01.lb1/wpd

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

SUSPECTED HAZARDOUS SOLID WASTE ANALYSIS

Client:	Freemyer	Project #:	96070-01
Sample ID:	6724	Date Reported:	03-19-97
Lab ID#:	B017	Date Sampled:	03-14-97
Sample Matrix:	Soil	Date Received:	03-14-97
Preservative:	Cool	Date Analyzed:	03-18-97
Condition:	Cool & Intact	Chain of Custody:	5162

Parameter	Result	
IGNITABILITY:	**Negative**	
CORROSIVITY:	**Negative**	**pH = 5.96**
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: **Giant Tanks**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS

Client:	Freemyer	Project #:	96070-01
Sample ID:	6724	Date Reported:	03-25-97
Laboratory Number:	B017	Date Sampled:	03-14-97
Chain of Custody:	5162	Date Received:	03-14-97
Sample Matrix:	Solid	Date Extracted:	03-18-97
Preservative:	Cool	Date Analyzed:	03-24-97
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	95%

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: **Giant Tanks.**

Analyst

Review

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ENVIROTECH LABS
PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8040
PHENOLS

Client:	Freemyer	Project #:	96070-01
Sample ID:	6724	Date Reported:	03-26-97
Laboratory Number:	B017	Date Sampled:	03-14-97
Chain of Custody:	5162	Date Received:	03-14-97
Sample Matrix:	Solid	Date Extracted:	03-18-97
Preservative:	Cool	Date Analyzed:	03-25-97
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	99%
	2,4,6-Tribromophenol	101%

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. 198

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

Comments: **Giant Tanks.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	Freemyer	Project #:	96070-01
Sample ID:	6724	Date Reported:	03-25-97
Laboratory Number:	B017	Date Sampled:	03-14-97
Chain of Custody:	5162	Date Received:	03-14-97
Sample Matrix:	Solid	Date Extracted:	03-18-97
Preservative:	Cool	Date Analyzed:	03-25-97
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: **Giant Tanks.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	Freemyer	Project #:	96070-01
Sample ID:	6724	Date Reported:	03-26-97
Laboratory Number:	B017	Date Sampled:	03-14-97
Chain of Custody:	5162	Date Received:	03-14-97
Sample Matrix:	Solid	Date Analyzed:	03-26-97
Preservative:	Cool	Date Extracted:	03-18-97
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
Arsenic	**ND**	**0.001**	**5.00**
Barium	**1.54**	**0.01**	**100**
Cadmium	**ND**	**0.001**	**1.00**
Chromium	**0.001**	**0.001**	**5.00**
Lead	**0.004**	**0.001**	**5.00**
Mercury	**ND**	**0.001**	**0.200**
Selenium	**ND**	**0.001**	**1.00**
Silver	**ND**	**0.001**	**5.0**

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

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

Comments: **Giant Tanks.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

QUALITY ASSURANCE / QUALITY CONTROL DOCUMENTATION

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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:	Laboratory Blank	Date Reported:	03-25-97
Laboratory Number:	03-24-TCV.BLANK	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	03-24-97
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	101%
	Bromofluorobenzene	95%

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 B015 and B017.**

Analyst

Review

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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:	Method Blank	Date Reported:	03-25-97
Laboratory Number:	03-13-TCV.MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	03-24-97
Condition:	N/A	Date Extracted:	03-13-97
		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	95%

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 B015 and B017.**

Analyst

Review

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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 Duplicate	Date Reported:	03-25-97
Laboratory Number:	B015	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	03-24-97
Condition:	N/A	Date Extracted:	03-13-97

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 B015 and B017.**

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:	03-25-97
Laboratory Number:	B015	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	03-24-97
Condition:	N/A	Date Extracted:	03-13-97

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	0.0505	0.0001	101%	28-163
1,1-Dichloroethene	ND	0.050	0.0505	0.0001	101%	43-143
2-Butanone (MEK)	ND	0.050	0.0499	0.0001	100%	47-132
Chloroform	ND	0.050	0.0518	0.0001	104%	49-133
Carbon Tetrachloride	ND	0.050	0.0503	0.0001	101%	43-143
Benzene	ND	0.050	0.0521	0.0001	104%	39-150
1,2-Dichloroethane	ND	0.050	0.0513	0.0001	103%	51-147
Trichloroethene	ND	0.050	0.0484	0.0003	97%	35-146
Tetrachloroethene	ND	0.050	0.0517	0.0005	103%	26-162
Chlorobenzene	ND	0.050	0.0487	0.0003	97%	38-150
1,4-Dichlorobenzene	ND	0.050	0.0483	0.0002	97%	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 B015 and B017.**

Analyst

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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:	03-26-97
Laboratory Number:	03-25-TCA.BLANK	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	03-25-97
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	99 %
	2,4,6-tribromophenol	101 %

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. 198

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

Comments: **QA/QC for samples B015 and B017.**

Analyst

Review

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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:	03-26-97
Laboratory Number:	13-18-TCA.MB	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	Cool	Date Extracted:	03-18-97
Condition:	Cool & Intact	Date Analyzed:	03-25-97
		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	99%
	2,4,6-Tribromophenol	100%

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. 198

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

Comments: **QA/QC for sample B017.**

Analyst

Review

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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:	03-26-97
Laboratory Number:	B017	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	Cool	Date Extracted:	03-18-97
Condition:	Cool & Intact	Date Analyzed:	03-25-97
		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 B017.**

Analyst

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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:	03-25-97
Laboratory Number:	03-25-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:	03-25-97
		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: **QA/QC for samples B015 and B017.**

Analyst

Review

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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:	03-25-97
Laboratory Number:	03-18-TBN.MB	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	Cool	Date Extracted:	03-18-97
Condition:	Cool and Intact	Date Analyzed:	03-25-97
		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: **QA/QC for sample B017.**

Analyst

Review

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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:	03-25-97
Laboratory Number:	B017	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Extracted:	03-18-97
Condition:	N/A	Date Analyzed:	03-25-97
		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 B017.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Blanks	Date Reported:	03-26-97
Laboratory Number:	N/A	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	03-26-97
Condition:	N/A	Date Extracted:	N/A

Parameter	Instrument Blank (mg/L)	Method Blank (mg/L)	Det. Limit (mg/L)
Arsenic	**ND**	**ND**	**0.001**
Barium	**ND**	**ND**	**0.01**
Cadmium	**ND**	**ND**	**0.001**
Chromium	**ND**	**ND**	**0.001**
Lead	**ND**	**ND**	**0.001**
Mercury	**ND**	**ND**	**0.001**
Selenium	**ND**	**ND**	**0.001**
Silver	**ND**	**ND**	**0.001**

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

Comments: **QA/QC for samples B015 and B017.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	03-26-97
Laboratory Number:	B017	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	03-26-97
Condition:	N/A	Date Extracted:	03-18-97

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Percent Difference
Arsenic	**ND**	**ND**	**0.0%**
Barium	**1.54**	**1.56**	**1.3%**
Cadmium	**ND**	**ND**	**0.0%**
Chromium	**0.001**	**0.001**	**0.0%**
Lead	**0.004**	**0.004**	**0.0%**
Mercury	**ND**	**ND**	**0.0%**
Selenium	**ND**	**ND**	**0.0%**
Silver	**ND**	**ND**	**0.0%**

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Maximum Difference
	Trace Metals	**30 %**

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

Comments: **QA/QC for sample B017.**

Dean L. Spencer
Analyst

Stacy W Sendler
Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Spike	Date Reported:	03-26-97
Laboratory Number:	B015	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	03-26-97
Condition:	N/A	Date Extracted:	03-13-97

Parameter	Spike Added (mg/L)	Sample Result (mg/L)	Spiked Sample Result (mg/L)	Percent Recovery
Arsenic	**0.100**	**ND**	**0.099**	**99%**
Barium	**1.00**	**1.27**	**2.25**	**99%**
Cadmium	**0.050**	**0.001**	**0.051**	**100%**
Chromium	**0.050**	**0.001**	**0.051**	**100%**
Lead	**0.100**	**0.007**	**0.107**	**100%**
Mercury	**0.025**	**ND**	**0.024**	**96%**
Selenium	**0.100**	**ND**	**0.099**	**99%**
Silver	**0.050**	**ND**	**0.049**	**98%**

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Acceptance Range %
	TCLP Metals	**80 - 120 %**

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

Comments: **QA/QC for samples B015 and B017.**

Analyst

Review

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CHAIN OF CUSTODY RECORD

Client/Project Name: FREEMAN 96070-01

Project Location: Giant Tanks

Sampler: (Signature): Mike [illegible]

Chain of Custody Tape No.:

ANALYSIS/PARAMETERS

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TCLP w/o HEP	RCRA Chem					Remarks
6724	3-14-97	1100	B017	Solid	1	✓	✓					
												Sample received cool and intact D. Ayers 3/14/97

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	3-14-97	1400	[signature]	3-14-97	1400
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

ENTERED MAR 2 8 1997

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

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
1000 Rio Brazos Road
Aztec, 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: 96003-03

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☒ Non-Exempt: ☐ ERNIE ~~BUSH~~ BUSCH 4-3-97 9:55	4. Generator E.P.F.S
Verbal Approval Received: Yes ☒ No ☐	5. Originating Site Various Southern Ute Pits
2. Management Facility Destination Envirotech Soil RemediationFac. Landfarm #2	6. Transporter Philip ENV.
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State Colorado → New Mexico
7. Location of Material (Street Address or ULSTR)	SEE ATTACHED

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 generated during cleanup of various dehydrator drip pits located on the Southern Ute Indian Reservation.

BIA - Southern Ute Agency - Sign-off attached.

RECEIVED
APR - 3 1997
OIL CON. DIV.
DIST. 3

Estimated Volume 500 cy Known Volume (to be entered by the operator at the end of the haul) 1008 cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 4-3-97
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. Foust TITLE: Geologist DATE: 4/4/97

APPROVED BY: Ernie Busch TITLE: Geologist DATE: 4/4/97

EPFS
EL PASO FIELD SERVICES

P.O. Box 4990
Farmington, NM 87499

Charles Recker
Bureau of Indian Affairs
P.O. Box 315
Ignacio, Colorado 81137

Mr. Recker,

El Paso Field Services (EPFS) requests approval to transport RCRA exempt hydrocarbon contaminated soils from various pit locations from Southern Ute lands to a landfarm facility in New Mexico. EPFS is currently preparing and awaiting approval for a pit closure plan for pits on Southern Ute lands. EPFS plans to use the Envirotech Soil Remediation Facility at Hilltop, New Mexico unless an appropriate facility in Southwest Colorado is approved.

EPFS certifies that these pit wastes are an oilfield production exempt waste as defined by the Environmental Protection Agency's July 1988 Regulatory Determination. Additionally, to my knowledge, no non-exempt waste that is a "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has been added or mixed with the exempt waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, section 261.3(b).

Listed below are the pit locations which have or may have soils to be remediated due to further investigation of hydrocarbon soil contamination.

Location/Line Name	Operator Name	Unit Letter	Section	Township	Range
UTE B#1	NATURAL GAS PROCESSING CO	D	36	33	07
UTE 1	APACHE CORPORATION	F	29	33	08
Southern Ute 32-9 1-S	VASTAR RESOURCES, INC.	A	01	32	09
Southern Ute 33-9 #9-4	RED WILLOW PROD CO	A	09	33	09
Southern Ute 33-8 Herrera #2	RED WILLOW PROD CO	M	20	33	08
Southern Ute Tribal D #1	AMOCO PRODUCTION COMPANY	O	17	33	07
Colorado 32-8 No.1 (TexN.M.Colo32-8-1)	APACHE CORPORATION	K	06	32	08
Southern Ute Tribe #3-2	RED WILLOW PROD CO	D	10	33	09
Trunk 4A	EL PASO FIELD SERVICES	L	30	33	08
Southern Ute 33-9 #11-2	RED WILLOW PROD CO	E	11	33	09
Southern Ute 33-9 #9-2	RED WILLOW PROD CO	P	09	33	09
Southern Ute Tribal A#1	AMOCO PRODUCTION COMPANY	J	36	34	08

Southern Ute Tribal A#1	AMOCO PRODUCTION COMPANY	J	36	34	08
Ute Block #3 Well No. 1-17	MURCHISON TRUSTS	F	17	32	08
Ute #2	APACHE CORPORATION	F	30	33	08
Southern Ute 32-9, 13-1	VASTAR RESOURCES, INC.	A	13	32	09
Southern Ute 33-9 #9-5 MV&PC	RED WILLOW PROD CO	K	09	33	09
Southern Ute 32-9 #23-2	RED WILLOW PROD CO	G	23	32	09
Southern Ute 32-8 #19-1	RED WILLOW PROD CO	I	19	32	08
Southern Ute 32-9 #23-3	RED WILLOW PROD CO	H	23	32	09
Hamilton #1 MV	MERRION OIL & GAS CORP.	K	25	33	07
Southern Ute 32-9 1-4	VASTAR RESOURCES, INC.	C	01	32	09
Southern Ute 23-2 #1 CPD	AMOCO PRODUCTION COMPANY	J	23	34	07
Southern Ute 32-9 #24-3	RED WILLOW PROD CO	D	24	32	09
Southern Ute 01-32#1	AMOCO PRODUCTION COMPANY	P	32	34	07
4A-10 Line Drip	EL PASO FIELD SERVICES	N	21	33	07
4A-11 Ext. Drip Pit	EL PASO FIELD SERVICES	D	26	34	07

For any questions please call (505) 599-2158.

Sincerely yours,

Ricky D. Cosby
Compliance Specialist

File: Colorado Pits

P 358 645 396
US Postal Service
Receipt for Certified Mail
No Insurance Coverage Provided.
Do not use for International Mail *(See reverse)*

Sent to Charles Becker - BIA	
Street & Number PO Box 315	
Post Office, State, & ZIP Code Ignacio Colorado 81137	
Postage	$ .32
Certified Fee	1.10
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	1.10
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	$ 2.52
Postmark or Date 10-9-96	

PS Form 3800, April 1995

Pit file - Colorado

United States Department of the Interior

BUREAU OF INDIAN AFFAIRS
SOUTHERN UTE AGENCY
P.O. BOX 315
IGNACIO, COLORADO 81137

IN REPLY REFER TO:

OCT 09 1996

El Paso Natural Gas Company
Attention: Rick Cosby
P. O. Box 4990
Farmington, New Mexico 87499

Re: Production Pit Remediation

Dear Mr. Cosby:

We have reviewed the pit closure stipulations submitted by your company for the remediation of production pits located on the Southern Ute Indian Reservation. After reviewing the stipulations and consulting with the BLM and Southern Ute Tribe we concur with your procedures.

You may proceed with your work as requested. We are also forwarding the RCRA form as requested by you for the removal of soil off the reservation. Please notify us of any changes and the results of all tests for soil contamination.

If you have any questions, contact Ken Young, Petroleum Engineer, at (970) 563-4514.

Sincerely,

Charles A. Parker

Superintendent

Enclosure

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 locations on the Southern Ute Indian Reservation, LaPlata County, Colorado (see attached exhibit), 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 statute.

XX The material is exempt from regulations because it is classified as non-hazardous OILFIELD waste by definition.

_____ The material is exempt from regulation by characteristic analyses.

_____ The material is exempt from regulation by product identification.

THEREFORE:
As a representative for the Bureau of Indian Affairs I have no objections to the material being removed to New Mexico.

NAME: Diana F. Olguin TITLE: Acting Superintendent

SIGNATURE: Diana F. Olguin DATE: October 21, 1996

AGENCY: BUREAU OF INDIAN AFFAIRS

ADDRESS: P.O. BOX 315, IGNACIO, CO 81137

PHONE: (970) 563-4514

KBY

ENVIROTECH INC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

796 U.S. HIGHWAY 64 - 3014
ARMINGTON, NEW MEXICO 87401
HONE: (505) 632-0615

CERTIFICATE OF WASTE STATUS
OILFIELD EXEMPT WASTE

Originating Location: Southern Ute 32-9 # 23-3 (H-23-32-09)

Source: Dehydrator/Drip Pits in the State of Colorado

Disposal Location: Envirotech Soil Remediation Facility (ESRF) Hilltop New Mexico

"As a condition of acceptance for disposal, I hereby certify that this waste is an oilfield production exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. Additionally, to my knowledge, no non-exempt waste that is a "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has been added or mixed with the exempt waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, section 261.3(b)."

I, the undersigned as the agent for the _____ concur with the status of the waste from the subject site.

Name Ricky D. Cosby

Title/Agency Compliance Specialist EPFS

Address P.O. Box 4992 FARMINGTON NM 87499.99

Signature Ricky D. Cosby

Date 04/01/97

ENVIROTECH INC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

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

CERTIFICATE OF WASTE STATUS
OILFIELD EXEMPT WASTE

Originating Location: Southern Ute Tribal A#1MV J-36-34-08

Source: Dehydrator/Drip pits in the state of Colorado

Disposal Location: Envirotech Soil Remediation Facility, (FSRP) Hilltop, New Mexico

"As a condition of acceptance for disposal, I hereby certify that this waste is an oilfield production exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. Additionally, to my knowledge, no non-exempt waste that is a "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has been added or mixed with the exempt waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, section 261.3(b)."

I, the undersigned as the agent for the _____ concur with the status of the waste from the subject site.

Name Ricky D. Cosby

Title/Agency Compliance Specialist EPFS

Address P.O. Box 4990 Farmington, N.M. 87499-99

Signature [signature]

Date 04/01/97

ENVIROTECH INC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

96 U.S. HIGHWAY 64 - 3014
RMINGTON, NEW MEXICO 87401
ONE: (505) 632-0615

CERTIFICATE OF WASTE STATUS
OILFIELD EXEMPT WASTE

Originating Location: Southern Ute Tribal A #1 DK (J-36-34-08)

Source: Dehydrator/Drip Pits in the State of Colorado

Disposal Location: Envirotech Soil Remediation Facility, (ESRP) Hilltop, New Mexico

"As a condition of acceptance for disposal, I hereby certify that this waste is an oilfield production exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. Additionally, to my knowledge, no non-exempt waste that is a "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has been added or mixed with the exempt waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, section 261.3(b)."

I, the undersigned is the agent for the _____ concur with the status of the waste from the subject site.

Name Rick D. Cosby

Title/Agency Compliance Specialist EPFS

Address P.O. BOX 4990 Farmington, N.M. 87499-99

Signature Rick D. Cosby

Date 04/01/97

ENVIROTECH INC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

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

CERTIFICATE OF WASTE STATUS
OILFIELD EXEMPT WASTE

Originating Location: Southern Ute 32-9 1-4 (C001-32-09)

Source: Dehydrator/Drip Pits in the State of Colorado

Disposal Location: Envirotech Soil Remediation Facility (ESRP) Hilltop New Mexico

"As a condition of acceptance for disposal, I hereby certify that this waste is an oilfield production exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. Additionally, to my knowledge, no non-exempt waste that is a "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has been added or mixed with the exempt waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, section 261.3(b)."

I, the undersigned as the agent for the _____ concur with the status of the waste from the subject site.

Name Ricky D. Cosby

Title/Agency Compliance Specialist EPFS

Address P.O. BOX 4990 FARMINGTON NM 87499-99

Signature Ricky D. Cosby

Date 04/01/97

ENVIROTECH INC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

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

CERTIFICATE OF WASTE STATUS
OILFIELD EXEMPT WASTE

Originating Location: Southern Ute 32-9#24-3 (D-24-32-09)

Source: Dehydrator/Drip Pits in the State of Colorado

Disposal Location: Envirotech Soil Remediation Facility (FSRP) Hilltop New Mexico

"As a condition of acceptance for disposal, I hereby certify that this waste is an oilfield production exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. Additionally, to my knowledge, no non-exempt waste that is a "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has been added or mixed with the exempt waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, section 261.3(b)."

I, the undersigned as the agent for the _____ concur with the status of the waste from the subject site.

Name Ricky D. Cosby

Title/Agency Compliance Specialist EPFS

Address P.O. Box 4990
Farmington NM 87499-99

Signature Ricky D. Cosby

Date 04/01/97

ENVIROTECH INC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

96 U.S. HIGHWAY 64 - 3014
RMINGTON, NEW MEXICO 87401
ONE: (505) 632-0615

CERTIFICATE OF WASTE STATUS
OILFIELD EXEMPT WASTE

Originating Location: Southern Ute 32-9, 13-1 (A-13-32-09)

Source: Dehydrator/Drip Pits in the State of Colorado

Disposal Location: Envirotech Soil Remediation Facility (ESRF) Hilltop New Mexico

"As a condition of acceptance for disposal, I hereby certify that this waste is an oilfield production exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. Additionally, to my knowledge, no non-exempt waste that is a "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has been added or mixed with the exempt waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, section 261.3(b)."

I, the undersigned is the agent for the _____ concur with the status of the waste from the subject site.

Name Ricky D. Cosby

Title/Agency Compliance Specialist EPFS

Address P.O. Box 4990 Farmington NM 87499-99

Signature [signature]

Date 04/01/97

ENVIROTECH INC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

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

CERTIFICATE OF WASTE STATUS
OILFIELD EXEMPT WASTE

Originating Location: Trunk 4A (L-30-33-08)

Source: Dehydrator/Drip Pits in the State of Colorado

Disposal Location: Envirotech Soil Remediation Facility (ESRF) Hilltop New Mexico

"As a condition of acceptance for disposal, I hereby certify that this waste is an oilfield production exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. Additionally, to my knowledge, no non-exempt waste that is a "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has been added or mixed with the exempt waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, section 261.3(b)."

I, the undersigned is the agent for the _____ concur with the status of the waste from the subject site.

Name Ricky D. Cosby

Title/Agency Compliance Specialist EPFS

Address P.O. BOX 4990 Farmington NM 87499-99

Signature Ricky D. Cosby

Date 04/01/97

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
1000 Rio Brazos Road
Aztec, 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: 92197

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☒ Non-Exempt: ☐ DF. 4.2.97 : 8:55 A.M Verbal App.	4. Generator Burlington Resources
Verbal Approval Received: Yes ☒ No ☐	5. Originating Site Val Verde Plant
2. Management Facility Destination Envirotech Soil RemediationFac Landfarm #2	6. Transporter FREEMYER
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	A, Sec 14, T29N, R11W, SJC, NMPM.

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:

Charcoal filtration media, Continuation

RECEIVED
APR - 3 1997
OIL CON. DIV.
DIST. 3

Estimated Volume 16 cy Known Volume (to be entered by the operator at the end of the haul) 16 cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 4-2-97
Waste Management FacilityAuthorized Agent

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. (505)632-0615

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 4/4/97

APPROVED B [illegible] TITLE: [illegible] DATE: 4/4/97

ENVIROTECH INC.

UNDERGROUND TANK TESTING - SITE ASSESSMENT - SITE REMEDIATION

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

CERTIFICATE OF WASTE STATUS
OILFIELD EXEMPT WASTE

Originating Location: Val Verde Plant

Source: Charcoal Filtering

Disposal Location: Envirotech Soil Remediation Facility (ESRF)
Hilltop, New Mexico

"As a condition of acceptance for disposal, I hereby certify that this waste is an oilfield production exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. Additionally, to my knowledge, no non-exempt waste that is a "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has been added or mixed with the exempt waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, section 261.3(b)."

I, the undersigned, as the agent for Burlington Resources, concur with the status of the waste from the subject site.

Name Craig A. Bock
Title/Agency Env. Representative.

Address P.O Box 4289
Farmington, New Mexico 87499-4289.

Signature C. A. Bock

Date 3/25/97

Exempt Waste Manifest
Burlington Resources Oil & Gas

P.O. Box 4289, Farmington, NM 87499

Safety and Environmental

1. Waste Location: Lease/Well No. Val Verde Plant

8 cubic yds del. 4-2-97
8 Cubic yds del. 4-4-97

2. Volume: 16 Cubic Yards ____ Barrels ____ Gallons

3. Description of Waste: Charcoal Filter Media

4. Method of Waste Generation: Charcoal is used to filter the MDEA at the plant. MDEA is used to remove CO2 from the gas stream.

5. Disposal Facility: Envirotech Inc.

6. Disposal Cost: $16 cubic yard

7. This waste material complies with the definition of exempt waste as listed in 40 CFR 261.4.

Approval for Disposal [signature] (signature) Date 3/25/97

BR Representative

Transportation Company: Vale Wilson Freemyer Company

Date(s) Transported: 8 yds 4-2-97 8 yds 4-4-97

BR Representative on Site: [signature] (signature) Date 4-2-97

Disposal Facility
Complete and return to Burlington Safety and Environmental with invoice.

Date(s) Received: ____

Total Volume Received: ____

Waste Location: Cell/Grid No. ____

Received By: ____

Revised January 28, 1997
a:\2-crvnmt\wastemgt\wv-mnfst.doc

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
1000 Rio Brazos Road
Aztec, 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: 97070

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☒ Non-Exempt: ☐ DF Verbal 9.22.97 12:08.	4. Generator Conoco
Verbal Approval Received: Yes ☒ No ☐	5. Originating Site Farmington BCom 1E
2. Management Facility Destination Envirotech Soil RemediationFac. Landfarm #2	6. Transporter Consolidated
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	Unit O, T29N, R13W.

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 generated at the clean up of a separator.

9.25.97 BOL 10832 LFZ UNITS BB13 165
9.26.97 BOL 10852 LFZ UNITS BB14 96
9.27.97 BOL 10843 LFZ UNITS BB14 67

RECEIVED
OCT 10 1997
OIL CON. DIV.
DIST. 3

Estimated Volume ±100 cy Known Volume (to be entered by the operator at the end of the haul) 328 cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 9.22.97
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. Foust TITLE: Geologist DATE: 10/14/97

APPROVED BY: Ernie Busch TITLE: Geologist DATE: 10/14/97

F Uebel
9.22.97
12:08

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
3315 Bloomfield Hwy. Farmington NM 87401	Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico

3. Originating Site (name): Farmington B Com 1 E.

Location of the Waste (Street address &/or ULSTR): Unit O Sec 15 T29N R13W

Attach list of originating sites as appropriate

4. Source and Description of Waste

Pit Clean up Sep. pit.

I, Tommy E. Brooks (Print Name) representative for: 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)

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 only the following documentation is attached (check appropriate items):

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

Name (Original Signature): Tommy E. Brooks

Title: Field Prod. Supv.

Date: 9-22-97

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
1000 Rio Brazos Road
Aztec, 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: 92197

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☒ Non-Exempt: ☐ Ernie Busch 9-18-97	4. Generator Burlington Resources
Verbal Approval Received: Yes ☒ No ☐	5. Originating Site Valverde Plant
2. Management Facility Destination Envirotech Soil RemediationFac Landfarm #2	6. Transporter Freemyer
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	County Rd 4900, Bloomfield 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:
Continuation of Charcoal Filtration media

9.18.97 BOL 10831 LF 2 E-19 10 cy

RECEIVED
OCT 10 1997
OIL CON. DIV.
DIST. 3

Estimated Volume 10 cy 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: 9.18.97
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. Foust TITLE: Geologist DATE: 10/14/97

APPROVED BY: Ernie Busch TITLE: Geologist DATE: 10/15/97

Exempt Waste Manifest
Burlington Resources Oil & Gas
P.O. Box 4289, Farmington, NM 87499

Safety and Environmental

1. Waste Location: Lease/Well No. Val Verde Plant

2. Volume: 10 Cubic Yards _____ Barrels _____ Gallons

3. Description of Waste: Charcoal Filter Media

4. Method of Waste Generation: Charcoal is used to filter the MDEA at the plant. MDEA is used to remove CO2 from the gas stream.

5. Disposal Facility: Envirotech Inc.

6. Disposal Cost: $16 cubic yard

7. This waste material complies with the definition of exempt waste as listed in 40 CFR 261.4.

Approval for Disposal [signature] (signature) Date 9-18-97

BR Representative

Transportation Company: Freemeyer

Date(s) Transported: 9-18-97

BR Representative on Site: [signature] (signature) Date 9-18-97

Disposal Facility
Complete and return to Burlington Safety and Environmental with invoice.

Date(s) Received: _____

Total Volume Received: _____

Waste Location: Cell/Grid No. _____

Received By: _____

Revised January 28, 1997
s:\2-envnmt\wastemgt\vv-mnfst.doc

MERIDIAN-FARMINGTON ID:505-326-9725 SEP 18'97 7:18 No.001 P.02

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
BURLINGTON RESOURCES 3535 EAST 30th STREET FARMINGTON, NM 87402	Envirotech Landfarm (ESRF) Hilltop, New Mexico
3. Originating Site (name): Val Verde Plant Attach list of originating sites as appropriate.	Location of the Waste (Street address &/or ULSTR): Section 14, Township 29N, Range 11W
4. Source and Description of Waste: Charcoal Filter Media. From the filtering of amine which is used to remove carbon dioxide from natural gas. **Ship Date: 9/18/97**	

I, Craig Bock representative for:

BURLINGTON RESOURCES 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 only the following documentation is attached (check appropriate items):

MSDS Information
RCRA Hazardous Waste Analysis
Chain of Custody

Other (description):

Name (Original Signature):

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address: BURLINGTON RESOURCES 3535 EAST 30th STREET FARMINGTON, NM 87402 2. Destination Name: Envirotech Landfarm (ESRF) Hilltop, New Mexico
3. Originating Site (name): Val Verde Plant Attach list of originating sites as appropriate. Location of the Waste (Street address &/or ULSTR): Section 14, Township 29N, Range 11W
4. Source and Description of Waste: Charcoal Filter Media. From the filtering of amine which is used to remove carbon dioxide from natural gas. **Ship Date: 9/18/97**

I, Craig Bock representative for:

BURLINGTON RESOURCES 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 only the following documentation is attached (check appropriate items):

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

Name (Original Signature): Cig A. Bock

Title: ENVIRONMENTAL REPRESENTATIVE

Date: 9/18/97

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
1000 Rio Brazos Road
Aztec, 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 6/97

Submit Original Plus 1 Copy to appropriate District Office

Env JN: 96033-0004

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator EPNG
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Dilkon Compressor Station
2. Management Facility Destination Envirotech Soil Remediation Fac Landfarm #2	6. Transporter Envirotech
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State Navajo Nation, Arizona or N.M.
7. Location of Material (Street Address or ULSTR)	T23N, R19E, Navajo County, Arizona Lat: 35° 10' N Long: 110° 20' W

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:

Compressor lube oil contaminated soil generated at Dilkon C.S. located near the intersection of Navajo Route 60 & Navajo Route 15, ≈ 32 miles N.E. of Winslow, Arizona.

TCLP & Navajo EPA Approval of workplan attached.

RECEIVED
SEP - 3 1997
OIL CON. DIV.
DIST. 3

RECEIVED
SEP - 8 1997
OIL CON. DIV.
DIST. 3

Estimated Volume 20 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: 9-3-97
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. Foust TITLE: Geologist DATE: 9/4/97

APPROVED BY: DATE: 9/5/97

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
1000 Rio Brazos Road
Aztec, 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: 96033-0004

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator EPNG.
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site DILKON COMPRESSOR STATION
2. Management Facility Destination Envirotech Soil RemediationFac. Landfarm #2	6. Transporter ENVIROTECH
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State NAVAJO Nation, ARIZONA → N.M.
7. Location of Material (Street Address or ULSTR)	T23N, R19E, NAVAJO County, ARIZONA LAT: 35° 10' N LONG: 110° 20' W

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:

Compressor lube oil contaminated soil generated at Dilkon C.S. located near the intersection of NAVAJO Route 60 & NAVAJO Route 15, ≈ 32 miles N.E. of Winslow, ARIZONA.

T.C.L.P & NAVAJO EPA approval of workplan ATTACHED.

RECEIVED
SEP - 3 1997
OIL CON. DIV.
DIST. 3

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: 9-3-97
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. Foust TITLE: Geologist DATE: 9/4/97

APPROVED BY: _____ TITLE: _____ DATE: _____

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
El Paso Natural Gas Co. P.O. Box 1492 El Paso, TX 79978	Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico

3. Originating Site (name): **Location of the Waste (Street address &/or ULSTR):**

Dilkon Compressor Station
R-19-E, T-23-N Lat: 35°10' Long: 110° 20'
Navajo County, Arizona

Attach list of originating sites as appropriate

4. Source and Description of Waste

Soil contaminated with Lube oils.

I, Richard Duarte representative for:
(Print Name)
El Paso Natural Gas 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 only the following documentation is attached (check appropriate items):

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

Name (Original Signature): Richard Duarte

Title: Sr. Compliance Engineer

Date: August 28, 1997

THE
NAVAJO
NATION

P.O. BOX 9000 • WINDOW ROCK, ARIZONA 86515 • (520) 871-6000

ALBERT A. HALE
PRESIDENT

THOMAS E. ATCITTY
VICE PRESIDENT

September 2, 1997

Richard Duarte, Sr. Environmental Engineer
EL PASO NATURAL GAS COMPANY
3801 Atrisco Blvd., N.W.
Albuquerque, New Mexico 87120

Mr. Duarte:

The Navajo Nation Environmental Protection Agency (NNEPA) is granting approval to the generator, *El Paso Natural Gas Company - Window Rock Station, Window Rock, Arizona, and Dilkon Compressor Station, Dilkon, Arizona*, to have the contaminated soil disposed of at Envirotech's soil remediation site for land farming under the following conditions:

1. Based on the generator's analytical results, the contaminated soil does not meet the Resource Conservation & Recovery Act (RCRA) regulatory limits for hazardous waste. However, NNEPA does not certify the contaminated soil exempt from RCRA. The generator remains responsible for this certification and shall provide Envirotech with the proper soil sample results revealing that the contaminated soil is non hazardous.
2. NNEPA does not certify the transportation of the contaminated soil removed off the lands of the Navajo Nation to the ultimate destination for proper disposal. The generator remains responsible for this certification.
3. The generator shall provide NNEPA with the following documentation within 90 days after the disposal of the contaminated soil:

    a. A copy of the generators certification indicating the status of the contaminated soil;
    b. A copy of the transporter(s) certification to ensure that the contaminated soil was delivered to the disposal site without any discrepancies; and
    c. A copy of the disposal certification granting receipt of the contaminated soil by the the facility authorized to accept exempt RCRA waste.

The generator shall adhere to the above stipulations setforth by NNEPA. If you have any questions, please contact my staff Debbie McBride, Environmental Specialist, at (520) 871-7995.

Sincerely,

Bennie Cohoe

Bennie Cohoe, EPA
Executive Director

cc: Debbie McBride, Environmental Specialist, NNEPA
file/EPNG/WR

Post-It™ brand fax transmittal memo 7671	# of pages ▸ 1
To Harlan Brown	From Debbie McBride
Co. Envirotech	Co. Navajo EPA
Dept.	Phone # 871-7995
Fax # 505-632-1865	Fax # 871-7599

PARAGON ANALYTICS, INC.
225 Commerce Drive ◆ Fort Collins, CO 80524 ◆ (800) 443-1511 ◆ (970) 490-1511 ◆ FAX (970) 490-1522

August 15, 1997

Mr. Darrell Campbell
El Paso Natural Gas CO.
8645 Railroad Drive
El Paso, TX 79904

RE: Paragon Workorder: 97-08-011
Client Project Name: Dilkon Station
Client Project Number: F97-0108

Dear Mr. Campbell:

One soil sample was received from El Paso Natural Gas Co. on August 2, 1997. The sample was scheduled for GC/MS Volatiles, GC/MS Semivolatiles, TCLP Metals, Inorganics, pH and Ignitability analysis. The results for these analyses are contained in the enclosed report.

Thank you for your confidence in Paragon Analytics, Inc. Should you have any questions, please call.

Sincerely,

Paragon Analytics, Inc.
Victoria Bayly
Project Manager

VB/jjc
Enclosure: report

Paragon Analytics, Inc.

GC/MS Volatiles Case Narrative

El Paso Natural Gas Co.

Dilkon Station/F97-0108

Order Number - 9708011

1. This report consists of 1 soil sample received by Paragon on August 02, 1997.

2. This sample was prepared and analyzed according to SW-846, 3rd Edition procedures. Specifically, the sample was leached using the TCLP ZHE extraction procedure specified in Method 1311. The TCLP leachate was then analyzed by purging the sample using purge and trap procedures based on Method 5030.

3. The sample was analyzed using GC/MS with a RTX-624 capillary column according to protocols based on SW-846 Method 8260. All positive results were quantitated with the average response of the initial calibration standards using the internal standard technique. The identification of positive results was achieved by a comparison of the retention time and mass spectrum of the sample versus the daily calibration standard.

4. The sample was analyzed within the established holding times.

5. The method blank associated with this project was below the reporting limits for all analytes.

6. All matrix spike recoveries were within acceptance criteria.

7. All blank spike and blank spike duplicate recoveries and RPDs were within the acceptance criteria.

8. All surrogate recoveries were within acceptance criteria.

9. All internal standard recoveries were within acceptance criteria.

10. All initial and continuing calibration criteria were within acceptance criteria. Method 8260 states any compound exceeding 15% RSD is to be quantitated with a higher order curve. Several compounds from the curve were within the acceptance limit but exceeded the 15% RSD criteria and should be analyzed with a higher curve such as quadratic. We quantitated these compounds using the average response factor due to a software programming problem associated with Hewlett-Packard MSDs. The manufacturer is now aware of the problem and is working on a solution.

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, Paragon Analytics, Inc. certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed.

Phil Tallarico GC/MS Analyst	8-7-97 Date
Reviewer's Initials	8-7-97 Date

Paragon Analytics, Inc.

SAMPLE NUMBER(S) CROSS-REFERENCE TABLE

Client Name: El Paso Natural Gas Co.

Client Project ID: Dilkon Station F97-0108

PAI-ID	Client ID	MATRIX	DATE SAMPLED
9708011-1	F97-0108	Soil	07/31/97

El Paso Natural Gas Company

CHAIN OF CUSTODY RECORD

97-08-011

Page 1 of 1

PROJECT NUMBER:

PROJECT NAME: Dilkon Station

SAMPLERS: (Signature) [signature] DATE:

CONTRACT LABORATORY P. O. NUMBER: Paragon Analytics, Fort Collins, Co.

LAB ID	DATE	TIME	MATRIX	SAMPLE NUMBER	TOTAL NUMBER OF CONTAINERS	COMPOSITE OR GRAB	TCLP 8270	TCLP 8240	TCLP metals (8)	Corrosivity	Ignitability	Reactivity	REMARKS
-01	7-31-97	12:35	Soil	F970108	8oz 2	C	✓	✓	✓	✓	✓	✓	1- Leadspace free Jar

VIA FEDX

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
[signature]	8-1-97 0930	[signature] 8/2/97 1000			
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED OF LABORATORY BY: (Signature)

REQUESTED TURNAROUND TIME: ☐ ROUTINE ☒ RUSH 5-day

CARRIER CO.:

BILL NO.:

SAMPLE RECEIPT REMARKS:

CHARGE CODE:

RESULTS & INVOICES TO:

TRANSMISSION OPERATIONS LABORATORY
EL PASO NATURAL GAS COMPANY
8645 RAILROAD DRIVE
EL PASO, TEXAS 79904

915-759-2229 FAX: 915-759-2335

Field Sampler

FM-08-0566 (Rev. 5)

TCLP VOLATILE ORGANICS

Method 8260

Sample ID

Reagent Blank

Lab Name: Paragon Analytics, Inc.
Client Name: El Paso Natural Gas Co.
Client Project ID: Dilkon Station/F97-0108
Lab Sample ID: VBLK01 08-05-97

Date Collected: N/A
Date Extracted: N/A
Date Analyzed: 08-05-97

Sample Matrix: Water
Sample Volume: 5 mL

EPA HW Number	Analyte	CAS Number	Result (mg/L)	Reporting Limit (mg/L)
D043	Vinyl chloride	75-01-4	ND	0.01
D029	1,1-Dichloroethene	75-35-4	ND	0.01
D022	Chloroform	67-66-3	ND	0.01
D028	1,2-Dichloroethane	107-06-2	ND	0.01
D035	Methyl ethyl ketone	78-93-3	ND	0.01
D019	Carbon tetrachloride	56-23-5	ND	0.01
D040	Trichloroethene	79-01-6	ND	0.01
D018	Benzene	71-43-2	ND	0.01
D039	Tetrachloroethene	127-18-4	ND	0.01
D021	Chlorobenzene	108-90-7	ND	0.01

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
Dibromofluoromethane	99	85-115
Toluene-d8	101	88-110
Bromofluorobenzene	99	85-115

ND = Not Detected

TCLP VOLATILE ORGANICS

Method 8260

Sample ID

TCLP Reagent Blank

Lab Name: Paragon Analytics, Inc.
Client Name: El Paso Natural Gas Co.
Client Project ID: Dilkon Station/F97-0108
Lab Sample ID: TCLPRB1 08-04-97

Date Collected: N/A
Date Extracted: 08-04-97
Date Analyzed: 08-05-97

Sample Matrix: TCLP Leachate
Sample Volume: 1.0 mL

EPA HW Number	Analyte	CAS Number	Result (mg/L)	Reporting Limit (mg/L)
D043	Vinyl chloride	75-01-4	ND	0.05
D029	1,1-Dichloroethene	75-35-4	ND	0.05
D022	Chloroform	67-66-3	ND	0.05
D028	1,2-Dichloroethane	107-06-2	ND	0.05
D035	Methyl ethyl ketone	78-93-3	ND	0.05
D019	Carbon tetrachloride	56-23-5	ND	0.05
D040	Trichloroethene	79-01-6	0.0214 J	0.05
D018	Benzene	71-43-2	ND	0.05
D039	Tetrachloroethene	127-18-4	ND	0.05
D021	Chlorobenzene	108-90-7	ND	0.05

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
Dibromofluoromethane	101	85-115
Toluene-d8	99	88-110
Bromofluorobenzene	98	85-115

ND = Not Detected
J = Estimated value, analyte found below detection limit

TCLP VOLATILE ORGANICS

Method 8260

Sample ID

F97-0108

Lab Name: Paragon Analytics, Inc.
Client Name: El Paso Natural Gas Co.
Client Project ID: Dilkon Station/F97-0108
Lab Sample ID: 9708011-1

Date Collected: 07-31-97
Date Extracted: 08-04-97
Date Analyzed: 08-05-97

Sample Matrix: TCLP Leachate
Sample Volume: 1.0 mL

EPA HW Number	Analyte	CAS Number	Result (mg/L)	Reporting Limit (mg/L)
D043	Vinyl chloride	75-01-4	ND	0.05
D029	1,1-Dichloroethene	75-35-4	ND	0.05
D022	Chloroform	67-66-3	ND	0.05
D028	1,2-Dichloroethane	107-06-2	ND	0.05
D035	Methyl ethyl ketone	78-93-3	ND	0.05
D019	Carbon tetrachloride	56-23-5	ND	0.05
D040	Trichloroethene	79-01-6	ND	0.05
D018	Benzene	71-43-2	ND	0.05
D039	Tetrachloroethene	127-18-4	ND	0.05
D021	Chlorobenzene	108-90-7	ND	0.05

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
Dibromofluoromethane	97	85-115
Toluene-d8	102	88-110
Bromofluorobenzene	98	85-115

ND = Not Detected

TCLP VOLATILE MATRIX SPIKE RECOVERY

Method 8260

Sample ID

F97-0108

Lab Name: Paragon Analytics, Inc.
Client Name: El Paso Natural Gas Co.
Client Project ID: Dilkon Station/F97-0108
Lab Sample ID: 9708011-1

Date Collected: 07-31-97
Date Extracted: 08-04-97
Date Analyzed: 08-05-97

Sample Matrix: TCLP Leachate
Sample Volume: 1.0 mL

Analyte	Spike Added (mg/L)	Sample Concentration (mg/L)	MS Concentration (mg/L)	MS % Rec	QC Limit Recovery
Vinyl chloride	0.100	ND	0.107	107	49 - 132
1,1-Dichloroethene	0.100	ND	0.079	79	65 - 126
Methyl ethyl ketone	0.100	ND	0.078	78	68 - 123
Chloroform	0.100	ND	0.091	91	61 - 122
Carbon tetrachloride	0.100	ND	0.084	84	26 - 156
1,2-Dichloroethene	0.100	ND	0.088	88	80 - 113
Benzene	0.100	ND	0.087	87	81 - 108
Trichloroethene	0.100	ND	0.093	93	60 - 129
Tetrachloroethene	0.100	ND	0.084	84	75 - 116
Chlorobenzene	0.100	ND	0.090	90	81 - 107

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
Dibromofluoromethane	106	86 - 118
Toluene-d8	100	88 - 110
Bromofluorobenzene	99	86 - 115

ND = Not Detected

TCLP VOLATILE BLANK SPIKE RECOVERY

Method 8260

Sample ID

Blank Spike

Lab Name: Paragon Analytics, Inc.
Client Name: El Paso Natural Gas Co.
Client Project ID: Dilkon Station/F97-0108
Lab Sample ID: BS1,2 08-05-97

Date Collected: N/A
Date Extracted: N/A
Date Analyzed: 08-05-97

Sample Matrix: Water
Sample Volume: 5 mL

Analyte	Spike Added (mg/L)	Sample Concentration (mg/L)	BS Concentration (mg/L)	BS % Rec	QC Limit Recovery
Vinyl chloride	0.020	N/A	0.023	114	49 - 132
1,1-Dichloroethene	0.020	N/A	0.015	77	65 - 126
Methyl ethyl ketone	0.020	N/A	0.018	91	68 - 123
Chloroform	0.020	N/A	0.020	102	61 - 122
Carbon tetrachloride	0.020	N/A	0.018	89	26 - 156
1,2-Dichloroethene	0.020	N/A	0.021	104	80 - 113
Benzene	0.020	N/A	0.019	94	81 - 108
Trichloroethene	0.020	N/A	0.018	90	60 - 129
Tetrachloroethene	0.020	N/A	0.018	89	75 - 116
Chlorobenzene	0.020	N/A	0.019	95	81 - 107

Compound	Spike Added (µg/L)	BS2 Concentration (µg/L)	BS2 % REC	RPD	QC Limit REC
Vinyl chloride	0.020	0.022	109	5	49-132
1,1-Dichloroethene	0.020	0.015	75	3	65-126
Methyl ethyl ketone	0.020	0.016	81	12	68-130
Chloroform	0.020	0.019	95	7	61-122
Carbon tetrachloride	0.020	0.019	93	4	26-156
1,2-Dichloroethene	0.020	0.020	99	5	80-113
Benzene	0.020	0.019	97	3	81-108
Trichloroethene	0.020	0.020	98	8	60-129
Tetrachloroethene	0.020	0.018	91	3	75-116
Chlorobenzene	0.020	0.020	100	6	81-107

SURROGATE RECOVERIES

Analyte	BS1 % Recovery	BS2 % Recovery	% Rec Limits
Dibromofluoromethane	97	92	86 - 118
Toluene-d8	99	107	88 - 110
Bromofluorobenzene	97	102	86 - 115

N/A = Non Applicable

Paragon Analytics, Inc.

Instrument: HPV-1 (S/N: 3188A03493)

RUN LOG

IS/SS Amount/ID: 5.0 1255-15-2

VOA STD ID: 1255-15-5 / 1255-14

Analyst: PT

Balance #6

Date	Vial No.	Datafile	Sample ID	Dilution	Sample Amount	Needs to be Reanalyzed	Comments
8-5-97	0	A3708	VTUN01	–	1ml		1255-10-3
	1	09	VSTD020	–	4ml		
	2	10	VBLK01	–	5.0ml		
	3	11	BS1		4ml		
	4	12	BS2		4ml		
	5	13	9708013-1	1	5.0g	Yes	remove Surr Acc @ 4X
	6	14	9708013-1MS				
	7	15	9708013-1MSD				
	8	16	2			NO	
	9	17	3			NO	
	10	18	4			NO	
	11	19	9707275-1	5	1.0g	Yes	remove as MeOH extract
	12	20	1MS	5			
	13	21	1MSD	5			
	14	22	RB1 080497	5	1.0ml	NO	
	15	23	9708011-1			NO	
	16	24	1MS			NO	
	1	25	RB1 080397			Yes	
	2	26	9707323-1			NO	
	3	27	2			NO	
	4	28	2MS			NO	
	5	29	3			NO	
	6	30	4			Yes	

135160

UP DATE: 8/4/97

RKORDER #: 97-08-011

HNICIAN: Kmp

TCLP ZX

Balance # 2

		PERCENT SOLID DETERMINITATION						ZHE ALIQUOT			TUMBLE			
LS	Kmp												Kmp	
LE	SAMPLE MATRIX	FREE LIQ. Y/N	INT. SAM. WEIGHT	FILTER WEIGHT	BEAKER WEIGHT	DRY WT. OF SAMP.	% SOLID DRY/TOT	TUM. #	ALIQUOT (GRAMS)	FLUID (mL)	START DATE	START TIME	END DATE	END TIME
	N/A							4	N/A	100 mL	8/4	16:00	8/5/97	10:00
-01	Soil	N/A						5	5g	↓	↓	↓		↓

Kmp 8/5/97

8-5-97

ATIFRM 608FC

MENTS:

98G010

Paragon Analytics, Inc. - Fort Collins, Colorado

CONDITION OF SAMPLE UPON RECEIPT

CLIENT: EPNG SHIPPING CONTAINER #: 1 Cooler

WORKORDER NO. 97-08-011 INITIALS: HB DATE: 8/2/97

1.	Does this project require special handling according to NEESA, Level 3, or CLP protocols? If yes, complete a. and b. a. Cooler Temperature_____ b. Lot No's._____ c. Airbill Number		Yes	No
2.	Are custody seals on the cooler intact? If so, how many	N/A	Yes	No
3.	Are custody seals on sample containers intact?	N/A	Yes	No
4.	Is there a Chain of Custody (COC) or other representative documents, letters or shipping memos?		Yes	No
5.	Is the COC complete? Relinquished: Yes ✓ No Requested Analysis: Yes ✓ No	N/A	Yes	No
6.	Is the COC in agreement with the samples received? No. of Samples: Yes ✓ No__ Sample ID's: Yes ✓ No__ Matrix: Yes ✓ No No. of Containers: Yes ✓ No		Yes	No
7.	Are the samples requiring acid preservation preserved correctly?	N/A	Yes	No
8.	Is there enough sample? If so, are they in the proper containers?		Yes	No
9.	Are all samples within holding times for the requested analyses?		Yes	No
10.	Were the sample received on ice?	N/A	Yes	No
11.	Were all sample containers received intact? (not broken or leaking, etc.)		Yes	No
12.	Are samples requiring no headspace, headspace free?	N/A	Yes	No
13.	Do the samples require quarantine?		Yes	No
14.	Do samples require Paragon disposal?		Yes	No
15.	Did the client return any unused bottles?		Yes	No

Describe "NO" items (except No's 1, 13, &14):_____

Was the client contacted? Yes____ No____

If yes, Date:_____ Name of person contacted:_____

Describe actions taken or client instructions:_____

Group Leader's Signature:_____ Date:_____

Cooler Temperature: 10°C

Paragon Analytics, Inc.

GC/MS Semivolatiles Case Narrative

El Paso Natural Gas Co.

Dilkon Station/F97-0108

Order Number - 9708011

1. This report consists of 1 soil sample received by Paragon on August 02, 1997.

2. This sample was prepared and analyzed according to SW-846, 3rd Edition procedures. Specifically, the soil sample was tumbled by Method 1311. This TCLP leachate was then extracted using continuous liquid-liquid extractors, based on Method 3520.

3. The sample was analyzed using GC/MS with a DB-5.625 capillary column according to protocols based on SW-846 Method 8270B for TCLP compounds only. All positive results were quantitated against the initial calibration standards using the internal standard technique. The identification of positive results was achieved by a comparison of the retention time and mass spectrum of the sample versus the daily calibration standard.

4. The sample was analyzed within the established holding times.

5. The method blank associated with this project was below the reporting limits for all analytes.

6. All matrix spike recoveries were within acceptance criteria.

7. All blank spike and blank spike duplicate recoveries were within the acceptance criteria.

8. All surrogate recoveries were within acceptance limits with the following exception:

Sample	Surrogate	Event
MS	p-terphenyl-d14	recovered low

The surrogate in the associated sample was within the the acceptance criteria, but above the lower control limit by only 1 %. This indicates matrix effects are present. Re-extraction was not required.

9. All internal standard recoveries were within acceptance criteria.

10. All initial calibration criteria were within acceptance criteria. Method 8270B states any compound exceeding 15% RSD is to be quantitated with a higher order curve. Several compounds from the curve that was analyzed on August 06, 1997, were within the acceptance limit but exceeded the 15% RSD criteria and should be analyzed with a higher curve such as quadratic. We quantitated these compounds using the average response factor due to a software programming problem associated with Hewlett-Packard MSDs. The manufacturer is now aware of the problem and is working on a solution.

11. All continuing calibration criteria were within acceptance criteria.

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, Paragon Analytics, Inc. certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed.

CBiegel 8.8.97

Ann Biegelsen
Organic Chemist

Date

ZR 8-8-97

Reviewer's Initials

Date

Paragon Analytics, Inc.

SAMPLE NUMBER(S) CROSS-REFERENCE TABLE

Client Name: El Paso Natural Gas Co.

Client Project ID: Dilkon Station F97-0108

PAI-ID	Client ID	MATRIX	DATE SAMPLED
9708011-1	F97-0108	Soil	07/31/97

TCLP SEMIVOLATILE ORGANICS
Modified Method 8270

Sample ID

TCLP Blank

Lab Name: Paragon Analytics, Inc.
Client Name: El Paso Natural Gas Co.
Client Project: Dilkon Station/F97-0108
Lab Sample ID.: RB1 08-05-97

Sample Matrix: TCLP Leachate
Cleanup: None

Date Collected: N/A
Date Extracted: 08-05-97
Date Analyzed: 08-07-97
Sample Volume: 100 mL
Final Volume: 1 mL
Dilution Factor: 1

EPA HW Number	Analyte	CAS Number	Result (mg/L)	Reporting Limit (mg/L)
D023	o-Cresol	95-48-7	ND	0.1
D024, DO25	m&p-Cresol	108-39-4,106-44-5	ND	0.1
D026	Total o,m,p-Cresol		ND	0.2
D027	1,4-Dichlorobenzene	106-46-7	ND	0.1
D030	2,4-Dinitrotoluene	121-14-2	ND	0.1
D032	Hexachlorobenzene	118-74-1	ND	0.1
D033	Hexachlorobutadiene	87-68-3	ND	0.1
D034	Hexachloroethane	67-72-1	ND	0.1
D036	Nitrobenzene	98-95-3	ND	0.1
D037	Pentachlorophenol	87-86-5	ND	0.5
D038	Pyridine	110-86-1	ND	0.1
D041	2,4,5-Trichlorophenol	95-95-4	ND	0.5
D042	2,4,6-Trichlorophenol	88-06-2	ND	0.1

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	54	21-100
Phenol-d5	58	15-104
Nitrobenzene-d5	60	34-111
2-Fluorobiphenyl	52	21-106
2,4,6-Tribromophenol	62	23-100
Terphenyl-d14	58	33-111

ND = Not detected

TCLP SEMIVOLATILE ORGANICS
Modified Method 8270

Sample ID

F97-0108

Lab Name: Paragon Analytics, Inc.
Client Name: El Paso Natural Gas Co.
Client Project: Dilkon Station/F97-0108
Lab Sample ID.: 9708011-1

Sample Matrix: TCLP Leachate
Cleanup: None

Date Collected: 07-31-97
Date Extracted: 08-05-97
Date Analyzed: 08-07-97
Sample Volume: 100 mL
Final Volume: 1 mL
Dilution Factor: 1

EPA HW Number	Analyte	CAS Number	Result (mg/L)	Reporting Limit (mg/L)
D023	o-Cresol	95-48-7	ND	0.1
D024, DO25	m&p-Cresol	108-39-4,106-44-5	ND	0.1
D026	Total o,m,p-Cresol		ND	0.2
D027	1,4-Dichlorobenzene	106-46-7	ND	0.1
D030	2,4-Dinitrotoluene	121-14-2	ND	0.1
D032	Hexachlorobenzene	118-74-1	ND	0.1
D033	Hexachlorobutadiene	87-68-3	ND	0.1
D034	Hexachloroethane	67-72-1	ND	0.1
D036	Nitrobenzene	98-95-3	ND	0.1
D037	Pentachlorophenol	87-86-5	ND	0.5
D038	Pyridine	110-86-1	ND	0.1
D041	2,4,5-Trichlorophenol	95-95-4	ND	0.5
D042	2,4,6-Trichlorophenol	88-06-2	ND	0.1

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	46	21-100
Phenol-d5	49	15-104
Nitrobenzene-d5	52	34-111
2-Fluorobiphenyl	39	21-106
2,4,6-Tribromophenol	48	23-100
Terphenyl-d14	35	33-111

ND = Not detected

TCLP SEMIVOLATILE ORGANICS MATRIX SPIKE

Modified Method 8270

Sample ID

F97-0108

Lab Name: Paragon Analytics, Inc.
Client Name: El Paso Natural Gas Co.
Client Project: Dilkon Station/F97-0108
Lab Sample ID: 9708011-1

Sample Matrix: TCLP Leachate
Cleanup: None

Date Collected: 07-31-97
Date Extracted: 08-05-97
Date Analyzed: 08-07-97
Sample Volume: 100 mL
Final Volume: 1 mL
Dilution Factor: 1

Analyte	Spike Added (mg/L)	Sample Concentration (mg/L)	MS Concentration (mg/L)	MS % Rec	QC Limit Recovery
Pyridine	0.50	ND	0.151	30	D - 104
1,4-Dichlorobenzene	0.50	ND	0.168	34	D - 99
2-Methylphenol	1.00	ND	0.463	46	D - 134
3 and 4-Methylphenol	2.00	ND	0.967	48	D - 112
Hexachloroethane	0.50	ND	0.169	34	D - 110
Nitrobenzene	0.50	ND	0.200	40	10 - 121
Hexachlorobutadiene	0.50	ND	0.142	28	D - 98
2,4,6-Trichlorophenol	1.00	ND	0.401	40	D - 106
2,4,5-Trichlorophenol	1.00	ND	0.437	44	D - 114
2,4-Dinitrotoluene	0.50	ND	0.153	31	D - 117
Hexachlorobenzene	0.50	ND	0.138	28	1 - 112
Pentachlorophenol	1.00	ND	0.441	44	D - 123

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	41	21-110
Phenol-d5	46	15-104
Nitrobenzene-d5	47	34-111
2-Fluorobiphenyl	36	21-106
2,4,6-Tribromophenol	42	23-100
Terphenyl-d14	28 *	33-111

ND = Not detected
* = Outside limits

TCLP SEMIVOLATILE ORGANICS BLANK SPIKE

Modified Method 8270

Sample ID

Blank Spike

Lab Name: Paragon Analytics, Inc.
Client Name: El Paso Natural Gas Co.
Client Project: Dilkon Station/F97-0108
Lab Sample ID: BS1 08-05-97

Sample Matrix: TCLP Leachate
Cleanup: None

Date Collected: N/A
Date Extracted: 08-05-97
Date Analyzed: 08-07-97
Sample Volume: 100 mL
Final Volume: 1 mL
Dilution Factor: 1

Analyte	Spike Added (mg/L)	Sample Concentration (mg/L)	BS Concentration (mg/L)	BS % Rec	QC Limit Recovery
Pyridine	0.50	N/A	0.201	40	D - 83
1,4-Dichlorobenzene	0.50	N/A	0.223	45	12 - 88
2-Methylphenol	1.00	N/A	0.633	63	21 - 97
3 and 4-Methylphenol	2.00	N/A	1.311	66	29 - 92
Hexachloroethane	0.50	N/A	0.222	44	18 - 83
Nitrobenzene	0.50	N/A	0.278	56	14 - 105
Hexachlorobutadiene	0.50	N/A	0.211	42	16 - 82
2,4,6-Trichlorophenol	1.00	N/A	0.558	56	24 - 84
2,4,5-Trichlorophenol	1.00	N/A	0.612	61	19 - 96
2,4-Dinitrotoluene	0.50	N/A	0.204	41	D - 104
Hexachlorobenzene	0.50	N/A	0.216	43	22 - 101
Pentachlorophenol	1.00	N/A	0.601	60	22 - 111

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	52	21-110
Phenol-d5	59	15-104
Nitrobenzene-d5	61	34-111
2-Fluorobiphenyl	51	21-106
2,4,6-Tribromophenol	57	23-100
Terphenyl-d14	53	33-111

N/A = Not applicable

TCLP SEMIVOLATILE ORGANICS BLANK SPIKE

Modified Method 8270

Sample ID

Blank Spike Duplicate

Lab Name: Paragon Analytics, Inc.
Client Name: El Paso Natural Gas Co.
Client Project: Dilkon Station/F97-0108
Lab Sample ID: BS2 08-05-97

Sample Matrix: TCLP Leachate
Cleanup: None

Date Collected: N/A
Date Extracted: 08-05-97
Date Analyzed: 08-07-97
Sample Volume: 100 mL
Final Volume: 1 mL
Dilution Factor: 1

Analyte	Spike Added (mg/L)	Sample Concentration (mg/L)	BS Concentration (mg/L)	BS % Rec	QC Limit Recovery
Pyridine	0.50	N/A	0.188	38	D - 83
1,4-Dichlorobenzene	0.50	N/A	0.201	40	12 - 88
2-Methylphenol	1.00	N/A	0.569	57	21 - 97
3 and 4-Methylphenol	2.00	N/A	1.202	60	29 - 92
Hexachloroethane	0.50	N/A	0.193	39	18 - 83
Nitrobenzene	0.50	N/A	0.265	53	14 - 105
Hexachlorobutadiene	0.50	N/A	0.206	41	16 - 82
2,4,6-Trichlorophenol	1.00	N/A	0.517	52	24 - 84
2,4,5-Trichlorophenol	1.00	N/A	0.544	54	19 - 96
2,4-Dinitrotoluene	0.50	N/A	0.189	38	D - 104
Hexachlorobenzene	0.50	N/A	0.211	42	22 - 101
Pentachlorophenol	1.00	N/A	0.551	55	22 - 111

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	48	21-110
Phenol-d5	55	15-104
Nitrobenzene-d5	58	34-111
2-Fluorobiphenyl	46	21-106
2,4,6-Tribromophenol	50	23-100
Terphenyl-d14	49	33-111

N/A = Not applicable

Paragon Analytics, Inc.

TCLP METALS CASE NARRATIVE

El Paso Natural Gas Co.

Dilkon Station -- F97-0108

Order Number - 9708011

1. This report consists of 1 TCLP sample.
2. The sample was received cool and intact on 08/02/97.
3. The sample was prepared for analysis based on SW-846, 3rd Edition procedures.

   The sample was processed through the TCLP leaching procedure based on method 1311. The leachate was then digested at a 10 fold dilution as follows.

   For analysis by Trace ICP the leachate was digested following method 3010A.

   For analysis by Cold Vapor AA (CVAA) the leachate was digested following method 7470.
4. The leachate was analyzed following SW846 protocols by Trace ICP (Method 6010A) and CVAA (Method 7470). The analysis of silver was done by Trace ICP.
5. All standards and solutions are NIST traceable and were used within their recommended shelf life.
6. The sample was prepared and analyzed within the established hold times.
7. Sample results which are below PAI's standard reporting limits are reported as "ND" on the enclosed report.

All in house quality control procedures were followed, as described below.

8. General quality control procedures.
   - A preparation (method) blank and laboratory control sample were digested and analyzed with the samples in each digestion batch. There were not more than 20 samples in each digestion batch.
   - The preparation (method) blank results associated with each batch were below the reporting limits for the requested analytes. This indicates that no contaminants were introduced to the samples during the digestion procedure.
   - The laboratory control sample associated with each batch was within acceptance limits. This indicates complete digestion according to the method.

- All initial and continuing calibration blanks associated with each batch were below the reporting limits for the requested analytes. This indicates a valid calibration and stable instrument conditions.
- All initial and continuing calibration verifications associated with each batch were within acceptance criteria for the requested analytes. This indicates a valid calibration and stable instrument conditions.
- The interference check samples, and high standard readbacks associated with Method 6010A analyses were within acceptance criteria.

9. A sample from this Order Number was used as the matrix QC sample for the ICP batch. A sample from another Order Number was used as the matrix QC sample for the mercury batch.

   - A matrix spike and matrix spike duplicate were digested and analyzed with each batch. All acceptance criteria for accuracy were met with the following exception.

Analyte	Sample ID
Silver	9708011-1S & DS

   Failure of the silver spikes resulted in the analysis of a post digestion analytical spike. Results of the spike were acceptable indicating that the matrix was not significantly affecting quantitation of this analyte.

   - A sample duplicate and spike duplicate were digested and analyzed with each batch. All acceptance criteria for precision were met.
   - A serial dilution was analyzed with the ICP batch. All acceptance criteria were met.

The data contained in the following report have been reviewed and approved by the personnel listed below:

Kim Hamacher — 8/15/97
Kim Hamacher, Senior Inorganic Chemist — Date

SW — 8/15/97
Reviewer's Initials — Date

CERTIFICATION

Paragon Analytics, Inc. certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed.

TCLP METALS

Lab Name: Paragon Analytics, Inc.
Client Name: El Paso Natural Gas Co.
Client Project ID: Dilkon Station -- F97-0108
Lab Sample ID: RB 9708011

Sample Matrix: TCLP Leachate

Sample ID

TCLP Blank

Date Collected: N/A
Prep Date: 08/05, 12/97
Date Analyzed: 08/05, 13/97

EPA HW Number	CAS Number	Analyte	Concentration mg/L	Reporting Limit (mg/L)
D004	7440-38-2	Arsenic	ND	0.1
D005	7440-39-3	Barium	ND	1
D006	7440-43-9	Cadmium	ND	0.05
D007	7440-47-3	Chromium	ND	0.1
D008	7439-92-1	Lead	ND	0.03
D009	7439-97-6	Mercury	ND	0.002
D010	7782-49-2	Selenium	ND	0.05
D011	7440-22-4	Silver	ND	0.1

ND = Not detected at or above the reporting limit.

YA

TCLP METALS

Lab Name: Paragon Analytics, Inc.
Client Name: El Paso Natural Gas Co.
Client Project ID: Dilkon Station -- F97-0108
Lab Sample ID: 9708011-1

Sample Matrix: TCLP Leachate

Sample ID

F97-0108

Date Collected: 07/31/97
Prep Date: 08/05, 12/97
Date Analyzed: 08/05, 13/97

EPA HW Number	CAS Number	Analyte	Concentration mg/L	Reporting Limit (mg/L)
D004	7440-38-2	Arsenic	ND	0.1
D005	7440-39-3	Barium	ND	1
D006	7440-43-9	Cadmium	ND	0.05
D007	7440-47-3	Chromium	ND	0.1
D008	7439-92-1	Lead	ND	0.03
D009	7439-97-6	Mercury	ND	0.002
D010	7782-49-2	Selenium	ND	0.05
D011	7440-22-4	Silver	ND	0.1

ND = Not detected at or above the reporting limit.

XH

TCLP METALS
POST SPIKE

Lab Name: Paragon Analytics, Inc.
Client Name: El Paso Natural Gas Co.
Lab Sample ID: 9708011-1

Sample ID

F97-0108

Sample Matrix: TCLP Leachate

Prep Date: 08/05/97
Date Analyzed: 08/05/97

Analyte	Spike Added mg/L	Sample Conc. mg/L	PS Conc. mg/L	% Rec (limits 85-115%)	Flags
Silver	2.0	< 0.1	2.2	110	

Although matrix spike recovery was outside the control limits, the post spike indicates that the matrix is not significantly affecting quantitation of the analyte.

14

TCLP METALS
MATRIX SPIKE

Lab Name: Paragon Analytics, Inc.
Client Name: El Paso Natural Gas Co.
Lab Sample ID: 9708011-1

Sample ID
F97-0108

Prep Date: 08/05/97
Sample Matrix: TCLP Leachate
Date Analyzed: 08/05/97

Analyte	Spike Added mg/L	Sample Conc. mg/L	MS Conc. mg/L	% Rec (limits 80-120%)	Flags
Arsenic	20.0	< 0.1	19.8	99	
Barium	20	< 1	19	95	
Cadmium	0.50	< 0.05	0.46	92	
Chromium	2.0	< 0.1	1.7	85	
Lead	5.00	< 0.03	4.70	94	
Selenium	20.0	< 0.05	20.2	101	
Silver	2.0	< 0.1	0.8	40	N

Analyte	MSD Conc. mg/L	MSD % Rec (limits 80-120%)	Relative % Difference (limits 0-20%)	Flags	
Arsenic	19.9	100	1		
Barium	19	95	0		
Cadmium	0.45	90	2		
Chromium	1.7	85	0		
Lead	4.69	94	0		
Selenium	20.5	103	1		
Silver	1.1	55	32	N	M

N: Matrix spike recovery outside the acceptance limits. A post-digestion spike was performed to evaluate matrix effect.
M: Relative percent difference between spike and spike duplicate is outside control limits.

TCLP METALS
MATRIX SPIKE

Lab Name: Paragon Analytics, Inc.
Client Name: El Paso Natural Gas Co.
Lab Sample ID: 9707268-4

Sample ID

In House

Prep Date: 08/12/97
Date Analyzed: 08/13/97

Sample Matrix: TCLP Leachate

Analyte	Spike Added mg/L	Sample Conc. mg/L	MS Conc. mg/L	% Rec (limits 80-120%)	Flags
Mercury	0.020	< 0.002	0.020	100	

Analyte	MSD Conc. mg/L	MSD % Rec (limits 80-120%)	Relative % Difference (limits 0-20%)	Flags
Mercury	0.020	100	0	

Paragon Analytics, Inc.

INORGANICS CASE NARRATIVE

El Paso Natural Gas

Dilkon Station F97-0108

Order Number - 9708011

1. This report consists of data for 1 soil sample analyzed for reactive cyanide and reactive sulfide.
2. The sample was received cool and intact on 08/02/97.
3. The sample had been correctly preserved for the requested analyses.
4. The sample was carried through the vapor generation procedure for Reactive Cyanide Reactive Sulfide as described in Chapter Seven of USEPA SW-846. Released cyanide was determined colorimetrically according to Method 9010. Released sulfide was determined by iodometric titration according to Method 9030.
5. All standards and solutions were used within their recommended shelf life.
6. Sample results which are below the reporting limit are reported as "ND" on the enclosed report.

All in house quality control procedures were followed, as described below.

7. General quality control procedures.
   - A method blank and a matrix duplicate were prepared and analyzed.
   - The method blank result was within acceptance limits.
   - The matrix duplicate result was within acceptance limits

The data contained in the following report have been reviewed and approved by the personnel listed below:

BT	8-8-97
Reporter's Initials	Date
B.P.	8-8-97
Reviewer's Initials	Date

CERTIFICATION

Paragon Analytics, Inc. certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed.

REACTIVE CYANIDE

EPA SW-846 Chapter 7

Lab Name: Paragon Analytics, Inc.
Client Name: El Paso Natural Gas Co.
Client Project ID: Dilkon Station
Client Project No: F97-0108
Lab Workorder Number: 9708011

Date Collected: 07/31/97
Date Analyzed: 08/07/97
Sample Matrix: Soil

Client ID	Lab Sample ID	Reactive Cyanide Conc (mg/kg)	Detection Limit (mg/kg)
	Method Blank	ND	0.5
F97-0108	9708011-1	ND	0.5

ND = Not Detected

Reactive CN Calculations and Quality Control Results

Vapor Generation Date: August 04, 1997
Date analyzed: August 07, 1997

std (ug/L)	Abs (578nm)	calc soln conc (ug/L)
0	0.000	0.9
20	0.034	17.8
40	0.069	35.3
100	0.211	106.1
200	0.404	202.3
300	0.600	300.0
400	0.796	397.7

Regression Output:

Constant		0.8538
Std Err of Y Est		3.8752
R Squared		0.9995
No. of Observations		7
Degrees of Freedom		5
X Coefficient(s)	498.5919	
Std Err of Coef.	5.138067	

ID:	sample aliq (g)	trap vol (mL)	aliq for color dev (mL)	Abs (578nm)	calc soln conc (ug/L)	sample conc (mg/kg)	DL (mg/L)
ICV			10	0.203	102.1		
ICB			10	0.002	1.9		
M Blank	10	100	10	0.003	2.3	0.02	0.1
LCS	10	100	1	0.719	359.3	35.93	1
LCS Dup	10	100	1	0.638	319.0	31.90	1
9707307-8	10	100	10	0.004	2.8	0.03	0.1
9707307-9	10	100	10	0.003	2.3	0.02	0.1
9707222-1	10	100	10	0.002	1.9	0.02	0.1
9707222-1 Dup	10	100	10	0.005	3.3	0.03	0.1
9707222-2	10	100	10	0.003	2.3	0.02	0.1
9707222-3	10	100	10	0.002	1.9	0.02	0.1
9707222-3 Dup	10	100	10	0.001	1.4	0.01	0.1
CCV			10	0.207	104.1		
CCB			10	0.003	2.3		
9707222-4	10	100	10	-0.001	0.4	0.00	0.1
9707257-4	10	100	10	0.005	3.3	0.03	0.1
9707257-10	10	100	10	0.003	2.3	0.02	0.1
9707323-1	10	100	10	0.002	1.9	0.02	0.1
9707323-2	10	100	10	0.005	3.3	0.03	0.1
9707323-3	10	100	10	0.001	1.4	0.01	0.1
9707323-4	10	100	10	0.004	2.8	0.03	0.1
9708011-1	10	100	10	0.004	2.8	0.03	0.1
CCV			10	0.204	102.6		
CCB			10	0.002	1.9		

CN Quality Control Results

Vapor Generation Date: August 04, 1997
Date analyzed: August 07, 1997

BLANK SUMMARY

ID	blank CN conc (mg/kg)	accept. limit (mg/kg)
M Blank	0.02	< 0.2

DUPLICATE SUMMARY

ID	sample conc (mg/kg)	duplic conc (mg/kg)	RPD %
9707222-1	ND	ND	NA
9707257-4	ND	ND	NA

ND = Not Detected
NA = Not Applicable

REACTIVE SULFIDE

EPA SW-846 Chapter 7

Lab Name: Paragon Analytics, Inc.
Client Name: El Paso Natural Gas Co.
Client Project ID: Dilkon Station
Client Project No: F97-0108
Lab Workorder Number: 9708011

Date Collected: 07/31/97
Date Analyzed: 08/07/97
Sample Matrix: Soil

Client ID	Lab Sample ID	Reactive Sulfide Conc (mg/kg)	Detection Limit (mg/kg)
	Method Blank	ND	50
F97-0108	9708011-1	ND	50

ND = Not Detected

Reactive Sulfide Calculations and Quality Control Results

Date Prepared: Aug 4-5, 1997
Date Titrated: Aug 7, 1997

sample ID:	sample wt	trap vol mL	aliq trap titrated mL	conc std I2 meq/mL	vol std I2 mL	thiosulf conc (meq/mL)	thiosulf vol (mL)	sulfide meq	sulfide mg	sulfide mg/kg
M. Blank	10	100	90	0.0270	5.94	0.0261	5.88	0.007	0.110	12
9707222-1	10	100	90	0.0270	3.08	0.0261	3.30	-0.003	-0.048	-5
9707222-1 dup	10	100	90	0.0270	2.94	0.0261	3.18	-0.004	-0.058	-6
9707222-2	10	100	90	0.0270	3.11	0.0261	3.19	0.001	0.011	1
9707222-3	10	100	90	0.0270	2.98	0.0261	3.02	0.002	0.026	3
9707222-3 dup	10	100	90	0.0270	2.84	0.0261	2.81	0.003	0.053	6
9707222-4	10	100	90	0.0270	3.03	0.0261	3.29	-0.004	-0.065	-7
9707257-4	10	100	90	0.0270	3.02	0.0261	3.09	0.001	0.014	2
9707257-10	10	100	90	0.0270	2.97	0.0261	3.16	-0.002	-0.037	-4
9707323-1	10	100	90	0.0270	3.08	0.0261	3.09	0.003	0.040	4
9707323-2	10	100	90	0.0270	2.96	0.0261	3.12	-0.002	-0.024	-3
9707323-3	10	100	90	0.0270	2.95	0.0261	2.99	0.002	0.026	3
9707323-4	10	100	90	0.0270	2.89	0.0261	2.87	0.003	0.050	6
9708011-1	10	100	90	0.0270	2.88	0.0261	2.99	-0.000	-0.005	-1
9707307-8	10	100	90	0.0270	5.50	0.0261	5.55	0.004	0.058	6
9707307-9	10	100	90	0.0270	2.88	0.0261	2.94	0.001	0.016	2
LCS	10	100	100	0.0270	5.92	0.0261	5.18	0.025	0.394	39
LCS dup	10	100	100	0.0270	5.69	0.0261	4.76	0.029	0.470	47

Standardization of iodine solution:

iodine vol titrated (mL)	thiosulf conc (meq/mL)	thiosulf vol (mL)	calc iodine conc (meq/mL)
5.70	0.0261	6.11	0.0280
5.46	0.0261	5.52	0.0264
5.90	0.0261	6.02	0.0266
		mean =	0.0270

Reactive Sulfide Quality Control Results

Date Prepared: Aug 4-5, 1997
Date Titrated: Aug 7, 1997

BLANK SUMMARY

ID	blank S conc (mg/kg)	accept. limit (mg/kg)
M. Blank	12	< 50

DUPLICATE SUMMARY

ID	sample S conc (mg/kg)	duplic S conc (mg/kg)	RPD %	accept. limits
9707307-9	ND	ND	NA	< 20%

ND = not detected
NA = not applicable

Paragon Analytics, Inc.

pH Analysis Case Narrative

El Paso Natural Gas Co.

Dilkon Station / F97-0108

Order Number - 9708011

1. This report consists of one soil sample.
2. The sample was received cool and intact on August 2, 1997.
3. The sample was prepared for analysis based on SW-846, 3rd Edition procedures. Specifically, the soil samples were analyzed following Method 9045B.
4. All standards and solutions were used within their recommended shelf life.

All in house quality control procedures were followed, as described below.

5. General quality control procedures.
   - All initial and continuing calibration verifications associated with this batch were within acceptance criteria for the requested analyte. This indicates a valid calibration and stable instrument conditions.
6. A sample from another Order Number was used for the matrix QC sample for this batch.
   - A duplicate was prepared and analyzed with this batch. All acceptance criteria were met.

The data contained in the following report have been reviewed and approved by the personnel listed below:

Krista Mobley Inorganic Technician	8-5-97 Date
SW Reviewer's Initials	8/6/97 Date

CERTIFICATION

Paragon Analytics, Inc. certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed.

Paragon Analytics, Inc.

SAMPLE NUMBER(S) CROSS-REFERENCE TABLE

Client Name: El Paso Natural Gas Co.

Client Project ID: Dilkon Station F97-0108

PAI-ID	Client ID	MATRIX	DATE SAMPLED
9708011-1	F97-0108	Soil	07/31/97

pH Soil

Method SW846 9045B

Sample Results

Lab Name: Paragon Analytics, Inc.
ClientName: El Paso Natural Gas Co.
Client Project ID: Dilkon Station F97-0108
Work Order Number: 9708011
Reporting Basis: AS RECEIVED
Reported on: Tuesday, August 05, 1997
Final Volume: N/A
Matrix: Soil

Client Sample ID	Lab ID	Date Collected	Date Prepared	Date Analyzed	Percent Moisture	Dilution Factor	Result	Units	Detection Limit	Flag	Sample Aliquot
F97-0108	9708011-1	7/31/97	N/A	8/5/97	N/A	1	8.2	PH			N/A

Comments:

PARAGON ANALYTICS, INC.

QUALITY ASSURANCE DATA REVIEW

Date: 08/04/97

PAI Workorder: 97-08-011 Analysis: 1010

The data contained in the following report have been reviewed and approved by the personnel listed below:

Wesley S. Mayfield

Wesley S. Mayfield
Senior Technician

CERTIFICATION

Paragon Analytics, Inc. certifies that the analyses reported herein are true, complete, and correct within the limits of the methods employed

A case narrative ____ is X is not included with this report.

IGNITABILITY

Method 1010

Lab Name: Paragon Analytics, Inc.
Client Name: El Paso Natural Gas Co.
Client Project ID: Dilkon Station F97-0108
Lab Workorder Number: 97-08-011

Date Collected: 07/31/97
Date Analyzed: 08/04/97
Sample Matrix: Soil

Sample ID	Lab Sample ID	Ignitable At (degree C)	Non-Ignitable Below (degree C)
F97-0108	97-08-011-01		96.5

IGNITABILITY (IGN)

WORKORDER # 97-08-010, 011 ANALYST WSM

DATE 8/4/97

SAMPLE #	FLASH #1	FLASH #2	CORRECTED FLASH	BAROMETRIC PRESSURE	COMMENTS
P-XYLENE	23°	23°	N/A	N/A	O.K.
010 -01	796.5°	796.5°	N/A	N/A	Sample Did not flash
011 - 01	796.5	796.5	N/A	N/A	Sample Did not flash
				WSM 8/4/97	
011-01 dup	796.5	796.5	N/A	N/A	Sample Did not Flash
				WSM 8/4/97	
dup					

CALCULATION FOR THE CORRECTED FLASH POINT:

C + 0.25 (101.3 - p)

C + 0.033 (760 - P)

WHERE:

C = OBSERVED FLASH POINT, DEGREES C

P = AMBIENT BAROMETRIC PRESSURE, mm Hg

p = AMBIENT BAROMETRIC PRESSURE, kPa

Fort Collins Downtown Airport

For Ambient Barometric Pressure Readings:

484-4186

Paragon Analytics, Inc. - Fort Collins, Colorado

CONDITION OF SAMPLE UPON RECEIPT

CLIENT: EPNG SHIPPING CONTAINER #: 1 Cooler

WORKORDER NO. 97-08-011 INITIALS: HB DATE: 8/2/97

1.	Does this project require special handling according to NEESA, Level 3, or CLP protocols? If yes, complete a. and b. a. Cooler Temperature_____ b. Lot No's._____ c. Airbill Number		Yes	No
2.	Are custody seals on the cooler intact? If so, how many	N/A	Yes	No
3.	Are custody seals on sample containers intact?	N/A	Yes	No
4.	Is there a Chain of Custody (COC) or other representative documents, letters or shipping memos?		Yes	No
5.	Is the COC complete? Relinquished: Yes ✓ No Requested Analysis: Yes ✓ No	N/A	Yes	No
6.	Is the COC in agreement with the samples received? No. of Samples: Yes ✓ No__ Sample ID's: Yes ✓ No__ Matrix: Yes ✓ No No. of Containers: Yes ✓ No		Yes	No
7.	Are the samples requiring acid preservation preserved correctly?	N/A	Yes	No
8.	Is there enough sample? If so, are they in the proper containers?		Yes	No
9.	Are all samples within holding times for the requested analyses?		Yes	No
10.	Were the sample received on ice?	N/A	Yes	No
11.	Were all sample containers received intact? (not broken or leaking, etc.)		Yes	No
12.	Are samples requiring no headspace, headspace free?	N/A	Yes	No
13.	Do the samples require quarantine?		Yes	No
14.	Do samples require Paragon disposal?		Yes	No
15.	Did the client return any unused bottles?		Yes	No

Describe "NO" items (except No's 1, 13, &14):_____

Was the client contacted? Yes____ No____

If yes, Date:_____ Name of person contacted:_____

Describe actions taken or client instructions:_____

Group Leader's Signature:_____ Date:_____

Cooler Temperature: 6°C

FRM 201FC6 (24/1/97)

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
1000 Rio Brazos Road
Aztec, 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 Original Plus 1 Copy to appropriate District Office

Env JN: 97059

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Giant Transport
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Aztec Station
2. Management Facility Destination Envirotech Soil Remediation Fac Landfarm #2	6. Transportar Giant Transport
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State Utah ~~Arizona~~ - New Mex.
7. Location of Material (Street Address or ULSTR)	NW2 Sec 32, T40S, R24E Montezuma Creek, San Juan County, Utah

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 spills and leaks at a storage tank battery.
TCLP & Workplan addressed to Navajo EPA Attached.

RECEIVED
SEP - 8 1997
OIL CON. DIV.
DIST. 3

RECEIVED
AUG 11 1997
OIL CON. DIV.
DIST. 3

Held for Navajo Approval Letter

Estimated Volume 30-40 cy Known Volume (to be entered by the operator at the end of the haul) 98 cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 8-11-97
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. Foust TITLE: Geologist DATE: 9/4/97

APPROVED BY: TITLE: DATE: 9/5/97

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
1000 Rio Brazos Road
Aztec, 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: 97059

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Giant Transport
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Aneth Station
2. Management Facility Destination Envirotech Soil Remediation Fac. Landfarm #2	6. Transporter Giant Transport
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State Utah. ~~Arizona~~ - Nav. Nat.
7. Location of Material (Street Address or ULSTR)	NW2 Sec 32, T40S, R24E Montezuma Creek, San Juan Cnty, Utah.

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 spills and leaks at a storage Tank battery.
TCLP & Workplan addressed To Navajo EPA Attached.

RECEIVED
AUG 11 1997
OIL CON. DIV.
DIST. 3

Held for Navajo Approval Letter

Estimated Volume 30-40 cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 8-11-97
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: _____

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
Giant Transportation 5764 US Hwy. 64 Farmington, NM. 87401	Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico
3. Originating Site (name): Aneth Station (Giant Pump Station) Crude Transfer Station **Attach list of originating sites as appropriate**	**Location of the Waste (Street address &/or ULSTR):** NW 1/2 532-T405-R24 E Montezuma Creek San Juan County, Utah
4. Source and Description of Waste Spill and Leak clean-up from storage Tanks	

I, Barry G. Holman representative for:
(Print Name)

Giant Transportation 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

XX **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): Barry G. Holman - Barry G. Holman

Title: Safety Manager

Date: 8/8/97

THE NAVAJO NATION

ALBERT A. HALE
PRESIDENT

THOMAS E. ATCITTY
VICE PRESIDENT

August 29, 1997

RECEIVED
SEP - 3 1997
OIL CON. DIV.
DIST. 3

Mr. Barry G. Holman
Giant Industries, Transportation Department
5764 U.S. Highway 64
Farmington, NM 87401

RE: GIANT OIL SPILL AT MONTEZUMA CREEK, UTAH
DISPOSITION OF CONTAMINATED SOIL

Dear Mr. Holman:

We have reviewed the information and soil sample reports you provided concerning the petroleum contaminated soil stockpiled at Giant Industries Aneth Station in Montezuma Creek, Utah.

The operator is responsible for certification of the RCRA status of the contaminated soil.

We have no objection to the contaminated soil being removed to New Mexico for treatment at the Envirotech landfarm facility. In addition, the plastic liner on which the soil was stored must be removed for proper disposal, and any contaminated soil found under the liner must be removed. The soil and other waste material may not be returned to Navajo Nation lands after removal from the Aneth Station site.

Sincerely,

Bennie Cohoe

Bennie Cohoe, Acting Executive Director
Navajo Nation Environmental
Protection Agency

GIANT
TRANSPORTATION

Mr. Melvin Capitan Jr.
Navajo Nation EPA
Groundwater Pollution Control Program
P.O. Box 1979
Shiprock, NM. 87420

Dear Mr. Capitan

I am writing this letter to inform you that Giant Industries Transportation Department is in the process of cleaning some contaminated soil from the Aneth Utah Montezuma Creek station. This soil is contaminated with Petroleum Crude oil that has leaked from tanks and valves. There is about 30 to 40 yards that we are proposing to move to the Envirotech Land Farm #2 that is located to the South of Bloomfield, NM. on US Hwy. 44.

Enclosed are analytical results for your review from a sample collected from the location designated as "Giant Industries Aneth Utah Station, Montezuma Creek, UT". The test that we performed was a TCLP Volatiles, Semi-volatiles, Trace Metals analysis, a Reactivity, Corrosivity, and ignitability characterization.

Thank-you in advance for you quick response in this matter. If you have questions or need more information please contact me anytime at 505-632-4077.

Sincerely;

Barry G. Holman
Manager of Safety and Environment
Giant Industries, Transportation Department
5764 US Hwy. 64
Farmington, NM. 87401

Is your RETURN ADDRESS completed on the reverse side?

SENDER:

- Complete items 1 and/or 2 for additional services.
- Complete items 3, 4a, and 4b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write *"Return Receipt Requested"* on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

1. ☐ Addressee's Address
2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

Mr. Melvin Cantow Jr.
Navajo Nation EPA
Groundwater Pollution Control
P.O. Box 1979
Shiprock, NM 87420

4a. Article Number
P 216 316 484

4b. Service Type
☐ Registered ☑ Certified
☐ Express Mail ☐ Insured
☐ Return Receipt for Merchandise ☐ COD

7. Date of Delivery
AUG 05 1997

SHIPROCK NM
87420

5. Received By: *(Print Name)*
Charlene F. Manuelito

6. Signature: *(Addressee or Agent)*
X

8. Addressee's Address *(Only if requested and fee is paid)*

PS Form **3811**, December 1994

Domestic Return Receipt

Thank you for using Return Receipt Service.

UNITED STATES POSTAL SERVICE

First-Class Mail
Postage & Fees Paid
USPS
Permit No. G-10

• Print your name, address, and ZIP Code in this box •

Barry G. Holman
Giant Transportation
5764 US Hwy 64
Farmington, NM. 87401

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

SUSPECTED HAZARDOUS WASTE ANALYSIS

Client:	Giant Industries	Project #:	97059
Sample ID:	Spill & Leaks Cleanup	Date Reported:	07-22-97
Lab ID#:	B676	Date Sampled:	07-17-97
Sample Matrix:	Soil	Date Received:	07-17-97
Preservative:	Cool	Date Analyzed:	07-21-97
Condition:	Cool & Intact	Chain of Custody:	5315

Parameter	Result	
IGNITABILITY:	**Negative**	
CORROSIVITY:	**Negative**	**pH = 6.76**
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: **Aneth Utah Station, Montezuma Creek, UT.**

Analyst

Review

5796 U.S. Highway 64-3014 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

ENVIROTECH LABS
PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS

Client:	Giant Industries	Project #:	97059
Sample ID:	Spill & Leaks Cleanup	Date Reported:	07-24-97
Laboratory Number:	B676	Date Sampled:	07-17-97
Chain of Custody:	5315	Date Received:	07-17-97
Sample Matrix:	Soil	Date Extracted:	07-21-97
Preservative:	Cool	Date Analyzed:	07-23-97
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	101%

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: **Aneth Utah Station, Montezuma Creek, UT.**

Analyst

Review

5796 U.S. Highway 64-3014 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8040
PHENOLS

Client:	Giant Industries	Project #:	97059
Sample ID:	Spills & Leaks Cleanup	Date Reported:	07-25-97
Laboratory Number:	B676	Date Sampled:	07-17-97
Chain of Custody:	5315	Date Received:	07-17-97
Sample Matrix:	Soil	Date Extracted:	07-21-97
Preservative:	Cool	Date Analyzed:	07-24-97
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	100%
	2,4,6-Tribromophenol	97%

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. 19

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

Comments: **Aneth Utah Station, Montezuma Creek, UT.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	Giant Industries	Project #:	97059
Sample ID:	Spills & Leaks Cleanup	Date Reported:	07-24-97
Laboratory Number:	B676	Date Sampled:	07-17-97
Chain of Custody:	5315	Date Received:	07-17-97
Sample Matrix:	Soil	Date Extracted:	07-21-97
Preservative:	Cool	Date Analyzed:	07-24-97
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: **Aneth Utah Station,Montezuma Creek, UT.**

Analyst

Review

625

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	Giant Industries	Project #:	97059
Sample ID:	Spill & Leaks Cleanup	Date Reported:	07-25-97
Laboratory Number:	B676	Date Sampled:	07-17-97
Chain of Custody:	5315	Date Received:	07-17-97
Sample Matrix:	Soil	Date Analyzed:	07-25-97
Preservative:	Cool	Date Extracted:	07-21-97
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
Arsenic	**ND**	**0.001**	**5.00**
Barium	**3.03**	**0.01**	**100**
Cadmium	**0.003**	**0.001**	**1.00**
Chromium	**ND**	**0.001**	**5.00**
Lead	**0.007**	**0.001**	**5.00**
Mercury	**ND**	**0.001**	**0.200**
Selenium	**ND**	**0.001**	**1.00**
Silver	**ND**	**0.001**	**5.0**

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

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

Comments: **Aneth Utah Station, Montezuma Creek, UT.**

Analyst

Stacy W Sendler
Review

5796 U.S. Highway 64-3014 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

QUALITY ASSURANCE / QUALITY CONTROL

DOCUMENTATION

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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:	Laboratory Blank	Date Reported:	07-24-97
Laboratory Number:	07-23-TCV.BLANK	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	07-23-97
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	101%

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 B675, B676, B686 and B690.**

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:	Method Blank	Date Reported:	07-24-97
Laboratory Number:	07-21-TCV.MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	07-23-97
Condition:	N/A	Date Extracted:	07-21-97
		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	102%

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 B675, B676, B686 and B690.**

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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 Duplicate	Date Reported:	07-24-97
Laboratory Number:	B676	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	07-23-97
Condition:	N/A	Date Extracted:	07-21-97

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 B675, B676, B686 and B690.**

Dawn L. Ogden
Analyst

Stacy W Sendler
Review

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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:	07-24-97
Laboratory Number:	B676	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	07-23-97
Condition:	N/A	Date Extracted:	07-21-97

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	0.0452	0.0001	90%	28-163
1,1-Dichloroethene	ND	0.050	0.0466	0.0001	93%	43-143
2-Butanone (MEK)	ND	0.050	0.0498	0.0001	100%	47-132
Chloroform	ND	0.050	0.0477	0.0001	95%	49-133
Carbon Tetrachloride	ND	0.050	0.0491	0.0001	98%	43-143
Benzene	ND	0.050	0.0489	0.0001	98%	39-150
1,2-Dichloroethane	ND	0.050	0.0482	0.0001	96%	51-147
Trichloroethene	ND	0.050	0.0485	0.0003	97%	35-146
Tetrachloroethene	ND	0.050	0.0489	0.0005	98%	26-162
Chlorobenzene	ND	0.050	0.0483	0.0003	97%	38-150
1,4-Dichlorobenzene	ND	0.050	0.0484	0.0002	97%	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 B675, B676, B686 and B690.**

Analyst

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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:	07-25-97
Laboratory Number:	07-24-TCA.BLANK	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	07-24-97
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	100 %
	2,4,6-tribromophenol	100 %

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. 19

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

Comments: **QA/QC for samples B675, B676, B686 and B690.**

Analyst

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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:	07-25-97
Laboratory Number:	07-21-TCA.MB	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	Cool	Date Extracted:	07-21-97
Condition:	Cool & Intact	Date Analyzed:	07-24-97
		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	99%
	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. 19

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

Comments: **QA/QC for samples B675, B676, B686 and B690.**

Analyst

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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:	07-25-97
Laboratory Number:	B676	Date Sampled:	N/A
Sample Matrix:	Liquid	Date Received:	N/A
Preservative:	Cool	Date Extracted:	07-21-97
Condition:	Cool & Intact	Date Analyzed:	07-24-97
		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 B675, B676, B686 and B690.**

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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:	07-24-97
Laboratory Number:	07-24-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:	07-24-97
		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 B675, B676, B686 and B690.**

Analyst

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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:	07-24-97
Laboratory Number:	07-21-TBN.MB	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	Cool	Date Extracted:	07-21-97
Condition:	Cool and Intact	Date Analyzed:	07-24-97
		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 sample B675, B676, B686 and B690.**

Analyst

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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:	07-24-97
Laboratory Number:	B676	Date Sampled:	N/A
Sample Matrix:	Liquid	Date Received:	N/A
Preservative:	N/A	Date Extracted:	N/A
Condition:	N/A	Date Analyzed:	07-24-97
		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 B675, B676, B686 and B690.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Blanks	Date Reported:	07-25-97
Laboratory Number:	N/A	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	07-25-97
Condition:	N/A	Date Extracted:	N/A

Parameter	Instrument Blank (mg/L)	Method Blank (mg/L)	Det. Limit (mg/L)
Arsenic	**ND**	**ND**	**0.001**
Barium	**ND**	**ND**	**0.01**
Cadmium	**ND**	**ND**	**0.001**
Chromium	**ND**	**ND**	**0.001**
Lead	**ND**	**ND**	**0.001**
Mercury	**ND**	**ND**	**0.001**
Selenium	**ND**	**ND**	**0.001**
Silver	**ND**	**ND**	**0.001**

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

Comments: **QA/QC for samples B675, B676, B680, B690 and B697.**

Analyst

Review

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ENVIROTECH LABS
PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	07-25-97
Laboratory Number:	B676	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	07-25-97
Condition:	N/A	Date Extracted:	07-21-97

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Percent Difference
Arsenic	**ND**	**ND**	**0.0%**
Barium	**3.03**	**3.04**	**0.3%**
Cadmium	**0.003**	**0.003**	**0.0%**
Chromium	**ND**	**ND**	**0.0%**
Lead	**0.007**	**0.007**	**0.0%**
Mercury	**ND**	**ND**	**0.0%**
Selenium	**ND**	**ND**	**0.0%**
Silver	**ND**	**ND**	**0.0%**

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Maximum Difference
	Trace Metals	**30 %**

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

Comments: **QA/QC for samples B675, B676, B680, B690 and B697.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Spike	Date Reported:	07-25-97
Laboratory Number:	B676	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	07-25-97
Condition:	N/A	Date Extracted:	07-21-97

Parameter	Spike Added (mg/L)	Sample Result (mg/L)	Spiked Sample Result (mg/L)	Percent Recovery
Arsenic	**0.100**	**ND**	**0.100**	**100%**
Barium	**1.00**	**3.03**	**4.04**	**100%**
Cadmium	**0.050**	**0.003**	**0.053**	**100%**
Chromium	**0.050**	**ND**	**0.050**	**100%**
Lead	**0.100**	**0.007**	**0.107**	**100%**
Mercury	**0.025**	**ND**	**0.025**	**100%**
Selenium	**0.100**	**ND**	**0.099**	**99%**
Silver	**0.050**	**ND**	**0.049**	**98%**

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Acceptance Range %
	TCLP Metals	**80 - 120 %**

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

Comments: **QA/QC for samples B675, B676, B680, B690 and B697.**

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CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location	ANALYSIS/PARAMETERS
GIANT INDUSTRIES	ANETH UTAH STATION Montezuma Creek UT.	
Sampler: (Signature) x [signature]	Chain of Custody Tape No. ~~96012~~ 97059	

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TCLP w/H&P						Remarks
Spills & Leaks Cleanup	7.17.92	13:00	B676	Soil	1	✓						

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
x [signature]	7-17-92	4:45pm	Christine Walter	7-17-92	4:45
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

ENVIROTECH INC.
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Roger

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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

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District Offi

Env JN: 96033-

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator EPNG.
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Window Rock Station
2. Management Facility Destination Envirotech Soil Remediation Fac Landfarm #2	6. Transporter Envirotech
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State Arizona.
7. Location of Material (Street Address or ULSTR)	W2/NE4, Sec 34, T26N, R30E, G&SRM Apache County, Arizona

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 generated during clean-up of misc. Compressor spills & leaks at the Window Rock Compressor station ± 7 miles south of Window Rock off of Navajo Hwy 12.

TCLP & Copy of workplan allowed to NNEPA attached.

Hold For Agency (Navajo) Signed Approval MJK 8/7/97

RECEIVED AUG - 5 1997 OIL CON. DIV. DIST. 3

RECEIVED SEP - 8 1997 OIL CON. DIV. DIST. 3

Estimated Volume 60 cy Known Volume (to be entered by the operator at the end of the haul) 117 cy

SIGNATURE: Harlan M. Brown (Waste Management Facility/Authorized Agent) TITLE: Landfarm Manager DATE: 8-5-97

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. (505)632-0615

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 9/5/97

APPROVED BY: Matthew J. Kelly TITLE: Env. Geologist DATE: 9/5/97

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
1000 Rio Brazos Road
Aztec, 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: 96033-

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator EPNG.
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Window Rock Station
2. Management Facility Destination Envirotech Soil RemediationFac Landfarm #2	6. Transporter ENVIROTECH
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State ARIZONA.
7. Location of Material (Street Address or ULSTR)	W2/NE4, Sec 34, T26N, R30E, G&SRM Apache County Arizona

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 generated during clean-up of misc. Compressor spills & Leaks at the Window Rock Compressor Station and ± 7 miles south of Window Rock off of Navajo Hwy 12.

TCLP & Copy of workplan addressed to NNEPA ATTACHED.

RECEIVED
AUG - 5 1997
OIL CON. DIV.
DIST. 3

Estimated Volume 60 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: 8-5-97
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. Foust TITLE: Geologist DATE: 8/5/97

APPROVED BY: _____ TITLE: _____ DATE: _____

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
El Paso Natural Gas Company Window Rock Compressor Station P. O. Box 1492 El Paso, TX 79978	Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico

3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
Window Rock Compressor STation W/2, NE/4, Sec. 34, T-26-N, R-30-E, G&SRM Apache County, AZ	Approx. 7 miles SW of Window Rock, AZ

Attach list of originating sites as appropriate

4. Source and Description of Waste

Used oil stained soil and gravel.
Used oil came from natural gas compressors.

I, Richard Duarte, Sr. Compliance Engr. representative for:
(Print Name)
El Paso Natural Gas 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 only the following documentation is attached (check appropriate items):

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

Name (Original Signature): Richard Duarte

Title: Sr. Compliance Engr.

Date: August 1, 1997

THE
NAVAJO
NATION

P.O. BOX 9000 • WINDOW ROCK, ARIZONA 86515 • (520) 871-6000

ALBERT A. HALE
PRESIDENT

THOMAS E. ATCITTY
VICE PRESIDENT

September 2, 1997

RECEIVED
SEP - 3 1997
OIL CON. DIV.
DIST. 3

Richard Duarte, Sr. Environmental Engineer
EL PASO NATURAL GAS COMPANY
3801 Atrisco Blvd., N.W.
Albuquerque, New Mexico 87120

Mr. Duarte:

The Navajo Nation Environmental Protection Agency (NNEPA) is granting approval to the generator, *El Paso Natural Gas Company - Window Rock Station, Window Rock, Arizona, and Dilkon Compressor Station, Dilkon, Arizona*, to have the contaminated soil disposed of at Envirotech's soil remediation site for land farming under the following conditions:

1. Based on the generator's analytical results, the contaminated soil does not meet the Resource Conservation & Recovery Act (RCRA) regulatory limits for hazardous waste. However, NNEPA does not certify the contaminated soil exempt from RCRA. The generator remains responsible for this certification and shall provide Envirotech with the proper soil sample results revealing that the contaminated soil is non hazardous.
2. NNEPA does not certify the transportation of the contaminated soil removed off the lands of the Navajo Nation to the ultimate destination for proper disposal. The generator remains responsible for this certification.
3. The generator shall provide NNEPA with the following documentation within 90 days after the disposal of the contaminated soil:

    a. A copy of the generators certification indicating the status of the contaminated soil;
    b. A copy of the transporter(s) certification to ensure that the contaminated soil was delivered to the disposal site without any discrepancies; and
    c. A copy of the disposal certification granting receipt of the contaminated soil by the the facility authorized to accept exempt RCRA waste.

The generator shall adhere to the above stipulations setforth by NNEPA. If you have any questions, please contact my staff Debbie McBride, Environmental Specialist, at (520) 871-7995.

Sincerely,

Bennie Cohoe

Bennie Cohoe, EPA
Executive Director

cc: Debbie McBride, Environmental Specialist, NNEPA
file/EPNG/WR

Post-it™ brand fax transmittal memo 7671	# of pages ▸ 1
To Harlan Brown	From Debbie McBride
Co. Envirotech	Co. Navajo EPA
Dept.	Phone # 871-7995
Fax # 505-632-1865	Fax # 871-7599

EL PASO NATURAL GAS

FACSIMLIE &
CERTIFIED MAIL/RETURN RECEIPT
P - 591 541 746

July 21, 1997

Wilson Laughter, Environmental Engineer
Navajo EPA
P. O. Box 529
Fort Defiance, AZ 86504

Re: Work Plan for Oily Dirt Remediation at El Paso Natural Gas Company's (El Paso's) Window Rock and Dilkon Stations.

Dear Mr. Laughter:

Per your request, enclosed is the subject work plan. I believe the plan is comprehensive and answers all the questions you had originally posed to me about the project. Nonetheless, if you need more details about this remediation project or have any related questions, please feel free to contact me at 505/831-7763,

Very truly yours,

Richard Duarte
Sr. Compliance Engineer
Compliance Services.

enclosure: work plan

copy: David Kelly, Jr., Manager
Navajo EPA
P. O. Box 529
Fort Defiance, AZ 86504

Work Plan for Disposal of Oily Dirt
at El Paso Natural Gas Company's
Window Rock & Dilkon Compressor Stations
July 1997

1.0 Objective.

El Paso Natural Company (EPNG) is planning to remediate dirt that has be stained by used oil and dispose it at Envirotech's Landfarm facility near Bloomfield, NM. The two facilities targeted for remediation are owned and operated by EPNG. They are: Window Rock and Dilkon Compressor Stations.

2.0 Location.

Window Rock Compressor Station. T-26-N, R-30-E, G&SRM, Section 34, Apache County, Arizona. Approximately 5 miles west of the Town of Window Rock, AZ, and ½ mile west of Navajo Route No. 12.

Dilkon Compressor Station. Portion of E ½ Section 17, portion of W ½ Section 16, T-23-N, R-19-E & S. R. M., 1 Navajo County, Arizona. Approximately 1¼-mile North of the town of Dilkon, Arizona.

3.0 Remediation.

Window Rock Station. EPNG has contracted with Envirotech to provide the materials and labor to dig and transport the oily dirt to its landfarm. Cleanup is comprised of various oil spill locations along the footing/foundation of the compressor buildings at Window Rock. The analytical results from the targeted remediation areas show there no regulated hazardous constituents contained in the soil; and, therefore no hazardous waste. Through Envirotech, EPNG is proposing to remediate the oily dirt to the point where oil-staining in the dirt is no longer visible. It is estimated that approximately 10 to 15 cubic yards of soil may be generated at this location.

Dilkon Station. EPNG has contracted with Envirotech to transport and dispose of the oily dirt generated from various spills. It is estimated that 3 or 4 drums may be generated at this location.

4.0 Soil Disposal.

All oily dirt generated from this remediation project will be disposed at Envirotech's Soil Treatment Facility (Landfarm) near Bloomfield, NM. This facility is an approved disposal site by the New Mexico Oil Conservation Division.

UNITED STATES POSTAL SERVICE

First-Class Mail
Postage & Fees Paid
USPS
Permit No. G-10

• Print your name, address, and ZIP Code in this box •

R Duarte

EL PASO NATURAL GAS COMPANY
3801 ATRISCO N.W.
ALBUQUERQUE, NM 87120

37

Is your RETURN ADDRESS completed on the reverse side?

SENDER:

- Complete items 1 and/or 2 for additional services.
- Complete items 3, 4a, and 4b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write *"Return Receipt Requested"* on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

1. ☐ Addressee's Address
2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

WILSON LAUGHTER, ENVIRONMENTAL MGR.
NAVAJO EPA
PO Box 529
FORT DEFIANCE, AZ 86504

4a. Article Number

P 591 541 746

4b. Service Type

☐ Registered ☒ Certified
☐ Express Mail ☐ Insured
☒ Return Receipt for Merchandise ☐ COD

7. Date of Delivery

FORT DEFIANCE AZ 86504 JUL 24 1997 USPS

5. Received By: *(Print Name)*

MARJORIE NELSON

6. Signature: *(Addressee or Agent)*

X Marjorie Nelson

8. Addressee's Address *(Only if requested and fee is paid)*

PS Form 3811, December 1994

Domestic Return Receipt

Thank you for using Return Receipt Service.

SAMPLE KEY

SAMPLE NUMBER: F97-0087 LOCATION: WINDOW ROCK STATION
MATRIX: SOIL
SAMPLE DESCRIPTION: OIL SPILL BEHIND A COMPRESSOR
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 08:45 SAMPLE DATE: 06/19/97

PARAGON ANALYTICS, INC.
225 Commerce Drive ◆ Fort Collins, CO 80524 ◆ (800) 443-1511 ◆ (970) 490-1511 ◆ FAX (970) 490-1522

July 21, 1997

Mr. Darrell Campbell
El Paso Natural Gas CO.
8645 Railroad Drive
El Paso, TX 79904

RE: Paragon Workorder: 97-06-201
Client Project Name: F97-0087
Client Project Number: Not Submitted

Dear Mr. Campbell:

Two soil samples were received from El Paso Natural Gas Co. on June 20, 1997. The samples were scheduled for TCLP Metals, Ignitability, GC/MS Volatiles GC/MS Semivolatiles, pH, and Reactive Cyanide & Sulfide analysis. The results for these analyses are contained in the enclosed report.

Thank you for your confidence in Paragon Analytics, Inc. Should you have any questions, please call.

Sincerely,

Paragon Analytics, Inc.
Victoria Bayly
Project Manager

VB/jjc
Enclosure: report

Amended COC

El Paso Natural Gas Company

CHAIN OF CUSTODY RECORD

97-06-201

Page 1 of 1

PROJECT NUMBER:

PROJECT NAME: Gallup Complex

SAMPLERS: (Signature) Charles R. Padilla

DATE:

CONTRACT LABORATORY P. O. NUMBER: PARAGON ANALYTICS FORT COLLINS, CO.

LAB ID	DATE	TIME	MATRIX	SAMPLE NUMBER	TOTAL NUMBER OF CONTAINERS	COMPOSITE OR GRAB	TCLP 8270	TCLP 8240	TCLP METALS (8)	Corrosivity	Ignitability	Reactivity	REMARKS
-01	6-19-97	0845	SOIL	F970087 -01	2	C	✓	✓	✓	✓	✓	✓	1 bottle headspace free - See bottle label
-02	6-19-97	1300	SOIL	F970058 -02	2	C	✓	✓	✓	✓	✓	✓	" " " "

COC recvd 7/7/97 - Samples recv

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
Charles R. Padilla	7-1-97 0845	S. Bailey 6/20/97 0930			6/20/ B
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED OF LABORATORY BY: (Signature)

REQUESTED TURNAROUND TIME:
☐ ROUTINE ☐ RUSH

CARRIER CO.

BILL NO.:

SAMPLE RECEIPT REMARKS

CHARGE CODE

RESULTS & INVOICES TO:

TRANSMISSION OPERATIONS LABORATORY
EL PASO NATURAL GAS COMPANY
8645 RAILROAD DRIVE
EL PASO, TEXAS 79904

915-759-2229 FAX: 915-759-2335

White - Testing Laboratory Canary - EPNG Lab Pink - Field Sampler

FM-08-0566 (Rev 5-9

Paragon Analytics, Inc. - Fort Collins, Colorado

CONDITION OF SAMPLE UPON RECEIPT

CLIENT: EPNG SHIPPING CONTAINER #: Cooler

WORKORDER NO. 97-06-201 INITIALS: B DATE: 6/20/97

1. Does this project require special handling according to NEESA, Level 3, or CLP protocols? If yes, complete a. and b. a. Cooler Temperature_____ b. Lot No's._____ c. Airbill Number_____		Yes	No
2. Are custody seals on the cooler intact? If so, how many_____	N/A	Yes	No
3. Are custody seals on sample containers intact?	N/A	Yes	No
4. Is there a Chain of Custody (COC) or other representative documents, letters or shipping memos?		Yes	No
5. Is the COC complete? Relinquished: Yes ✓ No___ Requested Analysis: Yes ✓ No	N/A	Yes	No
6. Is the COC in agreement with the samples received? No. of Samples: Yes ✓ No___ Sample ID's: Yes ✓ No___ Matrix: Yes ✓ No___ No. of Containers: Yes ✓ No___		Yes	No
7. Are the samples requiring acid preservation preserved correctly?	N/A	Yes	No
8. Is there enough sample? If so, are they in the proper containers?		Yes	No
9. Are all samples within holding times for the requested analyses?		Yes	No
10. Were the sample received on ice?	N/A	Yes	No
11. Were all sample containers received intact? (not broken or leaking, etc.)		Yes	No
12. Are samples requiring no headspace, headspace free?	N/A	Yes	No
13. Do the samples require quarantine?		Yes	No
14. Do samples require Paragon disposal?		Yes	No
15. Did the client return any unused bottles?		Yes	No

Describe "NO" items (except No's 1, 13, &14):_____

Was the client contacted? Yes____ No____

If yes, Date:_____ Name of person contacted:_____

Describe actions taken or client instructions:_____

Group Leader's Signature:_____ Date:_____

Cooler Temperature: 5°C

FRM 201FC6 (24/1/97)

Paragon Analytics, Inc.

TCLP METALS CASE NARRATIVE

El Paso Natural Gas Co.

Gallup Complex -- F97-0087

Order Number - 9706201

1. This report consists of 2 TCLP samples.
2. The samples were received cool and intact on 06/20/97.
3. The samples were prepared for analysis based on SW-846, 3rd Edition procedures.

   The samples were processed through the TCLP leaching procedure based on method 1311. The leachates were then digested at a 10 fold dilution as follows.

   For analysis by Trace ICP the were digested following method 3010A.

   For analysis by Cold Vapor AA (CVAA) the leachates were digested following method 7470.
4. The leachates were analyzed following SW846 protocols by Trace ICP (Method 6010A) and CVAA (Method 7470). The analysis of silver was done by Trace ICP.
5. All standards and solutions are NIST traceable and were used within their recommended shelf life.
6. The samples were prepared and analyzed within the established hold times.
7. Sample results which are below PAI's standard reporting limits are reported as "ND" on the enclosed report.

All in house quality control procedures were followed, as described below.

8. General quality control procedures.
   - A preparation (method) blank and laboratory control sample were digested and analyzed with the samples in this digestion batch. There were not more than 20 samples in the digestion batch.
   - The preparation (method) blank results associated with this batch were below the reporting limits for the requested analyte. This indicates that no contaminants were introduced to the samples during the digestion procedure.

- The laboratory control sample associated with this batch was within acceptance limits. This indicates complete digestion according to the method.
- All initial and continuing calibration blanks associated with this batch were below the reporting limits for the requested analyte. This indicates a valid calibration and stable instrument conditions.
- All initial and continuing calibration verifications associated with this batch were within acceptance criteria for the requested analyte. This indicates a valid calibration and stable instrument conditions.
- The interference check samples, and high standard readbacks associated with Method 6010A analyses were within acceptance criteria.

9. A sample from another Order Number was used as the matrix QC sample for this batch.

   - A matrix spike and matrix spike duplicate were digested and analyzed with each batch. All acceptance criteria for accuracy were met with the exception of chromium.

     The concentration of chromium in the native sample was greater than 4 times the concentration of matrix spike added during the digestion. When sample concentration is that much greater than the spike added, spike recoveries may not be accurate. The Laboratory Control Sample is included to show that the digestion and analysis were in control.
   - A sample duplicate and spike duplicate were digested and analyzed with each batch. All acceptance criteria for precision were met.
   - A serial dilution was analyzed with each batch. All acceptance criteria were met.

The data contained in the following report have been reviewed and approved by the personnel listed below:

Kim Hamacher — 7/8/97
Kim Hamacher, Senior Inorganic Chemist — Date

SW — 7/8/97
Reviewer's Initials — Date

CERTIFICATION

Paragon Analytics, Inc. certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed.

Paragon Analytics, Inc.

SAMPLE NUMBER(S) CROSS-REFERENCE TABLE

Client Name: El Paso Natural Gas Co.

Client Project ID: Gallup Complex F97-0087

PAI-ID	Client ID	MATRIX	DATE SAMPLED
9706201-1	F97-0087	Soil	06/19/97
9706201-2	F97-0058	Soil	06/19/97

TCLP METALS

Lab Name: Paragon Analytics, Inc.
Client Name: El Paso Natural Gas Co.
Client Project ID: Gallup Comples -- F97-0057
Lab Sample ID: RB 9706201

Sample Matrix: TCLP Leachate

Sample ID

TCLP Blank

Date Collected: N/A
Prep Date: 06/24/97
Date Analyzed: 06/24/97

EPA HW Number	CAS Number	Analyte	Concentration mg/L	Reporting Limit (mg/L)
D004	7440-38-2	Arsenic	ND	0.1
D005	7440-39-3	Barium	ND	1
D006	7440-43-9	Cadmium	ND	0.05
D007	7440-47-3	Chromium	ND	0.1
D008	7439-92-1	Lead	ND	0.03
D009	7439-97-6	Mercury	ND	0.002
D010	7782-49-2	Selenium	ND	0.05
D011	7440-22-4	Silver	ND	0.1

ND = Not detected at or above the reporting limit.

44

TCLP METALS

Lab Name: Paragon Analytics, Inc.
Client Name: El Paso Natural Gas Co.
Client Project ID: Gallup Comples -- F97-0057
Lab Sample ID: 9706201-1

Sample Matrix: TCLP Leachate

Sample ID

F97-0087

Date Collected: 06/19/97
Prep Date: 06/24/97
Date Analyzed: 06/24/97

EPA HW Number	CAS Number	Analyte	Concentration mg/L	Reporting Limit (mg/L)
D004	7440-38-2	Arsenic	ND	0.1
D005	7440-39-3	Barium	1	1
D006	7440-43-9	Cadmium	ND	0.05
D007	7440-47-3	Chromium	ND	0.1
D008	7439-92-1	Lead	0.04	0.03
D009	7439-97-6	Mercury	ND	0.002
D010	7782-49-2	Selenium	ND	0.05
D011	7440-22-4	Silver	ND	0.1

ND = Not detected at or above the reporting limit.

44

TCLP METALS

Lab Name: Paragon Analytics, Inc.
Client Name: El Paso Natural Gas Co.
Client Project ID: Gallup Comples -- F97-0057
Lab Sample ID: 9706201-2

Sample Matrix: TCLP Leachate

Sample ID

F97-0058

Date Collected: 06/19/97
Prep Date: 06/24/97
Date Analyzed: 06/24/97

EPA HW Number	CAS Number	Analyte	Concentration mg/L	Reporting Limit (mg/L)
D004	7440-38-2	Arsenic	ND	0.1
D005	7440-39-3	Barium	2	1
D006	7440-43-9	Cadmium	ND	0.05
D007	7440-47-3	Chromium	ND	0.1
D008	7439-92-1	Lead	ND	0.03
D009	7439-97-6	Mercury	ND	0.002
D010	7782-49-2	Selenium	ND	0.05
D011	7440-22-4	Silver	ND	0.1

ND = Not detected at or above the reporting limit.

TCLP METALS
MATRIX SPIKE

Sample ID

In House

Lab Name: Paragon Analytics, Inc.
Client Name: El Paso Natural Gas Co.
Lab Sample ID: 9706193-1

Prep Date: 06/24/97
Date Analyzed: 06/24/97

Sample Matrix: TCLP Leachate

Analyte	Spike Added mg/L	Sample Conc. mg/L	MS Conc. mg/L	% Rec (limits 80-120%)	Flags
Arsenic	20.0	< 0.1	20.7	104	
Barium	20	< 1	19	95	
Cadmium	0.50	0.05	0.55	100	
Chromium	2.0	10.0	12.0	100	See note
Lead	5.00	0.05	5.03	100	
Mercury	0.020	< 0.002	0.020	100	
Selenium	20.0	0.09	20.7	103	
Silver	2.0	< 0.1	2.0	100	

Analyte	MSD Conc. mg/L	MSD % Rec (limits 80-120%)	Relative % Difference (limits 0-20%)	Flags
Arsenic	20.9	105	1	
Barium	19	95	0	
Cadmium	0.56	102	2	
Chromium	12.0	100	0	See note
Lead	5.10	101	1	
Mercury	0.020	100	0	
Selenium	20.7	103	0	
Silver	2.0	100	0	

Sample results shown on spike page(s) may differ slightly from results on sample page(s).
Where sample concentration is sufficiently high, three significant figures are used to determine spike recoveries and relative percent difference.
Note: Due to the large concentration of analyte in the sample, matrix spike recoveries may not be accurate. The Laboratory Control Sample (LCS) is included on a separate page to show that the digestion and analysis were in control.

4

TCLP METALS
LABORATORY CONTROL SAMPLE

Lab Name: Paragon Analytics, Inc.
Client Name: El Paso Natural Gas Co.
Client Project ID: Gallup Comples -- F97-0057
Order Number: 9706201 Date Analyzed: 06/24/97

Analyte	LCS Result mg/L	LCS True Value mg/L	LCS % Recovery	Limits
Chromium	2.1	2.0	105	80 - 120%

PARAGON ANALYTICS, INC.

QUALITY ASSURANCE DATA REVIEW

Date: 06/24/97

PAI Workorder: 97-06-201 Analysis: 1010

The data contained in the following report have been reviewed and approved by the personnel listed below:

Wesley S. Mayfield

Wesley S. Mayfield
Senior Technician

CERTIFICATION

Paragon Analytics, Inc. certifies that the analyses reported herein are true, complete, and correct within the limits of the methods employed

A case narrative ____ is X is not included with this report.

IGNITABILITY

Method 1010

Lab Name: Paragon Analytics, Inc.
Client Name: El Paso Natural Gas Co.
Client Project ID: Gallup Complex F97-0087
Lab Workorder Number: 97-06-201

Date Collected: 06/19/97
Date Analyzed: 06/24/97
Sample Matrix: Soil

Sample ID	Lab Sample ID	Ignitable At (degree C)	Non-Ignitable Below (degree C)
F97-0087	97-06-201-01		96.5
F97-0058	97-06-201-02		96.5

Paragon Analytics, Inc.

GC/MS Volatiles Case Narrative

El Paso Natural Gas Co.

Gallup Complex/F97-0087

Order Number - 9706201

1. This report consists of 2 soil samples received by Paragon on June 20, 1997.

2. These samples were prepared and analyzed according to SW-846, 3rd Edition procedures. Specifically, the sample was leached using the TCLP ZHE extraction procedure specified in Method 1311. The TCLP leachate was then analyzed by purging the sample using purge and trap procedures based on Method 5030.

3. The samples were analyzed using GC/MS with a RTX-624 capillary column according to protocols based on SW-846 Method 8260. All positive results were quantitated with the average response of the initial calibration standards using the internal standard technique. The identification of positive results was achieved by a comparison of the retention time and mass spectrum of the sample versus the daily calibration standard.

4. All samples were analyzed within the established holding times.

5. The method blank associated with this project was below the reporting limits for all analytes.

6. All matrix spike criteria were met with the following exceptions:

   Spike Compound
   Methyl ethyl keytone

   The recoveries of this compound in the blank spike and blank spike duplicate were within control limits, which demonstrated the spike outlier in the matrix spike was due to matrix effects, so no further action is needed. Blank spike and blank spike duplicate results are included.

7. All blank spike and blank spike duplicate recoveries and RPDs were within the acceptance criteria.

8. All surrogate recoveries were within acceptance criteria.

9. All internal standard recoveries were within acceptance criteria.

10. All initial and continuing calibration criteria were within acceptance criteria. Method 8260 states any compound exceeding 15% RSD is to be quantitated with a higher order curve. Several compounds from the curve were within the acceptance limit but exceeded the 15% RSD criteria and should be analyzed with a higher curve such as quadratic. We quantitated these compounds using the average response factor due to a software programming problem associated with Hewlett-Packard MSDs. The manufacturer is now aware of the problem and is working on a solution.

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, Paragon Analytics, Inc. certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed.

G. Brook — 6-29-97

Gary R. Brook — Date
GC/MS Manager

Reviewer's Initials — 6-25-97 Date

TCLP VOLATILE ORGANICS
Method 8260

Sample ID
TCLP Reagent Blank

Lab Name: Paragon Analytics, Inc.
Client Name: El Paso Natural Gas Co.
Client Project ID: Gallup Complex/F97-0087
Lab Sample ID: TCLPRB1 06-23-97

Date Collected: N/A
Date Extracted: 06-23-97
Date Analyzed: 06-24-97

Sample Matrix: TCLP Leachate
Sample Volume: 1.0 mL

EPA HW Number	Analyte	CAS Number	Result (mg/L)	Reporting Limit (mg/L)
D043	Vinyl chloride	75-01-4	ND	0.05
D029	1,1-Dichloroethene	75-35-4	ND	0.05
D022	Chloroform	67-66-3	ND	0.05
D028	1,2-Dichloroethane	107-06-2	ND	0.05
D035	Methyl ethyl ketone	78-93-3	ND	0.05
D019	Carbon tetrachloride	56-23-5	ND	0.05
D040	Trichloroethene	79-01-6	ND	0.05
D018	Benzene	71-43-2	ND	0.05
D039	Tetrachloroethene	127-18-4	ND	0.05
D021	Chlorobenzene	108-90-7	ND	0.05

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
Dibromofluoromethane	102	86 - 118
Toluene-d8	103	88 - 110
Bromofluorobenzene	99	86 - 115

ND = Not Detected

TCLP VOLATILE ORGANICS
Method 8260

Sample ID

Reagent Blank

Lab Name: Paragon Analytics, Inc.
Client Name: El Paso Natural Gas Co.
Client Project ID: Gallup Complex/F97-0087
Lab Sample ID: VBLK03 06-24-97

Date Collected: N/A
Date Extracted: N/A
Date Analyzed: 06-24-97

Sample Matrix: Water
Sample Volume: 5 mL

EPA HW Number	Analyte	CAS Number	Result (mg/L)	Reporting Limit (mg/L)
D043	Vinyl chloride	75-01-4	ND	0.01
D029	1,1-Dichloroethene	75-35-4	ND	0.01
D022	Chloroform	67-66-3	ND	0.01
D028	1,2-Dichloroethane	107-06-2	ND	0.01
D035	Methyl ethyl ketone	78-93-3	ND	0.01
D019	Carbon tetrachloride	56-23-5	ND	0.01
D040	Trichloroethene	79-01-6	ND	0.01
D018	Benzene	71-43-2	ND	0.01
D039	Tetrachloroethene	127-18-4	ND	0.01
D021	Chlorobenzene	108-90-7	ND	0.01

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
Dibromofluoromethane	96	86 - 118
Toluene-d8	104	88 - 110
Bromofluorobenzene	101	86 - 115

ND = Not Detected

TCLP VOLATILE ORGANICS

Method 8260

Sample ID

F97-0087

Lab Name: Paragon Analytics, Inc.
Client Name: El Paso Natural Gas Co.
Client Project ID: Gallup Complex/F97-0087
Lab Sample ID: 9706201-1DL5

Date Collected: 06-19-97
Date Extracted: 06-23-97
Date Analyzed: 06-24-97

Sample Matrix: TCLP Leachate
Sample Volume: 1.0 mL

EPA HW Number	Analyte	CAS Number	Result (mg/L)	Reporting Limit (mg/L)
D043	Vinyl chloride	75-01-4	ND	0.05
D029	1,1-Dichloroethene	75-35-4	ND	0.05
D022	Chloroform	67-66-3	ND	0.05
D028	1,2-Dichloroethane	107-06-2	ND	0.05
D035	Methyl ethyl ketone	78-93-3	ND	0.05
D019	Carbon tetrachloride	56-23-5	ND	0.05
D040	Trichloroethene	79-01-6	ND	0.05
D018	Benzene	71-43-2	ND	0.05
D039	Tetrachloroethene	127-18-4	ND	0.05
D021	Chlorobenzene	108-90-7	ND	0.05

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
Dibromofluoromethane	105	86 - 118
Toluene-d8	96	88 - 110
Bromofluorobenzene	99	86 - 115

ND = Not Detected

TCLP VOLATILE ORGANICS
Method 8260

Sample ID

F97-0058

Lab Name: Paragon Analytics, Inc.
Client Name: El Paso Natural Gas Co.
Client Project ID: Gallup Complex/F97-0087
Lab Sample ID: 9706201-2DL5

Date Collected: 06-19-97
Date Extracted: 06-23-97
Date Analyzed: 06-24-97

Sample Matrix: TCLP Leachate
Sample Volume: 1.0 mL

EPA HW Number	Analyte	CAS Number	Result (mg/L)	Reporting Limit (mg/L)
D043	Vinyl chloride	75-01-4	ND	0.05
D029	1,1-Dichloroethene	75-35-4	ND	0.05
D022	Chloroform	67-66-3	ND	0.05
D028	1,2-Dichloroethane	107-06-2	ND	0.05
D035	Methyl ethyl ketone	78-93-3	ND	0.05
D019	Carbon tetrachloride	56-23-5	ND	0.05
D040	Trichloroethene	79-01-6	ND	0.05
D018	Benzene	71-43-2	ND	0.05
D039	Tetrachloroethene	127-18-4	ND	0.05
D021	Chlorobenzene	108-90-7	ND	0.05

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
Dibromofluoromethane	104	86 - 118
Toluene-d8	102	88 - 110
Bromofluorobenzene	97	86 - 115

ND = Not Detected

TCLP VOLATILE MATRIX SPIKE RECOVERY

Method 8260

Sample ID

In House

Lab Name: Paragon Analytics, Inc.
Client Name: El Paso Natural Gas Co.
Client Project ID: Gallup Complex/F97-0087
Lab Sample ID: 9706193-2DL5MS

Date Collected: 06-18-97
Date Extracted: 06-23-97
Date Analyzed: 06-24-97

Sample Matrix: TCLP Leachate
Sample Volume: 1.0 mL

Analyte	Spike Added (mg/L)	Sample Concentration (mg/L)	MS Concentration (mg/L)	MS % Rec	QC Limit Recovery
Vinyl chloride	0.100	ND	0.090	90	49 - 132
1,1-Dichloroethene	0.100	ND	0.096	96	65 - 126
Chloroform	0.100	ND	0.096	96	68 - 123
1,2-Dichloroethane	0.100	ND	0.103	103	61 - 122
Methyl ethyl ketone	0.100	0.058	0.375	317 *	26 - 156
Carbon tetrachloride	0.100	ND	0.101	101	80 - 113
Trichloroethene	0.100	ND	0.095	95	81 - 108
Benzene	0.100	ND	0.097	97	60 - 129
Tetrachloroethene	0.100	ND	0.100	100	75 - 116
Chlorobenzene	0.100	ND	0.103	103	81 - 107

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
Dibromofluoromethane	101	86 - 118
Toluene-d8	103	88 - 110
Bromofluorobenzene	99	86 - 115

ND = Not Detected
* = Outside limits

TCLP VOLATILE BLANK SPIKE RECOVERY

Method 8260

Lab Name: Paragon Analytics, Inc.
Client Name: El Paso Natural Gas Co.
Client Project ID: Gallup Complex/F97-0087
Lab Sample ID: BS5, 6 06-24-97

Sample Matrix: Water
Sample Volume: 5 mL

Sample ID

Blank Spike

Date Collected: N/A
Date Extracted: 06-23-97
Date Analyzed: 06-24-97

Analyte	Spike Added (mg/L)	Sample Concentration (mg/L)	BS Concentration (mg/L)	BS % Rec	QC Limit Recovery
Vinyl chloride	0.020	N/A	0.020	98	49 - 132
1,1-Dichloroethene	0.020	N/A	0.020	102	65 - 126
Chloroform	0.020	N/A	0.021	107	68 - 123
1,2-Dichloroethane	0.020	N/A	0.021	103	61 - 122
Methyl ethyl ketone	0.020	N/A	0.021	107	26 - 156
Carbon tetrachloride	0.020	N/A	0.021	105	80 - 113
Trichloroethene	0.020	N/A	0.021	104	81 - 108
Benzene	0.020	N/A	0.020	102	60 - 129
Tetrachloroethene	0.020	N/A	0.021	104	75 - 116
Chlorobenzene	0.020	N/A	0.021	106	81 - 107

Compound	Spike Added (µg/L)	BS2 Concentration (µg/L)	BS2 % REC	RPD	QC Limit REC
Vinyl chloride	0.020	0.021	103	5	49-132
1,1-Dichloroethene	0.020	0.019	95	7	65-126
Chloroform	0.020	0.019	96	10	68-130
1,2-Dichloroethene	0.020	0.020	99	4	61-122
Methyl ethyl ketone	0.020	0.021	105	2	26-156
Carbon tetrachloride	0.020	0.020	99	6	80-113
Trichloroethene	0.020	0.020	99	5	81-108
Benzene	0.020	0.019	97	5	60-129
Tetrachloroethene	0.020	0.020	99	5	75-116
Chlorobenzene	0.020	0.020	100	6	81-107

SURROGATE RECOVERIES

Analyte	BS1 % Recovery	BS2 % Recovery	% Rec Limits
Dibromofluoromethane	100	100	86 - 118
Toluene-d8	101	102	88 - 110
Bromofluorobenzene	98	99	86 - 115

N/A = Non Applicable

Paragon Analytics, Inc.

GC/MS Semivolatiles Case Narrative

El Paso Natural Gas Co.

Gallup Complex / F97-0087

Order Number - 9706201

1. This report consists of 2 soil samples received by Paragon on June 20, 1997.

2. These samples were prepared and analyzed according to SW-846, 3rd Edition procedures. Specifically, the soil samples were tumbled by Method 1311. This TCLP leachate was then extracted using continuous liquid-liquid extractors, based on Method 3520.

3. The samples were analyzed using GC/MS with a DB-5.625 capillary column according to protocols based on SW-846 Method 8270B for TCLP compounds only. All positive results were quantitated against the initial calibration standards using the internal standard technique. The identification of positive results was achieved by a comparison of the retention time and mass spectrum of the sample versus the daily calibration standard.

4. All samples were analyzed within the established holding times.

5. The method blank associated with this project was below the reporting limits for all analytes.

6. The matrix spike was performed on an in house sample. All matrix spike recoveries were within control limits.

7. All blank spike and blank spike duplicate recoveries were within the acceptance criteria with the following exceptions:

Spike Compound	Sample	Event
Hexachloroethane	BSD	recovered high

8. All surrogate recoveries were within acceptable limits with the following exceptions:

Sample	Surrogate	Event
1	Terphenyl-D14	recovered high

9. The last two internal standards had raw areas less than 50 % of the continuing calibration standard in the field samples. There are no TCLP compounds which quantitate against these two internal standards. The data was not affected.

10. All initial calibration criteria were within acceptance criteria. Method 8270B states any compound exceeding 15% RSD is to be quantitated with a higher order curve. Several compounds from the curve that was analyzed on June 27, 1997, were within the acceptance limit but exceeded the 15% RSD criteria and should be analyzed with a higher curve such as quadratic. We quantitated these compounds using the average response factor due to a software programming problem associated with Hewlett-Packard MSDs. The manufacturer is now aware of the problem and is working on a solution.

10. All continuing calibration criteria were within acceptance criteria

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, Paragon Analytics, Inc. certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed.

C Biegel 7.7.97

Ann Biegelsen
Organic Chemist

Date

Reviewer's Initials 7-7-97

Date

Paragon Analytics, Inc.

SAMPLE NUMBER(S) CROSS-REFERENCE TABLE

Client Name: El Paso Natural Gas Co.

Client Project ID: Gallup Complex F97-0087

PAI-ID	Client ID	MATRIX	DATE SAMPLED
9706201-1	F97-0087	Soil	06/19/97
9706201-2	F97-0058	Soil	06/19/97

TCLP SEMIVOLATILE ORGANICS
Modified Method 8270

Sample ID

TCLP Blank

Lab Name: Paragon Analytics, Inc.
Client Name: El Paso Natural Gas Co.
Client Project: Galllup Complex
Lab Sample ID.: RB1 06-25-97

Sample Matrix: TCLP Leachate
Cleanup: None

Date Collected: N/A
Date Extracted: 06-25-97
Date Analyzed: 06-30-97
Sample Volume: 100 mL
Final Volume: 1 mL
Dilution Factor: 1

EPA HW Number	Analyte	CAS Number	Result (mg/L)	Reporting Limit (mg/L)
D023	o-Cresol	95-48-7	ND	0.1
D024	m-Cresol	108-39-4	ND	0.1
D025	p-Cresol	106-44-5	ND	0.1
D026	Total o,m,p-Cresol		ND	0.2
D027	1,4-Dichlorobenzene	106-46-7	ND	0.1
D030	2,4-Dinitrotoluene	121-14-2	ND	0.1
D032	Hexachlorobenzene	118-74-1	ND	0.1
D033	Hexachlorobutadiene	87-68-3	ND	0.1
D034	Hexachloroethane	67-72-1	ND	0.1
D036	Nitrobenzene	98-95-3	ND	0.1
D037	Pentachlorophenol	87-86-5	ND	0.5
D038	Pyridine	110-86-1	ND	0.1
D041	2,4,5-Trichlorophenol	95-95-4	ND	0.5
D042	2,4,6-Trichlorophenol	88-06-2	ND	0.1

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	68	21-110
Phenol-d5	76	15-104
Nitrobenzene-d5	78	34-111
2-Fluorobiphenyl	72	21-106
2,4,6-Tribromophenol	90	23-100
Terphenyl-d14	70	33-111

ND = Not detected

TCLP SEMIVOLATILE ORGANICS
Modified Method 8270

Sample ID

F97-0087

Lab Name: Paragon Analytics, Inc.
Client Name: El Paso Natural Gas Co.
Client Project: Galllup Complex
Lab Sample ID.: 9706201-1

Sample Matrix: TCLP Leachate
Cleanup: None

Date Collected: 06-19-97
Date Extracted: 06-25-97
Date Analyzed: 06-30-97
Sample Volume: 100 mL
Final Volume: 1 mL
Dilution Factor: 1

EPA HW Number	Analyte	CAS Number	Result (mg/L)	Reporting Limit (mg/L)
D023	o-Cresol	95-48-7	ND	0.1
D024	m-Cresol	108-39-4	ND	0.1
D025	p-Cresol	106-44-5	ND	0.1
D026	Total o,m,p-Cresol		ND	0.2
D027	1,4-Dichlorobenzene	106-46-7	ND	0.1
D030	2,4-Dinitrotoluene	121-14-2	ND	0.1
D032	Hexachlorobenzene	118-74-1	ND	0.1
D033	Hexachlorobutadiene	87-68-3	ND	0.1
D034	Hexachloroethane	67-72-1	ND	0.1
D036	Nitrobenzene	98-95-3	ND	0.1
D037	Pentachlorophenol	87-86-5	ND	0.5
D038	Pyridine	110-86-1	ND	0.1
D041	2,4,5-Trichlorophenol	95-95-4	ND	0.5
D042	2,4,6-Trichlorophenol	88-06-2	ND	0.1

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	84	21-110
Phenol-d5	99	15-104
Nitrobenzene-d5	96	34-111
2-Fluorobiphenyl	88	21-106
2,4,6-Tribromophenol	94	23-100
Terphenyl-d14	112 *	33-111

ND = Not detected
* = Outside limits

TCLP SEMIVOLATILE ORGANICS
Modified Method 8270

Sample ID

F97-0058

Lab Name: Paragon Analytics, Inc.
Client Name: El Paso Natural Gas Co.
Client Project: Galllup Complex
Lab Sample ID.: 9706201-2

Sample Matrix: TCLP Leachate
Cleanup: None

Date Collected: 06-19-97
Date Extracted: 06-25-97
Date Analyzed: 06-30-97
Sample Volume: 100 mL
Final Volume: 1 mL
Dilution Factor: 1

EPA HW Number	Analyte	CAS Number	Result (mg/L)	Reporting Limit (mg/L)
D023	o-Cresol	95-48-7	ND	0.1
D024	m-Cresol	108-39-4	ND	0.1
D025	p-Cresol	106-44-5	ND	0.1
D026	Total o,m,p-Cresol		ND	0.2
D027	1,4-Dichlorobenzene	106-46-7	ND	0.1
D030	2,4-Dinitrotoluene	121-14-2	ND	0.1
D032	Hexachlorobenzene	118-74-1	ND	0.1
D033	Hexachlorobutadiene	87-68-3	ND	0.1
D034	Hexachloroethane	67-72-1	ND	0.1
D036	Nitrobenzene	98-95-3	ND	0.1
D037	Pentachlorophenol	87-86-5	ND	0.5
D038	Pyridine	110-86-1	ND	0.1
D041	2,4,5-Trichlorophenol	95-95-4	ND	0.5
D042	2,4,6-Trichlorophenol	88-06-2	ND	0.1

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	87	21-110
Phenol-d5	99	15-104
Nitrobenzene-d5	98	34-111
2-Fluorobiphenyl	87	21-106
2,4,6-Tribromophenol	85	23-100
Terphenyl-d14	93	33-111

ND = Not detected

TCLP SEMIVOLATILE ORGANICS BLANK SPIKE

Modified Method 8270

Sample ID

Blank Spike

Lab Name: Paragon Analytics, Inc.
Client Name: El Paso Natural Gas Co.
Client Project: Galllup Complex
Lab Sample ID: BS1 06-25-97

Sample Matrix: TCLP Leachate
Cleanup: None

Date Collected: N/A
Date Extracted: 06-25-97
Date Analyzed: 06-30-97
Sample Volume: 100 mL
Final Volume: 1 mL
Dilution Factor: 1

Analyte	Spike Added (mg/L)	Sample Concentration (mg/L)	BS Concentration (mg/L)	BS % Rec	QC Limit Recovery
Pyridine	0.50	N/A	0.266	53	D - 83
1,4-Dichlorobenzene	0.50	N/A	0.423	85	12 - 88
2-Methylphenol	1.00	N/A	0.864	86	21 - 97
3 and 4-Methylphenol	2.00	N/A	1.674	84	29 - 92
Hexachloroethane	0.50	N/A	0.439	88 *	18 - 83
Nitrobenzene	0.50	N/A	0.509	102	14 - 105
Hexachlorobutadiene	0.50	N/A	0.382	76	16 - 82
2,4,6-Trichlorophenol	1.00	N/A	0.840	84	24 - 84
2,4,5-Trichlorophenol	1.00	N/A	0.938	94	19 - 96
2,4-Dinitrotoluene	0.50	N/A	0.436	87	D - 104
Hexachlorobenzene	0.50	N/A	0.349	70	22 - 101
Pentachlorophenol	1.00	N/A	0.880	88	22 - 111

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	94	21-110
Phenol-d5	102	15-104
Nitrobenzene-d5	101	34-111
2-Fluorobiphenyl	98	21-106
2,4,6-Tribromophenol	100	23-100
Terphenyl-d14	82	33-111

N/A = Not applicable
* = Outside limits

TCLP SEMIVOLATILE ORGANICS BLANK SPIKE

Modified Method 8270

Sample ID

Blank Spike

Lab Name: Paragon Analytics, Inc.
Client Name: El Paso Natural Gas Co.
Client Project: Galllup Complex
Lab Sample ID: BS2 06-25-97

Sample Matrix: TCLP Leachate
Cleanup: None

Date Collected: N/A
Date Extracted: 06-25-97
Date Analyzed: 06-30-97
Sample Volume: 100 mL
Final Volume: 1 mL
Dilution Factor: 1

Analyte	Spike Added (mg/L)	Sample Concentration (mg/L)	BS Concentration (mg/L)	BS % Rec	QC Limit Recovery
Pyridine	0.50	N/A	0.309	62	D - 83
1,4-Dichlorobenzene	0.50	N/A	0.395	79	12 - 88
2-Methylphenol	1.00	N/A	0.810	81	21 - 97
3 and 4-Methylphenol	2.00	N/A	1.548	77	29 - 92
Hexachloroethane	0.50	N/A	0.383	77	18 - 83
Nitrobenzene	0.50	N/A	0.470	94	14 - 105
Hexachlorobutadiene	0.50	N/A	0.355	71	16 - 82
2,4,6-Trichlorophenol	1.00	N/A	0.772	77	24 - 84
2,4,5-Trichlorophenol	1.00	N/A	0.849	85	19 - 96
2,4-Dinitrotoluene	0.50	N/A	0.407	81	D - 104
Hexachlorobenzene	0.50	N/A	0.325	65	22 - 101
Pentachlorophenol	1.00	N/A	0.808	81	22 - 111

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	82	21-110
Phenol-d5	91	15-104
Nitrobenzene-d5	88	34-111
2-Fluorobiphenyl	85	21-106
2,4,6-Tribromophenol	87	23-100
Terphenyl-d14	77	33-111

N/A = Not applicable

Paragon Analytics, Inc.

pH ANALYSIS CASE NARRATIVE

El Paso Natural Gas Co.

Gallup Complex -- F97-0087

Order Number - 9706201

1. This report consists of 2 soil samples.
2. Samples were received cool and intact on 06/20/97.
3. The samples were prepared for analysis based on SW-846, 3rd Edition procedures. Specifically, the soil samples were analyzed following method 9045C.
4. All standards and solutions were used within their recommended shelf life.

All in house quality control procedures were followed, as described below.

5. General quality control procedures.
   - All initial and continuing calibration verifications associated with this batch were within acceptance criteria for the requested analyte. This indicates a valid calibration and stable instrument conditions.
6. A sample from this Order Number was used for the matrix QC samples for this batch.
   - A duplicate was prepared and analyzed with this batch. All acceptance criteria were met.

The data contained in the following report have been reviewed and approved by the personnel listed below:

Krista Mobley	7-2-97
Krista Mobley Inorganic Technician	Date
SW	7/2/97
Reviewer's Initials	Date

CERTIFICATION

Paragon Analytics, Inc. certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed.

Paragon Analytics, Inc.

SAMPLE NUMBER(S) CROSS-REFERENCE TABLE

Client Name: El Paso Natural Gas Co.

Client Project ID: Gallup Complex F97-0087

PAI-ID	Client ID	MATRIX	DATE SAMPLED
9706201-1	F97-0087	Soil	06/19/97
9706201-2	F97-0058	Soil	06/19/97

pH*

Method 9045B

Lab Name: Paragon Analytics, Inc.
Client Name: El Paso Natural Gas Co.
Client Project ID: Gallup Complex -- F97-0057
Lab Workorder Number: 9706201

Date Collected: 06/19/97
Date Analyzed: 06/26/97
Sample Matrix: Soil

Sample ID	Lab Sample ID	pH
F97-0087	9706201-1	7.0
F97-0058	9706201-2	8.4

* Soil pH measured in water

NM

PARAGON
ANALYTICS, INC.
AN EMPLOYEE OWNED SMALL BUSINESS

QUALITY ASSURANCE
DATA REVIEW

Date: July 21, 1997

Paragon Workorder: 97-06-201 Analysis: General Chemistry Analysis

The data contained in the following report have been reviewed and approved by the personnel listed below:

Victoria L. Bayly
Project Manager

CERTIFICATION

Paragon Analytics, Inc. certifies that the analyses reported herein are true, complete, and correct within the limits of the methods employed.

A case narrative ___ is __XX__ is not included with this report.

REACTIVE CYANIDE & SULFIDE
Method 7.3.3.2/3 and 7.3.4.2/3

Lab Name: Paragon Analytics, Inc.

Client Name: El Paso Natural Gas

Client Project ID: Gallup Complex/F97-0087

Lab Workorder Number: 97-06-201

Date Collected: 6/19/97

Date Analyzed: 7/17/97, 7/18/97

Sample Matrix: Soil

Sample ID	Lab Sample ID	CYANIDE (ppm)	SULFIDE (ppm)
Detection Limit		0.3	10
Blank	N/A	ND	ND
F97-0087	97-06-201-01	ND	ND
F97-0058	97-06-201-02	ND	ND

*Values are reported in total releasable compounds (mg/Kg)

N/A = Not Applicable
ND = Not Detected

INORGANICS LABORATORY CONTROL SAMPLE

Analyte	Analysis Date	LCS True Value (ppm)	LCS Conc Found (ppm)	Confidence Interval (ppm)
Reactive Cyanide	7/17/97	0.307	0.306	0.276 - 0.338

All other associated quality control results were acceptable.

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
1 Rio Brazos Road
Aztec, 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: 93115

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☒ Non-Exempt: ☐ Verbal Approval Received: Yes ☒ No ☐ (Denny Foust 7:40 A.M. 9.4.97)	4. Generator Conoco Inc.
	5. Originating Site Farmington C Com #1
2. Management Facility Destination Envirotech Soil Remediation Fac. Landfarm #2	6. Transporter Consolidated
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	"L" Sec 15. T19N R13W SJC, N.M.

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 & remediation of petroleum hydrocarbon contaminated production pits

RECEIVED
SEP - 4 1997
OIL CON. DIV.
DIST. 3

Estimated Volume ± 500 cy Known Volume (to be entered by the operator at the end of the haul) 424 cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 9-4-97
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. Foust TITLE: Geologist DATE: 9/5/97

APPROVED BY: Ernie Busch TITLE: " DATE: "

Fill ?

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
CONOCO INC 3315 BLOOMFIELD HWY FARMINGTON, NM 87401	Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico
3. Originating Site (name): FARMINGTON C COM #1 Attach list of originating sites as appropriate	**Location of the Waste (Street address &/or ULSTR):** SEC 15, T-29 N, R-13W UL-L
4. Source and Description of Waste PRODUCTION PITS	

I, CARL J. COY (Print Name) representative for: 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 only the following documentation is attached (check appropriate items):

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

Name (Original Signature): Carl J Coy

Title: FIELD SHEAR SPECIALIST

Date: 9/4/97

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
1000 Rio Brazos Road
Aztec, 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: 92197

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☒ Non-Exempt: ☐ Verbal Approval Received: Yes ☒ No ☐ (Denny Foust 8-29-97 9:30)	4. Generator Burlington Resources Oil & Gas
	5. Originating Site Val Verde Plant
2. Management Facility Destination Envirotech Soil RemediationFac. Landfarm #2	6. Transporter Freemyer Corp.
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	County Rd 4900, Bloomfield 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:

Charcoal filtration media,

RECEIVED
SEP - 3 1997
OIL CON. DIV.
DIST. 3

Estimated Volume 16 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: 9-3-97
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: 9/4/97

APPROVED BY: Ernie Busch TITLE: " DATE: "

ENVIROTECH INC.

UNDERGROUND TANK TESTING · SITE ASSESSMENT · SITE REMEDIATION

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

CERTIFICATE OF WASTE STATUS
OILFIELD EXEMPT WASTE

Originating Location: Val Verde Plant

Source: Charcoal Filtering

Disposal Location: Envirotech Soil Remediation Facility (ESRF)
Hilltop, New Mexico

"As a condition of acceptance for disposal, I hereby certify that this waste is an oilfield production exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. Additionally, to my knowledge, no non-exempt waste that is a "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has been added or mixed with the exempt waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, section 261.3(b)."

I, the undersigned, as the agent for Burlington Resources, concur with the status of the waste from the subject site.

Name Craig A. Bock
Title/Agency Env. Representative.

Address P.O Box 4289
Farmington, New Mexico 87499-4289.

Signature Craig A Bock

Date 8/22/97

Exempt Waste Manifest
Burlington Resources Oil & Gas
P.O. Box 4289, Farmington, NM 87499

Safety and Environmental

1. Waste Location: Lease/Well No. Val Verde Plant

2. Volume: 16 Cubic Yards _____ Barrels _____ Gallons

3. Description of Waste: Charcoal Filter Media

4. Method of Waste Generation: Charcoal is used to filter the MDEA at the plant. MDEA is used to remove CO2 from the gas stream.

5. Disposal Facility: Envirotech Inc.

6. Disposal Cost: $16 cubic yard

7. This waste material complies with the definition of exempt waste as listed in 40 CFR 261.4.

Approval for Disposal G. A. Bock (signature) Date 8/29/97

BR Representative

Transportation Company: Freenyor

Date(s) Transported: 8-29-97

BR Representative on Site: [signature] (signature) Date 8-29-97

Disposal Facility
Complete and return to Burlington Safety and Environmental with invoice

Date(s) Received: _____

Total Volume Received: _____

Waste Location: Cell/Grid No. _____

Received By: _____

Revised January 28, 1997
s:\2-envnmt\wastemgt\vv-mnfst.doc

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1000 Rio Brazos Road
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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

Env JN: 96003-25

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☒ Non-Exempt: ☐ Denny Foust 8-13-97 15:50	4. Generator EPFS.
Verbal Approval Received: Yes ☒ No ☐	5. Originating Site Trunk K Y-1 Drip
2. Management Facility Destination Envirotech Soil Remediation Fac Landfarm #2	6. Transporter PHILIP / INLAND
3. Address of Facility Operator 5796 U.S. 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:

Exempt Petroleum Hydrocarbon contaminated soil generated @ cleanup of ~ 40 bbl overfill of the Aboveground Storage Tank @ Line Drip.

	BOL			
8-19	10716	LF 2:45	K-15	50cy
8-20	10717	LF2:45	K-15	40cy
8-22	10729	LF2:45	K-15	100cy.
8-25	10734	LF2:45	K-15	120cy.

RECEIVED
SEP - 3 1997
OIL CON. DIV.
DIST. 3

Estimated Volume 200 cy Known Volume (to be entered by the operator at the end of the haul) 310 cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 9-3-97
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 O. Foust TITLE: Geologist DATE: 9/4/97

APPROVED BY: Ernie Busch TITLE: " DATE: "

Danny Foust
8·13·97
15:50

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
El Paso Field Services Co. 614 Reilly Avenue Farmington, NM 87401	Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico
3. Originating Site (name): Trunk K Y-1 Drip Tank Attach list of originating sites as appropriate	Location of Waste(Street address &/or ULSTR): Unit B, Section 24, T26N, R7W, Rio Arriba Co., NM

4. Source and Description of Waste

The Trunk K gathering line Y-1 pipeline drip empties into a 210 barrel aboveground storage tank. The tank overfilled and approximately 40 barrels of liquid hydrocarbons and produced water were released into the earthen containment berm. The contaminated soil was generated by the site clean up.

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)

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-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): David Bays

Title: Principal Environmental Scientist

Date: August 13, 1997

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
1000 Rio Brazos Road
Aztec, 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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Form C-138
Originated 8/8/95

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Plus 1 Copy
to appropriate
District Office

Env JN: 96003-26

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☒ Non-Exempt: ☐ 8.6.97 DF. 12:00 Verbal Approval Received: Yes ☒ No ☐	4. Generator E.P.F.S. 5. Originating Site Trunk valve O Cellar
2. Management Facility Destination Envirotech Soil RemediationFac Landfarm #2	6. Transporter TBA
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	"O", Sec10, T29N, R11W, SJC, 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:

Soil contaminated during demo of valve's and piping in Block O cellar.

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SEP - 3 1997
OIL CON. DIV.
DIST. 3

Hauled 8/25/97

Estimated Volume 15 cy cy Known Volume (to be entered by the operator at the end of the haul) 2 cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 9-3-97
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. Foust TITLE: Geologist DATE: 9/4/97

APPROVED BY: Ernie Busch TITLE: " DATE: "

ENVIROTECH INC.
PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CERTIFICATE OF WASTE STATUS
OILFIELD NON-EXEMPT WASTE MATERIAL

Originating Location: Trunk D Valve Cellar

Source: Exempt Hydrocarbon Contaminated Soil D-10-29-11

Disposal Location: Envirotech Soil Remediation Facility, (NMED)
Hilltop, New Mexico

"As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt oilfield production waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, to verify the nature as non-hazardous. I further certify that to my knowledge no "hazardous or listed waste" pursuant to the provisions of 40 CFR, part 261, Subparts C and D, has been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, section 261.3(b)."

I, the undersigned, as the agent for_____
concur with the status of the waste from the subject site.

Name Riley D. Cosby
Title/Agency Compliance Specialist

Address 1614 Reilly
Farmington N.M. 87401

Signature Riley D. Cosby

Date 8/1/97

5796 U.S. Highway 64-3014 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

RECEIVED AUG - 5 1997

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District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
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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: 96003-22

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☒ Non-Exempt: ☐ 7-15-97 9:30 A.M. Denny Foust Verbal Approval Received: Yes ☒ No ☐	4. Generator EPFS. 5. Originating Site Sandoval Gas Com A 1A
2. Management Facility Destination Envirotech Soil Remediation Fac. Landfarm #2	6. Transporter Philip Env.
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	"C", Sec 35, T 30N, R 9W, SJC, 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:

Natural gas production pit, cleanup of petroleum hydrocarbon contaminated soils

RECEIVED
SEP - 3 1997
OIL CON. DIV.
DIST. 3

7/15-17/97 haul date

Estimated Volume 1000 cy Known Volume (to be entered by the operator at the end of the haul) 504 cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 9.3.97
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. Foust TITLE: Geologist DATE: 9/4/97

APPROVED BY: Ernie Busch TITLE: DATE:

96003-22

ENVIROTECH INC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

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

CERTIFICATE OF WASTE STATUS
OILFIELD EXEMPT WASTE

Originating Location: Sandoval Gas Com A 1A

Source: Exempt Hydrocarbon Contaminated Soil

Disposal Location: _____

"As a condition of acceptance for disposal, I hereby certify that this waste is an oilfield production exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. Additionally, to my knowledge, no non-exempt waste that is a "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has been added or mixed with the exempt waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, section 261.3(b)."

I, the undersigned as the agent for the _____ concur with the status of the waste from the subject site.

Name Rick D. Cosby

Title/Agency Compliance Specialist
El Paso Field Services

Address P.O. Box 4990
Farmington N.M. 87499

Signature Rick D. Cosby

Date 07/09/97

RECEIVED JUL 10 1997

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District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, 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: 96003-23

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☒ Non-Exempt: ☐ Verbal Approval Received: Yes ☒ No ☐ (Danny Faust 7.15.97 9:30 AM.)	4. Generator E.P.F.S.
	5. Originating Site Jic Tribal 396#9
2. Management Facility Destination Envirotech Soil RemediationFac. Landfarm #2	6. Transporter Philip Env.
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	"I" Sec 7, T23N, R03W RAC, 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:

Natural Gas production pit, clean up of petroleum hydrocarbon contaminated soil

RECEIVED
SEP - 3 1997
OIL CON. DIV.
DIST. 3

8/11/97 Haul date

Estimated Volume 500 cy Known Volume (to be entered by the operator at the end of the haul) 106 cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 9-3-97
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. Faust TITLE: Geologist DATE: 9/4/97

APPROVED BY: Ernie Busch TITLE: " DATE:

96003 - 23

ENVIROTECH INC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

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

CERTIFICATE OF WASTE STATUS
OILFIELD EXEMPT WASTE

Originating Location: Jic Tribal Apache 396 #9

Source: Exempt Hydrocarbon Contaminated Soil "I," Sec. 7, T 23N, R 03 W

Disposal Location: _____

"As a condition of acceptance for disposal, I hereby certify that this waste is an oilfield production exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. Additionally, to my knowledge, no non-exempt waste that is a "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has been added or mixed with the exempt waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, section 261.3(b)."

I, the undersigned as the agent for the _____ concur with the status of the waste from the subject site.

Name Ricky D. Cosby

Title/Agency Compliance Specialist
El Paso Field Services

Address P.O. Box 4990
Farmington, NM 87499

Signature Ricky D. Cosby

Date 07/09/97

RECEIVED JUL 10 1997

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District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
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New Mexico
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Oil Conservation Division
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Form C-13
Originated 8/97

Submit Original Plus 1 Copy to appropriate District Office

Env JN: 97132

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Halliburton Energy Services
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site 4109 E. Main.
2. Management Facility Destination Envirotech Soil RemediationFac. Landfarm #2	6. Transporter Envirotech
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	4109 E. Main St. Farmington, New Mexico 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:

Contamination of wash bay Solids.
TCLP & Reaffirmation statement attached.

No haul

RECEIVED
AUG 28 1997
Environmental Bureau
Oil Conservation Division

RECEIVED
AUG 26 1997
OIL CON. DIV.
DIST. 3

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

SIGNATURE: [signature] TITLE: Landfarm Manager DATE: 8-25-97
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. Foust TITLE: Geologist DATE: 8/27/97

APPROVED BY: Matthew O'Kelly TITLE: Env. Geologist DATE: 8/28/97

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New Mexico
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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: ☐ Non-Exempt: ☒	4. Generator Halliburton Energy Services
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site 4109 E. Main.
2. Management Facility Destination Envirotech Soil RemediationFac Landfarm #2	6. Transporter ENVIROTECH
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	4109 E. Main St. Farmington, New Mexico 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:

Contamination of Wash bay Solids.
TCLP & Reaffirmation statement attached.

RECEIVED
AUG 26 1997
OIL CON. DIV.
DIST. 3

Estimated Volume ±20 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: 8-25-97
Waste Management FacilityAuthorized Agent

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. (505)632-0615

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 8/27/97

APPROVED BY: _____ TITLE: _____ DATE: _____

JN: 92132

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
Halliburton Energy Services 4109 E. Main Street Farmington, New Mexico 87401	Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico
3. Originating Site (name): Halliburton Energy Services 4109 East Main Street Farmington, NM Main Yard **Attach list of originating sites as appropriate**	**Location of the Waste (Street address &/or ULSTR):** Wash Bay sump separator, Concrete drying basin east side of yard
4. Source and Description of Waste Solids generated at wash bays, wash bay solids.	

I, RJ GREENAKER (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

X **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
X RCRA Hazardous Waste Analysis
X Chain of Custody
___ Other (description):

Name (Original Signature): R J Greenaker

Title: TOOL TECH II

Date: August 25, 1997

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ENVIROTECH INC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

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FARMINGTON, NEW MEXICO 87401
PHONE: (505) 632-0615

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 Characterization Leaching Procedures (TCLP) analysis was performed. I further certify that said material is from operations in the immediate Four Corners area.

Signed RJ Greenaker

Date of TCLP Oct 22, 1997

Name RJ GREENAKER

Title/Agency TOOL TECH I

Address 3110 E. BLOOMFIELD HWY
FARMINGTON, NM

Signature RJ Greenaker

Date August 25, 1997

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

SUSPECTED HAZARDOUS & SOLID WASTE ANALYSIS

Client:	Halliburton Energy Services	Project #:	92132
Sample ID:	Wash Bay Solids	Date Reported:	10-22-96
Lab ID#:	A706	Date Sampled:	10-22-96
Sample Matrix:	Solid	Date Received:	10-22-96
Preservative:	Cool	Date Analyzed:	10-22-96
Condition:	Cool & Intact	Chain of Custody:	4966

Parameter	Result
IGNITABILITY:	**Did not ignite upon direct contact with flame.**
CORROSIVITY:	**7.25**
REACTIVITY:	**Did not react violently with water, strong base (10N Sodium Hydroxide), or strong acid (6N Hydrochloric acid).**

RCRA Hazardous Waste Criteria

Parameter	Hazardous Waste Criterion
IGNITABILITY:	Sample Ignition upon direct contact with flame indicates hazardous waste status.
CORROSIVITY:	pH less than or equal to 2.0 or pH greater than or equal to 12.5 indicates hazardous waste status.
REACTIVITY:	Violent reaction with water, strong base (10N Sodium Hydroxide), or strong acid (6N Hydrocholoric Acid) indicates hazardous waste status.

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

Comments: **4109 E. Main, Farmington, NM.**

Dean L. Spencer
Analyst

Stacy W. Sandler
Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS

Client:	Halliburton Energy Services	Project #:	92132
Sample ID:	Wash Bay Soilds	Date Reported:	10-29-96
Laboratory Number:	A706	Date Sampled:	10-22-96
Chain of Custody:	4966	Date Received:	10-22-96
Sample Matrix:	Solid	Date Extracted:	10-22-96
Preservative:	Cool	Date Analyzed:	10-28-96
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.0004	0.2
1,1-Dichloroethene	ND	0.0002	0.7
2-Butanone (MEK)	ND	0.0003	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	ND	0.0002	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	103%
	Bromofluorobenzene	96%

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.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8040
PHENOLS

Client:	Halliburton Energy Services	Project #:	92132
Sample ID:	Wash Bay Solids	Date Reported:	10-29-96
Laboratory Number:	A706	Date Sampled:	10-22-96
Chain of Custody:	4966	Date Received:	10-22-96
Sample Matrix:	Solid	Date Extracted:	10-22-96
Preservative:	Cool	Date Analyzed:	10-28-96
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	99%
	2,4,6-Tribromophenol	102%

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. 198

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

Comments: **4109 E. Main, Farmington, NM.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	Halliburton Energy Services	Project #:	92132
Sample ID:	Wash Bay Solids	Date Reported:	10-28-96
Laboratory Number:	A706	Date Sampled:	10-22-96
Chain of Custody:	4966	Date Received:	10-22-96
Sample Matrix:	Solid	Date Extracted:	10-22-96
Preservative:	Cool	Date Analyzed:	10-28-96
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	**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: **4109 E. Main, Farmington, NM.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	Halliburton Energy Services	Project #:	92132
Sample ID:	Wash Bay Solids	Date Reported:	10-29-96
Laboratory Number:	A706	Date Sampled:	10-22-96
Chain of Custody:	4966	Date Received:	10-22-96
Sample Matrix:	Solid	Date Analyzed:	10-29-96
Preservative:	Cool	Date Extracted:	10-22-96
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
Arsenic	**0.025**	**0.001**	**5.00**
Barium	**0.42**	**0.01**	**100**
Cadmium	**0.057**	**0.001**	**1.00**
Chromium	**0.001**	**0.001**	**5.00**
Lead	**0.009**	**0.001**	**5.00**
Mercury	**ND**	**0.001**	**0.200**
Selenium	**ND**	**0.001**	**1.00**
Silver	**ND**	**0.001**	**5.0**

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

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

Comments: **4109 E. Main, Farmington, NM.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

QUALITY ASSURANCE / QUALITY CONTROL

DOCUMENTATION

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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:	Laboratory Blank	Date Reported:	10-29-96
Laboratory Number:	10-28-TCV.BLANK	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	10-28-96
Condition:	N/A	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.0004	0.2
1,1-Dichloroethene	ND	0.0002	0.7
2-Butanone (MEK)	ND	0.0003	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	ND	0.0002	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	96%
	Bromofluorobenzene	96%

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 A689, A706 and A713.**

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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:	Method Blank	Date Reported:	10-29-96
Laboratory Number:	10-22-TCV.MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	10-28-96
Condition:	N/A	Date Extracted:	10-22-96
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.0004	0.2
1,1-Dichloroethene	ND	0.0002	0.7
2-Butanone (MEK)	ND	0.0003	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	ND	0.0002	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	101%

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 A689, A706 and A713.**

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 Duplicate	Date Reported:	10-29-96
Laboratory Number:	A706	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	10-28-96
Condition:	N/A	Date Extracted:	10-22-96

Parameter	Sample Result (mg/L)	Duplicate Sample Result (mg/L)	Detection Limits (mg/L)	Percent Difference
Vinyl Chloride	ND	ND	0.0004	0.0%
1,1-Dichloroethene	ND	ND	0.0002	0.0%
2-Butanone (MEK)	ND	ND	0.0003	0.0%
Chloroform	ND	ND	0.0001	0.0%
Carbon Tetrachloride	ND	ND	0.0001	0.0%
Benzene	ND	ND	0.0002	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 A689, A706 and A713.**

Dawn L. Spencer
Analyst

Stacy W Sendler
Review

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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:	10-29-96
Laboratory Number:	A706	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	10-28-96
Condition:	N/A	Date Extracted:	10-22-96

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	0.020	0.0203	0.0004	102%	28-163
1,1-Dichloroethene	ND	0.020	0.0217	0.0002	108%	43-143
2-Butanone (MEK)	ND	0.020	0.0196	0.0003	97%	47-132
Chloroform	ND	0.020	0.0199	0.0001	99%	49-133
Carbon Tetrachloride	ND	0.020	0.0193	0.0001	97%	43-143
Benzene	ND	0.020	0.0207	0.0002	103%	39-150
1,2-Dichloroethane	ND	0.020	0.0185	0.0001	93%	51-147
Trichloroethene	ND	0.020	0.0189	0.0003	95%	35-146
Tetrachloroethene	ND	0.020	0.0195	0.0005	97%	26-162
Chlorobenzene	ND	0.020	0.0204	0.0003	102%	38-150
1,4-Dichlorobenzene	ND	0.020	0.0193	0.0002	96%	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 A689, A706 and A713.**

Dean L. Spencer
Analyst

Stacy W Sendler
Review

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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:	10-29-96
Laboratory Number:	10-28-TCA.BLANK	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	10-28-96
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	100 %
	2,4,6-tribromophenol	102 %

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. 198

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

Comments: **QA/QC for samples A689, A706 and A713.**

Analyst

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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:	10-29-96
Laboratory Number:	10-22-TCA.MB	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	Cool	Date Extracted:	10-22-96
Condition:	Cool & Intact	Date Analyzed:	10-28-96
		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	94%
	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. 198

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

Comments: **QA/QC for samples A689, A706 and A713.**

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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:	10-29-96
Laboratory Number:	A706	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	Cool	Date Extracted:	10-22-96
Condition:	Cool & Intact	Date Analyzed:	10-28-96
		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 A689, A706 and A713.**

Analyst

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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:	10-28-96
Laboratory Number:	10-28-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:	10-28-96
		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 A689, A706 and A713.**

Analyst

Review

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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:	10-28-96
Laboratory Number:	10-22-TBN.MB	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	Cool	Date Extracted:	10-22-96
Condition:	Cool and Intact	Date Analyzed:	10-28-96
		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 A689, A706 and A713.**

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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:	10-28-96
Laboratory Number:	A706	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Extracted:	10-22-96
Condition:	N/A	Date Analyzed:	10-28-96
		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 A689, A706 and A713.**

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ENVIROTECH LABS
PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Blanks	Date Reported:	10-29-96
Laboratory Number:	N/A	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	10-29-96
Condition:	N/A	Date Extracted:	N/A

Parameter	Instrument Blank (mg/L)	Method Blank (mg/L)	Det. Limit (mg/L)
Arsenic	**ND**	**ND**	**0.001**
Barium	**ND**	**ND**	**0.01**
Cadmium	**ND**	**ND**	**0.001**
Chromium	**ND**	**ND**	**0.001**
Lead	**ND**	**ND**	**0.001**
Mercury	**ND**	**ND**	**0.001**
Selenium	**ND**	**ND**	**0.001**
Silver	**ND**	**ND**	**0.001**

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

Comments: **QA/QC for samples A706, A711 and A713.**

Analyst

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ENVIROTECH LABS
PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	10-29-96
Laboratory Number:	A706	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	10-29-96
Condition:	N/A	Date Extracted:	10-22-96

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Percent Difference
Arsenic	**0.025**	**0.026**	**3.9%**
Barium	**0.42**	**0.41**	**2.4%**
Cadmium	**0.057**	**0.057**	**0.0%**
Chromium	**0.001**	**0.001**	**0.0%**
Lead	**0.009**	**0.009**	**0.0%**
Mercury	**ND**	**ND**	**0.0%**
Selenium	**ND**	**ND**	**0.0%**
Silver	**ND**	**ND**	**0.0%**

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Maximum Difference
	Trace Metals	**30 %**

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

Comments: **QA/QC for samples A706, A711 and A713.**

Analyst

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ENVIROTECH LABS
PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Spike	Date Reported:	10-29-96
Laboratory Number:	A706	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	10-29-96
Condition:	N/A	Date Extracted:	10-22-96

Parameter	Spike Added (mg/L)	Sample Result (mg/L)	Spiked Sample Result (mg/L)	Percent Recovery
Arsenic	**0.100**	**0.025**	**0.125**	**100%**
Barium	**1.00**	**0.42**	**1.41**	**99%**
Cadmium	**0.050**	**0.057**	**0.106**	**99%**
Chromium	**0.050**	**0.001**	**0.051**	**100%**
Lead	**0.100**	**0.009**	**0.109**	**100%**
Mercury	**0.025**	**ND**	**0.024**	**96%**
Selenium	**0.100**	**ND**	**0.099**	**99%**
Silver	**0.050**	**ND**	**0.049**	**98%**

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Acceptance Range %
	TCLP Metals	**80 - 120 %**

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

Comments: **QA/QC for samples A706, A711 and A713.**

Dean L. Spencer
Analyst

Stacy W Sendler
Review

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4966

CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location
Halliburton Energy Services	4109 E Main St, Farmington

Sampler: (Signature)	Chain of Custody Tape No.
[signature]	92132

ANALYSIS/PARAMETERS

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TCLP w/o #4						Remarks
Wash Bay Solids	10-22-96	9:50	A706	Solid	1	✓						

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	10-22-96	10:30	[signature]	10-22-96	10:30
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

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

san juan repro Form 578-81

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 746-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1 Rio Brazos Road
Aztec, 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

Roger Anderson

Form C-13
Originated 8/8/

Submit Origi
Plus 1 Co
to appropri
District Offi

Env JN: 97032

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒ Verbal Roger Anderson 8/20/97 Verbal Approval Received: Yes ☐ No ☒	4. Generator Oil & Gas Equipment
	5. Originating Site Wash Pit.
2. Management Facility Destination Envirotech Soil Remediation Fac Landfarm #2	6. Transporter Envirotech
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	4910 E. Main Street Farmington, N.M. 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:

Soil and cobble generated during clean-up of - former wash/rinse sump located beneath a work shed.

Analysis Attached for:
TCLP Metals
8015 glycol
8020 BTEX
RCRA Characterization
Alkalinity.

RECEIVED
AUG 28 1997
Environmental Bureau
Oil Conservation Division

RECEIVED
AUG 26 1997
OIL CON. DIV.
DIST. 3

Estimated Volume 25 cy Known Volume (to be entered by the operator at the end of the haul) 62 cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 8-26-97
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. Foust TITLE: Geologist DATE: 8/26/97

APPROVED BY: Martyne Kieling TITLE: Env Geologist DATE: 8/28/97

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
1000 Rio Brazos Road
Aztec, 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: 97032

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒ verbal Roger Anderson 8/26/97	4. Generator Oil & Gas Equipment
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Wash Pit.
2. Management Facility Destination Envirotech Soil RemediationFac. Landfarm #2	6. Transporter Envirotech
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	4910 E Main STREET Farmington, N.M. 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:

Soil and cobble generated during cleanup of a former wash/rinse sump located beneath a work SHED.

Analysis Attached for:
TCLP Metals
8015 glycol
8020 BTEX
RCRA CHARACTERIZATION
Alkalinity.

RECEIVED
AUG 26 1997
OIL CON. DIV.
DIST. 3

Estimated Volume 25 cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Harlan M. Brown
Waste Management Facility Authorized Agent
TITLE: Landfarm Manager DATE: 8-26-97

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. (505)632-0615

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 8/26/97

APPROVED BY: _____ TITLE: _____ DATE: _____

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
Oil & Gas Equipment Corp. 4910 East Main Street Farmington, New Mexico 87401	Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico
3. Originating Site (name): Oil & Gas Equipment Corp. 4910 East Main Street Farmington, New Mexico 87401 **Attach list of originating sites as appropriate**	**Location of the Waste (Street address &/or ULSTR):** Stockpile behind building
4. Source and Description of Waste Cleanup of former pit used to receive paint overspray, and water from a parts washing vat (hot dip)	

I, _____ representative for:
(Print Name)

Oil & Gas Equipment Corporation 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

X **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
X Chain of Custody

X Other (description):
8015 ~~EPH~~ Glycol
8020 BTEX
TCLP Metals
RCRA Characterization
Alkalinity,

Name (Original Signature): Michael J. Wagner

Title: PRESIDENT

Date: 8-25-97

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	Oil & Gas Equipment	Project #:	97032
Sample ID:	1' Below Pit Bottom	Date Reported:	04-21-97
Laboratory Number:	B134	Date Sampled:	04-15-97
Chain of Custody:	5198	Date Received:	04-15-97
Sample Matrix:	Soil	Date Analyzed:	04-21-97
Preservative:	Cool	Date Extracted:	04-16-97
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
Arsenic	**ND**	**0.001**	**5.00**
Barium	**2.26**	**0.01**	**100**
Cadmium	**0.130**	**0.001**	**1.00**
Chromium	**0.018**	**0.001**	**5.00**
Lead	**0.974**	**0.001**	**5.00**
Mercury	**ND**	**0.001**	**0.200**
Selenium	**ND**	**0.001**	**1.00**
Silver	**ND**	**0.001**	**5.0**

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

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

Comments: **Farmington, NM. Pit Depth 1' bgs.**

Analyst

Review

725

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	Oil & Gas Equipment	Project #:	97032
Sample ID:	4' Below Pit Bottom	Date Reported:	04-21-97
Laboratory Number:	B135	Date Sampled:	04-15-97
Chain of Custody:	5198	Date Received:	04-15-97
Sample Matrix:	Soil	Date Analyzed:	04-21-97
Preservative:	Cool	Date Extracted:	04-16-97
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
Arsenic	**ND**	**0.001**	**5.00**
Barium	**2.78**	**0.01**	**100**
Cadmium	**0.145**	**0.001**	**1.00**
Chromium	**0.007**	**0.001**	**5.00**
Lead	**0.530**	**0.001**	**5.00**
Mercury	**ND**	**0.001**	**0.200**
Selenium	**ND**	**0.001**	**1.00**
Silver	**ND**	**0.001**	**5.0**

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

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

Comments: **Farmington, NM. Pit Depth 1' bgs.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

QUALITY ASSURANCE / QUALITY CONTROL DOCUMENTATION

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Blanks	Date Reported:	04-21-97
Laboratory Number:	N/A	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	04-21-97
Condition:	N/A	Date Extracted:	N/A

Parameter	Instrument Blank (mg/L)	Method Blank (mg/L)	Det. Limit (mg/L)
Arsenic	ND	ND	0.001
Barium	ND	ND	0.01
Cadmium	ND	ND	0.001
Chromium	ND	ND	0.001
Lead	ND	ND	0.001
Mercury	ND	ND	0.001
Selenium	ND	ND	0.001
Silver	ND	ND	0.001

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

Comments: **QA/QC for samples B132, B134, B135, B137, B138 and B147**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	04-21-97
Laboratory Number:	B132	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	04-21-97
Condition:	N/A	Date Extracted:	04-16-97

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Percent Difference
Arsenic	**ND**	**ND**	**0.0%**
Barium	**3.12**	**3.11**	**0.3%**
Cadmium	**0.057**	**0.056**	**1.8%**
Chromium	**0.003**	**0.003**	**0.0%**
Lead	**0.042**	**0.042**	**0.0%**
Mercury	**ND**	**ND**	**0.0%**
Selenium	**ND**	**ND**	**0.0%**
Silver	**ND**	**ND**	**0.0%**

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Maximum Difference
	Trace Metals	**30 %**

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

Comments: **QA/QC for samples B132, B134, B135, B137, B138 and B147**

Analyst

Stacy W Sendler

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Spike	Date Reported:	04-21-97
Laboratory Number:	B132	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	04-21-97
Condition:	N/A	Date Extracted:	04-16-97

Parameter	Spike Added (mg/L)	Sample Result (mg/L)	Spiked Sample Result (mg/L)	Percent Recovery
Arsenic	**0.100**	**ND**	**0.099**	**99%**
Barium	**1.00**	**3.12**	**4.13**	**100%**
Cadmium	**0.050**	**0.057**	**0.106**	**99%**
Chromium	**0.050**	**0.003**	**0.053**	**100%**
Lead	**0.100**	**0.042**	**0.142**	**100%**
Mercury	**0.025**	**ND**	**0.025**	**100%**
Selenium	**0.100**	**ND**	**0.099**	**99%**
Silver	**0.050**	**ND**	**0.050**	**100%**

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Acceptance Range %
	TCLP Metals	**80 - 120 %**

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

Comments: **QA/QC for samples B132, B134, B135, B137, B138 and B147**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

SUSPECTED HAZARDOUS SOLID WASTE ANALYSIS

Client:	Oil & Gas Equipment	Project #:	97032
Sample ID:	1' Below Pit Bottom	Date Reported:	04-21-97
Lab ID#:	B134	Date Sampled:	04-15-97
Sample Matrix:	Soil	Date Received:	04-15-97
Preservative:	Cool	Date Analyzed:	04-16-97
Condition:	Cool & Intact	Chain of Custody:	5198

Parameter	Result	
IGNITABILITY:	**Negative**	
CORROSIVITY:	**Negative**	**pH = 8.36**
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: **Farmington, NM. Pit Depth 1' bgs.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

SUSPECTED HAZARDOUS SOLID WASTE ANALYSIS

Client:	Oil & Gas Equipment	Project #:	97032
Sample ID:	4' Below Pit Bottom	Date Reported:	04-21-97
Lab ID#:	B135	Date Sampled:	04-15-97
Sample Matrix:	Soil	Date Received:	04-15-97
Preservative:	Cool	Date Analyzed:	04-16-97
Condition:	Cool & Intact	Chain of Custody:	5198

Parameter	Result	
IGNITABILITY:	**Negative**	
CORROSIVITY:	**Negative**	**pH = 7.15**
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: **Farmington, NM. Pit Depth 1' bgs.**

Analyst

Stacy W Sendler

Review

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ENVIROTECH LABS
PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8020
AROMATIC VOLATILE ORGANICS

Client:	Oil & Gas Equipment	Project #:	97032
Sample ID:	1' Below Pit Bottom	Date Reported:	04-16-97
Laboratory Number:	B134	Date Sampled:	04-15-97
Chain of Custody:	5198	Date Received:	04-15-97
Sample Matrix:	Soil	Date Analyzed:	04-16-97
Preservative:	Cool	Date Extracted:	04-16-97
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**50.0**	**11.7**
Toluene	**36,900**	**11.1**
Ethylbenzene	**11,100**	**10.1**
p,m-Xylene	**34,400**	**14.4**
o-Xylene	**19,500**	**6.9**
Total BTEX	**102,000**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	**100 %**
	Bromofluorobenzene	**100 %**

References: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1994.

Comments: Farmington, NM. Pit Depth 1' bgs.

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8020
AROMATIC VOLATILE ORGANICS

Client:	Oil & Gas Equipment	Project #:	97032
Sample ID:	4' Below Pit Bottom	Date Reported:	04-16-97
Laboratory Number:	B135	Date Sampled:	04-15-97
Chain of Custody:	5198	Date Received:	04-15-97
Sample Matrix:	Soil	Date Analyzed:	04-16-97
Preservative:	Cool	Date Extracted:	04-16-97
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**11.7**
Toluene	**8,320**	**11.1**
Ethylbenzene	**2,550**	**10.1**
p,m-Xylene	**12,250**	**14.4**
o-Xylene	**6,840**	**6.9**
Total BTEX	**30,000**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	**100 %**
	Bromofluorobenzene	**100 %**

References: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1994.

Comments: Farmington, NM. Pit Depth 1' bgs.

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

QUALITY ASSURANCE / QUALITY CONTROL DOCUMENTATION

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8020
AROMATIC VOLATILE ORGANICS
QUALITY ASSURANCE REPORT

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	04-16-97
Laboratory Number:	04-16-BTEX.BLANK	Date Sampled:	N/A
Sample Matrix:	Water	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	04-16-97
Condition:	N/A	Analysis Requested:	BTEX

Parameter	Concentration (ug/L)	Det. Limit (ug/L)
Benzene	**ND**	**0.2**
Toluene	**ND**	**0.2**
Ethylbenzene	**ND**	**0.2**
p,m-Xylene	**ND**	**0.2**
o-Xylene	**ND**	**0.1**

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	**100 %**
	Bromofluorobenzene	**100 %**

References: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1994.

Comments: **QA/QC for samples B134 - B136.**

Analyst

Review

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ENVIROTECH LABS
PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8020
AROMATIC VOLATILE ORGANICS

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	04-16-97
Laboratory Number:	B134	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	Cool	Date Analyzed:	04-16-97
Condition:	Cool and Intact	Analysis Requested:	BTEX

Parameter	Sample Result (ug/Kg)	Duplicate Result (ug/Kg)	Det. Limit (ug/Kg)	Percent Difference
Benzene	**50.0**	**47.0**	**11.7**	**0.0%**
Toluene	**36,900**	**36,600**	**11.1**	**0.8%**
Ethylbenzene	**11,100**	**10,900**	**10.1**	**1.2%**
p,m-Xylene	**34,400**	**33,800**	**14.4**	**1.8%**
o-Xylene	**19,500**	**19,400**	**6.9**	**0.4%**

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Maximum Difference
	8020 Compounds	**30 %**

References: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1994.

Comments: QA/QC for samples B134 - B136.

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8020
AROMATIC VOLATILE ORGANICS

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Spike	Date Reported:	04-16-97
Laboratory Number:	B134	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	Cool	Date Extracted:	04-16-97
Condition:	Cool and Intact	Date Analyzed:	04-16-97

Parameter	Sample Result (ug/Kg)	Spike Added (ug/Kg)	Spiked Sample Result (ug/Kg)	Det. Limit (ug/Kg)	Percent Recovery	SW-846 % Rec. Accept. Range
Benzene	50.0	50.0	98.4	11.7	100%	39-150
Toluene	36,900	50.0	36,900	11.1	100%	46-148
Ethylbenzene	11,100	50.0	11,120	10.1	100%	32-160
p,m-Xylene	34,400	100	34,500	14.4	100%	46-148
o-Xylene	19,500	50.0	19,600	6.9	100%	46-148

ND - Parameter not detected at the stated detection limit.

References: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1994.

Comments: **QA/QC for samples B134 - B136.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8015 Modified Glycols

Client:	Oil & Gas Equipment	Project #:	97032
Sample ID:	1' Below Pit Bottom	Date Reported:	04-21-97
Laboratory Number:	B134	Date Sampled:	04-15-97
Chain of Custody:	5198	Date Received:	04-15-97
Sample Matrix:	Soil	Date Analyzed:	04-16-97
Preservative:	Cool	Analysis Requested:	Glycol
Condition:	Cool and Intact		

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Ethylene Glycol	**10.1**	**0.05**
Diethylene Glycol	**2.0**	**0.05**
Triethylene Glycol	**ND**	**0.05**
Total Glycols	**12.1**	**0.05**

ND = Parameter not detected at the stated detection limit.

Method: Method 8015, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Comments: **Farmington, NM. Pit Depth 1' bgs.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8015 Modified Glycols

Client:	Oil & Gas Equipment	Project #:	97032
Sample ID:	4' Below Pit Bottom	Date Reported:	04-21-97
Laboratory Number:	B135	Date Sampled:	04-15-97
Chain of Custody:	5198	Date Received:	04-15-97
Sample Matrix:	Soil	Date Analyzed:	04-16-97
Preservative:	Cool	Analysis Requested:	Glycol
Condition:	Cool and Intact		

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Ethylene Glycol	**7.5**	**0.05**
Diethylene Glycol	**3.0**	**0.05**
Triethylene Glycol	**ND**	**0.05**
Total Glycols	**10.5**	**0.05**

ND = Parameter not detected at the stated detection limit.

Method: Method 8015, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Comments: **Farmington, NM. Pit Depth 1' bgs.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

QUALITY ASSURANCE / QUALITY CONTROL DOCUMENTATION

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ENVIROTECH LABS
PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8015 Modified Glycols Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	04-21-97
Laboratory Number:	08-15-Glycols.Blank	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	04-16-97
Condition:	N/A	Analysis Requested:	Glycols

Parameter	Concentration (mg/L)	Det. Limit (mg/L)
Ethylene Glycol	**ND**	**0.05**
Diethylene Glycol	**ND**	**0.05**
Triethylene Glycol	**ND**	**0.05**

ND = Parameter not detected at the stated detection limit.

Method: Method 8015, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Comments: **QA/QC for samples B134 - B135.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
GLYCOLS
Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	04-21-97
Laboratory Number:	B134	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	Cool	Date Analyzed:	04-16-97
Condition:	Cool and Intact	Analysis Requested:	TPH

Parameter	Sample Result (mg/Kg)	Duplicate Result (mg/Kg)	Percent Difference
Ethylene Glycol	**10.1**	**10.0**	**1.0%**
Diethylene Glycol	**2.0**	**2.0**	**0.0%**
Triethylene Glycol	**ND**	**ND**	**0.0%**
Total Glycols	**12.1**	**12.0**	**0.8%**

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Max Difference
	Petroleum Hydrocarbons	**30%**

References: Method 8015, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Comments: **QA/QC for samples B134 - B135.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

ALKALINITY

Client:	Oil & Gas Equipment	Project #:	97032
Sample ID:	1' Below Pit Bottom	Date Reported:	04-17-97
Laboratory Number:	B134	Date Sampled:	04-15-97
Sample Matrix:	Soil Extract	Date Received:	04-15-97
Preservative:	Cool	Date Analyzed:	04-17-97
Condition:	Cool & Intact	Chain of Custody:	5198

Parameter	Analytical Result	Units
Total Alkalinity as CaCO3	**167**	mg/L

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

Comments: **Farmington, NM.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

ALKALINITY

Client:	Oil & Gas Equipment	Project #:	97032
Sample ID:	4' Below Pit Bottom	Date Reported:	04-17-97
Laboratory Number:	B135	Date Sampled:	04-15-97
Sample Matrix:	Soil Extract	Date Received:	04-15-97
Preservative:	Cool	Date Analyzed:	04-17-97
Condition:	Cool & Intact	Chain of Custody:	5198

Parameter	Analytical Result	Units
Total Alkalinity as CaCO3	**148**	mg/L

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

Comments: **Farmington, NM.**

Analyst

Review

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CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location
97032 OIL & GAS EQUIPMENT	FARMINGTON NM
Sampler: (Signature) [signature]	Chain of Custody Tape No.

ANALYSIS/PARAMETERS

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	GLYCOL (8015)	BTEX (8020)	RCRA (IG., REAST. CORR.)	TCLP METALS	ALKALINITY		Remarks
1' BELOW PIT BOTTOM	4/15/97	1002	B134	SOIL	1	✓	✓	✓	✓	✓		PIT DEPTH 1' bgs
4' BELOW PIT BOTTOM	4/15/97	1035	B135	"	1	✓	✓	✓	✓	✓		" " "
						Samples Received cool & Intact Dry						

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	4/15/97	1125	[signature]	4-15-97	1125
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

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

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
1000 Rio Brazos Road
Aztec, 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/

Submit Origi
Plus 1 Co
to appropria
District Offi

Env JN: 92101

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator B.J Services
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Main Yard
2. Management Facility Destination Envirotech Soil RemediationFac Landfarm #2	6. Transporter Envirotech
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	3250 Southside River Rd, Farmington, New Mexico 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:

Contination of wash by Solids
TCLP & Reaffirmation Statement ATTACHED

RECEIVED
AUG 28 1997
Environmental Bureau
Oil Conservation Division

RECEIVED
AUG 26 1997
OIL CON. DIV.
DIST. 3

Estimated Volume ± 40 cy cy Known Volume (to be entered by the operator at the end of the haul) 64 cy

SIGNATURE: [signature] TITLE: Landfarm Manager DATE: 8-25-97
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: 8/26/97

APPROVED BY: [signature] TITLE: Env Geologist DATE: 8/28/97

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
1000 Rio Brazos Road
Aztec, 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: 92101

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator B.J. Services
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Main Yard
2. Management Facility Destination Envirotech Soil RemediationFac Landfarm #2	6. Transporter Envirotech
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	3250 Southside River Rd, Farmington, New Mexico 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:

Continuation of Wash bay Solids
TCLP & REAFFIRMATION Statement ATTACHED

RECEIVED
AUG 26 1997
OIL CON. DIV.
DIST. 3

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: 8-25-97
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. Foust TITLE: Geologist DATE: 8/26/97

APPROVED BY: _____ TITLE: _____ DATE: _____

JN: 92101

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
BJ Services 3250 Southside River Road Farmington, New Mexico 87401	Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico
3. Originating Site (name): BJ Services Mainyard 3250 Southside River Road Farmington, New Mexico 87401 **Attach list of originating sites as appropriate**	**Location of the Waste (Street address &/or ULSTR):** Solids separator, concrete drying basin
4. Source and Description of Waste Continuation of wash bay solids	

I, Les Baugh (Print Name) representative for:

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

X **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

X RCRA Hazardous Waste Analysis

X Chain of Custody

___ Other (description):

Name (Original Signature): Les Baugh

Title: Facilities Supervisor

Date: 8/25/97

ENVIROTECH INC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

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

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 Characterization Leaching Procedures (TCLP) analysis was performed. I further certify that said material is from operations in the immediate Four Corners area.

Signed Les Baugh

Date of TCLP 1-14-97

Name Les Baugh

Title/Agency Facilities Supervisor

Address 3250 Southside River Rd
Farmington, New Mexico

Signature _____

Date _____

750

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

SUSPECTED HAZARDOUS & SOLID WASTE ANALYSIS

Client:	B J Services	Project #:	92101
Sample ID:	Wash Bay	Date Reported:	01-07-97
Lab ID#:	A893	Date Sampled:	01-03-97
Sample Matrix:	Soil	Date Received:	01-03-97
Preservative:	Cool	Date Analyzed:	01-03-97
Condition:	Cool & Intact	Chain of Custody:	5051

Parameter	Result
IGNITABILITY:	**Did not ignite upon direct contact with flame.**
CORROSIVITY:	**8.40**
REACTIVITY:	**Did not react violently with water, strong base (10N Sodium Hydroxide), or strong acid (6N Hydrochloric acid).**

RCRA Hazardous Waste Criteria

Parameter	Hazardous Waste Criterion
IGNITABILITY:	Sample Ignition upon direct contact with flame indicates hazardous waste status.
CORROSIVITY:	pH less than or equal to 2.0 or pH greater than or equal to 12.5 indicates hazardous waste status.
REACTIVITY:	Violent reaction with water, strong base (10N Sodium Hydroxide), or strong acid (6N Hydrocholoric Acid) indicates hazardous waste status.
Reference:	40 CFR part 261 Subpart C sections 261.21 - 261.23, July 1, 1992.
Comments:	**Yard, 3250 Southside River Rd., Farmington, NM. Sludge Composite.**

Denise L. Ajenco
Analyst

Stacy W Sendler
Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS

Client:	B J Services	Project #:	92101
Sample ID:	Wash Bay	Date Reported:	01-09-97
Laboratory Number:	A893	Date Sampled:	01-03-97
Chain of Custody:	5051	Date Received:	01-03-97
Sample Matrix:	Soil	Date Extracted:	01-07-97
Preservative:	Cool	Date Analyzed:	01-08-97
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	101%
	Bromofluorobenzene	96%

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: **Yard, 3250 Southside River Rd., Farmington, NM.**
Sludge Composite.

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8040
PHENOLS

Client:	B J Services	Project #:	92101
Sample ID:	Wash Bay	Date Reported:	01-14-97
Laboratory Number:	A893	Date Sampled:	01-03-97
Chain of Custody:	5051	Date Received:	01-03-97
Sample Matrix:	Soil	Date Extracted:	01-07-97
Preservative:	Cool	Date Analyzed:	01-13-97
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	99%
	2,4,6-Tribromophenol	98%

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. 198

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

Comments: **Yard, 3250 southside River Rd., Farmington, NM.**
Sludge Composite.

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	B J Services	Project #:	92101
Sample ID:	Wash Bay	Date Reported:	01-14-97
Laboratory Number:	A893	Date Sampled:	01-03-97
Chain of Custody:	5051	Date Received:	01-03-97
Sample Matrix:	Soil	Date Extracted:	01-07-97
Preservative:	Cool	Date Analyzed:	01-13-97
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: **Yard, 3250 Southside River Rd., Farmington, NM.**
Sludge Composite.

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	B J Services	Project #:	92101
Sample ID:	Wash Bay	Date Reported:	01-14-97
Laboratory Number:	A893	Date Sampled:	01-03-97
Chain of Custody:	5051	Date Received:	01-03-97
Sample Matrix:	Soil	Date Analyzed:	01-14-97
Preservative:	Cool	Date Extracted:	01-07-97
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
Arsenic	ND	0.001	5.00
Barium	1.72	0.01	100
Cadmium	0.009	0.001	1.00
Chromium	ND	0.001	5.00
Lead	0.081	0.001	5.00
Mercury	ND	0.001	0.200
Selenium	ND	0.001	1.00
Silver	ND	0.001	5.0

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

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

Comments: **Yard, 3250 Southside River Rd., Farmington, NM. Sludge Composite.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

QUALITY ASSURANCE / QUALITY CONTROL

DOCUMENTATION

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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:	Laboratory Blank	Date Reported:	01-09-97
Laboratory Number:	01-08-TCV.BLANK	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	01-08-97
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	97%
	Bromofluorobenzene	96%

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 A893 - A894.**

Analyst

Review

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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:	Method Blank	Date Reported:	01-09-97
Laboratory Number:	01-07-TCV.MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	01-08-97
Condition:	N/A	Date Extracted:	01-07-97
		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	96%

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 A893 - A894.**

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 Duplicate	Date Reported:	01-09-97
Laboratory Number:	A893	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	01-08-97
Condition:	N/A	Date Extracted:	01-07-97

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 A893 - A894.**

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:	01-09-97
Laboratory Number:	A893	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	01-08-97
Condition:	N/A	Date Extracted:	01-07-97

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	0.020	0.0199	0.0001	99%	28-163
1,1-Dichloroethene	ND	0.020	0.0194	0.0001	97%	43-143
2-Butanone (MEK)	ND	0.020	0.0193	0.0001	96%	47-132
Chloroform	ND	0.020	0.0198	0.0001	98%	49-133
Carbon Tetrachloride	ND	0.020	0.0196	0.0001	97%	43-143
Benzene	ND	0.020	0.0197	0.0001	98%	39-150
1,2-Dichloroethane	ND	0.020	0.0193	0.0001	96%	51-147
Trichloroethene	ND	0.020	0.0197	0.0003	99%	35-146
Tetrachloroethene	ND	0.020	0.0195	0.0005	98%	26-162
Chlorobenzene	ND	0.020	0.0193	0.0003	97%	38-150
1,4-Dichlorobenzene	ND	0.020	0.0200	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 A893 - A894.**

Dean L. Spencer
Analyst

Stacy W Sendler
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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:	01-14-97
Laboratory Number:	01-13-TCA.BLANK	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	01-13-97
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	100 %
	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. 198

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

Comments: **QA/QC for samples A893 - A894.**

Analyst

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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:	01-14-97
Laboratory Number:	01-07-TCA.MB	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	Cool	Date Extracted:	01-07-97
Condition:	Cool & Intact	Date Analyzed:	01-13-97
		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	99%
	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. 198

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

Comments: **QA/QC for samples A893 - A894.**

Analyst

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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:	01-14-97
Laboratory Number:	A893	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	Cool	Date Extracted:	01-07-97
Condition:	Cool & Intact	Date Analyzed:	01-13-97
		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 A893 - A894.**

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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:	01-13-97
Laboratory Number:	01-13-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:	01-13-97
		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 A893 - A894.**

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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:	01-14-97
Laboratory Number:	01-07-TBN.MB	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	Cool	Date Extracted:	01-07-97
Condition:	Cool and Intact	Date Analyzed:	01-13-97
		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 A893 - A894.**

Analyst

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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:	01-14-97
Laboratory Number:	A893	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Extracted:	01-07-97
Condition:	N/A	Date Analyzed:	01-13-97
		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 A893 - A894.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Blanks	Date Reported:	01-14-97
Laboratory Number:	N/A	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	01-14-97
Condition:	N/A	Date Extracted:	N/A

Parameter	Instrument Blank (mg/L)	Method Blank (mg/L)	Det. Limit (mg/L)
Arsenic	ND	ND	0.001
Barium	ND	ND	0.01
Cadmium	ND	ND	0.001
Chromium	ND	ND	0.001
Lead	ND	ND	0.001
Mercury	ND	ND	0.001
Selenium	ND	ND	0.001
Silver	ND	ND	0.001

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

Comments: **QA/QC for samples A893 - A894.**

Dean L. Spencer
Analyst

Stacy W Sendler
Review

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ENVIROTECH LABS
PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	01-14-97
Laboratory Number:	A893	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	01-14-97
Condition:	N/A	Date Extracted:	01-07-97

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Percent Difference
Arsenic	**ND**	**ND**	**0.0%**
Barium	**1.72**	**1.70**	**1.2%**
Cadmium	**0.009**	**0.008**	**11.8%**
Chromium	**ND**	**ND**	**0.0%**
Lead	**0.081**	**0.081**	**0.0%**
Mercury	**ND**	**ND**	**0.0%**
Selenium	**ND**	**ND**	**0.0%**
Silver	**ND**	**ND**	**0.0%**

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Maximum Difference
	Trace Metals	**30 %**

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

Comments: **QA/QC for samples A893 - A894.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Spike	Date Reported:	01-14-97
Laboratory Number:	A893	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	01-14-97
Condition:	N/A	Date Extracted:	01-07-97

Parameter	Spike Added (mg/L)	Sample Result (mg/L)	Spiked Sample Result (mg/L)	Percent Recovery
Arsenic	**0.100**	**ND**	**0.099**	**99%**
Barium	**1.00**	**1.72**	**2.70**	**99%**
Cadmium	**0.050**	**0.009**	**0.058**	**98%**
Chromium	**0.050**	**ND**	**0.049**	**98%**
Lead	**0.100**	**0.081**	**0.181**	**100%**
Mercury	**0.025**	**ND**	**0.025**	**100%**
Selenium	**0.100**	**ND**	**0.099**	**99%**
Silver	**0.050**	**ND**	**0.050**	**100%**

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Acceptance Range %
	TCLP Metals	**80 - 120 %**

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

Comments: **QA/QC for samples A893 - A894.**

Analyst

Review

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CHAIN OF CUSTODY RECORD

Client/Project Name: BJ SERVICES 92101

Project Location: YARD 3250 SOUTH SIDE RIVER RD. FARMINGTON NM

Sampler: (Signature) [signature]

Chain of Custody Tape No.:

ANALYSIS/PARAMETERS

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	8020	8010	TCLP W/O PEH	RCRA (REAST., REACT., CORROSIVITY)			Remarks
SEPARATOR WATER DISCHARGE	1/3/97	1016	A892	WATER	2	✓	✓					
WASH BAY	1/3/97	1026	A893	SOIL	1			✓	✓			SLUDGE COMPOSITE
FLOOR DRY SWEEP	1/3/97	1438	A894	SOIL	1			✓	✓			SOURCE: OIL FILTERS + FLOOR DRY COMPOSITE

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	1/3/97	1455	[signature]	1/3/97	1455
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

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

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
Aztec, 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: ☒ Non-Exempt: ☐ 8.25.97 Dann Foust. 13:37	4. Generator Pesco
Verbal Approval Received: Yes ☒ No ☐	5. Originating Site Main Yard
2. Management Facility Destination Envirotech Soil RemediationFac Landfarm #2	6. Transporter Envirotech
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	5680 U.S. Highway 64 Farmington New Mexico 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:

Solids Generated from cleaning and refurbishing production storage tanks, separators, dehydrators and other production equipment.

RECEIVED
AUG 26 1997
OIL CON. DIV.
DIST. 3

Estimated Volume ±40 bbls cy Known Volume (to be entered by the operator at the end of the haul) 39 drums cy

SIGNATURE: Harlan M. Brown
Waste Management FacilityAuthorized Agent
TITLE: Landfarm Manager DATE: 8.25.97

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. (505)632-0615

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 8/27/97

APPROVED BY: Ernie Busch TITLE: Geologist DATE: 8/27/97

Jn: 92142

CERTIFICATE OF WASTE STATUS

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

I, Blake Wallace 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):

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

Name (Original Signature): Blake Wallace

Title: Service Manager

Date: 8-25-97

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
1000 Rio Brazos Road
Aztec, 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

Roger Anders

Form C-13[illegible]
Originated 8/8/9[illegible]

Submit Origin[illegible]
Plus 1 Cop[illegible]
to appropriat[illegible]
District Offic[illegible]

Env JN: 96033-

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator EPNG
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Blanewater Station
2. Management Facility Destination Envirotech Soil RemediationFac. Landfarm #2	6. Transporter ENVIROTECH
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	Portion of S2,SW4 Sec 33, T14N, R13W & Portion of N2, NW4 Sec 4, T13N, R13W

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 w/ used compressor oil @ Blanewater Compressor Station 1/2 mile S. of THOREAU, N.M.

TCLP ATTACHED

RECEIVED AUG 26 1997 OIL CON. DIV. DIST. 3

RECEIVED AUG - 5 1997 OIL CON. DIV. DIST. 3

Estimated Volume 20 cy Known Volume (to be entered by the operator at the end of the haul) 73 cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 8.5.97
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. (505)632-0615

(This space for State Use)

APPROVED BY: [illegible] TITLE: Geologist DATE: 8/5/97

APPROVED BY: TITLE: Env Geo ist DATE: 8/7/97

Printed in Aztec 8/7/97

District I · (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II · (505) 748-1283
811 S. First
Artesia, NM 88210
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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

Env JN: 96033-

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator EPNG
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Bluewater Station
2. Management Facility Destination Envirotech Soil RemediationFac. Landfarm #2	6. Transporter EDVIROTECH
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	Portion of S2, SW4 Sec 33, T14N, R13W & Portion of N2, NW4 Sec 4, T13N, R13W

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 w/ used compressor oil @ Bluewater Compressor Station 1/4 mile S. of THOREAU, N.M.

TCLP ATTACHED

RECEIVED
AUG - 5 1997
OIL CON. DIV.
DIST. 3

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: 8.5.97
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. Foust TITLE: Geologist DATE: 8/5/97

APPROVED BY: _____ TITLE: _____ DATE: _____

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
El Paso Natural Gas Company Bluewater Compressor Sta. P. O. Box 1492 El Paso, TX 79978	Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico

3. Originating Site (name):	Location of the Waste (Street address &/or ULSTR):
Bluewater Compressor Station Portion S/2 SW/4, Sec. 33 T-14-N, R-13-W & Portion N/2 NW/4, Sec. 4, T-13-N, R-13-W Attach list of originating sites as appropriate	1/4 mile S. of Thoreau off of I-40.

4. Source and Description of Waste

Used oil stained soil and gravel.
Used came from natural gas compressors.

I, Richard Duarte, Sr. Compliance Engr. representative for:
(Print Name)
El Paso Natural Gas 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 only the following documentation is attached (check appropriate items):

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

Name (Original Signature): Richard Duarte

Title: Sr. Compliance Engr.

Date: August 1, 1997

SAMPLE KEY

SAMPLE NUMBER: F97-0058 LOCATION: BLUEWATER STATION
MATRIX: SOIL
SAMPLE DESCRIPTION: OIL SPILL AROUND COMPRESSOR ROOM USED OIL TANK
S D CONTINUED:
S D CONTINUED:
SAMPLE TIME: 13:00 SAMPLE DATE: 06/19/97

PARAGON ANALYTICS, INC.
225 Commerce Drive ◆ Fort Collins, CO 80524 ◆ (800) 443-1511 ◆ (970) 490-1511 ◆ FAX (970) 490-1522

July 21, 1997

Mr. Darrell Campbell
El Paso Natural Gas CO.
8645 Railroad Drive
El Paso, TX 79904

RE: Paragon Workorder: 97-06-201
Client Project Name: F97-0087
Client Project Number: Not Submitted

Dear Mr. Campbell:

Two soil samples were received from El Paso Natural Gas Co. on June 20, 1997. The samples were scheduled for TCLP Metals, Ignitability, GC/MS Volatiles GC/MS Semivolatiles, pH, and Reactive Cyanide & Sulfide analysis. The results for these analyses are contained in the enclosed report.

Thank you for your confidence in Paragon Analytics, Inc. Should you have any questions, please call.

Sincerely,

Paragon Analytics, Inc.
Victoria Bayly
Project Manager

VB/jjc
Enclosure: report

Amended COC

El Paso Natural Gas Company

CHAIN OF CUSTODY RECORD

97-06-201

Page 1 of 1

PROJECT NUMBER:

PROJECT NAME: Gallup Complex

SAMPLERS: (Signature) Charles R. Padilla

DATE:

CONTRACT LABORATORY P. O. NUMBER: PARAGON ANALYTICS FORT COLLINS, CO.

LAB ID	DATE	TIME	MATRIX	SAMPLE NUMBER	TOTAL NUMBER OF CONTAINERS	COMPOSITE OR GRAB	TCLP 8270	TCLP 8240	TCLP metals (8)	Corrosivity	Ignitability	Reactivity	REMARKS
-01	6-19-97	0845	SOIL	F970087 -01	2	C	✓	✓	✓	✓	✓	✓	1 bottle headspace free - See bottle labe
-02	6-19-97	1300	SOIL	F970058 -02	2	C	✓	✓	✓	✓	✓	✓	" " " "

COC recvd 7/7/97 - Samples recv

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
Charles R. Padilla	7-1-97 0845	6/20/97 0930			6/20
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED OF LABORATORY BY (Signature)

REQUESTED TURNAROUND TIME: ☐ ROUTINE ☐ RUSH

CARRIER CO.

BILL NO

SAMPLE RECEIPT REMARKS

CHARGE CODE

RESULTS & INVOICES TO:

TRANSMISSION OPERATIONS LABORATORY
EL PASO NATURAL GAS COMPANY
8645 RAILROAD DRIVE
EL PASO, TEXAS 79904

915-759-2229 FAX: 915-759-2335

White - Testing Laboratory Canary - EPNG Lab Pink - Field Sampler

FM-08-0566 (Rev.

Paragon Analytics, Inc. - Fort Collins, Colorado

CONDITION OF SAMPLE UPON RECEIPT

CLIENT: FPNG SHIPPING CONTAINER #: Cooler

WORKORDER NO. 97-06-201 INITIALS: B DATE: 6/20/97

1.	Does this project require special handling according to NEESA, Level 3, or CLP protocols? If yes, complete a. and b. a. Cooler Temperature_____ b. Lot No's._____ c. Airbill Number_____		Yes	No
2.	Are custody seals on the cooler intact? If so, how many_____	N/A	Yes	No
3.	Are custody seals on sample containers intact?	N/A	Yes	No
4.	Is there a Chain of Custody (COC) or other representative documents, letters or shipping memos?		Yes	No
5.	Is the COC complete? Relinquished: Yes ✓ No Requested Analysis: Yes ✓ No	N/A	Yes	No
6.	Is the COC in agreement with the samples received? No. of Samples: Yes ✓ No___ Sample ID's: Yes ✓ No___ Matrix: Yes ✓ No No. of Containers: Yes ✓ No		Yes	No
7.	Are the samples requiring acid preservation preserved correctly?	N/A	Yes	No
8.	Is there enough sample? If so, are they in the proper containers?		Yes	No
9.	Are all samples within holding times for the requested analyses?		Yes	No
10.	Were the sample received on ice?	N/A	Yes	No
11.	Were all sample containers received intact? (not broken or leaking, etc.)		Yes	No
12.	Are samples requiring no headspace, headspace free?	N/A	Yes	No
13.	Do the samples require quarantine?		Yes	No
14.	Do samples require Paragon disposal?		Yes	No
15.	Did the client return any unused bottles?		Yes	No

Describe "NO" items (except No's 1, 13, &14):_____

Was the client contacted? Yes_____ No_____

If yes, Date:_____ Name of person contacted:_____

Describe actions taken or client instructions:_____

Group Leader's Signature:_____ Date:_____

Cooler Temperature: 5°C

FRM 201FC6 (24/1/97)

Paragon Analytics, Inc.

TCLP METALS CASE NARRATIVE

El Paso Natural Gas Co.

Gallup Complex -- F97-0087

Order Number - 9706201

1. This report consists of 2 TCLP samples.
2. The samples were received cool and intact on 06/20/97.
3. The samples were prepared for analysis based on SW-846, 3rd Edition procedures.

   The samples were processed through the TCLP leaching procedure based on method 1311. The leachates were then digested at a 10 fold dilution as follows.

   For analysis by Trace ICP the were digested following method 3010A.

   For analysis by Cold Vapor AA (CVAA) the leachates were digested following method 7470.
4. The leachates were analyzed following SW846 protocols by Trace ICP (Method 6010A) and CVAA (Method 7470). The analysis of silver was done by Trace ICP.
5. All standards and solutions are NIST traceable and were used within their recommended shelf life.
6. The samples were prepared and analyzed within the established hold times.
7. Sample results which are below PAI's standard reporting limits are reported as "ND" on the enclosed report.

All in house quality control procedures were followed, as described below.

8. General quality control procedures.
   - A preparation (method) blank and laboratory control sample were digested and analyzed with the samples in this digestion batch. There were not more than 20 samples in the digestion batch.
   - The preparation (method) blank results associated with this batch were below the reporting limits for the requested analyte. This indicates that no contaminants were introduced to the samples during the digestion procedure.

- The laboratory control sample associated with this batch was within acceptance limits. This indicates complete digestion according to the method.
- All initial and continuing calibration blanks associated with this batch were below the reporting limits for the requested analyte. This indicates a valid calibration and stable instrument conditions.
- All initial and continuing calibration verifications associated with this batch were within acceptance criteria for the requested analyte. This indicates a valid calibration and stable instrument conditions.
- The interference check samples, and high standard readbacks associated with Method 6010A analyses were within acceptance criteria.

9. A sample from another Order Number was used as the matrix QC sample for this batch.

   - A matrix spike and matrix spike duplicate were digested and analyzed with each batch. All acceptance criteria for accuracy were met with the exception of chromium.

     The concentration of chromium in the native sample was greater than 4 times the concentration of matrix spike added during the digestion. When sample concentration is that much greater than the spike added, spike recoveries may not be accurate. The Laboratory Control Sample is included to show that the digestion and analysis were in control.
   - A sample duplicate and spike duplicate were digested and analyzed with each batch. All acceptance criteria for precision were met.
   - A serial dilution was analyzed with each batch. All acceptance criteria were met.

The data contained in the following report have been reviewed and approved by the personnel listed below:

Kim Hamacher — 7/8/97
Kim Hamacher, Senior Inorganic Chemist — Date

SW — 7/8/97
Reviewer's Initials — Date

CERTIFICATION

Paragon Analytics, Inc. certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed.

Paragon Analytics, Inc.

SAMPLE NUMBER(S) CROSS-REFERENCE TABLE

Client Name: El Paso Natural Gas Co.

Client Project ID: Gallup Complex F97-0087

PAI-ID	Client ID	MATRIX	DATE SAMPLED
9706201-1	F97-0087	Soil	06/19/97
9706201-2	F97-0058	Soil	06/19/97

TCLP METALS

Lab Name: Paragon Analytics, Inc.
Client Name: El Paso Natural Gas Co.
Client Project ID: Gallup Comples -- F97-0057
Lab Sample ID: RB 9706201

Sample Matrix: TCLP Leachate

Sample ID

TCLP Blank

Date Collected: N/A
Prep Date: 06/24/97
Date Analyzed: 06/24/97

EPA HW Number	CAS Number	Analyte	Concentration mg/L	Reporting Limit (mg/L)
D004	7440-38-2	Arsenic	ND	0.1
D005	7440-39-3	Barium	ND	1
D006	7440-43-9	Cadmium	ND	0.05
D007	7440-47-3	Chromium	ND	0.1
D008	7439-92-1	Lead	ND	0.03
D009	7439-97-6	Mercury	ND	0.002
D010	7782-49-2	Selenium	ND	0.05
D011	7440-22-4	Silver	ND	0.1

ND = Not detected at or above the reporting limit.

44

TCLP METALS

Lab Name: Paragon Analytics, Inc.
Client Name: El Paso Natural Gas Co.
Client Project ID: Gallup Comples -- F97-0057
Lab Sample ID: 9706201-1

Sample Matrix: TCLP Leachate

Sample ID

F97-0087

Date Collected: 06/19/97
Prep Date: 06/24/97
Date Analyzed: 06/24/97

EPA HW Number	CAS Number	Analyte	Concentration mg/L	Reporting Limit (mg/L)
D004	7440-38-2	Arsenic	ND	0.1
D005	7440-39-3	Barium	1	1
D006	7440-43-9	Cadmium	ND	0.05
D007	7440-47-3	Chromium	ND	0.1
D008	7439-92-1	Lead	0.04	0.03
D009	7439-97-6	Mercury	ND	0.002
D010	7782-49-2	Selenium	ND	0.05
D011	7440-22-4	Silver	ND	0.1

ND = Not detected at or above the reporting limit.

44

TCLP METALS

Sample ID

F97-0058

Lab Name: Paragon Analytics, Inc.
Client Name: El Paso Natural Gas Co.
Client Project ID: Gallup Comples -- F97-0057
Lab Sample ID: 9706201-2

Sample Matrix: TCLP Leachate

Date Collected: 06/19/97
Prep Date: 06/24/97
Date Analyzed: 06/24/97

EPA HW Number	CAS Number	Analyte	Concentration mg/L	Reporting Limit (mg/L)
D004	7440-38-2	Arsenic	ND	0.1
D005	7440-39-3	Barium	2	1
D006	7440-43-9	Cadmium	ND	0.05
D007	7440-47-3	Chromium	ND	0.1
D008	7439-92-1	Lead	ND	0.03
D009	7439-97-6	Mercury	ND	0.002
D010	7782-49-2	Selenium	ND	0.05
D011	7440-22-4	Silver	ND	0.1

ND = Not detected at or above the reporting limit.

TCLP METALS
MATRIX SPIKE

Sample ID

In House

Lab Name: Paragon Analytics, Inc.
Client Name: El Paso Natural Gas Co.
Lab Sample ID: 9706193-1

Prep Date: 06/24/97
Date Analyzed: 06/24/97

Sample Matrix: TCLP Leachate

Analyte	Spike Added mg/L	Sample Conc. mg/L	MS Conc. mg/L	% Rec (limits 80-120%)	Flags
Arsenic	20.0	< 0.1	20.7	104	
Barium	20	< 1	19	95	
Cadmium	0.50	0.05	0.55	100	
Chromium	2.0	10.0	12.0	100	See note
Lead	5.00	0.05	5.03	100	
Mercury	0.020	< 0.002	0.020	100	
Selenium	20.0	0.09	20.7	103	
Silver	2.0	< 0.1	2.0	100	

Analyte	MSD Conc. mg/L	MSD % Rec (limits 80-120%)	Relative % Difference (limits 0-20%)	Flags
Arsenic	20.9	105	1	
Barium	19	95	0	
Cadmium	0.56	102	2	
Chromium	12.0	100	0	See note
Lead	5.10	101	1	
Mercury	0.020	100	0	
Selenium	20.7	103	0	
Silver	2.0	100	0	

Sample results shown on spike page(s) may differ slightly from results on sample page(s).
Where sample concentration is sufficiently high, three significant figures are used to determine spike recoveries and relative percent difference.
Note: Due to the large concentration of analyte in the sample, matrix spike recoveries may not be accurate. The Laboratory Control Sample (LCS) is included on a separate page to show that the digestion and analysis were in control.

HH

TCLP METALS
LABORATORY CONTROL SAMPLE

Lab Name: Paragon Analytics, Inc.
Client Name: El Paso Natural Gas Co.
Client Project ID: Gallup Comples -- F97-0057
Order Number: 9706201 Date Analyzed: 06/24/97

Analyte	LCS Result mg/L	LCS True Value mg/L	LCS % Recovery	Limits
Chromium	2.1	2.0	105	80 - 120%

PARAGON ANALYTICS, INC.

QUALITY ASSURANCE DATA REVIEW

Date: 06/24/97

PAI Workorder: 97-06-201 Analysis: 1010

The data contained in the following report have been reviewed and approved by the personnel listed below:

Wesley S. Mayfield

Wesley S. Mayfield
Senior Technician

CERTIFICATION

Paragon Analytics, Inc. certifies that the analyses reported herein are true, complete, and correct within the limits of the methods employed

A case narrative ____ is X is not included with this report.

IGNITABILITY

Method 1010

Lab Name: Paragon Analytics, Inc.
Client Name: El Paso Natural Gas Co.
Client Project ID: Gallup Complex F97-0087
Lab Workorder Number: 97-06-201

Date Collected: 06/19/97
Date Analyzed: 06/24/97
Sample Matrix: Soil

Sample ID	Lab Sample ID	Ignitable At (degree C)	Non-Ignitable Below (degree C)
F97-0087	97-06-201-01		96.5
F97-0058	97-06-201-02		96.5

Paragon Analytics, Inc.

GC/MS Volatiles Case Narrative

El Paso Natural Gas Co.

Gallup Complex/F97-0087

Order Number - 9706201

1. This report consists of 2 soil samples received by Paragon on June 20, 1997.

2. These samples were prepared and analyzed according to SW-846, 3rd Edition procedures. Specifically, the sample was leached using the TCLP ZHE extraction procedure specified in Method 1311. The TCLP leachate was then analyzed by purging the sample using purge and trap procedures based on Method 5030.

3. The samples were analyzed using GC/MS with a RTX-624 capillary column according to protocols based on SW-846 Method 8260. All positive results were quantitated with the average response of the initial calibration standards using the internal standard technique. The identification of positive results was achieved by a comparison of the retention time and mass spectrum of the sample versus the daily calibration standard.

4. All samples were analyzed within the established holding times.

5. The method blank associated with this project was below the reporting limits for all analytes.

6. All matrix spike criteria were met with the following exceptions:

   Spike Compound
   Methyl ethyl keytone

   The recoveries of this compound in the blank spike and blank spike duplicate were within control limits, which demonstrated the spike outlier in the matrix spike was due to matrix effects, so no further action is needed. Blank spike and blank spike duplicate results are included.

7. All blank spike and blank spike duplicate recoveries and RPDs were within the acceptance criteria.

8. All surrogate recoveries were within acceptance criteria.

9. All internal standard recoveries were within acceptance criteria.

10. All initial and continuing calibration criteria were within acceptance criteria. Method 8260 states any compound exceeding 15% RSD is to be quantitated with a higher order curve. Several compounds from the curve were within the acceptance limit but exceeded the 15% RSD criteria and should be analyzed with a higher curve such as quadratic. We quantitated these compounds using the average response factor due to a software programming problem associated with Hewlett-Packard MSDs. The manufacturer is now aware of the problem and is working on a solution.

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, Paragon Analytics, Inc. certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed.

G. Brook — 6-29-97

Gary R. Brook — Date
GC/MS Manager

Reviewer's Initials — 6-25-97 Date

TCLP VOLATILE ORGANICS

Method 8260

Sample ID

TCLP Reagent Blank

Lab Name: Paragon Analytics, Inc.
Client Name: El Paso Natural Gas Co.
Client Project ID: Gallup Complex/F97-0087
Lab Sample ID: TCLPRB1 06-23-97

Date Collected: N/A
Date Extracted: 06-23-97
Date Analyzed: 06-24-97

Sample Matrix: TCLP Leachate
Sample Volume: 1.0 mL

EPA HW Number	Analyte	CAS Number	Result (mg/L)	Reporting Limit (mg/L)
D043	Vinyl chloride	75-01-4	ND	0.05
D029	1,1-Dichloroethene	75-35-4	ND	0.05
D022	Chloroform	67-66-3	ND	0.05
D028	1,2-Dichloroethane	107-06-2	ND	0.05
D035	Methyl ethyl ketone	78-93-3	ND	0.05
D019	Carbon tetrachloride	56-23-5	ND	0.05
D040	Trichloroethene	79-01-6	ND	0.05
D018	Benzene	71-43-2	ND	0.05
D039	Tetrachloroethene	127-18-4	ND	0.05
D021	Chlorobenzene	108-90-7	ND	0.05

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
Dibromofluoromethane	102	86 - 118
Toluene-d8	103	88 - 110
Bromofluorobenzene	99	86 - 115

ND = Not Detected

TCLP VOLATILE ORGANICS
Method 8260

Sample ID

Reagent Blank

Lab Name: Paragon Analytics, Inc.
Client Name: El Paso Natural Gas Co.
Client Project ID: Gallup Complex/F97-0087
Lab Sample ID: VBLK03 06-24-97

Date Collected: N/A
Date Extracted: N/A
Date Analyzed: 06-24-97

Sample Matrix: Water
Sample Volume: 5 mL

EPA HW Number	Analyte	CAS Number	Result (mg/L)	Reporting Limit (mg/L)
D043	Vinyl chloride	75-01-4	ND	0.01
D029	1,1-Dichloroethene	75-35-4	ND	0.01
D022	Chloroform	67-66-3	ND	0.01
D028	1,2-Dichloroethane	107-06-2	ND	0.01
D035	Methyl ethyl ketone	78-93-3	ND	0.01
D019	Carbon tetrachloride	56-23-5	ND	0.01
D040	Trichloroethene	79-01-6	ND	0.01
D018	Benzene	71-43-2	ND	0.01
D039	Tetrachloroethene	127-18-4	ND	0.01
D021	Chlorobenzene	108-90-7	ND	0.01

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
Dibromofluoromethane	96	86 - 118
Toluene-d8	104	88 - 110
Bromofluorobenzene	101	86 - 115

ND = Not Detected

TCLP VOLATILE ORGANICS

Method 8260

Sample ID

F97-0087

Lab Name: Paragon Analytics, Inc.
Client Name: El Paso Natural Gas Co.
Client Project ID: Gallup Complex/F97-0087
Lab Sample ID: 9706201-1DL5

Date Collected: 06-19-97
Date Extracted: 06-23-97
Date Analyzed: 06-24-97

Sample Matrix: TCLP Leachate
Sample Volume: 1.0 mL

EPA HW Number	Analyte	CAS Number	Result (mg/L)	Reporting Limit (mg/L)
D043	Vinyl chloride	75-01-4	ND	0.05
D029	1,1-Dichloroethene	75-35-4	ND	0.05
D022	Chloroform	67-66-3	ND	0.05
D028	1,2-Dichloroethane	107-06-2	ND	0.05
D035	Methyl ethyl ketone	78-93-3	ND	0.05
D019	Carbon tetrachloride	56-23-5	ND	0.05
D040	Trichloroethene	79-01-6	ND	0.05
D018	Benzene	71-43-2	ND	0.05
D039	Tetrachloroethene	127-18-4	ND	0.05
D021	Chlorobenzene	108-90-7	ND	0.05

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
Dibromofluoromethane	105	86 - 118
Toluene-d8	96	88 - 110
Bromofluorobenzene	99	86 - 115

ND = Not Detected

TCLP VOLATILE ORGANICS
Method 8260

Sample ID

F97-0068

Lab Name: Paragon Analytics, Inc.
Client Name: El Paso Natural Gas Co.
Client Project ID: Gallup Complex/F97-0087
Lab Sample ID: 9706201-2DL5

Date Collected: 06-19-97
Date Extracted: 06-23-97
Date Analyzed: 06-24-97

Sample Matrix: TCLP Leachate
Sample Volume: 1.0 mL

EPA HW Number	Analyte	CAS Number	Result (mg/L)	Reporting Limit (mg/L)
D043	Vinyl chloride	75-01-4	ND	0.05
D029	1,1-Dichloroethene	75-35-4	ND	0.05
D022	Chloroform	67-66-3	ND	0.05
D028	1,2-Dichloroethane	107-06-2	ND	0.05
D035	Methyl ethyl ketone	78-93-3	ND	0.05
D019	Carbon tetrachloride	56-23-5	ND	0.05
D040	Trichloroethene	79-01-6	ND	0.05
D018	Benzene	71-43-2	ND	0.05
D039	Tetrachloroethene	127-18-4	ND	0.05
D021	Chlorobenzene	108-90-7	ND	0.05

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
Dibromofluoromethane	104	86 - 118
Toluene-d8	102	88 - 110
Bromofluorobenzene	97	86 - 115

ND = Not Detected

TCLP VOLATILE MATRIX SPIKE RECOVERY

Method 8260

Sample ID

In House

Lab Name: Paragon Analytics, Inc.
Client Name: El Paso Natural Gas Co.
Client Project ID: Gallup Complex/F97-0087
Lab Sample ID: 9706193-2DL5MS

Date Collected: 06-18-97
Date Extracted: 06-23-97
Date Analyzed: 06-24-97

Sample Matrix: TCLP Leachate
Sample Volume: 1.0 mL

Analyte	Spike Added (mg/L)	Sample Concentration (mg/L)	MS Concentration (mg/L)	MS % Rec	QC Limit Recovery
Vinyl chloride	0.100	ND	0.090	90	49 - 132
1,1-Dichloroethene	0.100	ND	0.096	96	65 - 126
Chloroform	0.100	ND	0.096	96	68 - 123
1,2-Dichloroethane	0.100	ND	0.103	103	61 - 122
Methyl ethyl ketone	0.100	0.058	0.375	317 *	26 - 156
Carbon tetrachloride	0.100	ND	0.101	101	80 - 113
Trichloroethene	0.100	ND	0.095	95	81 - 108
Benzene	0.100	ND	0.097	97	60 - 129
Tetrachloroethene	0.100	ND	0.100	100	75 - 116
Chlorobenzene	0.100	ND	0.103	103	81 - 107

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
Dibromofluoromethane	101	86 - 118
Toluene-d8	103	88 - 110
Bromofluorobenzene	99	86 - 115

ND = Not Detected
* = Outside limits

TCLP VOLATILE BLANK SPIKE RECOVERY
Method 8260

Lab Name: Paragon Analytics, Inc.
Client Name: El Paso Natural Gas Co.
Client Project ID: Gallup Complex/F97-0087
Lab Sample ID: BS5, 6 06-24-97

Sample Matrix: Water
Sample Volume: 5 mL

Sample ID
Blank Spike

Date Collected: N/A
Date Extracted: 06-23-97
Date Analyzed: 06-24-97

Analyte	Spike Added (mg/L)	Sample Concentration (mg/L)	BS Concentration (mg/L)	BS % Rec	QC Limit Recovery
Vinyl chloride	0.020	N/A	0.020	98	49 - 132
1,1-Dichloroethene	0.020	N/A	0.020	102	65 - 126
Chloroform	0.020	N/A	0.021	107	68 - 123
1,2-Dichloroethane	0.020	N/A	0.021	103	61 - 122
Methyl ethyl ketone	0.020	N/A	0.021	107	26 - 156
Carbon tetrachloride	0.020	N/A	0.021	105	80 - 113
Trichloroethene	0.020	N/A	0.021	104	81 - 108
Benzene	0.020	N/A	0.020	102	60 - 129
Tetrachloroethene	0.020	N/A	0.021	104	75 - 116
Chlorobenzene	0.020	N/A	0.021	106	81 - 107

Compound	Spike Added (µg/L)	BS2 Concentration (µg/L)	BS2 % REC	RPD	QC Limit REC
Vinyl chloride	0.020	0.021	103	5	49-132
1,1-Dichloroethene	0.020	0.019	95	7	65-126
Chloroform	0.020	0.019	96	10	68-130
1,2-Dichloroethene	0.020	0.020	99	4	61-122
Methyl ethyl ketone	0.020	0.021	105	2	26-156
Carbon tetrachloride	0.020	0.020	99	6	80-113
Trichloroethene	0.020	0.020	99	5	81-108
Benzene	0.020	0.019	97	5	60-129
Tetrachloroethene	0.020	0.020	99	5	75-116
Chlorobenzene	0.020	0.020	100	6	81-107

SURROGATE RECOVERIES

Analyte	BS1 % Recovery	BS2 % Recovery	% Rec Limits
Dibromofluoromethane	100	100	86 - 118
Toluene-d8	101	102	88 - 110
Bromofluorobenzene	98	99	86 - 115

N/A = Non Applicable

Paragon Analytics, Inc.

GC/MS Semivolatiles Case Narrative

El Paso Natural Gas Co.

Gallup Complex / F97-0087

Order Number - 9706201

1. This report consists of 2 soil samples received by Paragon on June 20, 1997.

2. These samples were prepared and analyzed according to SW-846, 3rd Edition procedures. Specifically, the soil samples were tumbled by Method 1311. This TCLP leachate was then extracted using continuous liquid-liquid extractors, based on Method 3520.

3. The samples were analyzed using GC/MS with a DB-5.625 capillary column according to protocols based on SW-846 Method 8270B for TCLP compounds only. All positive results were quantitated against the initial calibration standards using the internal standard technique. The identification of positive results was achieved by a comparison of the retention time and mass spectrum of the sample versus the daily calibration standard.

4. All samples were analyzed within the established holding times.

5. The method blank associated with this project was below the reporting limits for all analytes.

6. The matrix spike was performed on an in house sample. All matrix spike recoveries were within control limits.

7. All blank spike and blank spike duplicate recoveries were within the acceptance criteria with the following exceptions:

Spike Compound	Sample	Event
Hexachloroethane	BSD	recovered high

8. All surrogate recoveries were within acceptable limits with the following exceptions:

Sample	Surrogate	Event
1	Terphenyl-D14	recovered high

9. The last two internal standards had raw areas less than 50 % of the continuing calibration standard in the field samples. There are no TCLP compounds which quantitate against these two internal standards. The data was not affected.

10. All initial calibration criteria were within acceptance criteria. Method 8270B states any compound exceeding 15% RSD is to be quantitated with a higher order curve. Several compounds from the curve that was analyzed on June 27, 1997, were within the acceptance limit but exceeded the 15% RSD criteria and should be analyzed with a higher curve such as quadratic. We quantitated these compounds using the average response factor due to a software programming problem associated with Hewlett-Packard MSDs. The manufacturer is now aware of the problem and is working on a solution.

10. All continuing calibration criteria were within acceptance criteria

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, Paragon Analytics, Inc. certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed.

Ann Biegelsen — 7.7.97
Organic Chemist — Date

Reviewer's Initials — 7-7-97
Date

Paragon Analytics, Inc.

SAMPLE NUMBER(S) CROSS-REFERENCE TABLE

Client Name: El Paso Natural Gas Co.

Client Project ID: Gallup Complex F97-0087

PAI-ID	Client ID	MATRIX	DATE SAMPLED
9706201-1	F97-0087	Soil	06/19/97
9706201-2	F97-0058	Soil	06/19/97

TCLP SEMIVOLATILE ORGANICS
Modified Method 8270

Sample ID

TCLP Blank

Lab Name: Paragon Analytics, Inc.
Client Name: El Paso Natural Gas Co.
Client Project: Galllup Complex
Lab Sample ID.: RB1 06-25-97

Sample Matrix: TCLP Leachate
Cleanup: None

Date Collected: N/A
Date Extracted: 06-25-97
Date Analyzed: 06-30-97
Sample Volume: 100 mL
Final Volume: 1 mL
Dilution Factor: 1

EPA HW Number	Analyte	CAS Number	Result (mg/L)	Reporting Limit (mg/L)
D023	o-Cresol	95-48-7	ND	0.1
D024	m-Cresol	108-39-4	ND	0.1
D025	p-Cresol	106-44-5	ND	0.1
D026	Total o,m,p-Cresol		ND	0.2
D027	1,4-Dichlorobenzene	106-46-7	ND	0.1
D030	2,4-Dinitrotoluene	121-14-2	ND	0.1
D032	Hexachlorobenzene	118-74-1	ND	0.1
D033	Hexachlorobutadiene	87-68-3	ND	0.1
D034	Hexachloroethane	67-72-1	ND	0.1
D036	Nitrobenzene	98-95-3	ND	0.1
D037	Pentachlorophenol	87-86-5	ND	0.5
D038	Pyridine	110-86-1	ND	0.1
D041	2,4,5-Trichlorophenol	95-95-4	ND	0.5
D042	2,4,6-Trichlorophenol	88-06-2	ND	0.1

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	68	21-110
Phenol-d5	76	15-104
Nitrobenzene-d5	78	34-111
2-Fluorobiphenyl	72	21-106
2,4,6-Tribromophenol	90	23-100
Terphenyl-d14	70	33-111

ND = Not detected

TCLP SEMIVOLATILE ORGANICS
Modified Method 8270

Sample ID

F97-0087

Lab Name: Paragon Analytics, Inc.
Client Name: El Paso Natural Gas Co.
Client Project: Galllup Complex
Lab Sample ID.: 9706201-1

Sample Matrix: TCLP Leachate
Cleanup: None

Date Collected: 06-19-97
Date Extracted: 06-25-97
Date Analyzed: 06-30-97
Sample Volume: 100 mL
Final Volume: 1 mL
Dilution Factor: 1

EPA HW Number	Analyte	CAS Number	Result (mg/L)	Reporting Limit (mg/L)
D023	o-Cresol	95-48-7	ND	0.1
D024	m-Cresol	108-39-4	ND	0.1
D025	p-Cresol	106-44-5	ND	0.1
D026	Total o,m,p-Cresol		ND	0.2
D027	1,4-Dichlorobenzene	106-46-7	ND	0.1
D030	2,4-Dinitrotoluene	121-14-2	ND	0.1
D032	Hexachlorobenzene	118-74-1	ND	0.1
D033	Hexachlorobutadiene	87-68-3	ND	0.1
D034	Hexachloroethane	67-72-1	ND	0.1
D036	Nitrobenzene	98-95-3	ND	0.1
D037	Pentachlorophenol	87-86-5	ND	0.5
D038	Pyridine	110-86-1	ND	0.1
D041	2,4,5-Trichlorophenol	95-95-4	ND	0.5
D042	2,4,6-Trichlorophenol	88-06-2	ND	0.1

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	84	21-110
Phenol-d5	99	15-104
Nitrobenzene-d5	96	34-111
2-Fluorobiphenyl	88	21-106
2,4,6-Tribromophenol	94	23-100
Terphenyl-d14	112 *	33-111

ND = Not detected
* = Outside limits

TCLP SEMIVOLATILE ORGANICS
Modified Method 8270

Sample ID

F97-0058

Lab Name: Paragon Analytics, Inc.
Client Name: El Paso Natural Gas Co.
Client Project: Galllup Complex
Lab Sample ID.: 9706201-2

Sample Matrix: TCLP Leachate
Cleanup: None

Date Collected: 06-19-97
Date Extracted: 06-25-97
Date Analyzed: 06-30-97
Sample Volume: 100 mL
Final Volume: 1 mL
Dilution Factor: 1

EPA HW Number	Analyte	CAS Number	Result (mg/L)	Reporting Limit (mg/L)
D023	o-Cresol	95-48-7	ND	0.1
D024	m-Cresol	108-39-4	ND	0.1
D025	p-Cresol	106-44-5	ND	0.1
D026	Total o,m,p-Cresol		ND	0.2
D027	1,4-Dichlorobenzene	106-46-7	ND	0.1
D030	2,4-Dinitrotoluene	121-14-2	ND	0.1
D032	Hexachlorobenzene	118-74-1	ND	0.1
D033	Hexachlorobutadiene	87-68-3	ND	0.1
D034	Hexachloroethane	67-72-1	ND	0.1
D036	Nitrobenzene	98-95-3	ND	0.1
D037	Pentachlorophenol	87-86-5	ND	0.5
D038	Pyridine	110-86-1	ND	0.1
D041	2,4,5-Trichlorophenol	95-95-4	ND	0.5
D042	2,4,6-Trichlorophenol	88-06-2	ND	0.1

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	87	21-110
Phenol-d5	99	15-104
Nitrobenzene-d5	98	34-111
2-Fluorobiphenyl	87	21-106
2,4,6-Tribromophenol	85	23-100
Terphenyl-d14	93	33-111

ND = Not detected

TCLP SEMIVOLATILE ORGANICS BLANK SPIKE

Modified Method 8270

Sample ID

Blank Spike

Lab Name: Paragon Analytics, Inc.
Client Name: El Paso Natural Gas Co.
Client Project: Galllup Complex
Lab Sample ID: BS1 06-25-97

Sample Matrix: TCLP Leachate
Cleanup: None

Date Collected: N/A
Date Extracted: 06-25-97
Date Analyzed: 06-30-97
Sample Volume: 100 mL
Final Volume: 1 mL
Dilution Factor: 1

Analyte	Spike Added (mg/L)	Sample Concentration (mg/L)	BS Concentration (mg/L)	BS % Rec	QC Limit Recovery
Pyridine	0.50	N/A	0.266	53	D - 83
1,4-Dichlorobenzene	0.50	N/A	0.423	85	12 - 88
2-Methylphenol	1.00	N/A	0.864	86	21 - 97
3 and 4-Methylphenol	2.00	N/A	1.674	84	29 - 92
Hexachloroethane	0.50	N/A	0.439	88 *	18 - 83
Nitrobenzene	0.50	N/A	0.509	102	14 - 105
Hexachlorobutadiene	0.50	N/A	0.382	76	16 - 82
2,4,6-Trichlorophenol	1.00	N/A	0.840	84	24 - 84
2,4,5-Trichlorophenol	1.00	N/A	0.938	94	19 - 96
2,4-Dinitrotoluene	0.50	N/A	0.436	87	D - 104
Hexachlorobenzene	0.50	N/A	0.349	70	22 - 101
Pentachlorophenol	1.00	N/A	0.880	88	22 - 111

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	94	21-110
Phenol-d5	102	15-104
Nitrobenzene-d5	101	34-111
2-Fluorobiphenyl	98	21-106
2,4,6-Tribromophenol	100	23-100
Terphenyl-d14	82	33-111

N/A = Not applicable
* = Outside limits

TCLP SEMIVOLATILE ORGANICS BLANK SPIKE

Modified Method 8270

Sample ID

Blank Spike

Lab Name: Paragon Analytics, Inc.
Client Name: El Paso Natural Gas Co.
Client Project: Galllup Complex
Lab Sample ID: BS2 06-25-97

Sample Matrix: TCLP Leachate
Cleanup: None

Date Collected: N/A
Date Extracted: 06-25-97
Date Analyzed: 06-30-97
Sample Volume: 100 mL
Final Volume: 1 mL
Dilution Factor: 1

Analyte	Spike Added (mg/L)	Sample Concentration (mg/L)	BS Concentration (mg/L)	BS % Rec	QC Limit Recovery
Pyridine	0.50	N/A	0.309	62	D - 83
1,4-Dichlorobenzene	0.50	N/A	0.395	79	12 - 88
2-Methylphenol	1.00	N/A	0.810	81	21 - 97
3 and 4-Methylphenol	2.00	N/A	1.548	77	29 - 92
Hexachloroethane	0.50	N/A	0.383	77	18 - 83
Nitrobenzene	0.50	N/A	0.470	94	14 - 105
Hexachlorobutadiene	0.50	N/A	0.355	71	16 - 82
2,4,6-Trichlorophenol	1.00	N/A	0.772	77	24 - 84
2,4,5-Trichlorophenol	1.00	N/A	0.849	85	19 - 96
2,4-Dinitrotoluene	0.50	N/A	0.407	81	D - 104
Hexachlorobenzene	0.50	N/A	0.325	65	22 - 101
Pentachlorophenol	1.00	N/A	0.808	81	22 - 111

SURROGATE RECOVERIES

Analyte	% Recovery	% Rec Limits
2-Fluorophenol	82	21-110
Phenol-d5	91	15-104
Nitrobenzene-d5	88	34-111
2-Fluorobiphenyl	85	21-106
2,4,6-Tribromophenol	87	23-100
Terphenyl-d14	77	33-111

N/A = Not applicable

Paragon Analytics, Inc.

pH Analysis Case Narrative

El Paso Natural Gas Co.

Gallup Complex -- F97-0087

Order Number - 9706201

1. This report consists of 2 soil samples.
2. Samples were received cool and intact on 06/20/97.
3. The samples were prepared for analysis based on SW-846, 3rd Edition procedures. Specifically, the soil samples were analyzed following method 9045C.
4. All standards and solutions were used within their recommended shelf life.

All in house quality control procedures were followed, as described below.

5. General quality control procedures.
   - All initial and continuing calibration verifications associated with this batch were within acceptance criteria for the requested analyte. This indicates a valid calibration and stable instrument conditions.
6. A sample from this Order Number was used for the matrix QC samples for this batch.
   - A duplicate was prepared and analyzed with this batch. All acceptance criteria were met.

The data contained in the following report have been reviewed and approved by the personnel listed below:

Krista Mobley	7-2-97
Krista Mobley Inorganic Technician	Date
SW	7/2/97
Reviewer's Initials	Date

CERTIFICATION

Paragon Analytics, Inc. certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed.

Paragon Analytics, Inc.

SAMPLE NUMBER(S) CROSS-REFERENCE TABLE

Client Name: El Paso Natural Gas Co.

Client Project ID: Gallup Complex F97-0087

PAI-ID	Client ID	MATRIX	DATE SAMPLED
9706201-1	F97-0087	Soil	06/19/97
9706201-2	F97-0058	Soil	06/19/97

pH*

Method 9045B

Lab Name: Paragon Analytics, Inc.
Client Name: El Paso Natural Gas Co.
Client Project ID: Gallup Complex -- F97-0057
Lab Workorder Number: 9706201

Date Collected: 06/19/97
Date Analyzed: 06/26/97
Sample Matrix: Soil

Sample ID	Lab Sample ID	pH
F97-0087	9706201-1	7.0
F97-0058	9706201-2	8.4

* Soil pH measured in water

PARAGON
ANALYTICS, INC.
AN EMPLOYEE OWNED SMALL BUSINESS

QUALITY ASSURANCE
DATA REVIEW

Date: July 21, 1997

Paragon Workorder: 97-06-201 Analysis: General Chemistry Analysis

The data contained in the following report have been reviewed and approved by the personnel listed below:

Victoria L. Bayly
Project Manager

CERTIFICATION

Paragon Analytics, Inc. certifies that the analyses reported herein are true, complete, and correct within the limits of the methods employed.

A case narrative ___ is __XX__ is not included with this report.

REACTIVE CYANIDE & SULFIDE
Method 7.3.3.2/3 and 7.3.4.2/3

Lab Name: Paragon Analytics, Inc.

Client Name: El Paso Natural Gas

Client Project ID: Gallup Complex/F97-0087

Lab Workorder Number: 97-06-201

Date Collected: 6/19/97

Date Analyzed: 7/17/97, 7/18/97

Sample Matrix: Soil

Sample ID	Lab Sample ID	CYANIDE (ppm)	SULFIDE (ppm)
Detection Limit		0.3	10
Blank	N/A	ND	ND
F97-0087	97-06-201-01	ND	ND
F97-0058	97-06-201-02	ND	ND

*Values are reported in total releasable compounds (mg/Kg)

N/A = Not Applicable
ND = Not Detected

INORGANICS LABORATORY CONTROL SAMPLE

Analyte	Analysis Date	LCS True Value (ppm)	LCS Conc Found (ppm)	Confidence Interval (ppm)
Reactive Cyanide	7/17/97	0.307	0.306	0.276 - 0.338

All other associated quality control results were acceptable.

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
1000 Rio Brazos Road
Aztec, 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
Origin 8/8

Submit Orig
Plus 1 C
to appropri
District Off

JUL 30 1997

Env JN: 97033-02

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Dowell-Schlumberger
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Main Yard - Bulk Plant
2. Management Facility Destination Envirotech Soil Remediation Fac. Landfarm #2	6. Transporter Envirotech
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	3106 Bloomfield Hwy Farmington, NM. 87410

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 by hydraulic oil leak @ valve on slurry Gel mixer.

RECEIVED
JUL 30 1997
Environmental Bureau
Oil Conservation Division

~~RECEIVED~~
~~MAY 20 1997~~
~~Environmental Bureau~~
~~Oil Conservation Division~~

RECEIVED
AUG - 7 1997
OIL CON. DIV.
DIST. 3

RECEIVED
JUL 29 1997
OIL CON. DIV.
DIST. 3

Estimated Volume _____ cy Known Volume (to be entered by the operator at the end of the haul) 18 cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 7.28.97
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. Foust TITLE: Geologist DATE: 7/29/97

APPROVED BY: Martyne J. Kieling TITLE: Env Geologist DATE: 7/30/97

Printed in Aztec 8/14/97

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
1000 Rio Brazos Road
Aztec, 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: 97033-02

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Dowell - Schlumberger
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Main Yard - Bulk Plant
2. Management Facility Destination Envirotech Soil Remediation Fac Landfarm #2	6. Transporter Envirotech
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	3106 Bloomfield Hwy Farmington, NM. 87410

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 by Hydraulic Oil leak @ valve on slurry Gel mixer.

RECEIVED
JUL 29 1997
OIL CON. DIV.
DIST. 3

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: 7.28.97
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. Foust TITLE: Geologist DATE: 7/29/97

APPROVED BY: _____ TITLE: _____ DATE: _____

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
Dowell Schlumberger 3106 Bloomfield Hwy. Farmington, New Mexico	Enviotech Soil Remediation Facility Land Farm #2 Hill Top, New Mexico.
3. Originating Site (name): SAA Attach list of originating sites as appropriate	**Location of the Waste (Street address &/or ULSTR):** Near Acid Rack / Bulk Plant Hydraulic Leak @ slurry Gel Mixer.
4. Source and Description of Waste Soil Contaminated by hydraulic oil from a value leak on the slurry gel mixer.	

I, Ray Espinoza (Print Name) representative for:

Dowell Schlumberger 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): Ray Espinoza

Title: HSE

Date: 7-29-97

RECEIVED
JUL 29 1997
OIL CON. DIV.
DIST. 3

Generator Dowell Schlumberger

CERTIFICATE OF WASTE STATUS
OILFIELD NON-EXEMPT WASTE MATERIAL

Originating Location: 3106 Bloomfield Highway - Farmington N.M.

Source: Hydraulic tank Valve leak - Slurry Gel Mixer

Disposal Location: Envirotech Soil Remediation Facility, (NMED) Hilltop, New Mexico

"As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt oilfield production waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, to verify the nature as non-hazardous. I further certify that to my knowledge no "hazardous or listed waste" pursuant to the provisions of 40 CFR, part 261, Subparts C and D, has been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, section 261.3(b)."

I, the undersigned, as the agent for _____ concur with the status of the waste from the subject site.

Name Ray Espinoza
Title/Agency HSE
Address 3106 Bloomfield Highway
Signature Ray Espinoza
Date July 9 1997

ENVIROTECH INC.
PRACTICAL SOLUTIONS FOR A BETTER TOMORROW
5796 U.S. Highway 64-3014 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

SUSPECTED HAZARDOUS WASTE ANALYSIS

Client:	Dowell Schlumberger	Project #:	97033-02
Sample ID:	Hydraulic Oil Spill	Date Reported:	07-02-97
Lab ID#:	B504	Date Sampled:	06-25-97
Sample Matrix:	Soil	Date Received:	06-25-97
Preservative:	Cool	Date Analyzed:	06-30-97
Condition:	Cool & Intact	Chain of Custody:	5277

Parameter	Result	
IGNITABILITY:	**Negative**	
CORROSIVITY:	**Negative**	**pH = 6.63**
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: **Main Yard Near Acid Rack.**

Dennis L. Ogden
Analyst

Stacy W Sendler
Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	Dowell Schlumberger	Project #:	97033-02
Sample ID:	Hydraulic Oil Spill	Date Reported:	07-02-97
Laboratory Number:	B504	Date Sampled:	06-25-97
Chain of Custody:	5277	Date Received:	06-25-97
Sample Matrix:	Soil	Date Analyzed:	07-02-97
Preservative:	Cool	Date Extracted:	06-30-97
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
Arsenic	ND	0.001	5.00
Barium	0.68	0.01	100
Cadmium	0.005	0.001	1.00
Chromium	ND	0.001	5.00
Lead	0.060	0.001	5.00
Mercury	ND	0.001	0.200
Selenium	ND	0.001	1.00
Silver	ND	0.001	5.0

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

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

Comments: **Main Yard Near Acid Rack.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

QUALITY ASSURANCE / QUALITY CONTROL

DOCUMENTATION

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Blanks	Date Reported:	07-02-97
Laboratory Number:	N/A	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	07-02-97
Condition:	N/A	Date Extracted:	N/A

Parameter	Instrument Blank (mg/L)	Method Blank (mg/L)	Det. Limit (mg/L)
Arsenic	**ND**	**ND**	**0.001**
Barium	**ND**	**ND**	**0.01**
Cadmium	**ND**	**ND**	**0.001**
Chromium	**ND**	**ND**	**0.001**
Lead	**ND**	**ND**	**0.001**
Mercury	**ND**	**ND**	**0.001**
Selenium	**ND**	**ND**	**0.001**
Silver	**ND**	**ND**	**0.001**

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

Comments: **QA/QC for sample B504.**

Analyst

Review

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ENV RO' 'ECH LABS

RACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	07-02-97
Laboratory Number:	B504	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	07-02-97
Condition:	N/A	Date Extracted:	06-30-97

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Percent Difference
Arsenic	**ND**	**ND**	**0.0%**
Barium	**0.68**	**0.69**	**1.5%**
Cadmium	**0.005**	**0.005**	**0.0%**
Chromium	**ND**	**ND**	**0.0%**
Lead	**0.060**	**0.060**	**0.0%**
Mercury	**ND**	**ND**	**0.0%**
Selenium	**ND**	**ND**	**0.0%**
Silver	**ND**	**ND**	**0.0%**

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Maximum Difference
	Trace Metals	**30 %**

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

Comments: **QA/QC for sample B504.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Spike	Date Reported:	07-02-97
Laboratory Number:	B504	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	07-02-97
Condition:	N/A	Date Extracted:	06-30-97

Parameter	Spike Added (mg/L)	Sample Result (mg/L)	Spiked Sample Result (mg/L)	Percent Recovery
Arsenic	**0.100**	**ND**	**0.099**	**99%**
Barium	**1.00**	**0.68**	**1.69**	**101%**
Cadmium	**0.050**	**0.005**	**0.055**	**100%**
Chromium	**0.050**	**ND**	**0.050**	**100%**
Lead	**0.100**	**0.060**	**0.160**	**100%**
Mercury	**0.025**	**ND**	**0.025**	**100%**
Selenium	**0.100**	**ND**	**0.099**	**99%**
Silver	**0.050**	**ND**	**0.049**	**98%**

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Acceptance Range %
	TCLP Metals	**80 - 120 %**

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

Comments: **QA/QC for sample B504.**

Analyst

Review

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97033-02

CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location	ANALYSIS/PARAMETERS
Dowell Schlumberger	Main Yard near Acid Rack	
Sampler: (Signature) [signature]	Chain of Custody Tape No.	

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TCLP Metals	RCRA Chart					Remarks
Hydraulic Oil Spill	6.25.97	9:29	B504	Soil	1	✓	✓					
					sample received cool & intact DH							

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	6.25.97	9:45	[signature]	6-25-97	9:45
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

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

TEXACO
MATERIAL SAFETY DATA SHEET

NOTE: Read and understand Material Safety Data Sheet before handling or disposing of product.

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MATERIAL IDENTITY

Product Code and Name:
01893 TDH OIL

Chemical Name and/or Family or Description:
Torque Fluid

Manufacturer's Name and Address:
TEXACO LUBRICANTS COMPANY
A DIVISION OF TEXACO REFINING AND MARKETING INC.
P.O. Box 4427
Houston, TX 77210-4427

Telephone Numbers:

Transportation Emergency	-Company	: (914) 831-3400
	CHEMTREC (USA)	: (800) 424-9300
	In Canada	: (800) 567-7455
Health Emergency	-Company	: (914) 831-3400
General MSDS Assistance		: (914) 838-7204
Texaco FaxBack System		: (713) 432-3383
Technical Information	-Fuels	: (914) 838-7336
	-Chemical	: (512) 459-6543
	-Lubricant/ Antifreezes/Fuel Additives	: (800) 782-7852(Option 4)
	-Solvents	: (800) 876-3738

2. COMPOSITION/INFORMATION ON INGREDIENTS

THE CRITERIA FOR LISTING COMPONENTS IN THE COMPOSITION SECTION IS AS FOLLOWS: CARCINOGENS ARE LISTED WHEN PRESENT AT 0.1 % OR GREATER; COMPONENTS WHICH ARE OTHERWISE HAZARDOUS ACCORDING TO OSHA ARE LISTED WHEN PRESENT AT 1.0 % OR GREATER; NON-HAZARDOUS COMPONENTS ARE LISTED AT 3.0 % OR GREATER. THIS IS NOT INTENDED TO BE A COMPLETE COMPOSITIONAL DISCLOSURE. REFER TO SECTION 14 FOR APPLICABLE STATES' RIGHT TO KNOW AND OTHER REGULATORY INFORMATION.

Product and/or Component(s) Carcinogenic According to:

OSHA	IARC	NTP	OTHER	NONE
–	–	–	–	X

Composition: (Sequence Number and Chemical Name)

Seq.	Chemical Name	CAS Number	Range in %
01 #	Hydrotreated heavy paraffinic petroleum distillates	64742-54-7	50.00-64.99
02 #	Hydrotreated light paraffinic petroleum distillate	64742-55-8	35.00-49.99
03 *	Zinc alkyl dithiophosphate	68649-42-3	1.00-2.99
04 *	Additives		1.00-2.99
05 #	Hydrotreated light naphthenic petroleum distillates	64742-53-6	1.00-2.99
06 *	Polymethacrylate	50867-55-5	1.00-2.99

PRODUCT IS NON-HAZARDOUS ACCORDING TO OSHA (1910.1200).
* COMPONENT IS HAZARDOUS ACCORDING TO OSHA.
# COMPONENT, BY DEFINITION, IS CONSIDERED HAZARDOUS ACCORDING TO OSHA BECAUSE IT CARRIES THE PERMISSIBLE EXPOSURE LIMIT (PEL) FOR MINERAL OIL MIST.

Exposure Limits referenced by Sequence Number in the Composition Section

Seq.	Limit
01	5 mg/m3 TWA-OSHA (MINERAL OIL MIST)
01	5 mg/m3 TWA-ACGIH (MINERAL OIL MIST)
01	10 mg/m3 STEL ACGIH (MINERAL OIL MIST)
02	5 mg/m3 TWA-OSHA (MINERAL OIL MIST)
02	5 mg/m3 TWA-ACGIH (MINERAL OIL MIST)
02	10 mg/m3 STEL ACGIH (MINERAL OIL MIST)
05	5 mg/m3 TWA-OSHA (MINERAL OIL MIST)
05	5 mg/m3 TWA-ACGIH (MINERAL OIL MIST)

N.D. - NOT DETERMINED N.A. - NOT APPLICABLE N.T. - NOT TESTED
< - LESS THAN > - GREATER THAN

2. COMPOSITION/INFORMATION ON INGREDIENTS (CONT)

05 10 mg/m3 STEL ACGIH (MINERAL OIL MIST)

3. HAZARD IDENTIFICATION

EMERGENCY OVERVIEW

Appearance:
Dark red liquid
Odor:
Petroleum oil odor

WARNING STATEMENT

NONE CONSIDERED NECESSARY

HMIS				NFPA			
Health:	1	Reactivity:	0	Health:	1	Reactivity:	0
Flammability:	1	Special	: -	Flammability:	1	Special	: -

POTENTIAL HEALTH EFFECTS

	EYE	SKIN	INHALATION	INGESTION
Primary Route of Exposure:	X	X	X	_

EFFECTS OF OVEREXPOSURE

Acute:

Eyes:
May cause minimal irritation, experienced as temporary discomfort.

Skin:
Brief contact may cause slight irritation. Prolonged contact, as with clothing wetted with material, may cause more severe irritation and discomfort, seen as local redness and swelling.

Other than the potential skin irritation effects noted above, acute (short term) adverse effects are not expected from brief skin contact; see other effects, below, and Section 11 for information regarding potential long term effects.

Inhalation:
Vapors or mist, in excess of permissible concentrations, or in unusually high concentrations generated from spraying, heating the material or as from exposure in poorly ventilated areas or confined spaces, may cause irritation of the nose and throat, headache, nausea, and drowsiness.

Ingestion:
If more than several mouthfuls are swallowed, abdominal discomfort, nausea, and diarrhea may occur.

Sensitization Properties:
Unknown.

Chronic:
No adverse effects have been documented in humans as a result of chronic exposure. Section 11 may contain applicable animal data.

Medical Conditions Aggravated by Exposure:
Because of its irritating properties, repeated skin contact may aggravate an existing dermatitis (skin condition).

Other Remarks:
Material from high pressure equipment, pinhole leaks, or high pressure line failure can penetrate the skin and, if not properly treated, can cause severe injury, including disfigurement, loss of function, or even require amputation of the affected area. To prevent such serious injury, immediate medical attention should be sought even if the injection injury appears to be minor.

When overheated, product may release hydrogen sulfide (H_2S) gas. H_2S concentrations above permissible concentrations can cause irritation of the eyes and respiratory tract, headache, dizziness, nausea, vomiting, diarrhea and pulmonary edema. At concentrations above 300 ppm, respiratory paralysis, causing unconsciousness and death, can occur.

N.D. - NOT DETERMINED N.A. - NOT APPLICABLE N.T. - NOT TESTED
< - LESS THAN > - GREATER THAN

4. FIRST AID MEASURES

Eyes:
Flush eyes with plenty of water for several minutes. Get medical attention if eye irritation persists.

Skin:
Wash skin with plenty of soap and water for several minutes. Get medical attention if skin irritation develops or persists.

Ingestion:
If more than several mouthfuls of this material are swallowed, give two glasses of water (16 oz.). Get medical attention.

Inhalation:
If irritation, headache, nausea, or drowsiness occurs, remove to fresh air. Get medical attention if breathing becomes difficult or respiratory irritation persists.

Other Instructions:
High pressure injection of material can cause severe injury. Failure to debride the wound of all residual material can result in disfigurement, loss of function, or may require amputation of the affected area.

Remove and dry-clean or launder clothing soaked or soiled with this material before reuse. Dry cleaning of contaminated clothing may be more effective than normal laundering. Inform individuals responsible for cleaning of potential hazards associated with handling contaminated clothing.

5. FIRE-FIGHTING MEASURES

Ignition Temperature - AIT (degrees F):
Not determined.
Flash Point (degrees F):
380 (COC)
Flammable Limits (%):
Lower: Not determined.
Upper: Not determined.

Recommended Fire Extinguishing Agents And Special Procedures:
Use water spray, dry chemical, foam, or carbon dioxide to extinguish flames. Use water spray to cool fire-exposed containers. Water or foam may cause frothing.

Unusual or Explosive Hazards:
Hydrogen sulfide (H_2S) may be released if overheated.

Extinguishing Media Which Must Not Be Used:
Not determined.

Special Protective Equipment for Firefighters:
Wear full protective clothing and positive pressure breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES (Transportation Spills: CHEMTREC (800)424-9300)

Procedures in Case of Accidental Release, Breakage or Leakage:
Ventilate area. Avoid breathing vapor. Wear appropriate personal protective equipment, including appropriate respiratory protection. Contain spill if possible. Wipe up or absorb on suitable material and shovel up. Prevent entry into sewers and waterways. Avoid contact with skin, eyes or clothing.

7. HANDLING AND STORAGE

Precautions to be Taken in Handling:
Minimum feasible handling temperatures should be maintained.

Storage:
Periods of exposure to high temperatures should be minimized. Water contamination should be avoided.

N.D. - NOT DETERMINED N.A. - NOT APPLICABLE N.T. - NOT TESTED
< - LESS THAN > - GREATER THAN

825

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Protective Equipment (Type)

Eye/Face Protection:
Safety glasses, chemical type goggles, or face shield recommended to prevent eye contact.

Skin Protection:
Workers should wash exposed skin several times daily with soap and water. Soiled work clothing should be laundered or dry-cleaned.

Respiratory Protection:
Airborne concentrations should be kept to lowest levels possible. If vapor, mist or dust is generated and the occupational exposure limit of the product, or any component of the product, is exceeded, use appropriate NIOSH or MSHA approved air purifying or air supplied respirator after determining the airborne concentration of the contaminant. Air supplied respirators should always be worn when airborne concentration of the contaminant or oxygen content is unknown.

Ventilation:
Adequate to meet component occupational exposure limits (see Section 2).

Exposure Limit for Total Product:
None established for product; refer to Section 2 for component exposure limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:
Dark red liquid

Odor:
Petroleum oil odor

Boiling Point (degrees F):
Not determined.

Melting/Freezing point (degrees F):
Not applicable.

Specific Gravity (water=1):
.8927

pH of undiluted product:
Not applicable.

Vapor Pressure:
Not determined.

Viscosity:
9.1 cSt at 100.0 C

VOC Content:
Not determined.

Vapor Density (air=1):
Not determined.

Solubility in Water (%):
Not determined.

Other: None

10. STABILITY AND REACTIVITY

This Material Reacts Violently With:
(If Others is checked below, see comments for details)

Air	Water	Heat	Strong Oxidizers	Others	None of These
_	_	_	X	_	_

Comments:
Under extreme temperatures or extended storage periods, hydrogen sulfide (H_2S) gas may accumulate in the head-space of container.

N.D. - NOT DETERMINED N.A. - NOT APPLICABLE N.T. - NOT TESTED
< - LESS THAN > - GREATER THAN

10. STABILITY AND REACTIVITY (CONT)

Products Evolved When Subjected to Heat or Combustion:
Toxic levels of carbon monoxide, carbon dioxide, irritating aldehydes and ketones, and combustion products or compounds of zinc, phosphorus, sulfur (may include hydrogen sulfide).

Hazardous Polymerizations: DO NOT OCCUR

11. TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION(ANIMAL TOXICITY DATA)

Median Lethal Dose

Oral:
LD50 > 5.00 g/kg (rat) practically non-toxic

Inhalation:
Not determined.

Dermal:
LD50 > 3.00 g/kg (rabbit) practically non-toxic

Irritation Index, Estimation of Irritation (Species)

Skin:
(Draize) .67 /8.0 (rabbit) slightly irritating

Eyes:
(Draize) 6.30 /110 (rabbit) no appreciable effect

Sensitization:
Not determined.

Other:
Some low viscosity naphthenic oils have caused skin irritation and skin tumors in laboratory animals when repeatedly applied and left in place between applications. The significance of this effect to humans has not been establilshed.

12. DISPOSAL CONSIDERATIONS

Waste Disposal Methods
This product has been evaluated for RCRA characteristics and does not meet the criteria of a hazardous waste if discarded in its purchased form. Under RCRA, it is the responsibility of the user of the product to determine at the time of disposal, whether the product meets RCRA criteria for hazardous waste. This is because product uses, transformations, mixtures, processes, etc. may render the resulting materials hazardous.

Remarks
None

13. TRANSPORT INFORMATION

Transportation

DOT:
Proper Shipping Name:
Not regulated

IMDG:
Proper Shipping Name:
Not regulated

ICAO:
Proper Shipping Name:
Not regulated

TDG:
Proper Shipping Name:
Not regulated

N.D. - NOT DETERMINED N.A. - NOT APPLICABLE N.T. - NOT TESTED
< - LESS THAN > - GREATER THAN

14. REGULATORY INFORMATION

Federal Regulations:

SARA Title III:

Section 302/304 Extremely Hazardous Substances

Seq.	Chemical Name	CAS Number	Range in %
None			

Section 302/304 Extremely Hazardous Substances (CONT)

Seq.	TPQ	RQ
None		

Section 311 Hazardous Categorization:

Acute	Chronic	Fire	Pressure	Reactive	N/A
-	-	-	-	-	X

Section 313 Toxic Chemical

Chemical Name	CAS Number	Concentration
Zinc alkyl dithiophosphate	68649-42-3	1.00-2.99

CERCLA 102(a)/DOT Hazardous Substances: (+ indicates DOT Hazardous Substance)

Seq.	Chemical Name	CAS Number	Range in %
None			

CERCLA/DOT Hazardous Substances (Sequence Numbers and RQ's):

Seq.	RQ
None	

TSCA Inventory Status:
This product, or its components, are listed on or are exempt from the Toxic Substance Control Act (TSCA) Chemical Substance Inventory.

Other:
None.

State Regulations:

California Proposition 65:
The following detectable components of this product are substances, or belong to classes of substances, known to the State of California to cause cancer and/or reproductive toxicity.

Chemical Name	CAS Number
None	

International Regulations:

WHMIS Classification:
Not controlled

Canada Inventory Status:
This product, or its components, are listed on or are exempt from the Canadian Domestic Substance List (DSL).

EINECS Inventory Status:
Not determined.

Australia Inventory Status:
This product, or its components, are listed on or are exempt from the Australian Inventory of Chemical Substances (AICS).

Japan Inventory Status:
Not determined.

15. ENVIRONMENTAL INFORMATION

Aquatic Toxicity:
LC50-96hr Aquatic toxicity rating is = 350.00 mg/liter (rainbow trout) practically non-toxic
EC50-48hr Aquatic toxicity rating is > 1000.00 mg/liter (Daphnia magna) practically non-toxic
LC50-96hr Aquatic toxicity rating is = 180.00 mg/liter mysid shrimp (marine) practically non-toxic
EC50-96 hr Aquatic toxicity rating is = 3.80 mg/liter Selenastrum (cell dens.) moderately toxic
LC50-96hr Aquatic toxicity rating is = 1000.00 mg/liter sheepshead minnow(marine) practically non-toxic

N.D. - NOT DETERMINED N.A. - NOT APPLICABLE N.T. - NOT TESTED
< - LESS THAN > - GREATER THAN

15. ENVIRONMENTAL INFORMATION (CONT)

Mobility:
Not determined.

Persistence and Biodegradability:
This product is reported to have a moderate (>= 30%) rate of biodegradation in a test for ready biodegradation.

Potential to Bioaccumulate:
Not determined.

Remarks:
None

16. OTHER INFORMATION

None

THE INFORMATION CONTAINED HEREIN IS BELIEVED TO BE ACCURATE. IT IS PROVIDED INDEPENDENTLY OF ANY SALE OF THE PRODUCT FOR PURPOSE OF HAZARD COMMUNICATION AS PART OF TEXACO'S PRODUCT SAFETY PROGRAM. IT IS NOT INTENDED TO CONSTITUTE PERFORMANCE INFORMATION CONCERNING THE PRODUCT. NO EXPRESS WARRANTY, OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE IS MADE WITH RESPECT TO THE PRODUCT OR THE INFORMATION CONTAINED HEREIN. DATA SHEETS ARE AVAILABLE FOR ALL TEXACO PRODUCTS. YOU ARE URGED TO OBTAIN DATA SHEETS FOR ALL TEXACO PRODUCTS YOU BUY, PROCESS, USE OR DISTRIBUTE AND YOU ARE ENCOURAGED AND REQUESTED TO ADVISE THOSE WHO MAY COME IN CONTACT WITH SUCH PRODUCTS OF THE INFORMATION CONTAINED HEREIN.

TO DETERMINE APPLICABILITY OR EFFECT OF ANY LAW OR REGULATION WITH RESPECT TO THE PRODUCT, USER SHOULD CONSULT HIS LEGAL ADVISOR OR THE APPROPRIATE GOVERNMENT AGENCY. TEXACO DOES NOT UNDERTAKE TO FURNISH ADVICE ON SUCH MATTERS.

Since the last mailing for this customer code, the following sections have been revised:
11,13,14,15,16,17.

Date: 1997-03-24 _ New X Revised, Supersedes: 1997-02-19
Date printed: 1997-05-15

Inquiries regarding MSDS should be directed to:
Texaco Inc.
Manager, Product Safety
P.O. Box 509
Beacon, N.Y. 12508

PLEASE SEE NEXT PAGE FOR PRODUCT LABEL

N.D. - NOT DETERMINED N.A. - NOT APPLICABLE N.T. - NOT TESTED
< - LESS THAN > - GREATER THAN

17. PRODUCT LABEL

Label Date: 1997-03-24

READ AND UNDERSTAND MATERIAL SAFETY DATA SHEET BEFORE HANDLING OR DISPOSING OF PRODUCT. THIS LABEL COMPLIES WITH THE REQUIREMENTS OF THE OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200) FOR USE IN THE WORKPLACE. THIS LABEL IS NOT INTENDED TO BE USED WITH PACKAGING INTENDED FOR SALE TO CONSUMERS AND MAY NOT CONFORM WITH THE REQUIREMENTS OF THE CONSUMER PRODUCT SAFETY ACT OR OTHER RELATED REGULATORY REQUIREMENTS.

01893 TDH OIL

WARNING STATEMENT

NONE CONSIDERED NECESSARY

PRECAUTIONARY MEASURES

-Avoid prolonged breathing of vapor, mist, or gas.
-Workers should wash exposed skin several times daily with soap and water.

FIRST AID

Eye Contact:
Flush eyes with plenty of water for several minutes. Get medical attention if eye irritation persists.

Skin Contact:
Wash skin with plenty of soap and water for several minutes. Get medical attention if skin irritation develops or persists.

Ingestion:
If more than several mouthfuls of this material are swallowed, give two glasses of water (16 oz.). Get medical attention.

Inhalation:
If irritation, headache, nausea, or drowsiness occurs, remove to fresh air. Get medical attention if breathing becomes difficult or respiratory irritation persists.

Note to Physician:
High pressure injection of material can cause severe injury. Failure to debride the wound of all residual material can result in disfigurement, loss of function, or may require amputation of the affected area.

FIRE

In case of fire, use water spray, dry chemical, foam or carbon dioxide. Water may cause frothing. Use water spray to cool fire-exposed containers.

	Chemical Name	CAS Number	Range in %
#	Hydrotreated heavy paraffinic petroleum distillates	64742-54-7	50.00-64.99
#	Hydrotreated light paraffinic petroleum distillate	64742-55-8	35.00-49.99
*	Zinc alkyl dithiophosphate	68649-42-3	1.00-2.99
*	Additives		1.00-2.99
#	Hydrotreated light naphthenic petroleum distillates	64742-53-6	1.00-2.99
*	Polymethacrylate	50867-55-5	1.00-2.99

PRODUCT IS NON-HAZARDOUS ACCORDING TO OSHA (1910.1200).
* COMPONENT IS HAZARDOUS ACCORDING TO OSHA.
# COMPONENT, BY DEFINITION, IS CONSIDERED HAZARDOUS ACCORDING TO OSHA BECAUSE IT CARRIES THE PERMISSIBLE EXPOSURE LIMIT (PEL) FOR MINERAL OIL MIST.

Pennsylvania Special Hazardous Substance(s)	CAS Number	Range in %
None		

HMIS				NFPA			
Health:	1	Reactivity:	0	Health:	1	Reactivity:	0
Flammability:	1	Special	: -	Flammability:	1	Special	: -

Transportation

DOT:

Proper Shipping Name:
Not regulated

N.D. - NOT DETERMINED N.A. - NOT APPLICABLE N.T. - NOT TESTED
< - LESS THAN > - GREATER THAN

17. PRODUCT LABEL (CONT)

Label Date: 1997-03-24

CAUTION: Misuse of empty containers can be hazardous. Empty containers can be hazardous if used to store toxic, flammable, or reactive materials. Cutting or welding of empty containers might cause fire, explosion or toxic fumes from residues. Do not pressurize or expose to open flame or heat. Keep container closed and drum bungs in place.

Manufacturer's Name and Address:
TEXACO LUBRICANTS COMPANY
A DIVISION OF TEXACO REFINING AND MARKETING INC.
P.O. Box 4427
Houston, TX 77210-4427

TRANSPORTATION EMERGENCY	Company:	(914) 831-3400
	CHEMTREC:	(800) 424-9300
HEALTH EMERGENCY	Company:	(914) 831-3400

O. Box 1
Hobbs, NM 88241-1980
District II - (505) 748-1283
11 S. First
NM 88210
District III - (505) 334-6178
1 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

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

Form C-
Originated

Submit Or
Plus 1
to appro
District

Env JN: 04055

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Thriftway Refining
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Refinery
2. Management Facility Destination Envirotech Soil RemediationFac Landfarm #2	6. Transporter Biotech
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	County Road 5500

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:

Tank Bottom sediments generated during clean up of Thriftway Tank #31

TCLP ATTACHED

Never hauled under this approval

see December 17, 1995

RECEIVED JUL - 9 1997 OIL CON. DIV. DIST. 3

RECEIVED JUN 24 1997 Environmental Bureau Oil Conservation Division

RECEIVED JUN 19 1997 OIL CON. DIV DIST. 3

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

SIGNATURE: Harlan M. Brown (Waste Management Facility Authorized Agent) TITLE: Landfarm Manager DATE: 6-16-97

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. (505)632-0615

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 6/23/97

APPROVED BY: Martyne J. Kieling TITLE: Env Geologist. DATE: 6/24/97

District I - (505) 393-6161
P.O. 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S. First
Art a, NM 88210
District III - (505) 334-6178
1 Rio Brazos Road
c, 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: 04055

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator THRIFTWAY Refining
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Refinery
2. Management Facility Destination Envirotech Soil RemediationFac Landfarm #2	6. Transporter Biotech
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	County Road 5500

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All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

Tank Bottom sediments generated during clean up of THRIFTWAY TANK #31

TCLP ATTACHED

RECEIVED
JUN 19 1997
OIL CON. DIV.
DIST. 3

Estimated Volume 7 cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 6-16-97
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. Foust TITLE: Geologist DATE: 6/23/97

APPROVED BY: _____ TITLE: _____ DATE: _____

ENVIROTECH INC.
PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CERTIFICATE OF WASTE STATUS
OILFIELD NON-EXEMPT WASTE MATERIAL

Originating Location: Thriftway Bloomfield Refinery

Source: TANK BOTTOMS

Disposal Location: Envirotech Soil Remediation Facility, (NMED) Hilltop, New Mexico

"As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt oilfield production waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, to verify the nature as non-hazardous. I further certify that to my knowledge no "hazardous or listed waste" pursuant to the provisions of 40 CFR, part 261, Subparts C and D, has been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, section 261.3(b)."

I, the undersigned, as the agent for BioTech Remediation concur with the status of the waste from the subject site.

Name TERRY Griffin
Title/Agency Proj MGT.
Address 710 E 20th St - Suite 400
Farmington, NM 87401
Signature Terry Griffin
Date 6-07-97

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

May 13, 1997

Ms. Terry Griffin
Biotech Remediation, Inc.
710 E. 20th Street Suite 400
Farmington, NM 87401

Dear Ms. Griffin,

Enclosed are the analytical results for the sample collected from the "T-Way Tank #31" location. One solid sample identified as "#1 & #2" was collected by Biotech Remediation personnel and delivered to the Envirotech laboratory for Hazardous Waste Characterization ((Volatile and Semi-volatile Organics, Trace Metals, Reactivity, Corrosivity, and Ignitability).

The sample was documented on Envirotech Chain of Custody No. 5221 and assigned Laboratory No. B188 for tracking purposes. The sample was extracted on 05/06/97 and analyzed on 05/07/97 - 05/13/97 using USEPA or equivalent methods.

Results of the analysis indicate that the material from the designated location is not a characteristic hazardous waste as defined by 40 CFR, Section 261, Subpart C for the noted compounds.

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. Sendler

Stacy W. Sendler
Environmental Scientist/Laboratory Manager

enc.

SWS/sws 04055lb6wpd

5796 U.S. Highway 64-3014 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

SUSPECTED HAZARDOUS SOLID WASTE ANALYSIS

Client:	Biotech Remediation	Project #:	04055
Sample ID:	#1 & #2 Composite	Date Reported:	05-06-97
Lab ID#:	B188	Date Sampled:	05-05-97
Sample Matrix:	Solid	Date Received:	05-05-97
Preservative:	Cool	Date Analyzed:	05-06-97
Condition:	Cool & Intact	Chain of Custody:	5221

Parameter	Result	
IGNITABILITY:	**Negative**	
CORROSIVITY:	**Negative**	**pH = 6.73**
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: **T-Way Refinery. Tank #31.**

Analyst

Review

5796 U.S. Highway 64-3014 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS

Client:	Biotech Remediation	Project #:	04055
Sample ID:	#1 & #2 Composite	Date Reported:	05-07-97
Laboratory Number:	B188	Date Sampled:	05-05-97
Chain of Custody:	5221	Date Received:	05-05-97
Sample Matrix:	Solid	Date Extracted:	05-06-97
Preservative:	Cool	Date Analyzed:	05-07-97
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	0.0674	0.0001	0.7
2-Butanone (MEK)	0.0240	0.0001	200
Chloroform	0.0495	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	0.138	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	0.0120	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	102%
	Bromofluorobenzene	102%

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: **T-Way Refinery. Tank #31.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8040
PHENOLS

Client:	Biotech Remediation	Project #:	04055
Sample ID:	#1 & #2 Composite	Date Reported:	05-09-97
Laboratory Number:	B188	Date Sampled:	05-05-97
Chain of Custody:	5221	Date Received:	05-05-97
Sample Matrix:	Solid	Date Extracted:	05-06-97
Preservative:	Cool	Date Analyzed:	05-08-97
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	99%
	2,4,6-Tribromophenol	95%

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. 198

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

Comments: **T-Way Refinery. Tank #31. PO #B97-0316**

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Analyst

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Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	Biotech Remediation	Project #:	04055
Sample ID:	#1 & #2 Composite	Date Reported:	05-09-97
Laboratory Number:	B188	Date Sampled:	05-05-97
Chain of Custody:	5221	Date Received:	05-05-97
Sample Matrix:	Solid	Date Extracted:	05-06-97
Preservative:	Cool	Date Analyzed:	05-08-97
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	**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: **T-Way Refinery. Tank #31. PO# B97-0316**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	Biotech Remediation	Project #:	04055
Sample ID:	#1 & #2 Composite	Date Reported:	05-09-97
Laboratory Number:	B188	Date Sampled:	05-05-97
Chain of Custody:	5221	Date Received:	05-05-97
Sample Matrix:	Solid	Date Analyzed:	05-09-97
Preservative:	Cool	Date Extracted:	05-06-97
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
Arsenic	**0.082**	**0.001**	**5.00**
Barium	**0.08**	**0.01**	**100**
Cadmium	**ND**	**0.001**	**1.00**
Chromium	**ND**	**0.001**	**5.00**
Lead	**0.048**	**0.001**	**5.00**
Mercury	**ND**	**0.001**	**0.200**
Selenium	**0.002**	**0.001**	**1.00**
Silver	**ND**	**0.001**	**5.0**

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

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

Comments: **T-Way Refinery. Tank #31. PO #B97-0316.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

QUALITY ASSURANCE / QUALITY CONTROL DOCUMENTATION

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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:	Laboratory Blank	Date Reported:	05-07-97
Laboratory Number:	05-07-TCV.BLANK	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	05-07-97
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	101%
	Bromofluorobenzene	101%

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 B188.**

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:	Method Blank	Date Reported:	05-07-97
Laboratory Number:	05-06-TCV.MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	05-07-97
Condition:	N/A	Date Extracted:	05-06-97
		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	101%

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 B188.**

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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 Duplicate	Date Reported:	05-07-97
Laboratory Number:	B188	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	05-07-97
Condition:	N/A	Date Extracted:	05-06-97

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	0.0674	0.0659	0.0001	2.2%
2-Butanone (MEK)	0.0240	0.0239	0.0001	0.2%
Chloroform	0.0495	0.0474	0.0001	4.2%
Carbon Tetrachloride	ND	ND	0.0001	0.0%
Benzene	0.138	0.130	0.0001	6.3%
1,2-Dichloroethane	ND	ND	0.0001	0.0%
Trichloroethene	ND	ND	0.0003	0.0%
Tetrachloroethene	0.0120	0.0128	0.0005	6.9%
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 B188.**

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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:	05-07-97
Laboratory Number:	B188	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	05-07-97
Condition:	N/A	Date Extracted:	05-06-97

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	0.0496	0.0001	98%	28-163
1,1-Dichloroethene	0.0674	0.050	0.116	0.0001	99%	43-143
2-Butanone (MEK)	0.0240	0.050	0.0734	0.0001	99%	47-132
Chloroform	0.0495	0.050	0.0992	0.0001	100%	49-133
Carbon Tetrachloride	ND	0.050	0.0488	0.0001	98%	43-143
Benzene	0.138	0.050	0.186	0.0001	99%	39-150
1,2-Dichloroethane	ND	0.050	0.0498	0.0001	100%	51-147
Trichloroethene	ND	0.050	0.0529	0.0003	100%	35-146
Tetrachloroethene	0.0120	0.050	0.0618	0.0005	100%	26-162
Chlorobenzene	ND	0.050	0.0498	0.0003	99%	38-150
1,4-Dichlorobenzene	ND	0.050	0.0527	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 B188.**

Analyst

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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:	05-09-97
Laboratory Number:	05-08-TCA.BLANK	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	05-08-97
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	101 %
	2,4,6-tribromophenol	96 %

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. 198

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

Comments: **QA/QC for sample B188.**

Analyst

Review

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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:	05-09-97
Laboratory Number:	05-06-TCA.MB	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	Cool	Date Extracted:	05-06-97
Condition:	Cool & Intact	Date Analyzed:	05-08-97
		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	102%
	2,4,6-Tribromophenol	96%

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. 198

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

Comments: **QA/QC for sample B188.**

Analyst

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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:	05-09-97
Laboratory Number:	B188	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	Cool	Date Extracted:	05-06-97
Condition:	Cool & Intact	Date Analyzed:	05-08-97
		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 B188.**

Analyst

Review

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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:	05-09-97
Laboratory Number:	05-08-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:	05-08-97
		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 sample B188.**

Analyst

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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:	05-09-97
Laboratory Number:	05-06-TBN.MB	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	Cool	Date Extracted:	05-06-97
Condition:	Cool and Intact	Date Analyzed:	05-08-97
		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 sample B188.**

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Stacy W Sendler
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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:	05-09-97
Laboratory Number:	B188	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Extracted:	05-06-97
Condition:	N/A	Date Analyzed:	05-08-97
		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 B188.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA ETHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Blanks	Date Reported:	05-09-97
Laboratory Number:	N/A	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	05-09-97
Condition:	N/A	Date Extracted:	N/A

Parameter	Instrument Blank (mg/L)	Method Blank (mg/L)	Det. Limit (mg/L)
Arsenic	**ND**	**ND**	**0.001**
Barium	**ND**	**ND**	**0.01**
Cadmium	**ND**	**ND**	**0.001**
Chromium	**ND**	**ND**	**0.001**
Lead	**ND**	**ND**	**0.001**
Mercury	**ND**	**ND**	**0.001**
Selenium	**ND**	**ND**	**0.001**
Silver	**ND**	**ND**	**0.001**

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

Comments: **QA/QC for sample B188.**

Analyst

Stacy W Sendler

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	05-09-97
Laboratory Number:	b188	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	05-09-97
Condition:	N/A	Date Extracted:	05-06-97

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Percent Difference
Arsenic	**0.082**	**0.082**	**0.0%**
Barium	**0.08**	**0.08**	**0.0%**
Cadmium	**ND**	**ND**	**0.0%**
Chromium	**ND**	**ND**	**0.0%**
Lead	**0.048**	**0.046**	**4.3%**
Mercury	**ND**	**ND**	**0.0%**
Selenium	**0.002**	**0.002**	**0.0%**
Silver	**ND**	**ND**	**0.0%**

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Maximum Difference
	Trace Metals	**30 %**

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

Comments: **QA/QC for sample B188.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Spike	Date Reported:	05-09-97
Laboratory Number:	B188	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	05-09-97
Condition:	N/A	Date Extracted:	05-06-97

Parameter	Spike Added (mg/L)	Sample Result (mg/L)	Spiked Sample Result (mg/L)	Percent Recovery
Arsenic	**0.100**	**0.082**	**0.182**	**100%**
Barium	**1.00**	**0.08**	**1.07**	**99%**
Cadmium	**0.050**	**ND**	**0.049**	**98%**
Chromium	**0.050**	**ND**	**0.049**	**98%**
Lead	**0.100**	**0.048**	**0.147**	**99%**
Mercury	**0.025**	**ND**	**0.024**	**96%**
Selenium	**0.100**	**0.002**	**0.101**	**99%**
Silver	**0.050**	**ND**	**0.050**	**100%**

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Acceptance Range %
	TCLP Metals	**80 - 120 %**

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

Comments: **QA/QC for sample B188.**

Analyst

Stacy W Sendler

Review

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CHAIN OF CUSTODY RECORD

PO# B97-0316

Client/Project Name	Project Location
BIOTECH REMEDIATION	T-Way Refinery Tank #31
Sampler: (Signature)	Chain of Custody Tape No.
[signature]	04055

ANALYSIS/PARAMETERS

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	Reactive	TCLP Metals	TCLP Vols.	TCLP Semi-Vols			Remarks
#1 & #2	5/5/97	12:00	B188	Solid	2	✓	✓	✓	✓			
~~#8~~	~~5/5/97~~	~~11:55~~										
						Sample received cool & intact						

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	5/5/97	1:23p	[signature]	5/5/97	13:23
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

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

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
Aztec, 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: 93115

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☒ Non-Exempt: ☐ 6-18-97 DF. 7:10 a.m.	4. Generator Conoco
Verbal Approval Received: Yes ☒ No ☐	5. Originating Site Salmon #1
2. Management Facility Destination Envirotech Soil RemediationFac Landfarm #2	6. Transporter Rosenbaum Const
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	Unit P, Sec 30, T29N, R11W, NMPM

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 generated during remediation of a drippit.

RECEIVED
JUN 19 1997
OIL CON. DIV.
DIST. 3

Estimated Volume ± 600 cy Known Volume (to be entered by the operator at the end of the haul) 496 cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 6-18-97
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. Foust TITLE: Geologist DATE: 6/23/97

APPROVED BY: Ernie Busch TITLE: Geologist DATE: 6/23/97

ENVIROTECH INC.
UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION
5796 U.S. HIGHWAY 64 - 3014
FARMINGTON, NEW MEXICO 87401
PHONE: (505) 632-0615

CERTIFICATE OF WASTE STATUS
OILFIELD EXEMPT WASTE

Originating Location: Salyer #1 Unit P, S30, T29N, R11W

Source: Drip pit.

Disposal Location: Envirotech Soil Remediation Facility. (ESRF)
Hilltop. New Mexico

"As a condition of acceptance for disposal, I hereby certify that this waste is an oilfield production exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. Additionally, to my knowledge, no non-exempt waste that is a "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has been added or mixed with the exempt waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, section 261.3(b)."

I, the undersigned, as the agent for Conoco, Inc. concur with the status of the waste from the subject site.

Name C J Coy
Title/Agency Field Smear Spec.
Address 3315 Bloomfield Hwy
Farmington, NM
Signature C J Coy
Date 6/19/97

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
1000 Rio Brazos Road
Aztec, 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-
Originated

Submit Or
Plus 1
to appro
District

JUN 17 1997
OIL CONSERVATION DIVISION

Env JN: 92132

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Halliburton Energy Services
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Main Yard Wash bay
2. Management Facility Destination Envirotech Soil RemediationFac Landfarm #2	6. Transporter ENVIROTECH
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	410 a E. Main Farmington, N.M.

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
TCLP ATTACHED.

RECEIVED
JUN 16 1997
OIL CON. DIV.
DIST. 3

RECEIVED
JUN 18 1997
OIL CON. DIV.
DIST. 3

Estimated Volume 20.24 cy cy Known Volume (to be entered by the operator at the end of the haul) 143 cy

SIGNATURE: Harlan M. Brown
Waste Management Facility/Authorized Agent
TITLE: Landfarm Manager DATE: 6.16.97

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. (505)632-0615

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 6/16/97

APPROVED BY: Matthew J. Kelly TITLE: Env. Geologist DATE: 6/17/97

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
1000 Rio Brazos Road
Aztec, 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: ☐ Non-Exempt: ☒	4. Generator Halliburton Energy Services
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Main Yard Wash bay
2. Management Facility Destination Envirotech Soil Remediation Fac. Landfarm #2	6. Transporter ENVIROTECH
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	4109 E. Main Farmington, N.M.

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
TCLP Attached.

RECEIVED
JUN 16 1997
OIL CON. DIV.
DIST. 3

Estimated Volume 20.24 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: 6.16.97
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. Foust TITLE: Geologist DATE: 6/16/97

APPROVED BY: _____ TITLE: _____ DATE: _____

ENVIROTECH INC.

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CERTIFICATE OF WASTE STATUS
OILFIELD NON-EXEMPT WASTE MATERIAL

Originating Location: Halliburton Energy Services 4109 E Main, Farmington

Source: WASH BAY SOLIDS.

Disposal Location: Envirotech Soil Remediation Facility, (NMED)
Hilltop, New Mexico

"As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt oilfield production waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, to verify the nature as non-hazardous. I further certify that to my knowledge no "hazardous or listed waste" pursuant to the provisions of 40 CFR, part 261, Subparts C and D, has been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, section 261.3(b)."

I, the undersigned, as the agent for HALLIBURTON ENERGY SERVICES concur with the status of the waste from the subject site.

Name RJ GREENAKER
Title/Agency TOOL TECHNITION I
HALLIBURTON ENERGY SERVICES
Address 4109 E. MAIN ST
FARMINGTON, NM 87401
Signature R J Greenaker
Date JUN 13, 1997

5796 U.S. Highway 64-3014 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

ENVIROTECH INC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIA

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

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 Characterization Leaching Procedures (TCLP) analysis was performed. I further certify that said material is from operations in the immediate Four Corners area.

Signed RJ Greenaker

Date of TCLP OCT 96

Name RJ GREENAKER

Title/Agency TOOL TECHNICIAN I

Address ~~4109~~ HALLIBURTON

4109 E. MAIN ST.

Signature RJ Greenaker

Date June 13, 1997

Accreditation Foreign Services
4109 E Main
Wed. 7/30 J Services.

Maximum Contaminant Concentrations For Toxicity Characteristic Wastes

	Waste Stream Constituent	Concentration (milligrams/liter mg/l)	EPA HW No.		Waste Stream Constituent	Concentration (milligrams/liter mg/l)	EPA HW No.	
	Arsenic	5.0	D004		Hexachlorobenzene	0.13	D032	
	Barium	100.0	D005		Hexachlorobutadiene	0.5	D033	
	Benzene	0.5	D018		Hexachloroethane	3.0	D034	
	Cadmium	1.0	D006		Lead	5.0	D008	
	Carbon Tetrachloride	0.5	D019		* Lindane	0.4	D013	Pesticide
Pesticide	Chlordane	0.03	D020		Mercury	0.2	D009	
	Chlorobenzene	100.0	D021		* Methoxychlor	10.0	D014	Pesticide
	Chloroform	6.0	D022		Methyl ethyl ketone	200.0	D035	
	Chromium	5.0	D007		Nitrobenzene	2.0	D036	
	Cresol	200.0	D026		Pentachlorophenol	100.0	D037	
	m-Cresol	200.0	D024		Pyridine	5.0	D038	
	o-Cresol	200.0	D023		Selenium	1.0	D010	
	p-Cresol	200.0	D025		Silver	5.0	D011	
Herbicide	* 2,4-D	10.0	D016		* 2,4,5-TP (Silvex)	1.0	D017	Herbicide
	1,4-Dichlorobenzene	7.5	D027		Tetrachloroethylene	0.7	D039	
	1,2-Dichloroethane	0.5	D028		* Toxaphene	0.5	D015	Pesticide
	1,1-Dichloroethylene	0.7	D029		Trichloroethylene	0.5	D040	
	2,4-Dinitrotoluene	0.13	D030		2,4,5-Trichlorophenol	400.0	D041	
Pesticide	* Endrin	0.02	D012		2,4,6-Trichlorophenol	2.0	D042	
Pesticide	Heptachlor	0.008	D031		Vinyl chloride	0.2	D043	

*-EP Toxic wastes; TCLP must now be utilized for characterizing these wastes

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

SUSPECTED HAZARDOUS & SOLID WASTE ANALYSIS

Client:	Halliburton Energy Services	Project #:	92132
Sample ID:	Wash Bay Solids	Date Reported:	10-22-96
Lab ID#:	A706	Date Sampled:	10-22-96
Sample Matrix:	Solid	Date Received:	10-22-96
Preservative:	Cool	Date Analyzed:	10-22-96
Condition:	Cool & Intact	Chain of Custody:	4966

Parameter	Result
IGNITABILITY:	**Did not ignite upon direct contact with flame.**
CORROSIVITY:	**7.25**
REACTIVITY:	**Did not react violently with water, strong base (10N Sodium Hydroxide), or strong acid (6N Hydrochloric acid).**

RCRA Hazardous Waste Criteria

Parameter	Hazardous Waste Criterion
GNITABILITY:	Sample Ignition upon direct contact with flame indicates hazardous waste status.
ORROSIVITY:	pH less than or equal to 2.0 or pH greater than or equal to 12.5 indicates hazardous waste status.
EACTIVITY:	Violent reaction with water, strong base (10N Sodium Hydroxide), or strong acid (6N Hydrocholoric Acid) indicates hazardous waste status.
ference:	40 CFR part 261 Subpart C sections 261.21 - 261.23, July 1, 1992.
mments:	**4109 E. Main, Farmington, NM.**

alyst L. ' ee

Review Stacy W Sendler

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS

Client:	Halliburton Energy Services	Project #:	92132
Sample ID:	Wash Bay Solids	Date Reported:	10-29-96
Laboratory Number:	A706	Date Sampled:	10-22-96
Chain of Custody:	4966	Date Received:	10-22-96
Sample Matrix:	Solid	Date Extracted:	10-22-96
Preservative:	Cool	Date Analyzed:	10-28-96
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.0004	0.2
1,1-Dichloroethene	ND	0.0002	0.7
2-Butanone (MEK)	ND	0.0003	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	ND	0.0002	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	103%
	Bromofluorobenzene	96%

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 #:	92132
Sample ID:	Wash Bay Solids	Date Reported:	10-29-96
Laboratory Number:	A706	Date Sampled:	10-22-96
Chain of Custody:	4966	Date Received:	10-22-96
Sample Matrix:	Solid	Date Extracted:	10-22-96
Preservative:	Cool	Date Analyzed:	10-28-96
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	99%
	2,4,6-Tribromophenol	102%

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. 198

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

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	Halliburton Energy Services	Project #:	92132
Sample ID:	Wash Bay Solids	Date Reported:	10-28-96
Laboratory Number:	A706	Date Sampled:	10-22-96
Chain of Custody:	4966	Date Received:	10-22-96
Sample Matrix:	Solid	Date Extracted:	10-22-96
Preservative:	Cool	Date Analyzed:	10-28-96
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	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: **4109 E. Main, Farmington, NM.**

Dean L. Ayerson
Analyst

Stacy W Sendler
Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	Halliburton Energy Services	Project #:	92132
Sample ID:	Wash Bay Solids	Date Reported:	10-29-96
Laboratory Number:	A706	Date Sampled:	10-22-96
Chain of Custody:	4966	Date Received:	10-22-96
Sample Matrix:	Solid	Date Analyzed:	10-29-96
Preservative:	Cool	Date Extracted:	10-22-96
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
Arsenic	0.025	0.001	5.00
Barium	0.42	0.01	100
Cadmium	0.057	0.001	1.00
Chromium	0.001	0.001	5.00
Lead	0.009	0.001	5.00
Mercury	ND	0.001	0.200
Selenium	ND	0.001	1.00
Silver	ND	0.001	5.0

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

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

Comments: **4109 E. Main, Farmington, NM.**

Analyst

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ENVIROTECH LABS

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:	10-29-96
Laboratory Number:	10-28-TCV.BLANK	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	10-28-96
Condition:	N/A	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.0004	0.2
1,1-Dichloroethene	ND	0.0002	0.7
2-Butanone (MEK)	ND	0.0003	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	ND	0.0002	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	96%
	Bromofluorobenzene	96%

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 A689, A706 and A713.

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:	Method Blank	Date Reported:	10-29-96
Laboratory Number:	10-22-TCV.MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	10-28-96
Condition:	N/A	Date Extracted:	10-22-96
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.0004	0.2
1,1-Dichloroethene	ND	0.0002	0.7
2-Butanone (MEK)	ND	0.0003	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	ND	0.0002	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	101%

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 A689, A706 and A713.

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

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	10-29-96
Laboratory Number:	A706	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	10-28-96
Condition:	N/A	Date Extracted:	10-22-96

Parameter	Sample Result (mg/L)	Duplicate Sample Result (mg/L)	Detection Limits (mg/L)	Percent Difference
Vinyl Chloride	ND	ND	0.0004	0.0%
1,1-Dichloroethene	ND	ND	0.0002	0.0%
2-Butanone (MEK)	ND	ND	0.0003	0.0%
Chloroform	ND	ND	0.0001	0.0%
Carbon Tetrachloride	ND	ND	0.0001	0.0%
Benzene	ND	ND	0.0002	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 A689, A706 and A713.

Denise L. Ajeman
Analyst

Stacy W Sendler
Review

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ENV ROTECH 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:	10-29-96
Laboratory Number:	A706	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	10-28-96
Condition:	N/A	Date Extracted:	10-22-96

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	0.020	0.0203	0.0004	102%	28-163
1,1-Dichloroethene	ND	0.020	0.0217	0.0002	108%	43-143
2-Butanone (MEK)	ND	0.020	0.0196	0.0003	97%	47-132
Chloroform	ND	0.020	0.0199	0.0001	99%	49-133
Carbon Tetrachloride	ND	0.020	0.0193	0.0001	97%	43-143
Benzene	ND	0.020	0.0207	0.0002	103%	39-150
1,2-Dichloroethane	ND	0.020	0.0185	0.0001	93%	51-147
Trichloroethene	ND	0.020	0.0189	0.0003	95%	35-146
Tetrachloroethene	ND	0.020	0.0195	0.0005	97%	26-162
Chlorobenzene	ND	0.020	0.0204	0.0003	102%	38-150
1,4-Dichlorobenzene	ND	0.020	0.0193	0.0002	96%	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 A689, A706 and A713.

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ENVIROTECH LABS

EPA METHOD 8040
PHENOLS
Quality Assurance Report
Laboratory Blank

Client:	QA/QC	Project #:	N/A
Sample ID:	Laboratory Blank	Date Reported:	10-29-96
Laboratory Number:	10-28-TCA.BLANK	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	10-28-96
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	100 %
	2,4,6-tribromophenol	102 %

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. 198

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

Comments: QA/QC for samples A689, A706 and A713.

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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:	10-29-96
Laboratory Number:	10-22-TCA.MB	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	Cool	Date Extracted:	10-22-96
Condition:	Cool & Intact	Date Analyzed:	10-28-96
		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	94%
	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. 198

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

Comments: **QA/QC for samples A689, A706 and A713.**

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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:	10-29-96
Laboratory Number:	A706	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	Cool	Date Extracted:	10-22-96
Condition:	Cool & Intact	Date Analyzed:	10-28-96
		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 A689, A706 and A713.

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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:	10-28-96
Laboratory Number:	10-28-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:	10-28-96
		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 A689, A706 and A713.

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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:	10-28-96
Laboratory Number:	10-22-TBN.MB	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	Cool	Date Extracted:	10-22-96
Condition:	Cool and Intact	Date Analyzed:	10-28-96
		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 A689, A706 and A713.

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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:	10-28-96
Laboratory Number:	A706	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Extracted:	10-22-96
Condition:	N/A	Date Analyzed:	10-28-96
		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 A689, A706 and A713.

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER ENVIRONMENT

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Blanks	Date Reported:	10-29-96
Laboratory Number:	N/A	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	10-29-96
Condition:	N/A	Date Extracted:	N/A

Parameter	Instrument Blank (mg/L)	Method Blank (mg/L)	Det. Limit (mg/L)
Arsenic	ND	ND	0.001
Barium	ND	ND	0.01
Cadmium	ND	ND	0.001
Chromium	ND	ND	0.001
Lead	ND	ND	0.001
Mercury	ND	ND	0.001
Selenium	ND	ND	0.001
Silver	ND	ND	0.001

ND - Parameter not detected at the stated detection limit.

eferences: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

mments: QA/QC for samples A706, A711 and A713.

'yst

Stacy W Sendler
Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	10-29-96
Laboratory Number:	A706	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	10-29-96
Condition:	N/A	Date Extracted:	10-22-96

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Percent Difference
Arsenic	0.025	0.026	3.9%
Barium	0.42	0.41	2.4%
Cadmium	0.057	0.057	0.0%
Chromium	0.001	0.001	0.0%
Lead	0.009	0.009	0.0%
Mercury	ND	ND	0.0%
Selenium	ND	ND	0.0%
Silver	ND	ND	0.0%

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Maximum Difference
	Trace Metals	30 %

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

Comments: QA/QC for samples A706, A711 and A713.

Analyst

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ENVIROTECH LABS
PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Spike	Date Reported:	10-29-96
Laboratory Number:	A706	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	10-29-96
Condition:	N/A	Date Extracted:	10-22-96

Parameter	Spike Added (mg/L)	Sample Result (mg/L)	Spiked Sample Result (mg/L)	Percent Recovery
Arsenic	0.100	0.025	0.125	100%
Barium	1.00	0.42	1.41	99%
Cadmium	0.050	0.057	0.106	99%
Chromium	0.050	0.001	0.051	100%
Lead	0.100	0.009	0.109	100%
Mercury	0.025	ND	0.024	96%
Selenium	0.100	ND	0.099	99%
Silver	0.050	ND	0.049	98%

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Acceptance Range %
	TCLP Metals	80 - 120 %

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

Comments: QA/QC for samples A706, A711 and A713.

Dean L. Ajensen
Analyst

Stacy W Sendler
Review

CHAIN OF CUSTODY RECORD

Client/Project Name: Halliburton Energy Services

Project Location: 4109 E Main St, Farming

Sampler: (Signature)

Chain of Custody Tape No.: 92132

ANALYSIS/PARAMETERS

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TCLP w/o HCl	Remarks
Work	10.	9:50	0	Solid	1	✓	

Relinquished by: (Signature)	Date	Time	Received	Date	Time
	10.22.96	10:30		10-22-96	10:30

Relinquished by: (Signature) Received by: (Signature)

(Signature) Received by: (Signature)

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

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P. O. Box 1980
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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

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: 92101

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒ 5-13-97 Denny Foust Verbal Approval Received: Yes ☒ No ☐	4. Generator BJ Services 5. Originating Site Main Yard
2. Management Facility Destination Envirotech Soil RemediationFac. Landfarm #2	6. Transporter Envirotech
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	3250 Southside River Rd. Farmington N.M.

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
TCLP ATTACHED

RECEIVED JUN - 4 1997 OIL CON. DIV. DIST. 3

RECEIVED JUN 1 1 1997 OIL CON. DIV. DIST. 3

Estimated Volume 80 cy Known Volume (to be entered by the operator at the end of the haul) 64 cy

SIGNATURE: Harlan M Brown (Waste Management Facility Authorized Agent) TITLE: Landfarm Manager DATE: 5-13-97

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. (505)632-0615

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 6/4/97

APPROVED BY: Martyne J. Kieling TITLE: Environmental Geologist DATE: 6/6/97

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
1000 Rio Brazos Road
Aztec, 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: 92101

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒ Denny Foust 5-13-97	4. Generator BJ Services
Verbal Approval Received: Yes ☒ No ☐	5. Originating Site Main Yard
2. Management Facility Destination Envirotech Soil RemediationFac. Landfarm #2	6. Transporter ENVIROTECH
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	3250 Southside River Rd. Farmington N.M.

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
TCLP ATTACHED

RECEIVED
JUN - 4 1997
OIL CON. DIV.
DIST. 3

Estimated Volume 80 cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 5-13-97
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: 6/4/97

APPROVED BY: _____ TITLE: _____ DATE: _____

Generator BJ Services

RECEIVED
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OIL CON. DIV.
DIST. 3

CERTIFICATE OF WASTE STATUS
OILFIELD NON-EXEMPT WASTE MATERIAL

Originating Location: 3250 South side River Road, Farmington, N.M

Source: Wash Bay Solids

Disposal Location: Envirotech Soil Remediation Facility, (NMED) Hilltop, New Mexico

"As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt oilfield production waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, to verify the nature as non-hazardous. I further certify that to my knowledge no "hazardous or listed waste" pursuant to the provisions of 40 CFR, part 261, Subparts C and D, has been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, section 261.3(b)."

I, the undersigned, as the agent for BJ Services concur with the status of the waste from the subject site.

Name Lis Baugh
Title/Agency Facilities Supervisor
Address 3250 South Side River Road Farmington, New Mex. 87401
Signature Lis Baugh
Date 5/13/97

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ENVIROTECH INC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

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

RECEIVED MAY 16 1997

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 Characterization Leaching Procedures (TCLP) analysis was performed. I further certify that said material is from operations in the immediate Four Corners area.

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JUN - 4 1997
OIL CON. DIV.
DIST. 3

Signed Les Baugh

Date of TCLP 1/7/97

Name Les Baugh

Title/Agency Facilities Supv.

Address 3250 Southside River Road
Farmington, New Mexico

Signature Les Baugh

Date 5/13/97

92101
BJ Services
Wash Bay Solids

Maximum Contaminant Concentrations For Toxicity Characteristic Wastes

	Waste Stream Constituent	Concentration (milligrams/liter, mg/l)	EPA HW No.		Waste Stream Constituent	Concentration (milligrams/liter, mg/l)	EPA HW No.	
	* Arsenic	5.0	D004		Hexachlorobenzene	0.13	D032	
	* Barium	100.0	D005		Hexachlorobutadiene	0.5	D033	
	Benzene	0.5	D018		Hexachloroethane	3.0	D034	
	* Cadmium	1.0	D006		* Lead	5.0	D008	
	Carbon Tetrachloride	0.5	D019		* Lindane	0.4	D013	Pesticide
Pesticide	Chlordane	0.03	D020		* Mercury	0.2	D009	
	Chlorobenzene	100.0	D021		* Methoxychlor	10.0	D014	Pesticide
	Chloroform	6.0	D022		Methyl ethyl ketone	200.0	D035	
	Chromium	5.0	D007		Nitrobenzene	2.0	D036	
	Cresol	200.0	D026		Pentachlorophenol	100.0	D037	
	m-Cresol	200.0	D024		Pyridine	5.0	D038	
	o-Cresol	200.0	D023		* Selenium	1.0	D010	
	p-Cresol	200.0	D025		* Silver	5.0	D011	
Herbicide	* 2,4-D	10.0	D016		* 2,4,5-TP (Silvex)	1.0	D017	Herbicide
	1,4-Dichlorobenzene	7.5	D027		Tetrachloroethylene	0.7	D039	
	1,2-Dichloroethane	0.5	D028		* Toxaphene	0.5	D015	Pesticide
	1,1-Dichloroethylene	0.7	D029		Trichloroethylene	0.5	D040	
	2,4-Dinitrotoluene	0.13	D030		2,4,5-Trichlorophenol	400.0	D041	
Pesticide	* Endrin	0.02	D012		2,4,6-Trichlorophenol	2.0	D042	
Pesticide	Heptachlor	0.008	D031		Vinyl chloride	0.2	D043	

* = EP Toxic wastes; TCLP must now be utilized for characterizing these wastes

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January 14, 1997

Mr. Les Baugh
B. J. Services, Inc.
3220 Bloomfield Highway
Farmington, New Mexico 87401

Project No.: 92101

Dear Mr. Baugh,

Enclosed are the analytical results for the samples collected from the "Yard" at the Southside River Road, Farmington, New Mexico location. One water sample and two composite soil samples were collected by Envirotech personnel and delivered to the Envirotech laboratory on 01/03/97. The water sample was analyzed for Volatile Organic Compounds per USEPA Method 8020 and Halogenated Volatile Organic Compounds per USEPA Method 8010. The soil samples were analyzed for Hazardous Waste Characterization components (TCLP Volatiles, Semi-volatiles, Trace Metals, Corrosivity, Reactivity, and Ignitability).

The samples were documented on Envirotech Chain of Custody No. 5051 and assigned Laboratory Nos. A892 (Separator Water Discharge), A893 (Wash Bay), and A894 (Floor Dry Sweep) for tracking purposes. The samples were analyzed 01/03/97 through 01/14/97 using USEPA or equivalent methods.

Results of the analysis indicate that Laboratory Nos. A893 and A894 are not characteristic hazardous wastes as defined by 40 CFR, Section 261, Subpart C for the noted compounds.

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. Sendler

Stacy W. Sendler
Environmental Scientist/Laboratory Manager

enc.

SWS/sws

92101lb3.wpd

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SUSPECTED HAZARDOUS & SOLID WASTE ANALYSIS

Client:	B J Services	Project #:	92101
Sample ID:	Wash Bay	Date Reported:	01-07-97
Lab ID#:	A893	Date Sampled:	01-03-97
Sample Matrix:	Soil	Date Received:	01-03-97
Preservative:	Cool	Date Analyzed:	01-03-97
Condition:	Cool & Intact	Chain of Custody:	5051

Parameter	Result
IGNITABILITY:	**Did not ignite upon direct contact with flame.**
CORROSIVITY:	**8.40**
REACTIVITY:	**Did not react violently with water, strong base (10N Sodium Hydroxide), or strong acid (6N Hydrochloric acid).**

RCRA Hazardous Waste Criteria

Parameter	Hazardous Waste Criterion
IGNITABILITY:	Sample Ignition upon direct contact with flame indicates hazardous waste status.
CORROSIVITY:	pH less than or equal to 2.0 or pH greater than or equal to 12.5 indicates hazardous waste status.
REACTIVITY:	Violent reaction with water, strong base (10N Sodium Hydroxide), or strong acid (6N Hydrocholoric Acid) indicates hazardous waste status.
Reference:	40 CFR part 261 Subpart C sections 261.21 - 261.23, July 1, 1992.
Comments:	**Yard, 3250 Southside River Rd., Farmington, NM. Sludge Composite.**

Denise L. Ajenco
Analyst

Stacy W Sendler
Review

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EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS

Client:	B J Services	Project #:	92101
Sample ID:	Wash Bay	Date Reported:	01-09-97
Laboratory Number:	A893	Date Sampled:	01-03-97
Chain of Custody:	5051	Date Received:	01-03-97
Sample Matrix:	Soil	Date Extracted:	01-07-97
Preservative:	Cool	Date Analyzed:	01-08-97
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	101%
	Bromofluorobenzene	96%

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: **Yard, 3250 Southside River Rd., Farmington, NM.**
Sludge Composite.

Analyst

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8040
PHENOLS

Client:	B J Services	Project #:	92101
Sample ID:	Wash Bay	Date Reported:	01-14-97
Laboratory Number:	A893	Date Sampled:	01-03-97
Chain of Custody:	5051	Date Received:	01-03-97
Sample Matrix:	Soil	Date Extracted:	01-07-97
Preservative:	Cool	Date Analyzed:	01-13-97
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	99%
	2,4,6-Tribromophenol	98%

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. 198

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

Comments: **Yard, 3250 southside River Rd., Farmington, NM.**
Sludge Composite.

Analyst

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ENVIROTECH LABS
PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	B J Services	Project #:	92101
Sample ID:	Wash Bay	Date Reported:	01-14-97
Laboratory Number:	A893	Date Sampled:	01-03-97
Chain of Custody:	5051	Date Received:	01-03-97
Sample Matrix:	Soil	Date Extracted:	01-07-97
Preservative:	Cool	Date Analyzed:	01-13-97
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: **Yard, 3250 Southside River Rd., Farmington, NM.**
Sludge Composite.

Analyst

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

E[illegible] ETHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS

Client:	B J Services	Project #:	92101
Sample ID:	Wash Bay	Date Reported:	01-14-97
Laboratory Number:	A893	Date Sampled:	01-03-97
Chain of Custody:	5051	Date Received:	01-03-97
Sample Matrix:	Soil	Date Analyzed:	01-14-97
Preservative:	Cool	Date Extracted:	01-07-97
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
Arsenic	ND	0.001	5.00
Barium	1.72	0.01	100
Cadmium	0.009	0.001	1.00
Chromium	ND	0.001	5.00
Lead	0.081	0.001	5.00
Mercury	ND	0.001	0.200
Selenium	ND	0.001	1.00
Silver	ND	0.001	5.0

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

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

Comments: **Yard, 3250 Southside River Rd., Farmington, NM. Sludge Composite.**

Denn L. Ajenen
Analyst

Stacy W Sendler
Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

QUALITY ASSURANCE / QUALITY CONTROL DOCUMENTATION

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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:	Laboratory Blank	Date Reported:	01-09-97
Laboratory Number:	01-08-TCV.BLANK	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	01-08-97
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	97%
	Bromofluorobenzene	96%

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 A893 - A894.**

Dean L. Ajenco
Analyst

Stacy W Sendler
Review

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ENVIRO-TECH LABS
PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHODS 10/8020
AROMATIC / HALOGENATED VOLATILE ORGANICS
Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	Method Blank	Date Reported:	01-09-97
Laboratory Number:	01-07-TCV.MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	01-08-97
Condition:	N/A	Date Extracted:	01-07-97
		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	96%

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 A893 - A894.**

Analyst

Review

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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 Duplicate	Date Reported:	01-09-97
Laboratory Number:	A893	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	01-08-97
Condition:	N/A	Date Extracted:	01-07-97

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 A893 - A894.**

Analyst

Review

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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:	01-09-97
Laboratory Number:	A893	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	01-08-97
Condition:	N/A	Date Extracted:	01-07-97

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	0.020	0.0199	0.0001	99%	28-163
1,1-Dichloroethene	ND	0.020	0.0194	0.0001	97%	43-143
2-Butanone (MEK)	ND	0.020	0.0193	0.0001	96%	47-132
Chloroform	ND	0.020	0.0198	0.0001	98%	49-133
Carbon Tetrachloride	ND	0.020	0.0196	0.0001	97%	43-143
Benzene	ND	0.020	0.0197	0.0001	98%	39-150
1,2-Dichloroethane	ND	0.020	0.0193	0.0001	96%	51-147
Trichloroethene	ND	0.020	0.0197	0.0003	99%	35-146
Tetrachloroethene	ND	0.020	0.0195	0.0005	98%	26-162
Chlorobenzene	ND	0.020	0.0193	0.0003	97%	38-150
1,4-Dichlorobenzene	ND	0.020	0.0200	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 A893 - A894.**

Dean L. O'Neill
Analyst

Stacy W Sendler
Review

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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:	01-14-97
Laboratory Number:	01-13-TCA.BLANK	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	01-13-97
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	100 %
	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. 198

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

Comments: **QA/QC for samples A893 - A894.**

Analyst

Review

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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:	01-14-97
Laboratory Number:	01-07-TCA.MB	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	Cool	Date Extracted:	01-07-97
Condition:	Cool & Intact	Date Analyzed:	01-13-97
		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	99%
	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. 198

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

Comments: **QA/QC for samples A893 - A894.**

Analyst

Review

900

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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:	01-14-97
Laboratory Number:	A893	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	Cool	Date Extracted:	01-07-97
Condition:	Cool & Intact	Date Analyzed:	01-13-97
		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 A893 - A894.**

Analyst

Review

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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:	01-13-97
Laboratory Number:	01-13-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:	01-13-97
		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 A893 - A894.**

Analyst

Review

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ENVIRO TECH 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:	01-14-97
Laboratory Number:	01-07-TBN.MB	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	Cool	Date Extracted:	01-07-97
Condition:	Cool and Intact	Date Analyzed:	01-13-97
		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 A893 - A894.**

Analyst

Review

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ENVIRO TECH 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:	01-14-97
Laboratory Number:	A893	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Extracted:	01-07-97
Condition:	N/A	Date Analyzed:	01-13-97
		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 A893 - A894.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Blanks	Date Reported:	01-14-97
Laboratory Number:	N/A	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	01-14-97
Condition:	N/A	Date Extracted:	N/A

Parameter	Instrument Blank (mg/L)	Method Blank (mg/L)	Det. Limit (mg/L)
Arsenic	ND	ND	0.001
Barium	ND	ND	0.01
Cadmium	ND	ND	0.001
Chromium	ND	ND	0.001
Lead	ND	ND	0.001
Mercury	ND	ND	0.001
Selenium	ND	ND	0.001
Silver	ND	ND	0.001

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

Comments: **QA/QC for samples A893 - A894.**

Dean L. Spencer
Analyst

Stacy W Sendler
Review

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ENVIRO TECH LABS
PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	01-14-97
Laboratory Number:	A893	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	01-14-97
Condition:	N/A	Date Extracted:	01-07-97

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Percent Difference
Arsenic	ND	ND	0.0%
Barium	1.72	1.70	1.2%
Cadmium	0.009	0.008	11.8%
Chromium	ND	ND	0.0%
Lead	0.081	0.081	0.0%
Mercury	ND	ND	0.0%
Selenium	ND	ND	0.0%
Silver	ND	ND	0.0%

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Maximum Difference
	Trace Metals	30 %

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

Comments: **QA/QC for samples A893 - A894.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Spike	Date Reported:	01-14-97
Laboratory Number:	A893	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	01-14-97
Condition:	N/A	Date Extracted:	01-07-97

Parameter	Spike Added (mg/L)	Sample Result (mg/L)	Spiked Sample Result (mg/L)	Percent Recovery
Arsenic	**0.100**	**ND**	**0.099**	**99%**
Barium	**1.00**	**1.72**	**2.70**	**99%**
Cadmium	**0.050**	**0.009**	**0.058**	**98%**
Chromium	**0.050**	**ND**	**0.049**	**98%**
Lead	**0.100**	**0.081**	**0.181**	**100%**
Mercury	**0.025**	**ND**	**0.025**	**100%**
Selenium	**0.100**	**ND**	**0.099**	**99%**
Silver	**0.050**	**ND**	**0.050**	**100%**

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Acceptance Range %
	TCLP Metals	**80 - 120 %**

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

Comments: **QA/QC for samples A893 - A894.**

Analyst

Review

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908

5051

CHAIN OF CUSTODY RECORD

Client/Project Name: BJ SERVICES 92101

Project Location: YARD 3250 SOUTH SIDE RIVER RD. FARMINGTON, NM

Sampler: (Signature) [signature]

Chain of Custody Tape No.

ANALYSIS/PARAMETERS

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	8020	8010	TCLP W/O PEH	RCRA (RESIST., REACT., CORROSIVITY)			Remarks
SEPARATOR WATER DISCHARGE	1/13/97	1016	A892	WATER	2	✓	✓					
WASH BAY	1/13/97	1026	A893	SOIL	1			✓	✓			SLUDGE COMPOSITE
FLOOR DRY SWEEP	1/3/97	1438	A894	SOIL	1			✓	✓			SOURCE: OIL FILTERS + FLOOR DRY COMPOSITE

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	1/3/97	1455	[signature]	1/3/97	1455
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

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

908

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
Aztec, 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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DEC 31 1997
Environmental Bureau
Oil Conservation Division
Env JN: 04055

Form C-138
Originated 8/8/9

Submit Original Plus 1 Copy to appropriate District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator THRIFTWAY REFINING
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site REFINERY
2. Management Facility Destination Envirotech Soil Remediation Fac. Landfarm #2	6. Transporter BIOTECH
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State NEW MEXICO
7. Location of Material (Street Address or ULSTR)	626 CR 5500

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:

Tank Bottom Sediments generated during Clean up of Thriftway Tank # 31

RECEIVED
DEC 18 1997
OIL CON. DIV.
DIST. 3

Verbally approved by Roger Anderson

Estimated Volume 7 cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 12-19-97
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. Foust TITLE: Geologist DATE: 12/19/97

APPROVED BY: Martyne J. Kieling TITLE: Env. Geologist DATE: 12/31/97

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
Aztec, 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: 04055

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator THRIFTWAY REFINING
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site REFINERY
2. Management Facility Destination Envirotech Soil RemediationFac Landfarm #2	6. Transporter BIOTECH
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State NEW MEXICO
7. Location of Material (Street Address or ULSTR)	626 CR 5500

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:

TANK Bottom Sediments generated during Clean up of THRIFTWAY TANK # 31

RECEIVED
DEC 19 1997
OIL CON. DIV.
DIST. 3

Estimated Volume 7 cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 12-19-97
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. Foust TITLE: Geologist DATE: 12/19/97

APPROVED BY: _____ TITLE: _____ DATE: _____

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
Thriftway Bloomfield Refinery 710 E 20th Street - Suite 400 Farmington, NM 87401	Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico
3. Originating Site (name): Thriftway Bloomfield Refinery 626 CR 5500 Bloomfield, NM Attach list of originating sites as appropriate	**Location of the Waste (Street address &/or ULSTR):**
4. Source and Description of Waste TANK BOTTOMS - TANK 31 This is the same material as was submitted on the request in June 1997. No other materials have been added. No liquids are present.	

I, TERRY Griffin (Print Name) representative for:

Thriftway Bloomfield Ref. 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

X 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

X RCRA Hazardous Waste Analysis

X Chain of Custody

___ Other (description):

Name (Original Signature): Terry Griffin

Title: Project Manager

Date: 12/19/97

O. Box 1
bbs, NM 88240 (505) 393-6161
District II - (505) 748-1283
11 S. First
rtesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
tec, NM 87410
District IV - (505) 827-7131

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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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Thriftway Refining
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Refinery
2. Management Facility Destination Envirotech Soil RemediationFac Landfarm #2	6. Transporter Biotech
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	County Road 5500

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:

Tank Bottom sediments generated during clean up of Thriftway Tank #31

TCLP ATTACHED

C-117A

RECEIVED
JUN 24 1997
Environmental Bureau
Oil Conservation Division

RECEIVED
JUN 19 1997
OIL CON. DIV
DIST. 3

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

SIGNATURE: Harlan M. Brown
Waste Management Facility Authorized Agent
TITLE: Landfarm Manager DATE: 6-16-97

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. (505)632-0615

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 6/23/97

APPROVED BY: Martyne J. Kieling TITLE: Env Geologist. DATE: 6/24/97

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
1000 Rio Brazos Road
Aztec, 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: 04055

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator THRIFTWAY Refining
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Refinery
2. Management Facility Destination Envirotech Soil RemediationFac. Landfarm #2	6. Transporter Biotech
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	County Road 5500

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:

Tank Bottom sediments generated during clean up of THRIFTWAY TANK #31

TCLP ATTACHED

To OCD 6-16-97

Estimated Volume 7 cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 6-16-97
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: _____

ENVIROTECH INC.
PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CERTIFICATE OF WASTE STATUS
OILFIELD NON-EXEMPT WASTE MATERIAL

Originating Location: Thriftway Bloomfield Refinery

Source: TANK BOTTOMS

Disposal Location: Envirotech Soil Remediation Facility, (NMED) Hilltop, New Mexico

"As a condition of acceptance for disposal, I hereby certify that this waste is a non-exempt oilfield production waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. To my knowledge, this waste will be analyzed pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, to verify the nature as non-hazardous. I further certify that to my knowledge no "hazardous or listed waste" pursuant to the provisions of 40 CFR, part 261, Subparts C and D, has been added or mixed with the waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, section 261.3(b)."

I, the undersigned, as the agent for BioTech Remediation concur with the status of the waste from the subject site.

Name TERRY Griffin
Title/Agency Proj MGT.
Address 710 E 20th St - Suite 400
Farmington, NM 87401
Signature Terry Griffin
Date 6-17-97

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May 13, 1997

Ms. Terry Griffin
Biotech Remediation, Inc.
710 E. 20th Street Suite 400
Farmington, NM 87401

Dear Ms. Griffin,

Enclosed are the analytical results for the sample collected from the "T-Way Tank #31" location. One solid sample identified as "#1 & #2" was collected by Biotech Remediation personnel and delivered to the Envirotech laboratory for Hazardous Waste Characterization ((Volatile and Semi-volatile Organics, Trace Metals, Reactivity, Corrosivity, and Ignitability).

The sample was documented on Envirotech Chain of Custody No. 5221 and assigned Laboratory No. B188 for tracking purposes. The sample was extracted on 05/06/97 and analyzed on 05/07/97 - 05/13/97 using USEPA or equivalent methods.

Results of the analysis indicate that the material from the designated location is not a characteristic hazardous waste as defined by 40 CFR, Section 261, Subpart C for the noted compounds.

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. Sendler

Stacy W. Sendler
Environmental Scientist/Laboratory Manager

enc.

SWS/sws 04055lb6wpd

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SUSPECTED HAZARDOUS SOLID WASTE ANALYSIS

Client:	Biotech Remediation	Project #:	04055
Sample ID:	#1 & #2 Composite	Date Reported:	05-06-97
Lab ID#:	B188	Date Sampled:	05-05-97
Sample Matrix:	Solid	Date Received:	05-05-97
Preservative:	Cool	Date Analyzed:	05-06-97
Condition:	Cool & Intact	Chain of Custody:	5221

Parameter	Result	
IGNITABILITY:	**Negative**	
CORROSIVITY:	**Negative**	**pH = 6.73**
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: **T-Way Refinery. Tank #31.**

Analyst

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EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS

Client:	Biotech Remediation	Project #:	04055
Sample ID:	#1 & #2 Composite	Date Reported:	05-07-97
Laboratory Number:	B188	Date Sampled:	05-05-97
Chain of Custody:	5221	Date Received:	05-05-97
Sample Matrix:	Solid	Date Extracted:	05-06-97
Preservative:	Cool	Date Analyzed:	05-07-97
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	0.0674	0.0001	0.7
2-Butanone (MEK)	0.0240	0.0001	200
Chloroform	0.0495	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	0.138	0.0001	0.5
1,2-Dichloroethane	ND	0.0001	0.5
Trichloroethene	ND	0.0003	0.5
Tetrachloroethene	0.0120	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	102%
	Bromofluorobenzene	102%

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: **T-Way Refinery. Tank #31.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8040
PHENOLS

Client:	Biotech Remediation	Project #:	04055
Sample ID:	#1 & #2 Composite	Date Reported:	05-09-97
Laboratory Number:	B188	Date Sampled:	05-05-97
Chain of Custody:	5221	Date Received:	05-05-97
Sample Matrix:	Solid	Date Extracted:	05-06-97
Preservative:	Cool	Date Analyzed:	05-08-97
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	99%
	2,4,6-Tribromophenol	95%

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. 198

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

Comments: **T-Way Refinery. Tank #31. PO #B97-0316**

Dean L. Spencer
Analyst

Stacy W Sendler
Review

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	Biotech Remediation	Project #:	04055
Sample ID:	#1 & #2 Composite	Date Reported:	05-09-97
Laboratory Number:	B188	Date Sampled:	05-05-97
Chain of Custody:	5221	Date Received:	05-05-97
Sample Matrix:	Solid	Date Extracted:	05-06-97
Preservative:	Cool	Date Analyzed:	05-08-97
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	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: **T-Way Refinery. Tank #31. PO# B97-0316**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	Biotech Remediation	Project #:	04055
Sample ID:	#1 & #2 Composite	Date Reported:	05-09-97
Laboratory Number:	B188	Date Sampled:	05-05-97
Chain of Custody:	5221	Date Received:	05-05-97
Sample Matrix:	Solid	Date Analyzed:	05-09-97
Preservative:	Cool	Date Extracted:	05-06-97
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
Arsenic	0.082	0.001	5.00
Barium	0.08	0.01	100
Cadmium	ND	0.001	1.00
Chromium	ND	0.001	5.00
Lead	0.048	0.001	5.00
Mercury	ND	0.001	0.200
Selenium	0.002	0.001	1.00
Silver	ND	0.001	5.0

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

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

Comments: **T-Way Refinery. Tank #31. PO #B97-0316.**

Analyst

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

QUALITY ASSURANCE / QUALITY CONTROL DOCUMENTATION

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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:	Laboratory Blank	Date Reported:	05-07-97
Laboratory Number:	05-07-TCV.BLANK	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	05-07-97
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	101%
	Bromofluorobenzene	101%

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 B188.**

Analyst

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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:	05-07-97
Laboratory Number:	05-06-TCV.MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	05-07-97
Condition:	N/A	Date Extracted:	05-06-97
		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	101%

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 B188.**

Analyst

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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:	05-07-97
Laboratory Number:	B188	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	05-07-97
Condition:	N/A	Date Extracted:	05-06-97

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	0.0674	0.0659	0.0001	2.2%
2-Butanone (MEK)	0.0240	0.0239	0.0001	0.2%
Chloroform	0.0495	0.0474	0.0001	4.2%
Carbon Tetrachloride	ND	ND	0.0001	0.0%
Benzene	0.138	0.130	0.0001	6.3%
1,2-Dichloroethane	ND	ND	0.0001	0.0%
Trichloroethene	ND	ND	0.0003	0.0%
Tetrachloroethene	0.0120	0.0128	0.0005	6.9%
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 B188.

Analyst

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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:	05-07-97
Laboratory Number:	B188	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	05-07-97
Condition:	N/A	Date Extracted:	05-06-97

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	0.0496	0.0001	98%	28-163
1,1-Dichloroethene	0.0674	0.050	0.116	0.0001	99%	43-143
2-Butanone (MEK)	0.0240	0.050	0.0734	0.0001	99%	47-132
Chloroform	0.0495	0.050	0.0992	0.0001	100%	49-133
Carbon Tetrachloride	ND	0.050	0.0488	0.0001	98%	43-143
Benzene	0.138	0.050	0.186	0.0001	99%	39-150
1,2-Dichloroethane	ND	0.050	0.0498	0.0001	100%	51-147
Trichloroethene	ND	0.050	0.0529	0.0003	100%	35-146
Tetrachloroethene	0.0120	0.050	0.0618	0.0005	100%	26-162
Chlorobenzene	ND	0.050	0.0498	0.0003	99%	38-150
1,4-Dichlorobenzene	ND	0.050	0.0527	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 B188.**

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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:	05-09-97
Laboratory Number:	05-08-TCA.BLANK	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	05-08-97
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	101 %
	2,4,6-tribromophenol	96 %

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. 198

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

Comments: **QA/QC for sample B188.**

Analyst

Review

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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:	05-09-97
Laboratory Number:	05-06-TCA.MB	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	Cool	Date Extracted:	05-06-97
Condition:	Cool & Intact	Date Analyzed:	05-08-97
		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	102%
	2,4,6-Tribromophenol	96%

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. 198

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

Comments: **QA/QC for sample B188.**

Analyst

Stacy W Sendler
Review

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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:	05-09-97
Laboratory Number:	B188	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	Cool	Date Extracted:	05-06-97
Condition:	Cool & Intact	Date Analyzed:	05-08-97
		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 B188.**

Analyst

Review

5796 U.S. Highway 64-3014 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

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:	05-09-97
Laboratory Number:	05-08-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:	05-08-97
		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 sample B188.**

Analyst

Review

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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:	05-09-97
Laboratory Number:	05-06-TBN.MB	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	Cool	Date Extracted:	05-06-97
Condition:	Cool and Intact	Date Analyzed:	05-08-97
		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 sample B188.**

Analyst

Review

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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:	05-09-97
Laboratory Number:	B188	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Extracted:	05-06-97
Condition:	N/A	Date Analyzed:	05-08-97
		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 B188.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Blanks	Date Reported:	05-09-97
Laboratory Number:	N/A	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	05-09-97
Condition:	N/A	Date Extracted:	N/A

Parameter	Instrument Blank (mg/L)	Method Blank (mg/L)	Det. Limit (mg/L)
Arsenic	ND	ND	0.001
Barium	ND	ND	0.01
Cadmium	ND	ND	0.001
Chromium	ND	ND	0.001
Lead	ND	ND	0.001
Mercury	ND	ND	0.001
Selenium	ND	ND	0.001
Silver	ND	ND	0.001

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

Comments: **QA/QC for sample B188.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA ETHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	05-09-97
Laboratory Number:	b188	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	05-09-97
Condition:	N/A	Date Extracted:	05-06-97

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Percent Difference
Arsenic	0.082	0.082	0.0%
Barium	0.08	0.08	0.0%
Cadmium	ND	ND	0.0%
Chromium	ND	ND	0.0%
Lead	0.048	0.046	4.3%
Mercury	ND	ND	0.0%
Selenium	0.002	0.002	0.0%
Silver	ND	ND	0.0%

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Maximum Difference
	Trace Metals	**30 %**

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

Comments: **QA/QC for sample B188.**

Analyst

Stacy W Sendler

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Spike	Date Reported:	05-09-97
Laboratory Number:	B188	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	05-09-97
Condition:	N/A	Date Extracted:	05-06-97

Parameter	Spike Added (mg/L)	Sample Result (mg/L)	Spiked Sample Result (mg/L)	Percent Recovery
Arsenic	**0.100**	**0.082**	**0.182**	**100%**
Barium	**1.00**	**0.08**	**1.07**	**99%**
Cadmium	**0.050**	**ND**	**0.049**	**98%**
Chromium	**0.050**	**ND**	**0.049**	**98%**
Lead	**0.100**	**0.048**	**0.147**	**99%**
Mercury	**0.025**	**ND**	**0.024**	**96%**
Selenium	**0.100**	**0.002**	**0.101**	**99%**
Silver	**0.050**	**ND**	**0.050**	**100%**

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Acceptance Range %
	TCLP Metals	**80 - 120 %**

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

Comments: **QA/QC for sample B188.**

Analyst

Stacy W Sendler

Review

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CHAIN OF CUSTODY RECORD

PO# B97-0316

Client/Project Name	Project Location
BIOTECH REMEDIATION	T-Way Refinery Tank #31
Sampler: (Signature)	Chain of Custody Tape No.
[signature]	04055

ANALYSIS/PARAMETERS

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	Reactive	TCLP Metals	TCLP Vols.	TCLP Semi-Vols			Remarks
#1 & #2	5/5/97	12:00	B188	Solid	2	✓	✓	✓	✓			
~~#2~~	~~5/5/97~~	~~11:55~~										

Sample received cool & intact [initials]

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	5/5/97	1:23p	[signature]	5/5/97	13:23
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

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

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
[illegible] Rio Brazos Road
[illegible]c, 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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Submit Original
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District Office

Env JN: 97078-01

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☒ Non-Exempt: ☐ D.F. 13:30 12-16-97 Verbal Approval Received: Yes ☒ No ☐	4. Generator NAVAJO TRIBAL Utility Authority 5. Originating Site Montezuma Creek Gas Sweetening Plt.
2. Management Facility Destination Envirotech Soil RemediationFac Landfarm #2	6. Transporter GARCIA
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State UTAH - NAV Nat. → NM
7. Location of Material (Street Address or ULSTR)	SW4 Sec 32 T40S R24E, SJC. UTAH

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, sulfur/water, from gas sweeting operation

NNEPA Approval ATTACHED

BOL 10925 Blend Facility LF#2 → LF245. V.9 9 bbls

RECEIVED
JAN 16 1998
OIL CON. DIV
DIST. 3

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

SIGNATURE: Harlan M Brown TITLE: Landfarm Manager DATE: 1-5-98
Waste Management FacilityAuthorized Agent

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. (505)632-0615

(This space for State Use)

APPROVED BY: Denny G. Fenton TITLE: Geologist DATE: 1/20/98

APPROVED BY: Ernie Busch TITLE: Geologist DATE: 1/23/98

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address: Mr. Kenneth L. Craig Navajo Tribal Utility Authority P.O. Box 170 Fort Defiance, Arizona 86504	**2. Destination Name:** Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico
3. Originating Site (name): NTUA Gas Sweetening Facility Montezuma Creek, Utah Attach list of originating sites as appropriate	**Location of the Waste (Street address &/or ULSTR):** Sec 32 T40SR24E SW 1/4 Section

4. Source and Description of Waste

NTUA Gas Sweetening Facility

Liquid hydrocarbons removed from the production stream. A solution consisting of water and sulfur.

I, Kenneth L. Craig representative for:
(Print Name)
NAVAJO TRIBAL UTILITY AUTHORITY 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)

XX **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): Tom Craig

Title: Manager, Operations Division

Date: December 16, 1997

THE NAVAJO NATION

ALBERT A. HALE
PRESIDENT

THOMAS E. ATCITTY
VICE PRESIDENT

December 16, 1997

Mr. Malcolm Dalton, General Manager
Navajo Tribal Utility Authority
P.O. Box 170
Fort Defiance, Arizona 86504

Dear Mr. Dalton:

The Navajo Nation Environmental Protection Agency has reviewed your request to contract with Envirotech to remove non-hazardous waste from the NTUA gas sweetening facility in Montezuma Creek, Utah. NNEPA hereby approves the request with the following conditions:

- Envirotech will dispose of the non-hazardous waste (water and sulfur solution) at the New Mexico Oil Conservation Division land farm in Hilltop, New Mexico.

- The NTUA gas sweetening facility in Montezuma Creek, Utah shall maintain records regarding the volumes of the waste transferred to Envirotech for final disposal and the dates waste is transported from the facility. NNEPA may request to review these records at any time.

- Envirotech shall maintain records of disposal in the event NNEPA requests documentation of disposal.

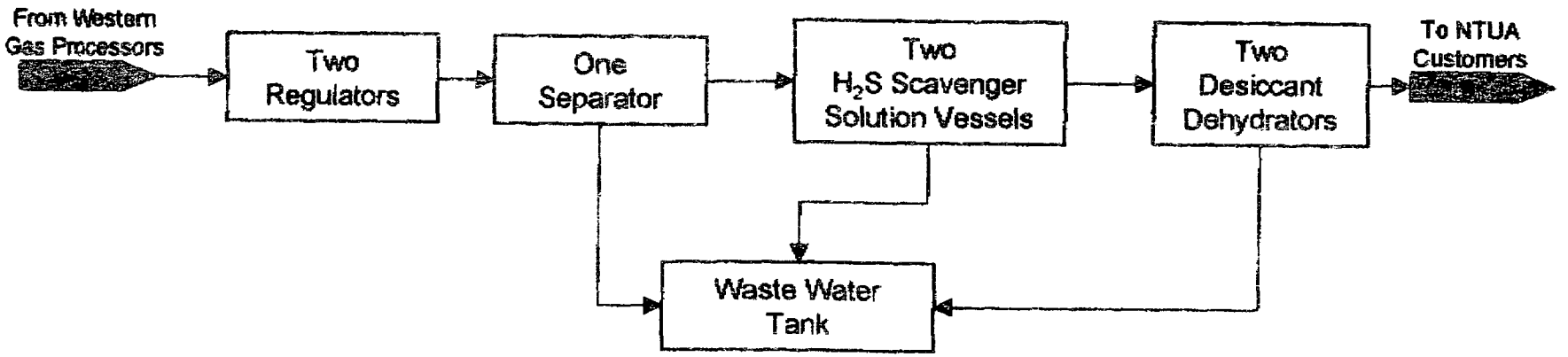
If you have any questions, please contact Ms. Gloria Notah, NNEPA-Resource Conservation & Recovery Program, at (520) 871-7751.

Sincerely,

Bennie Cohoe, Executive Director
Navajo Nation Environmental Protection Agency

xc: Harlan Brown, Envirotech, Inc., Farmington, NM
Gloria Notah, NNEPA-RCRP

NTUA Montezuma Creek Gas Treating Facility



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1000 Rio Brazos Road
Aztec, 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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District Office

Env JN: 92197

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: [X] Non-Exempt: [ ] Verbal Approval Received: Yes [X] No [ ] — Donny Faust 12-16-97 8:40 AM	4. Generator Burlington Resources
	5. Originating Site Val Verde Plant
2. Management Facility Destination Envirotech Soil RemediationFac. Landfarm #2	6. Transporter Freemyer
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	County Rd 4900, Bloomfield, 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:

Contamination of charcoal Filtration media.

12-16-97 BOL 10921 LF2 ~~[illegible]~~ E-18 8 cy.

RECEIVED
JAN 16 1998
OIL CON. DIV.
DIST. 3

Estimated Volume 7-14 cy Known Volume (to be entered by the operator at the end of the haul) 8 cy cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 12-16-97
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: 1/2/98

APPROVED BY: Ernie Busch TITLE: Geologist DATE: 1/23/98

Denny Foust
12.16.97
8:40 AM

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
BURLINGTON RESOURCES 3535 EAST 30th STREET FARMINGTON, NM 87402	Envirotech Landfarm (ESRF) Hilltop, New Mexico
3. Originating Site (name): Val Verde Plant Attach list of originating sites as appropriate.	Location of the Waste (Street address &/or ULSTR): Section 14, Township 29N, Range 11W
4. Source and Description of Waste: Charcoal Filter Media. From the filtering of amine which is used to remove carbon dioxide from natural gas.	

I, Ed Hasely representative for:

BURLINGTON RESOURCES 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 only the following documentation is attached (check appropriate items):

MSDS Information
RCRA Hazardous Waste Analysis
Chain of Custody

Other (description):

Name (Original Signature): Ed Hasely

Title: SR STAFF ENVIRONMENTAL REPRESENTATIVE

Date: 12/16/97

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P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
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District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, 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
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District Office

Env JN: 92101

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator BJ Services
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Main Yard
2. Management Facility Destination Envirotech Soil RemediationFac Landfarm #2	6. Transporter ENVIROTECH
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	3250 Southside Tolver Rd Farmington, N.M.

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:

Contamination of Washing Solids.
TCLP
Reinformation } ATTACHED.

RECEIVED
DEC 16 1997
Environmental Bureau
Oil Conservation Division

RECEIVED
DEC 11 1997
OIL CON. DIV.
DIST. 3

Estimated Volume 24 cy Known Volume (to be entered by the operator at the end of the haul) 72 cy

SIGNATURE: [signature] TITLE: Landfarm Manager DATE: 12-11-97
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: 12/12/97

APPROVED BY: [signature] TITLE: Env. Geologist DATE: 12/16/97

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
1000 Rio Brazos Road
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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

Env JN: 92101

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator BJ Services
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Main Yard
2. Management Facility Destination Envirotech Soil RemediationFac Landfarm #2	6. Transporter ENVIROTECH
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	3250 Southside River Rd Farmington, N.M.

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 Washing Solids.
TCLP
Reaffirmation } ATTACHED.

DEC 11 1997
OIL CON. DIV.
DIST. 3

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

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 12.11.97
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. Foust TITLE: Geologist DATE: 12/12/97

APPROVED BY: _____ TITLE: _____ DATE: _____

92101

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
BJ Services 3250 Southside River Rd Farmington, N.M. 87401	Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico
3. Originating Site (name): BJ Services, Main Yard 3250 Southside River Rd. Farmington, NM 87401 Attach list of originating sites as appropriate	**Location of the Waste (Street address &/or ULSTR):** Same - Wash Bay Solids Sump.
4. Source and Description of Waste Continuation of Wash bay solids	

I, _____ representative for:
(Print Name)

B J. 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

X **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
X RCRA Hazardous Waste Analysis
X Chain of Custody
X Other (description): Reaffirmation Statement.

Name (Original Signature): [signature]

Title: Facilities

Date: 12/11/97

ENVIROTECH INC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

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

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 Characterization Leaching Procedures (TCLP) analysis was performed. I further certify that said material is from operations in the immediate Four Corners area.

Signed Les Baugh

Date of TCLP 1-3-97

Name Les Baugh

Title/Agency Facilities Supv.

Address 3250 Sweetbriar Road
Farmington, New Mex 87401

Signature Les Baugh

Date 12/11/97

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

January 14, 1997

Mr. Les Baugh
B. J. Services, Inc.
3220 Bloomfield Highway
Farmington, New Mexico 87401

Project No.: 92101

Dear Mr. Baugh,

Enclosed are the analytical results for the samples collected from the "Yard" at the Southside River Road, Farmington, New Mexico location. One water sample and two composite soil samples were collected by Envirotech personnel and delivered to the Envirotech laboratory on 01/03/97. The water sample was analyzed for Volatile Organic Compounds per USEPA Method 8020 and Halogenated Volatile Organic Compounds per USEPA Method 8010. The soil samples were analyzed for Hazardous Waste Characterization components (TCLP Volatiles, Semi-volatiles, Trace Metals, Corrosivity, Reactivity, and Ignitability).

The samples were documented on Envirotech Chain of Custody No. 5051 and assigned Laboratory Nos. A892 (Separator Water Discharge), A893 (Wash Bay), and A894 (Floor Dry Sweep) for tracking purposes. The samples were analyzed 01/03/97 through 01/14/97 using USEPA or equivalent methods.

Results of the analysis indicate that Laboratory Nos. A893 and A894 are not characteristic hazardous wastes as defined by 40 CFR, Section 261, Subpart C for the noted compounds.

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. Sendler

Stacy W. Sendler
Environmental Scientist/Laboratory Manager

enc.

SWS/sws

92101lb3.wpd

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

SUSPECTED HAZARDOUS & SOLID WASTE ANALYSIS

Client:	B J Services	Project #:	92101
Sample ID:	Wash Bay	Date Reported:	01-07-97
Lab ID#:	A893	Date Sampled:	01-03-97
Sample Matrix:	Soil	Date Received:	01-03-97
Preservative:	Cool	Date Analyzed:	01-03-97
Condition:	Cool & Intact	Chain of Custody:	5051

Parameter	Result
IGNITABILITY:	**Did not ignite upon direct contact with flame.**
CORROSIVITY:	**8.40**
REACTIVITY:	**Did not react violently with water, strong base (10N Sodium Hydroxide), or strong acid (6N Hydrochloric acid).**

RCRA Hazardous Waste Criteria

Parameter	Hazardous Waste Criterion
IGNITABILITY:	Sample Ignition upon direct contact with flame indicates hazardous waste status.
CORROSIVITY:	pH less than or equal to 2.0 or pH greater than or equal to 12.5 indicates hazardous waste status.
REACTIVITY:	Violent reaction with water, strong base (10N Sodium Hydroxide), or strong acid (6N Hydrocholoric Acid) indicates hazardous waste status.
Reference:	40 CFR part 261 Subpart C sections 261.21 - 261.23, July 1, 1992.
Comments:	**Yard, 3250 Southside River Rd., Farmington, NM. Sludge Composite.**

Analyst

Review

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS

Client:	B J Services	Project #:	92101
Sample ID:	Wash Bay	Date Reported:	01-09-97
Laboratory Number:	A893	Date Sampled:	01-03-97
Chain of Custody:	5051	Date Received:	01-03-97
Sample Matrix:	Soil	Date Extracted:	01-07-97
Preservative:	Cool	Date Analyzed:	01-08-97
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	101%
	Bromofluorobenzene	96%

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: **Yard, 3250 Southside River Rd., Farmington, NM.**
Sludge Composite.

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8040
PHENOLS

Client:	B J Services	Project #:	92101
Sample ID:	Wash Bay	Date Reported:	01-14-97
Laboratory Number:	A893	Date Sampled:	01-03-97
Chain of Custody:	5051	Date Received:	01-03-97
Sample Matrix:	Soil	Date Extracted:	01-07-97
Preservative:	Cool	Date Analyzed:	01-13-97
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	99%
	2,4,6-Tribromophenol	98%

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. 198

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

Comments: **Yard, 3250 southside River Rd., Farmington, NM.**
Sludge Composite.

Analyst

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	B J Services	Project #:	92101
Sample ID:	Wash Bay	Date Reported:	01-14-97
Laboratory Number:	A893	Date Sampled:	01-03-97
Chain of Custody:	5051	Date Received:	01-03-97
Sample Matrix:	Soil	Date Extracted:	01-07-97
Preservative:	Cool	Date Analyzed:	01-13-97
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: **Yard, 3250 Southside River Rd., Farmington, NM.**
Sludge Composite.

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311 TOXICITY CHARACTERISTIC LEACHING PROCEDURE TRACE METAL ANALYSIS

Client:	B J Services	Project #:	92101
Sample ID:	Wash Bay	Date Reported:	01-14-97
Laboratory Number:	A893	Date Sampled:	01-03-97
Chain of Custody:	5051	Date Received:	01-03-97
Sample Matrix:	Soil	Date Analyzed:	01-14-97
Preservative:	Cool	Date Extracted:	01-07-97
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
Arsenic	ND	0.001	5.00
Barium	1.72	0.01	100
Cadmium	0.009	0.001	1.00
Chromium	ND	0.001	5.00
Lead	0.081	0.001	5.00
Mercury	ND	0.001	0.200
Selenium	ND	0.001	1.00
Silver	ND	0.001	5.0

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

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

Comments: **Yard, 3250 Southside River Rd., Farmington, NM. Sludge Composite.**

Denn L. Ajenen
Analyst

Stacy W Sendler
Review

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

QUALITY ASSURANCE / QUALITY CONTROL DOCUMENTATION

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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:	Laboratory Blank	Date Reported:	01-09-97
Laboratory Number:	01-08-TCV.BLANK	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	01-08-97
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	97%
	Bromofluorobenzene	96%

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 A893 - A894.**

Dean L. Ajenco
Analyst

Stacy W Sendler
Review

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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:	Method Blank	Date Reported:	01-09-97
Laboratory Number:	01-07-TCV.MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	01-08-97
Condition:	N/A	Date Extracted:	01-07-97
		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	96%

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 A893 - A894.**

Analyst

Review

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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 Duplicate	Date Reported:	01-09-97
Laboratory Number:	A893	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	01-08-97
Condition:	N/A	Date Extracted:	01-07-97

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 A893 - A894.**

Analyst

Review

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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:	01-09-97
Laboratory Number:	A893	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	01-08-97
Condition:	N/A	Date Extracted:	01-07-97

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	0.020	0.0199	0.0001	99%	28-163
1,1-Dichloroethene	ND	0.020	0.0194	0.0001	97%	43-143
2-Butanone (MEK)	ND	0.020	0.0193	0.0001	96%	47-132
Chloroform	ND	0.020	0.0198	0.0001	98%	49-133
Carbon Tetrachloride	ND	0.020	0.0196	0.0001	97%	43-143
Benzene	ND	0.020	0.0197	0.0001	98%	39-150
1,2-Dichloroethane	ND	0.020	0.0193	0.0001	96%	51-147
Trichloroethene	ND	0.020	0.0197	0.0003	99%	35-146
Tetrachloroethene	ND	0.020	0.0195	0.0005	98%	26-162
Chlorobenzene	ND	0.020	0.0193	0.0003	97%	38-150
1,4-Dichlorobenzene	ND	0.020	0.0200	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 A893 - A894.**

Dean L. Spencer
Analyst

Stacy W Sendler
Review

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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:	01-14-97
Laboratory Number:	01-13-TCA.BLANK	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	01-13-97
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	100 %
	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. 198

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

Comments: **QA/QC for samples A893 - A894.**

Analyst

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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:	01-14-97
Laboratory Number:	01-07-TCA.MB	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	Cool	Date Extracted:	01-07-97
Condition:	Cool & Intact	Date Analyzed:	01-13-97
		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	99%
	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. 198

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

Comments: **QA/QC for samples A893 - A894.**

Analyst

Review

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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:	01-14-97
Laboratory Number:	A893	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	Cool	Date Extracted:	01-07-97
Condition:	Cool & Intact	Date Analyzed:	01-13-97
		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 A893 - A894.**

Analyst

Review

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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:	01-13-97
Laboratory Number:	01-13-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:	01-13-97
		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 A893 - A894.**

Analyst

Review

5796 U.S. Highway 64-3014 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

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:	01-14-97
Laboratory Number:	01-07-TBN.MB	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	Cool	Date Extracted:	01-07-97
Condition:	Cool and Intact	Date Analyzed:	01-13-97
		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 A893 - A894.**

Analyst

Review

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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:	01-14-97
Laboratory Number:	A893	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Extracted:	01-07-97
Condition:	N/A	Date Analyzed:	01-13-97
		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 A893 - A894.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Blanks	Date Reported:	01-14-97
Laboratory Number:	N/A	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	01-14-97
Condition:	N/A	Date Extracted:	N/A

Parameter	Instrument Blank (mg/L)	Method Blank (mg/L)	Det. Limit (mg/L)
Arsenic	**ND**	**ND**	**0.001**
Barium	**ND**	**ND**	**0.01**
Cadmium	**ND**	**ND**	**0.001**
Chromium	**ND**	**ND**	**0.001**
Lead	**ND**	**ND**	**0.001**
Mercury	**ND**	**ND**	**0.001**
Selenium	**ND**	**ND**	**0.001**
Silver	**ND**	**ND**	**0.001**

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

Comments: **QA/QC for samples A893 - A894.**

Dean L. Spencer
Analyst

Stacy W Sendler
Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	01-14-97
Laboratory Number:	A893	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	01-14-97
Condition:	N/A	Date Extracted:	01-07-97

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Percent Difference
Arsenic	**ND**	**ND**	**0.0%**
Barium	**1.72**	**1.70**	**1.2%**
Cadmium	**0.009**	**0.008**	**11.8%**
Chromium	**ND**	**ND**	**0.0%**
Lead	**0.081**	**0.081**	**0.0%**
Mercury	**ND**	**ND**	**0.0%**
Selenium	**ND**	**ND**	**0.0%**
Silver	**ND**	**ND**	**0.0%**

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Maximum Difference
	Trace Metals	**30 %**

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

Comments: **QA/QC for samples A893 - A894.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Spike	Date Reported:	01-14-97
Laboratory Number:	A893	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	01-14-97
Condition:	N/A	Date Extracted:	01-07-97

Parameter	Spike Added (mg/L)	Sample Result (mg/L)	Spiked Sample Result (mg/L)	Percent Recovery
Arsenic	**0.100**	**ND**	**0.099**	**99%**
Barium	**1.00**	**1.72**	**2.70**	**99%**
Cadmium	**0.050**	**0.009**	**0.058**	**98%**
Chromium	**0.050**	**ND**	**0.049**	**98%**
Lead	**0.100**	**0.081**	**0.181**	**100%**
Mercury	**0.025**	**ND**	**0.025**	**100%**
Selenium	**0.100**	**ND**	**0.099**	**99%**
Silver	**0.050**	**ND**	**0.050**	**100%**

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Acceptance Range %
	TCLP Metals	**80 - 120 %**

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

Comments: **QA/QC for samples A893 - A894.**

Analyst

Review

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CHAIN OF CUSTODY RECORD

Client/Project Name: BJ SERVICES 92101

Project Location: YARD 3250 SOUTH SIDE RIVER RD. FARMINGTON NM

Sampler (Signature): [signature]

Chain of Custody Tape No.:

ANALYSIS/PARAMETERS

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	8020	8010	TCLP W/O PEH	RCRA (REAST., REACT., CORROSIVITY)			Remarks
SEPARATOR WATER DISCHARGE	1/3/97	1016	A892	WATER	2	✓	✓					
NASH BAY	1/3/97	1026	A893	SOIL	1			✓	✓			SLUDGE COMPOSITE
FLOOR DRY SWEEP	1/3/97	1438	A894	SOIL	1			✓	✓			SOURCE: OIL FILTERS + FLOOR DRY COMPOSITE

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	1/3/97	1455	[signature]	1/3/97	1455
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

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

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
1000 Rio Brazos Road
Aztec, 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: 97070-01

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☒ Non-Exempt: ☐ 12.15.97 D.F. 7:30AM.	4. Generator Conoco
Verbal Approval Received: Yes ☒ No ☐	5. Originating Site Farmington Com #1
2. Management Facility Destination Envirotech Soil RemediationFac Landfarm #2	6. Transporter
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	Unit P, Sec 11, T29N, R11W, SJC, 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:

Petroleum Hydrocarbon Contaminated Soil generated during the clean up of production pits.

	BOL			
12.15.97	10920	LF245:	DD-12	70 cy.
12.15.97	10920	"	DD-13	160 cy.
12.16.97	10915	"	DD-13	20 cy.
12.16.97	10915	"	DD-14	280 cy.
12.16.97	10915	"	DD-15	20 cy.
12.16.97	10922	"	DD-15	180 cy.
12.16.97	10922	"	DD-16	40 cy
12.17.97	10924	"	DD-16	200 cy
12.17.97	10924	LF245	DD17	40 cy.
12.17.97	10926	"	DD17	20 cy.

RECEIVED
JAN 16 1998
OIL CON. DIV.
DIST. 3

Estimated Volume ±600 cy Known Volume (to be entered by the operator at the end of the haul) 1030 cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 12.18.97
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. Foust TITLE: Geologist DATE: 1/20/98

APPROVED BY: Ernie Busch TITLE: Geologist DATE: 1/23/98

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
Conoco Inc. 3315 Bloomfield Hwy Farmington, NM 87401	Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico
3. Originating Site (name): Farmington Com #1 Unit P, S11, T29N, R11W Attach list of originating sites as appropriate	**Location of the Waste (Street address &/or ULSTR):**
4. Source and Description of Waste Excavated Hydrocarbon contaminated soils, from Former Pits.	

I, John Andersen (Print Name) representative for:

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 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: Sr Prod Foreman

Date: 12/15/97

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
1000 Rio Brazos Road
Aztec, 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: ☒ Non-Exempt: ☐ Donny Foust. 12.9.97 9:45 Verbal Approval Received: Yes ☒ No ☐	4. Generator PESCO 5. Originating Site Main
2. Management Facility Destination Envirotech Soil RemediationFac Landfarm #2	6. Transporter ENVIROTECH
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	5680 Hwy 64, Farmington, 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:

Solids, scale generated during cleaning & refurbishing oil & gas production equipment.

Haul date 1-14-98
1-15-98

RECEIVED
JAN 16 1998
OIL CON. DIV.
DIST. 3

Estimated Volume 20 cy cy Known Volume (to be entered by the operator at the end of the haul) 18.2 cy

SIGNATURE: Harlan M. Brown
Waste Management Facility Authorized Agent
TITLE: Landfarm Manager DATE: 1-16-98

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. (505)632-0615

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 1/20/98

APPROVED BY: Ernie Busch TITLE: Geologist DATE: 1/23/98

Jn: 92142

CERTIFICATE OF WASTE STATUS

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

I, Blake Wallace 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):

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

Name (Original Signature): Blake Wallace

Title: Service Manager

Date: December 8, 1997

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
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
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Santa Fe, New Mexico 87505
(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: ☒ Non-Exempt: ☐ D.F. 12.9.97 14:25	4. Generator EPFS
Verbal Approval Received: Yes ☒ No ☐	5. Originating Site Coyote Gulch Plant
2. Management Facility Destination Envirotech Soil RemediationFac Landfarm #2	6. Transporter Freemyer
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State Co → NM.
7. Location of Material (Street Address or ULSTR)	Sec 17, T32N, R 11W La Plata Cty. Co

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:

Charcoal Filtration Media from a SIDESTREAM treatment
Southern Ute Approval ATTACHED.

RECEIVED
DEC 10 1997
OIL CON. DIV.
DIST. 3

Estimated Volume 1 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: 12.9.97
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. Foust TITLE: Geologist DATE: 12/12/97

APPROVED BY: [illegible] TITLE: [illegible] DATE: 12/12/97

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
El Paso Field Services P O Box 4990 Farmington NM 87499-99	Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico

3. Originating Site (name): **Location of the Waste (Street address &/or ULSTR):**

Coyote Gulch Plant Sec. 17, T. 32N R. 11W

Attach list of originating sites as appropriate

4. Source and Description of Waste

Approximatley 2000 pounds of charcoal media from the sidestream filter at Coyote Gulch treating plant.

I, Sandra D. Miller (Print Name), representative for: El Paso Field 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)

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 only the following documentation is attached (check appropriate items):

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

Name (Original Signature): Sandra D Miller

Title: Environmental Manager

Date: 12/9/97

RECEIVED NOV 28 1997

EL PASO FIELD SERVICES

Via FAX: 970/563-0384

November 24, 1997

Ms. Cheryl Wiescamp
Southern Ute Tribe
PO Box 737
Ignacio, CO 81137

Re: Request for Approval to Transport Exempt Waste

Dear Ms. Wiescamp:

El Paso Field Services' (EPFS) Coyote Gulch Plant is located in Sec. 17, T. 32N, R. 11W, La Plata County, CO. Coyote Gulch is a treating plant in which CO_2 (carbon dioxide) is removed from natural gas.

EPFS is planning to replace approximately 2000 pounds of charcoal media out of a sidestream filter at that facility. The sidestream filter is used to remove iron and other impurities from the amine solution within the plant process.

This material is classified as an exempt exploration and production waste. EPFS therefore proposes to dispose of the material at the Envirotech Landfarm located 11 miles south of Bloomfield, NM on Highway 44.

EPFS requests your approval to transport the waste from the Coyote Gulch facility to the landfarm in New Mexico for disposal.

If you have any questions regarding this matter, please call me at 505/599-2141.

Sincerely,

Sandra Miller

Sandra Miller
Environmental Manager

cc: H. Brown, Envirotech
D. Foust, NMOCD

El Paso Field Services Company P.O. Box 4990 Farmington, New Mexico 87499 Phone (505) 325-2841 Fax (505) 599-2119

COPY

SOUTHERN UTE INDIAN TRIBE

Tribal Affairs Building

December 1, 1997

Sandra Miller
El Paso Field Services
P.O. Box 4990
Farmington, NM 87499

Dear Ms. Miller:

The Environmental Programs Division has reviewed your request to transport exempt oil field waste from Colorado to New Mexico. The 2,000 pounds of charcoal media out of a side stream filter at the facility can be transported to the Envirotech Landfarm for disposal.

Enclosed are 2 original signed certificates necessary for transportation of the waste.

We request that you send us a copy of any NM permits you receive.

Sincerely,

Michael A. Frost
Environmental Programs Director

P.O. Box 737 • 116 Capote Dr. • Ignacio, CO 81137 • Phone: 303-563-0100 • FAX: 303-563-0396

CERTIFICATE FROM OUT-OF-STATE AGENCY AUTHORIZING REMOVAL OF RCRA EXEMPT OIL FIELD WASTE FROM SOUTHERN UTE INDIAN TRIBE JURISDICTION TO NEW MEXICO

I have reviewed the submitted information concerning the exempt oil field waste material from the El Paso Field Services Coyote Gulch Plant located in Section 17, Township 32N, Range 11W and agree that by its description it is exempt as defined by the Resource Conservation and Recovery Act.

X The material is exempt oil field waste.

X No determination is made on the possible hazardous nature of the waste, due to the exempt status.

THEREFORE:
As a representative for the Southern Ute Indian Tribe, I have no objection to the material being removed to New Mexico for disposal at Envirotech Landfarm.

NAME: Michael A. Frost TITLE: Director of Environmental Programs

SIGNATURE: Michael A. Frost DATE: 12/1/97

AGENCY: Southern Ute Indian Tribe

ADDRESS: P.O. Box 737, Ignacio, CO 81137

PHONE: (970) 563-0135

CERTIFICATE FROM OUT-OF-STATE AGENCY AUTHORIZING REMOVAL OF RCRA EXEMPT OIL FIELD WASTE FROM SOUTHERN UTE INDIAN TRIBE JURISDICTION TO NEW MEXICO

I have reviewed the submitted information concerning the exempt oil field waste material from the El Paso Field Services Coyote Gulch Plant located in Section 17, Township 32N, Range 11W and agree that by its description it is exempt as defined by the Resource Conservation and Recovery Act.

X The material is exempt oil field waste.

X No determination is made on the possible hazardous nature of the waste, due to the exempt status.

THEREFORE:
As a representative for the Southern Ute Indian Tribe, I have no objection to the material being removed to New Mexico for disposal at Envirotech Landfarm.

NAME: Michael A. Frost TITLE: Director of Environmental Programs

SIGNATURE: Michael A. Frost DATE: 12/1/97

AGENCY: Southern Ute Indian Tribe

ADDRESS: P.O. Box 737, Ignacio, CO 81137

PHONE: (970) 563-0135

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
Aztec, 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

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to appropriate
District Office

Env JN: 96033

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Schlumberger Dowell
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Bulk plant Main Yard
2. Management Facility Destination Envirotech Soil Remediation Fac. Landfarm #2	6. Transporter ENVIROTECH
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	3106 Bloomfield Hwy. Farmington N.M.

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 w/ Acid @ a bulk plant spill, neutralized w/ Sodium Bicarbonate.
MSDS sheet & pH Analysis attached

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DEC - 3 1997
OIL CON. DIV.
DIST. 3

Estimated Volume 3 cy Known Volume (to be entered by the operator at the end of the haul) 2 cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 12-1-97
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. Foust TITLE: Geologist DATE: 12/3/97

APPROVED BY: Martyne J. Kieling TITLE: Env Geologist DATE: 12/9/97

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
Aztec, 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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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Schlumberger Dowell
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Bulk plant Main Yard
2. Management Facility Destination Envirotech Soil RemediationFac. Landfarm #2	6. Transporter ENVIROTECH
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
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All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

Soil contaminated w/ Acid @ a bulk plant spill, neautralized w/ sodium Bicarbonate.
MSDS sheet & pH Analysis attached

RECEIVED
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OIL CON. DIV.
DIST. 3

Estimated Volume 3 cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 12-1-97
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. Foust TITLE: Geologist DATE: 12/3/97

APPROVED BY: _____ TITLE: _____ DATE: _____

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address: Dowell Schlumberger 3106 Bloomfield Hwy Farmington, N. Mex 87401	**2. Destination Name:** Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico
3. Originating Site (name): Dowell Schlumberger Attach list of originating sites as appropriate	**Location of the Waste (Street address &/or ULSTR):** 3106 Bloomfield Hwy Farmington, N.M. 87401
4. Source and Description of Waste 15% HCL Soda Ash RCRA WASTE Number D002	

I, Ray Espinoza representative for:
(Print Name)
Dowell Schlumberger 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

X **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):

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

Name (Original Signature): Ray Espinoza

Title: HSE

Date: OCT 7, 97

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DIST. 3

NORTH AMERICA MATERIAL SAFETY DATA SHEET

Schlumberger Dowell
300 Schlumberger Drive, Sugar Land, Texas 77478

Emergency Phone:
713-595-2345

CHEMICAL CODE: H015
PRODUCT NAME: HYDROCHLORIC ACID 15% H15

EFFECTIVE DATE: 25 FEB 91 PREPARED BY: W. W. SHEPHERD

HMIS RATING:
Health 2 Flammability 0 Reactivity 1

HAZARDOUS INGREDIENTS:	CAS NUMBER
HYDROCHLORIC ACID	007647-01-0
WATER	007732-18-5

SECTION 1 - PHYSICAL PROPERTIES:

Chemical Nature: Acid
Form: Liquid
Color: Colorless - slight yellow
Odor: Pungent
Vap.Density: >1
%Sol. In Water: 100
pH: <2
Sp. Gravity: 1.075 @ 60 deg F
Pour Point: <32 deg F (<0 deg C)
Boiling Pt.: Not determined
Vap.Pressure: 0.05 mmHg at 20 deg C
% Volatile: 100
Viscosity: Not determined
Bulk Density: Not determined

SECTION 2 - FIRE AND EXPLOSION HAZARDS:

Flash Point: >200 F (>93 C)
Method Used: Not applicable
Ignition Temperature: Not determined
Explosion Limits in Air - Lower: Not applicable Upper: Not applicable
Extinguishing Media: None needed
Special Fire Fighting Equipment and Hazards:
May release hydrogen gas (explosive) on contact with metals.

SECTION 3 - REACTIVITY HAZARDS:

Stability: Stable.
Incompatibility:
Bases, oxidizers (releases chlorine and chlorine oxides), metals (releases hydrogen gas), sulfuric acid, carbonates.
Hazardous Decomposition:
May release hydrogen gas (explosive!) when in contact with metals.
If heated, hydrogen chloride and oxides of chloride are released.
Hazardous Polymerization: Will not occur.

SECTION 4 - FIRST AID PROCEDURES:

Eye Contact:	Immediately flush eyes with water for 15 minutes while holding eyelids open. See a doctor.
Skin Contact:	Immediately wash with soap and water for 15 minutes. See a doctor. Destroy contaminated shoes. Wash clothes thoroughly before reusing.
Swallowing:	DO NOT induce vomiting. Drink large quantities of milk (preferred) or water and give milk of magnesia. Consult a physician.
Inhalation:	Remove to fresh air. See a doctor if effects occur.
Notes:	None

SECTION 5 - HANDLING PRECAUTIONS:

Ventilation: General and local ventilation as needed.

Respiratory Protection:

None normally needed. Use NIOSH approved respirator with organic vapor/acid gas protection (color coded yellow) if vapors are generated and for emergencies.

Protective Clothing:

Apron, impervious gloves. For spills and emergencies, also wear boots and slicker (rain) suit.

Eye Protection:

Chemical goggles required and an eye wash in work area.

Exposure Guidelines: PEL and TLV are 5 ppm ceiling for HCl.

SECTION 6 - SPILL AND DISPOSAL PROCEDURES:

Spills:	Contain with dikes. Dilute with water. Neutralize with soda ash or lime. Put in steel drum (plastic drum if acidic).
Disposal Method	
Product:	Neutralized material is generally acceptable in sanitary sewers; check local regulations.
Container:	Leave label on drum and sell drum to an approved drum reconditioner or triple rinse, crush, and ship to sanitary landfill unless prohibited by local regulations.
Degradability:	Not biodegradable.
Fish Toxicity:	Low toxicity to fish.

CERCLA Reportable Quantity: 3,700 gallons

RCRA Hazardous Waste Number: D002

SECTION 7 - TOXICOLOGY:

Eye Contact:	Severe irritant. Causes pain and redness. Prolonged or repeated contact may cause mild burn.
Skin Contact:	Irritant. May cause pain, redness, dermatitis. Not likely to be absorbed in toxic amounts.
Swallowing:	Irritant. May cause pain or discomfort to mouth, throat and stomach.
Inhalation:	No effect expected. Prolonged or repeated exposure may cause mild irritation.
Carcinogens:	Not listed by IARC, USA NTP, or USA OSHA.

Other:

May cause changes in liver and pulmonary blood vessels. Prolonged exposure at low concentration may cause erosion of the teeth.

SECTION 8 - ADDITIONAL INFORMATION:

Special Precautions: None.

Physical Hazard: corrosive

Handling and Storage Precautions:

Keep container closed when not in use. When mixing, always place the water in the tank first, followed by the acid.

Packaging Requirements:

Plastic (all poly) drum (DOT 34) or plastic can.

Additional Information: Q2 (Protective Equipment Code)

SECTION 9 - REGULATORY INFORMATION:

This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372: Hydrochloric acid (15 percent).

NFPA Rating:
Health 3 ; Flammability 0 ; Reactivity 1 ; Other: Acid

WHMIS Classification (Canada): Not determined

TSCA Status: All components of this material are on the TSCA inventory.

SECTIONS AFFECTED BY LAST REVISION:
4, 5, 7

SHIPPING INFORMATION:

ICC Tariff Classification: Compound, Gas or Oil Well Drilling
ICC Item Number: 138640 ICC Class: 50 LTL 35 TL
Department of Transporation - (DOT):

Description:	Hazardous Material/Hazardous Substance ***
Hazard Class:	8 (corrosive)
Shipping Name:	Corrosive liquid, N.O.S. (contains 15% hydrochloric acid), 8, UN 1760, PG III
DOT Label:	Corrosive 8
Comment:	IF RQ IS EXCEEDED IN SINGLE CONTAINER, MATERIAL IS A HAZARDOUS MATERIAL AND HAZARDOUS SUBSTANCE; ADD THE LETTERS RQ TO END OF SHIPPING DESCRIPTION
Tank Exempt.#:	DOT-E 3095
CERCLA RQ:	3,700 gallons

US Foreign Trade Schedule B# (Export):

Canadian Shipments:

Shipping Name:	Corrosive liquid, N.O.S. (contains 15 percent hydrochloric acid), UN 1760
Special Provision:	109
Classification:	8
	ICAO Class: 8 Pkg Group: III

(*) Indicates a trade or service mark of Schlumberger Dowell Incorporated. The information herein is believed to be accurate and is presented in good faith; however, no warranties or representations are made by Schlumberger Dowell regarding the accuracy or completeness of the information.

ENVIRO-TECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

pH OF SOIL

Client:	Schlumberger - Dowell	Project #:	97033-03
Sample ID:	C. Y. Bags	Date Reported:	11-24-97
Lab ID#:	C537	Date Sampled:	11-20-97
Sample Matrix:	Soil	Date Received:	11-20-97
Preservative:	Cool	Date Analyzed:	11-21-97
Condition:	Cool & Intact	Chain of Custody:	5603

Parameter	Result
pH	**10.9**

Reference: Method 9045C, Soil and Waste pH, Test Methods for Evaluating Solid Waste, SW-846, USEPA, January 1995.

Comments: **3106 Bloomfield Hwy.**

Analyst

Review

5796 U.S. Highway 64-3014 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

97033-03

CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location	ANALYSIS/PARAMETERS
Schlumberger-Dowell	3106 Bloomfield Hwy	
Sampler: (Signature) Harlan M Brown	Chain of Custody Tape No.	

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	PH						Remarks
C.Y BAGS	11.20.97	12:03	C537	Soil	1							

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Harlan M Brown	11.20.97	12:15	[illegible]	11-20-97	12:15
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

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

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 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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Env JN: 97077

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☒ Non-Exempt: ☐ Verbal Approval Received: Yes ☒ No ☐ — Denny Foust 12-2-97 15:55	4. Generator Joseph E Seagram & Sons, INC.
	5. Originating Site Texas Pacific Horse-shoe Gallup Field, CTB
2. Management Facility Destination Envirotech Soil Remediation Fac Landfarm #2	6. Transporter VALLESQUEZ & SONS
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	SW4 SW4 Sec 27, T32N, R17W

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:

Separator & TANK DRAIN earthen pit.

NNEPA APPROVAL ATTACHED.

RECEIVED
JAN 16 1998
OIL CON. DIV.
DIST. 3

	BOL			
12-3-97	10868	LF245	DD 13	140 cy
12-4-97	10869	LF245	DD 13	40 cy
12-4-97	10869	LF245	DD 14	140 cy
12-4-97	10869	LF245	DD 15	100 cy
12-5-97	10871	LF245	DD 15	40 cy
12-5-97	10871	LF245	DD 16	160 cy
12-5-97	10871	LF245	CC 14	60 cy
12-8-97	10913	LF245	DD 16	58 cy

Estimated Volume ±600 cy Known Volume (to be entered by the operator at the end of the haul) 738 cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 12-10-97
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. Foust TITLE: Geologist DATE: 1/20/98

APPROVED BY: Ernie Busch TITLE: Geologist DATE: 1/23/98

Donna Foust
Verbal
12.2.97
15:55

97077

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
JOSEPH E. SEAGRAM & SONS, INC. 800 THIRD AVENUE NEW YORK, NY 10022-7699	Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico

3. Originating Site (name): **Location of the Waste (Street address &/or ULSTR):**

TEXAS PACIFIC HORSESHOE GALLUP FIELD CENTRAL TANK BATTERY
SW/4 SW/4 SEC 27-T32N-R17W

Attach list of originating sites as appropriate

4. Source and Description of Waste

SEPARATOR + TANK DRAIN EARTHEN PIT

I, JEFFREY C. BLAGG representative for:
(Print Name)
JOSEPH E SEAGRAM & SONS, 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 only the following documentation is attached (check appropriate items):

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

Name (Original Signature): Jeffrey C. Blagg

Title: AGENT FOR JOSEPH E. SEAGRAM & SONS, INC.

Date: DEC. 2, 1997

Post-it® Fax Note 7671	Date 12/2	# of pages ▶ 1
To Darlin Brown	From B Cohoe Inc	
Co./Dept. Atm J BLAGG	Co. NEPA	
Phone #	Phone # 520/871-7692	
Fax # 505/632-1865	Fax # 520/871-7996	

THE NAVAJO NATION

ALBERT A. HALE
PRESIDENT

December 2, 1997

THOMAS E. ATCITTY
VICE PRESIDENT

Mr. Jeffrey C. Blagg, P.E.,
President
BLAGG ENGINEERING INC.
P.O. Box 87
Bloomfield, NM 87413

RE: Request for release of Hydrocarbon Contaminated Soil from Seagrams Horsehoe Gallup Pit Closure in SW/4 SW/4 SEC 27-T32N-R17W

Dear Mr. Blagg:

We have reviewed the information and soil sample reports you provided concerning the proposed 200 to 400 cubic yards of hydrocarbon contaminated soils at Joseph E. Seagrams & Sons, Inc. Texas Pacific Horseshoe Gallup Field on the Navajo Indian Reservation approximately 12 miles north-northeast of Shiprock, New Mexico.

The operator is responsible for certification of the RCRA status of the contaminated soil.

We have no objection to the contaminated soil being removed to New Mexico for treatment at the Envirotech landfarm facility near Bloomfield, New Mexico. The soil and other waste material may not be returned to Navajo Nation lands after removal from the Texas Pacific Horseshoe Gallup Field site.

If you have any questions, please contact my staff, Ms. Charmaine Tso at (505) 368-1040.

Sincerely,

NAVAJO ENVIRONMENTAL PROTECTION AGENCY

Bennie Cohoe
Acting Executive Director

BLAGG ENGINEERING, INC.
P.O. Box 87, Bloomfield, New Mexico 87413
Phone: (505)632-1199 Fax: (505)632-3903

December 1, 1997

Mr. Bennie Cohoe
Executive Director
Navajo Nation EPA
P.O. Box 339
Window Rock, Arizona 86515

Re: Request for Release of Soil
Seagram Horseshoe Gallup Pit Closure
SW/4 SW/4 Sec 27-T32N-R17W
Navajo Indian Reservation, New Mexico

Dear Mr. Cohoe:

On behalf of Joseph E. Seagram & Sons, Inc. (Seagrams), Blagg Engineering, Inc. (BEI) respectfully requests approval from the Navajo Nation EPA for release of soil from the Navajo Indian Reservation. Seagrams is proposing to remediate an oilfield earthen pit impacted with exempt hydrocarbon wastes. The contaminated soils from this pit, estimated at a volume of between 200 and 400 cubic yards, are proposed to be removed from the Reservation and transported to a commercial landfarm near Bloomfield, New Mexico operated by Envirotech, Inc. The soils will not be returned to the Reservation following remediation.

Standard closure procedures as outlined by the Navajo Nation EPA will be followed. A closure plan has been filed with the Navajo Nation EPA (Shiprock Office), as well as the U.S. BLM, U.S. BIA and New Mexico Oil Conservation Division. Approval of this plan has been obtained from both the BLM and BIA.

Your earliest review of this request will be appreciated. BEI is on standby to perform pit remediation and transportation of the contaminated soils off the Navajo Indian Reservation.

Respectfully,
Blagg Engineering, Inc.

Jeffrey C. Blagg

Jeffrey C. Blagg, P.E.
President

cc: Charmaine Tso, NNEPA Shiprock
George E. Bushnell III, Esq., Seagrams
Gary Minck, Seagrams
Harlan Brown, Envirotech

District I · (505) 393-6161
P. O. Box 1980
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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

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Originated 8/8/

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to appropria
District Offi

Env JN: 96070-04

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Giant Industries
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Hospah Station
2. Management Facility Destination Envirotech Soil RemediationFac. Landfarm #2	6. Transporter To be Arranged
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	Sec 1 T25N R9W.

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All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:
Crude oil Spill contaminated soil. generated demo of old line.

RECEIVED
NOV 21 1997
OIL CON. DIV.
DIST. 3

Estimated Volume 60 cy cy Known Volume (to be entered by the operator at the end of the haul) 100 cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 11-21-97
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. Foust TITLE: Geologist DATE: 11/21/97

APPROVED BY: Martyne J. Kieling TITLE: Env Geologist DATE: 11/24/97

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
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Env JN: 96070-04

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Giant Industries
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Hospah Station
2. Management Facility Destination Envirotech Soil RemediationFac Landfarm #2	6. Transporter To be arranged
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	Sec. 1 T25N R9W.

9. Circle One:

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BRIEF DESCRIPTION OF MATERIAL:
Crude oil Spill contaminated soil, generated demo of old line.

RECEIVED
NOV 21 1997
OIL CON. DIV.
DIST. 3

Estimated Volume 60 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: 11.21.97
Waste Management FacilityAuthorized Agent

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. (505)632-0615

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 11/21/97

APPROVED BY: _____ TITLE: _____ DATE: _____

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
Giant Industries, Inc. Ciniza Pipeline 5764 US Hwy. 64 Farmington, NM 87401	Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico
3. Originating Site (name): Hospah Station Section 1 Township 25N Range 9W Attach list of originating sites as appropriate	**Location of the Waste (Street address &/or ULSTR):**
4. Source and Description of Waste Removel of old tank, line that was beleived to be empty was full of crude and contaminted Approx. 60 yards of dirt	

I, Barry G. Holman representative for:
(Print Name)
Giant Industries, Inc. Ciniza Pipeline 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

XX 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):

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

Name (Original Signature): Barry G. Holman

Title: Manager of Safety + Environment

Date: 11/21/97

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION
2040 S. PACHECO
SANTA FE, NEW MEXICO 87505
(505) 827-7131

December 11, 1995

CERTIFIED MAIL
RETURN RECEIPT NO. Z-765-962-523

Mr. Tim Kinney
General Manager
Crude Gathering Operations
Giant Industries, Inc.
5764 US Highway 64
Farmington, New Mexico 87401

RE: CRUDE OIL TRANSPORTATION AND PIPELINE SPILLS

Dear Mr. Kinney:

The New Mexico Oil Conservation Division (OCD) has reviewed Giant Industries, Inc. (Giant) November 9, 1995 "HANDLING OF SOILS CONTAMINATED WITH CRUDE OIL". This document presents the results of representative RCRA hazardous waste characteristic sampling of contaminated soils from transportation related spills of crude oil. Giant requests that they be allowed to use these analyses and a statement of process knowledge for determining the soils to be RCRA non-hazardous. These analyses are to be used in lieu of individual sampling of each spill event.

The above referenced request is approved with the following conditions:

1. The above representative analyses can be used in lieu of individual sampling of each spill event until December 31, 1997.

2. Giant will reference the above waste determination in all future RCRA non-exempt crude oil spill reports to the OCD.

Please be advised that OCD approval does not relieve Giant of liability should these types of leaks and spills result in actual contamination of surface waters, ground waters or the environment. In addition, OCD approval does not relieve Giant of responsibility for compliance with any other federal, state or local laws and/or regulations.

If you have questions please contact me at (505) 827-5885.

Sincerely,

William C. Olson
Hydrogeologist
Environmental Bureau

xc: OCD Aztec District Office
Benito Garcia, NMED Hazardous and Radioactive Waste Bureau

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
1000 Rio Brazos Road
Aztec, 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: 96070-05

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Giant Industries
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Apache-Lybrook Pipeline
2. Management Facility Destination Envirotech Soil Remediation Fac. Landfarm #2	6. Transporter To be Arranged
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	Sec 1 T23N R7W.

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 contaminated soil, resulting pipeline damage.
Giant / NMOCD "Handling of Soils contaminated with Crude Oil" Approval Attached.

Nothing transported

RECEIVED
NOV 21 1997
OIL CON. DIV.
DIST. 3

Estimated Volume 70 cy cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Harlan M. Brown
Waste Management Facility Authorized Agent
TITLE: Landfarm Manager DATE: 11-21-97

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. (505)632-0615

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 11/21/97

APPROVED BY: Martyn J. Kelly TITLE: Env. Geologist DATE: 11/24/97

District I - (505) 393-6161
P. O. Box 1980
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District Office

Env JN: 96070-05

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Giant Industries
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Apache-Lybrook Pipeline
2. Management Facility Destination Envirotech Soil RemediationFac Landfarm #2	6. Transporter To be Arranged
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	Sec1 T23N R7W.

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BRIEF DESCRIPTION OF MATERIAL:

Crude oil contaminated soil, resulting pipeline damage.
Giant / NMOCD "Handling of Soils contaminated with Crude Oil" Approval Attached.

RECEIVED
NOV 21 1997
OIL CON. DIV.
DIST. 3

Estimated Volume 70 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: 11-21-97
Waste Management FacilityAuthorized Agent

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. (505)632-0615

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 11/21/97

APPROVED BY: _____ TITLE: _____ DATE: _____

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
Giant Industries Inc. Ciniza Pipeline 5764 US Hwy 64 Farmington, NM. 87401	Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico

3. Originating Site (name):
Apache- Lybrook Pipeline

Section 1 Township 23N Range 7 W

Attach list of originating sites as appropriate

Location of the Waste (Street address &/or ULSTR):

4. Source and Description of Waste
Crude oil pipeline after being hit by ditcher while ditching for new crude oil pipeline. Crude oil contaminated dirt approx. 70 yards of dirt.

I, Barry G. Holman (Print Name) representative for:

Giant Industries, Inc. Ciniza Pipeline 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

XX 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):

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

Name (Original Signature): Barry G. Holman

Title: Manager Of Safety & Environment

Date: 11/21/97

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION
2040 S. PACHECO
SANTA FE, NEW MEXICO 87505
(505) 827-7131

December 11, 1995

CERTIFIED MAIL
RETURN RECEIPT NO. Z-765-962-523

Mr. Tim Kinney
General Manager
Crude Gathering Operations
Giant Industries, Inc.
5764 US Highway 64
Farmington, New Mexico 87401

RE: CRUDE OIL TRANSPORTATION AND PIPELINE SPILLS

Dear Mr. Kinney:

The New Mexico Oil Conservation Division (OCD) has reviewed Giant Industries, Inc. (Giant) November 9, 1995 "HANDLING OF SOILS CONTAMINATED WITH CRUDE OIL". This document presents the results of representative RCRA hazardous waste characteristic sampling of contaminated soils from transportation related spills of crude oil. Giant requests that they be allowed to use these analyses and a statement of process knowledge for determining the soils to be RCRA non-hazardous. These analyses are to be used in lieu of individual sampling of each spill event.

The above referenced request is approved with the following conditions:

1. The above representative analyses can be used in lieu of individual sampling of each spill event until December 31, 1997.

2. Giant will reference the above waste determination in all future RCRA non-exempt crude oil spill reports to the OCD.

Please be advised that OCD approval does not relieve Giant of liability should these types of leaks and spills result in actual contamination of surface waters, ground waters or the environment. In addition, OCD approval does not relieve Giant of responsibility for compliance with any other federal, state or local laws and/or regulations.

If you have questions please contact me at (505) 827-5885.

Sincerely,

William C. Olson
Hydrogeologist
Environmental Bureau

xc: OCD Aztec District Office
Benito Garcia, NMED Hazardous and Radioactive Waste Bureau

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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 8/8/95

Submit Original
Plus 1 Copy
to appropriate
District Office

Env JN: _____

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☒ Non-Exempt: ☐ D.F. Yarbal 10.6.97 16:10	4. Generator Phillips Petroleum
Verbal Approval Received: Yes ☒ No ☐	5. Originating Site Various Producing Locations
2. Management Facility Destination Envirotech Soil RemediationFac. Landfarm #2	6. Transporter Cimmaron
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	See Attached C-138S.

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:

BSW solids & scale, primarily PHC contaminated sand.
Norm's Test ATTACHED.

RECEIVED
NOV 13 1997
OIL CON. DIV.
DIST. 3

Estimated Volume 11 Drums cy Known Volume (to be entered by the operator at the end of the haul) 11 drums cy

SIGNATURE: Harlan M. Brown
Waste Management Facility Authorized Agent

TITLE: Landfarm Manager

DATE: 10.6.97
Resubmit. → 11.13.97

TYPE OR PRINT NAME: Harlan M. Brown

TELEPHONE NO. (505)632-0615

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 11/14/97

APPROVED BY: [illegible] TITLE: Geo. DATE: 11/14/97

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
Phillips Petroleum Co. 5525 Hwy 64 NBU 3004 Farmington, NM 87401	Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico
3. Originating Site (name):	**Location of the Waste (Street address &/or ULSTR):**
30-6 #407 (60%) San Juan 30-5 #257 (20%) San Juan 29-5 #203 (20%) Attach list of originating sites as appropriate	H-Sec 16-T30N-R-6W M-Sec 11-T30N-R5W B-Sec 6 T29N R6W
4. Source and Description of Waste	
Tank Bottoms (Solids) & Carbonate Scale Estimated Eleven (11) drums - NORM Testing Attached -	*Note - Tank Composition Primarily Sand

I, Robert A. Wirtanen 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)

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 only the following documentation is attached (check appropriate items):

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

Name (Original Signature): RA Wirtanen RAWirtanen

Title: Sr. Safety & Environmental Specialist

Date: 10-27-97

1000

INSPECTION FOR N.O.R.M. CONTAMINATION
PHILLIPS PETROLEUM COMPANY

Location: Lower Phillips yard Date: 10-27-97

Survey Instrument Model: 290 Victoreen S/n 1289 Last Calibrated: 8-11-97

Item Description: Tank bottoms (solids) and carbonate scale

Number of Pieces: Aprox. 11 drums

Location Where Items Originated: San Juan 30-5 #257 (20%) 30-6 #407 (60%) 29-5 #203 (20%)

Background Reading: .055 uR/hr

Highest NORM reading: .14 uR/hr

Lowest NORM reading: .08 uR/hr

Any samples taken, if so how many:

Aprox. 11 drums Pieces inspected

All Pieces found to be free of NORM contamination

None Pieces found to have NORM contamination

Remarks:

Inspector: Bill Schaaphok

What is final disposition: Land Farm #2 Envirotech

Released to: Date:

cc:

District I - (505) 393-6161
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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

Env JN: 95046

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☒ Non-Exempt: ☐ Verbal Approval Received: Yes ☒ No ☐ (Donny Foust)	4. Generator HW Petroleum Corp
	5. Originating Site West Lindreth Central Tank Battery
2. Management Facility Destination Envirotech Soil RemediationFac. Landfarm #2	6. Transporter Schmidts
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	Sec 23 T25N R4W

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 during clean up of evaporation pond
High chlorides and Sodium levels
Jicarilla notification & Analysis for BTEX, TPH, Na, Cl Attached.

RECEIVED
NOV 10 1997
OIL CON. DIV.
DIST. 3

Estimated Volume ± 500 cy Known Volume (to be entered by the operator at the end of the haul) 494 cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 11-7-97
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 G. Foust TITLE: Geologist DATE: 11/10/97

APPROVED BY: Eric Busch TITLE: Geologist DATE: 11/12/97

MW PETROLEUM CORPORATION

RECEIVED OCT 25 1997

October 23, 1997

Keith Manwell
Jicarilla Apache Tribe, EPO.
P. O. Box 507
Dulce, NM 87528

Keith,

Denny Foust with the NMOCD has reviewed this information from the West Lindreth Central Tank Battery Evaporation Pond dirt cell. The NMOCD has approved the removal of the dirt to be taken to Envirotech's Soil Remediation Facility South of Bloomfield.

Jeff Cross had obtained a verbal approval from you on this issue. The NMOCD has requested MWP to submit this letter and test results to you.

Unless you need further information or clarification on this, we will be hauling this dirt around the end of this month.

Please contact either Jeff Cross or myself if you have any concerns or questions.

Respectfully,
MW Petroleum

Stan Phillips
Production Foreman

CC: Denny Foust—NMOCD, Aztec
Harlan Brown—Envirotech Inc., Farmington

SP/mg

2855 SOUTHSIDE RIVER ROAD, SUITE A

FARMINGTON, NM 87401-7947

505-325-0318

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
MW Petroleum 2855 Southside River Road Farmington, NM 87401	Envirotech Soil Remediation Facility Landfarm #2 Hillton, New Mexico
3. Originating Site (name): West Lindrith Central Tank Battery Evaporation Pond Attach list of originating sites as appropriate	**Location of the Waste (Street address &/or ULSTR):** 2850' FNL & 1500' FEL Sec. 23 T25N R4W

4. Source and Description of Waste

Dirt with high chlorides and Sodiums levels. Dirt was removed from on top of the pit liner when the pond was closed.

I, Stan Phillips (Print Name) representative for: MW Petroleum 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 only the following documentation is attached (check appropriate items):

___ MSDS Information

___ RCRA Hazardous Waste Analysis

___ Chain of Custody

___ Other (description):

Name (Original Signature): Stan Phillips

Title: Production Foreman

Date: September 10, 1997

ASSAIGAI
ANALYTICAL
LABORATORIES, INC.
7300 Jefferson, N.E. • Albuquerque, New Mexico 87109 • (505) 345-8964 • FAX (505) 345-7259
3332 Wedgewood, E-5 • El Paso, Texas 79925 • (915) 593-6000 • FAX (915) 593-7820

JUL 21 1997

Report Generated:
July 8, 1997 15:22

CERTIFICATE OF ANALYSIS
RESULTS BY SAMPLE

SENT TO: APACHE CORPORATION
304 N. BEHREND
FARMINGTON, NM 87401

ATTN: JEFF CROSS

WORKORDER # : 9706217
WORK ID : JICARILLA PIT CLOSURES
CLIENT CODE : APA01
DATE RECEIVED : 06/23/97

Lab ID: 9706217-01A
Sample ID: WLCTB-SALT CELL COMP
Collected: 06/23/97 14:30:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND*	mg/kg	0.0050	20	06/25/97	X97153
Toluene	ND*	mg/kg	0.0050	20	06/25/97	X97153
Ethylbenzene	ND*	mg/kg	0.0050	20	06/25/97	X97153
P-&m-Xylene	ND*	mg/kg	0.010	20	06/25/97	X97153
O-Xylene	ND*	mg/kg	0.0050	20	06/25/97	X97153

Lab ID: 9706217-01B
Sample ID: WLCTB-SALT CELL COMP
Collected: 06/23/97 14:30:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
(FAA) DIG SOIL/SW846 3050	06/25/97	N/A				
CHLORIDE/EPA 300						
Chloride	52200	mg/Kg	0.50	2000	07/07/97	W97296
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	ND	mg/Kg	50	25	06/28/97	SDRO037
SAMPLING TIME	N/A	N/A				
SODIUM (FAA)/SW846 7770						
Sodium, Na	30600	mg/Kg	50	50	06/27/97	M97458

for William P. Biava
President

Member: American Council of Independent Laboratories, Inc

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THIS REPORT MAY NOT BE USED IN ANY MANNER BY THE CLIENT OR ANY OTHER THIRD PARTY TO CLAIM
PRODUCT ENDORSEMENT BY THE NATIONAL VOLUNTARY LABORATORY ACCREDITATION PROGRAM

ASSAIGAI ANALYTICAL LABORATORIES

Chain of Cus ly Record

Lab job no.: 6217 Date 6-23-97

Page 1 of 1

ALBUQUERQUE, NEW MEXICO
(505) 345-8964

3332 WEDGEWOOD
EL PASO, TEXAS 79925
(915) 593-6000

1910 N. BIG SPRING
MIDLAND, TEXAS 79705
(915) 570-1116

MELQUIADES ALANIS
6411 LOCAL UNO
CIUDAD JUAREZ, CHIHUAHUA MEXICO 32320

Client Apache Corporation

Address 304 N. Behrend

City / State / Zip Farmington, NM 87401

Project Name / Number JICARILLA PIT CLOSURES

Contract / Purchase Order / Quote

Project Manager / Contact Jeff Cross

Telephone No. (505) 774-6643

Fax No. (505) 774-6624

Samplers: (Signature) Jeff Cross

Analysis Required

AAL Fraction Number	Field Sample Number / Location	Date	Time	Sample Type	Type / Size of Container	Preservation Temp.	Preservation Chemical	No. of Containers	BTEX	DRO (mod. 8015)	NA, CL							Remarks
	WLCTB-Salt Cell Comp.	6/23/97	14:30	Soil	4 oz. G.	4°C	N/A	1	X									
	WLCTB-Salt Cell Comp	6/23/97	14:30	Soil	4 oz. VOA.	4°C	N/A	1		X	X							

23 June 97

Relinquished by:	Date	Received by:	Relinquished by:	Date	Received by:
Signature Jeff Cross	6-23-97	Signature Scott Pratt	Signature		Signature
Printed JEFF CROSS	Time	Printed SCOTT PRATT	Printed	Time	Printed
Company Apache Corp.	15:30	Company AAL	Company		Company
Reason		Reason	Reason		Reason

Method of Shipment:

Shipment No.

Special Instructions:

Comments: Salt Cell Samples 1-8 of Comp. will be held pending Analysis of Composite

After analysis, samples are to be:

- ☐ Disposed of (additional fee)
- ☐ Stored (30 days max)
- ☐ Stored over 30 days (additional fee)
- ☐ Returned to customer

LABORATORY

WORKORDER COMMENTS

DATE : 07/08/97
WORKORDER: 9706217

DEFINITIONS/DATA QUALIFIERS

The following are definitions, abbreviations, and data qualifiers which may have been utilized in your report:

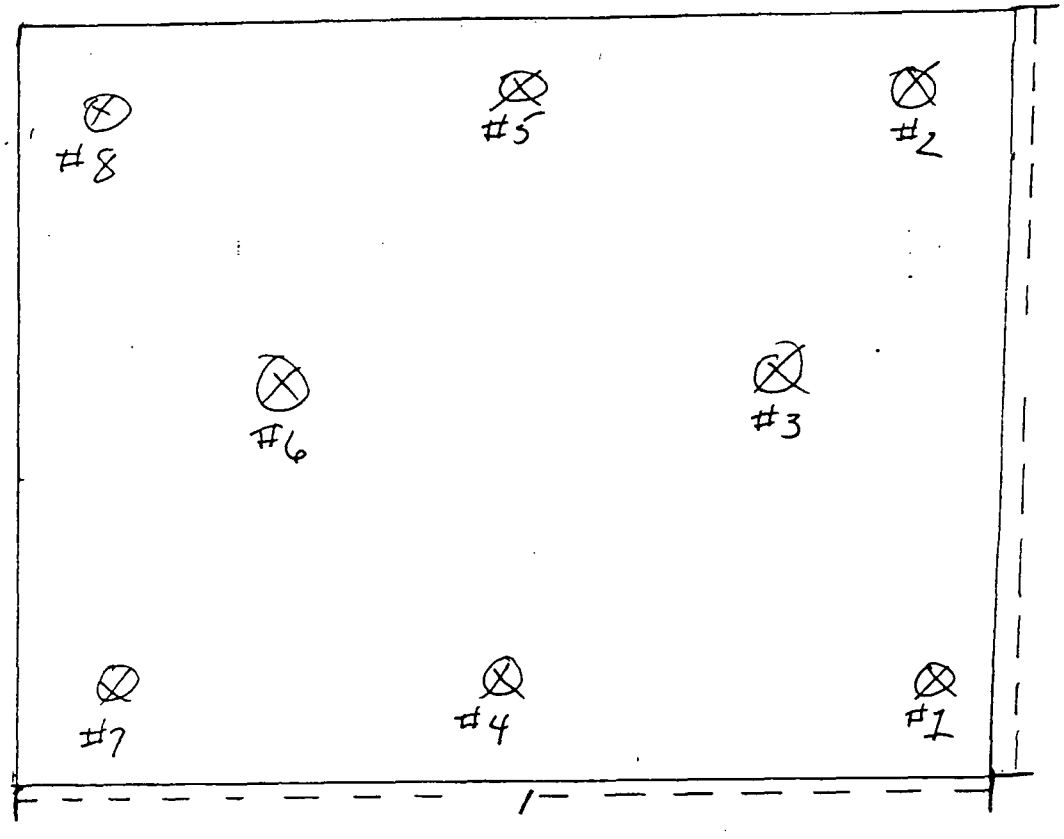
ND = Analyte "not detected" in analysis at the sample specific detection limit.
D_F = Sample "dilution factor"
NT = Analyte "not tested" per client request.
B = Analyte was also detected in laboratory method QC blank.
E = Analyte concentration (result) is an estimated value or exceeds analysis calibration range.
LIMIT = The minimum amount of the analyte that AAL can detect utilizing the specified analysis.

Please Note: Multiply the "Limit" value (AAL's Detection Limit) by Dilution Factor (D_F) to obtain the sample specific Detection Limit.

REPORT COMMENTS

*Please Note: Fraction -01A wasanalyzed by method SW846-8240

Dimensions: ' x ' x "



WELL NAME: WLCTB SALT Cell

NOTES: Took 8 point composite 2' into cell.

SAMPLE DATE: 6-23-97

⊗ = SAMPLE AREA

MW PETROLEUM CORPORATION

October 23, 1997

Keith Manwell
Jicarilla Apache Tribe, EPO.
P. O. Box 507
Dulce, NM 87528

RECEIVED
OCT 2 7 1997
OIL CON. DIV.
DIST. 3

Keith,

Denny Foust with the NMOCD has reviewed this information from the West Lindreth Central Tank Battery Evaporation Pond dirt cell. The NMOCD has approved the removal of the dirt to be taken to Envirotech's Soil Remediation Facility South of Bloomfield.

Jeff Cross had obtained a verbal approval from you on this issue. The NMOCD has requested MWP to submit this letter and test results to you.

Unless you need further information or clarification on this, we will be hauling this dirt around the end of this month.

Please contact either Jeff Cross or myself if you have any concerns or questions.

Respectfully,
MW Petroleum

Stan Phillips
Production Foreman

CC: Denny Foust—NMOCD, Aztec
Harlan Brown—Envirotech Inc., Farmington

SP/mg

2855 SOUTHSIDE RIVER ROAD, SUITE A

FARMINGTON, NM 87401-7947

505-325-0318

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
MW Petroleum 2855 Southside River Road Farmington, NM 87401	Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico
3. Originating Site (name): West Lindrith Central Tank Battery Evaporation Pond Attach list of originating sites as appropriate	**Location of the Waste (Street address &/or ULSTR):** 2850' FNL & 1500' FEL Sec. 23 T25N R4W

4. Source and Description of Waste

Dirt with high chlorides and Sodiums levels. Dirt was removed from on top of the pit liner when the pond was closed.

I, Stan Phillips (Print Name) representative for: MW Petroleum 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 only the following documentation is attached (check appropriate items):

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

Name (Original Signature): Stan Phillips

Title: Production Foreman

Date: September 10, 1997

RECEIVED
OCT 27 1997
OIL CON. DIV.
DIST. 3

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JUL 21 1997

Report Generated:
July 8, 1997 15:22

CERTIFICATE OF ANALYSIS
RESULTS BY SAMPLE

SENT TO: APACHE CORPORATION
304 N. BEHREND
FARMINGTON, NM 87401

ATTN: JEFF CROSS

WORKORDER # : 9706217
WORK ID : JICARILLA PIT CLOSURES
CLIENT CODE : APA01
DATE RECEIVED : 06/23/97

Lab ID: 9706217-01A
Sample ID: WLCTB-SALT CELL COMP
Collected: 06/23/97 14:30:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND*	mg/kg	0.0050	20	06/25/97	X97153
Toluene	ND*	mg/kg	0.0050	20	06/25/97	X97153
Ethylbenzene	ND*	mg/kg	0.0050	20	06/25/97	X97153
P-&m-Xylene	ND*	mg/kg	0.010	20	06/25/97	X97153
O-Xylene	ND*	mg/kg	0.0050	20	06/25/97	X97153

Lab ID: 9706217-01B
Sample ID: WLCTB-SALT CELL COMP
Collected: 06/23/97 14:30:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
(FAA) DIG SOIL/SW846 3050	06/25/97	N/A				
CHLORIDE/EPA 300						
Chloride	52200	mg/Kg	0.50	2000	07/07/97	W97296
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	ND	mg/Kg	50	25	06/28/97	SDRO037
SAMPLING TIME	N/A	N/A				
SODIUM (FAA)/SW846 7770						
Sodium, Na	30600	mg/Kg	50	50	06/27/97	M97458

for William P. Biava
President

Member: American Council of Independent Laboratories, Inc

REPRODUCTION OF THIS REPORT IN LESS THAN FULL REQUIRES THE WRITTEN CONSENT OF AAL
THIS REPORT MAY NOT BE USED IN ANY MANNER BY THE CLIENT OR ANY OTHER THIRD PARTY TO CLAIM
PRODUCT ENDORSEMENT BY THE NATIONAL VOLUNTARY LABORATORY ACCREDITATION PROGRAM

Chain of Cus ly Record

ASSAIGAI ANALYTICAL LABORATORIES

Lab job no.: 6217 Date 6-23-97

Page 1 of 1

ALBUQUERQUE, NEW MEXICO
(505) 345-8964

3332 WEDGEWOOD
EL PASO, TEXAS 79925
(915) 593-6000

1910 N. BIG SPRING
MIDLAND, TEXAS 79705
(915) 570-1116

MELQUIADES ALANIS
6411 LOCAL UNO
CIUDAD JUAREZ, CHIHUAHUA MEXICO 32320

Client Apache Corporation

Address 304 N. Behrend

City / State / Zip Farmington, NM 87401

Project Name / Number JICARILLA PIT CLOSURES

Contract / Purchase Order / Quote

Project Manager / Contact Jeff Cross

Telephone No. (505) 774-6643

Fax No. (505) 774-6624

Samplers: (Signature) Jeff Cross

Analysis Required

AAL Fraction Number	Field Sample Number / Location	Date	Time	Sample Type	Type / Size of Container	Preservation Temp.	Preservation Chemical	No. of Containers	BTEX	DRO (mod. 8015)	NA, CL							Remarks
	WLCtB-Salt Cell Comp.	6/23/97	14:30	Soil	4 oz. G.	4°C	N/A	1	X									
	WLCtB-Salt Cell Comp	6/23/97	14:30	Soil	4 oz. VOA.	4°C	N/A	1		X	X							

J.C. 23 June 97

Relinquished by:	Date	Received by:	Relinquished by:	Date	Received by:
Signature: Jeff Cross	6-23-97	Signature: Scott Pratt	Signature		Signature
Printed: Jeff Cross	Time	Printed: Scott Pratt	Printed	Time	Printed
Company: Apache Corp.	15:30	Company: AAL	Company		Company
Reason		Reason	Reason		Reason

Method of Shipment:

Shipment No.

Special Instructions:

Comments: Salt Cell Samples 1-8 of Comp. will be held pending analysis of composite

After analysis, samples are to be:

- ☐ Disposed of (additional fee)
- ☐ Stored (30 days max)
- ☐ Stored over 30 days (additional fee)
- ☐ Returned to customer

LABORATORY

WORKORDER COMMENTS

DATE : 07/08/97
WORKORDER: 9706217

DEFINITIONS/DATA QUALIFIERS

The following are definitions, abbreviations, and data qualifiers which may have been utilized in your report:

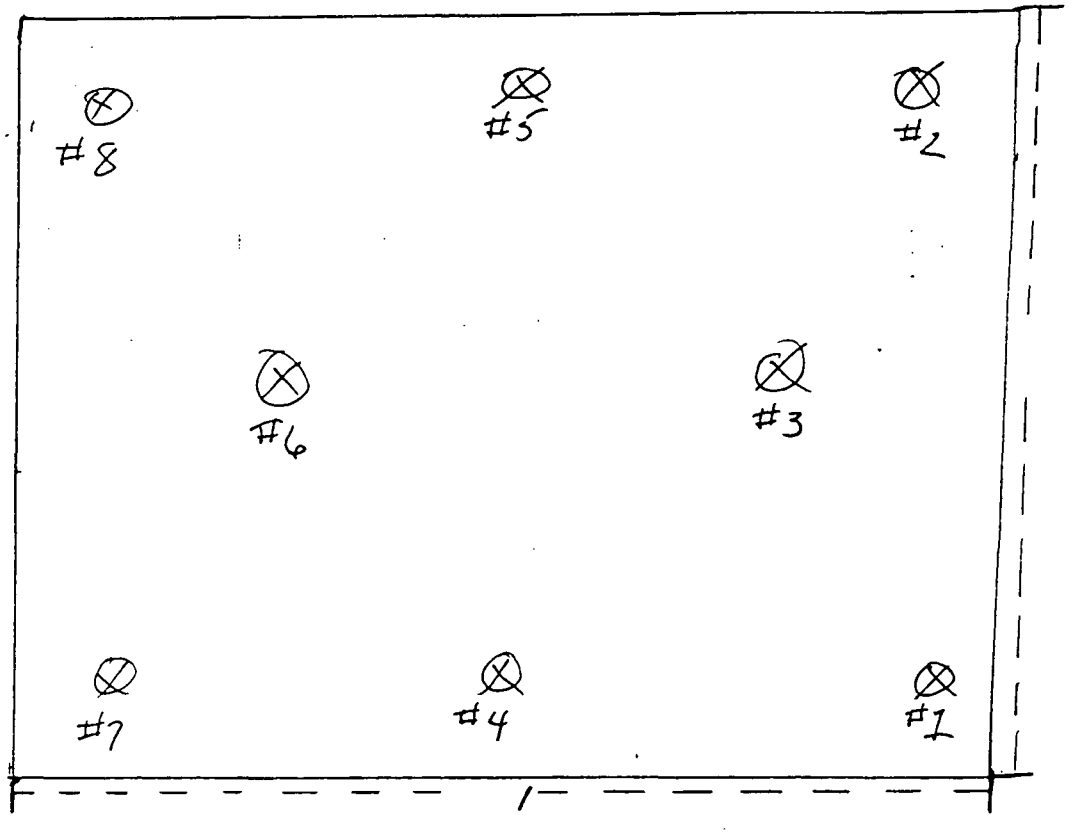
ND = Analyte "not detected" in analysis at the sample specific detection limit.
D_F = Sample "dilution factor"
NT = Analyte "not tested" per client request.
B = Analyte was also detected in laboratory method QC blank.
E = Analyte concentration (result) is an estimated value or exceeds analysis calibration range.
LIMIT = The minimum amount of the analyte that AAL can detect utilizing the specified analysis.

Please Note: Multiply the "Limit" value (AAL's Detection Limit) by Dilution Factor (D_F) to obtain the sample specific Detection Limit.

REPORT COMMENTS

*Please Note: Fraction -01A wasanalyzed by method SW846-8240

Dimensions: ' x ' x "



WELL NAME: WLCTB SALT Cell

NOTES: Took 8 point composite 2' into cell.

SAMPLE DATE: 6-23-97

⊗ = SAMPLE AREA

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
1000 Rio Brazos Road
Aztec, 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
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to appropriate
District Office

Env JN: 96003-29

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☒ Non-Exempt: ☐ 10-17-97 14:15 Verbal Approval Received: Yes ☒ No ☐ Harlan Hollier Johnny Rogers Roger Anderson?	4. Generator EPFS
	5. Originating Site Gallegos Canyon #170
2. Management Facility Destination Envirotech Soil RemediationFac. Landfarm #2	6. Transporter Dawn
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	SW4 NW4 Sec 8, T29N, 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:

Drill cuttings from cathodic well installation.

NOTE: THIS WAS Water AND Drill cuttings approved AS beneficial use to L.F. Process.

10/17/97 BOL 10869 LF245 L-13 To M-13 160 bbls

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JAN 16 1998
OIL CON. DIV.
DIST. 3

Estimated Volume 160 bbls cy Known Volume (to be entered by the operator at the end of the haul) 160 bbls. cy

SIGNATURE: Harlan M. Brown TITLE: Landfarm Manager DATE: 11-15-97
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. Foust TITLE: Geologist DATE: 1/20/98

APPROVED BY: Ernie Busch TITLE: Geologist DATE: 1/23/98

RECEIVED OCT 18 1997

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
El Paso Natural Gas Co. 614 Reilly Avenue Farmington, NM 87401	Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico
3. Originating Site (name): CPS well installation Attach list of originating sites as appropriate	Location of Waste(Street address &/or ULSTR): SW/4 & NW/4 Sec. 8 T29N, R12W
4. Source and Description of Waste Drilling water and drill cuttings from installation of a cathodic protection deep well	

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)

_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-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): David Bays

Title: Principal Environmental Scientist

Date: October 17, 1997

Roger Anderson

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
Aztec, 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
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District Office

Env JN: 91406-06

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Quad Pressure
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Vehicle Accident Colo Hwy 141
2. Management Facility Destination Envirotech Soil RemediationFac Landfarm #2	6. Transporter ENVIROTECH INC
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State Colorado → New Mexico
7. Location of Material (Street Address or ULSTR)	M.P. 20.6 Colo Hwy 141, Slickrock Colo. San Miguel County.

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 with used oil, hydraulic oil & ANTIFREEZE

TCLP Attached

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OCT 14 1997
OIL CON. DIV.
DIST. 3

Estimated Volume ±60 cy 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: 10-13-97
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. Foust TITLE: Geologist DATE: 10/14/97

APPROVED BY: Martyne J. Kieling TITLE: Env Geologist DATE: 10/17/97

District I · (505) 393-6161
P. O. Box 1980
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(505) 827-7131

Form C-138
Originated 8/8/95

Submit Original
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to appropriate
District Office

Env JN: 91406-06

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Cudo Pressure
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Vehicle Accident Colo Hwy 141
2. Management Facility Destination Envirotech Soil RemediationFac. Landfarm #2	6. Transporter ENVIROTECH INC.
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State Colorado → New Mexico
7. Location of Material (Street Address or ULSTR)	M.P. 20.6 Colo Hwy 141, Slickrock Colo. San Miguel County.

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 with used oil, hydraulic oil & ANTIFREEZE.

TCLP Attached

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OCT 14 1997
OIL CON. DIV.
DIST. 3

Estimated Volume ±60 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: 10-13-97
Waste Management FacilityAuthorized Agent

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. (505)632-0615

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 10/14/97

APPROVED BY: _____ TITLE: _____ DATE: _____

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
Cudd Pressure Control ~~P.O. Box 1801~~ Rt #2 Box 145 Elk City, Ok 73644	Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico

3. Originating Site (name): **Location of the Waste (Street address &/or ULSTR):**

½ mile south Slick Rock, Colorado near MP 20.6 Colorado Hwy 141.

Attach list of originating sites as appropriate

4. Source and Description of Waste

Truck Accident — Diesel fuel, Hydraulic oil, Anitfreeze

I, Earl Agan **(Print Name)** **representative for:**

Cudd Pressure Control **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

X **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
X RCRA Hazardous Waste Analysis
___ Chain of Custody
___ Other (description):

Name (Original Signature): Earl E Agan

Title: ~~Colorado~~ Corporate Services Manager

Date: 10-7-99

RECEIVED OCT - 8 1997

STATE OF COLORADO

Roy Romer, Governor
Patti Shwayder, Executive Director

Dedicated to protecting and improving the health and environment of the people of Colorado

Grand Junction Regional Office
222 S. 6th Street, Room 232
Grand Junction, Colorado 81501-2768
Fax (970) 248-7198

Colorado Department
of Public Health
and Environment

October 6, 1997

Mr. Harlan M. Brown
Envirotech Inc.
5796 U.S. Highway 64
Farmington NM 87401

Re: Truck Accident Spill at Mile Post 20.6, Slickrock, Colorado
San Miguel County
Petroleum Contaminated Soil Disposal Request

Dear Mr. Brown:

The data supplied October 1, 1997 for the above referenced materials have been reviewed by our office. This material consists of approximately 40 cubic yards of petroleum contaminated soil from a truck accident involving a Cudd Pressure coil unit. This soil is a special solid waste that can be moved to and treated at Envirotech's Soil Remediation Facility, Landfarm #2, near Hilltop, New Mexico.

If you require further information please contact me in my office at 248-7168.

Sincerely,

Donna Stoner

Donna Stoner, Environmental Specialist
Solid Waste Program
Hazardous Materials and
Waste Management Division

:ds

cc: SW SAM GEN 4A
File

ENVIROTECH INC.
PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

October 1, 1997

Colorado Department of Public Health and Environment
Grand Junction Regional Office
Attn: Donna Stoner
222 South 6th Street, Room 232 (970)248-7168
Grand Junction, Colorado 80203 Fax (970)248-7198

Re: Transportation and remediation of petroleum hydrocarbon contaminated soil resulting from a truck accident

Dear Donna:

Envirotech Inc. has been contracted by Cudd Pressure Control to handle the site cleanup and evaluation of soil contaminated by diesel, antifreeze, and hydraulic oil spilled during a truck accident involving a Cudd Pressure coil tubing unit. The soil falls under the New Mexico Oil Conservation Division (NMOCD) category of "Oilfield Non-Exempt Waste". Envirotech plans to move the contaminated soil to our Soil Remediation Facility, Landfarm #2, near Hilltop, New Mexico.

Details of the on-site activities will be addressed in a closure report to be prepared for Cudd Pressure Control and filed under separate cover. The accident occurred at 9:20 A.M., Sunday, September 20, 1997, at mile post 20.6 on Colorado Highway 141 near Slickrock, Colorado.

The purpose of this correspondence is to request CDPHE approval of our plan to move the contaminated media to our Soil Remediation Facility, a soil remediation facility permitted through the NMOCD. We need your approval in order to proceed with a request to the NMOCD to receive the soil at the landfarm. The non-hazardous soil, approximately 40 cubic yards, is currently staged on plastic at a location near the accident scene at Slick Rock. Included with this request are copies of the analytical results (TCLP Analysis) from the stockpiled soil.

We would appreciate your timely response to this request. If you have questions or comments regarding this project please feel free to contact us at 800-362-1879 or (505)632-0615.

Sincerely,
Envirotech Inc.

Harlan M. Brown
Staff Geologist / Hydrogeologist
New Mexico Certified Scientist #083

encl: TCLP Analysis

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

September 26, 1997

Mr. Earl Agan
Cudd Pressure Control, Inc.
P.O. Box 1801
Elk City, Oklahoma 73648

(800) 543-6553
Fax (405) 225-1147

Project No.: 91406-06

Dear Mr. Agan,

Enclosed are the analytical results for the sample collected from the location designated as "Slickrock, CO". One 5-point composite solid sample was collected by Envirotech personnel on 09/21/97, and received by the Envirotech laboratory on 09/22/97 for Hazardous Waste Characterization analysis (Volatiles, Semi-volatiles, Metals, Ignitability, Reactivity and Corrosivity).

The sample was documented on Envirotech Chain of Custody No. 5459 and assigned Laboratory No. C104 for tracking purposes.

Results of the analysis indicate that the material from the designated location is not a characteristic hazardous waste as defined by 40 CFR, Section 261, Subpart C for the noted compounds.

Should you have any questions or require additional information, please do not hesitate to contact us at (505) 632-0615. It is always a 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. Sendler
Environmental Scientist/Laboratory Manager

enc.

SWS\sws

91406-06.lb1/wpd

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

SUSPECTED HAZARDOUS WASTE ANALYSIS

Client:	Cudd Pressure Control	Project #:	91406-06
Sample ID:	1 5 pt. Soil Composite	Date Reported:	09-23-97
Lab ID#:	C104	Date Sampled:	09-21-97
Sample Matrix:	Soil	Date Received:	09-22-97
Preservative:	Cool	Date Analyzed:	09-23-97
Condition:	Cool & Intact	Chain of Custody:	5459

Parameter	Result	
IGNITABILITY:	**Negative**	
CORROSIVITY:	**Negative**	**pH = 7.71**
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: **Slickrock, CO.**

Analyst

Review

5796 U.S. Highway 64-3014 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	Cudd Pressure Control	Project #:	91406-06
Sample ID:	5 pt. Soil Composite	Date Reported:	09-25-97
Laboratory Number:	C104	Date Sampled:	09-21-97
Chain of Custody:	5459	Date Received:	09-22-97
Sample Matrix:	Solid	Date Analyzed:	09-25-97
Preservative:	Cool	Date Extracted:	09-23-97
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
Arsenic	**0.081**	**0.001**	**5.00**
Barium	**2.95**	**0.01**	**100**
Cadmium	**0.001**	**0.001**	**1.00**
Chromium	**ND**	**0.001**	**5.00**
Lead	**0.008**	**0.001**	**5.00**
Mercury	**ND**	**0.001**	**0.200**
Selenium	**0.024**	**0.001**	**1.00**
Silver	**ND**	**0.001**	**5.0**

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

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

Comments: **Slickrock, Col.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	Cudd Pressure Control	Project #:	91406-06
Sample ID:	5 pt. Soil Composite	Date Reported:	09-25-97
Laboratory Number:	C104	Date Sampled:	09-21-97
Chain of Custody:	5459	Date Received:	09-22-97
Sample Matrix:	Solid	Date Extracted:	09-23-97
Preservative:	Cool	Date Analyzed:	09-25-97
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: **Slickrock, Col.**

Analyst

Review

1025

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8040
PHENOLS

Client:	Cudd Pressure Control	Project #:	91406-06
Sample ID:	5 pt. Soil Composite	Date Reported:	09-25-97
Laboratory Number:	C104	Date Sampled:	09-21-97
Chain of Custody:	5459	Date Received:	09-22-97
Sample Matrix:	Solid	Date Extracted:	09-23-97
Preservative:	Cool	Date Analyzed:	09-25-97
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	100%
	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. 19

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

Comments: **Slickrock, Col.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS

Client:	Cudd Pressure Control	Project #:	91406-06
Sample ID:	5 pt. Soil Composite	Date Reported:	09-25-97
Laboratory Number:	C104	Date Sampled:	09-21-97
Chain of Custody:	5459	Date Received:	09-22-97
Sample Matrix:	Solid	Date Extracted:	09-23-97
Preservative:	Cool	Date Analyzed:	09-25-97
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	102%

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: **Slickrock, Col.**

Analyst

Review

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ENVIRO-TECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

QUALITY ASSURANCE / QUALITY CONTROL DOCUMENTATION

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ENV ROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Blanks	Date Reported:	09-25-97
Laboratory Number:	N/A	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	09-25-97
Condition:	N/A	Date Extracted:	N/A

Parameter	Instrument Blank (mg/L)	Method Blank (mg/L)	Det. Limit (mg/L)
Arsenic	**ND**	**ND**	**0.001**
Barium	**ND**	**ND**	**0.01**
Cadmium	**ND**	**ND**	**0.001**
Chromium	**ND**	**ND**	**0.001**
Lead	**ND**	**ND**	**0.001**
Mercury	**ND**	**ND**	**0.001**
Selenium	**ND**	**ND**	**0.001**
Silver	**ND**	**ND**	**0.001**

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

Comments: **QA/QC for samples C104.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	09-25-97
Laboratory Number:	C104	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	09-25-97
Condition:	N/A	Date Extracted:	09-23-97

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Percent Difference
Arsenic	**0.081**	**0.080**	**1.2%**
Barium	**2.95**	**2.95**	**0.0%**
Cadmium	**0.001**	**0.001**	**0.0%**
Chromium	**ND**	**ND**	**0.0%**
Lead	**0.008**	**0.008**	**0.0%**
Mercury	**ND**	**ND**	**0.0%**
Selenium	**0.024**	**0.024**	**0.0%**
Silver	**ND**	**ND**	**0.0%**

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Maximum Difference
	Trace Metals	**30 %**

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

Comments: **QA/QC for samples C104.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Spike	Date Reported:	09-25-97
Laboratory Number:	C104	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	09-25-97
Condition:	N/A	Date Extracted:	09-23-97

Parameter	Spike Added (mg/L)	Sample Result (mg/L)	Spiked Sample Result (mg/L)	Percent Recovery
Arsenic	**0.100**	**0.081**	**0.181**	**100%**
Barium	**1.00**	**2.95**	**3.92**	**99%**
Cadmium	**0.050**	**0.001**	**0.051**	**100%**
Chromium	**0.050**	**ND**	**0.050**	**100%**
Lead	**0.100**	**0.008**	**0.108**	**100%**
Mercury	**0.025**	**ND**	**0.025**	**100%**
Selenium	**0.100**	**0.024**	**0.124**	**100%**
Silver	**0.050**	**ND**	**0.050**	**100%**

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Acceptance Range %
	TCLP Metals	**80 - 120 %**

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

Comments: **QA/QC for samples C104.**

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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:	09-25-97
Laboratory Number:	09-25-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:	09-25-97
		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: **QA/QC for sample C104.**

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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:	09-25-97
Laboratory Number:	09-23-TBN.MB	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	Cool	Date Extracted:	09-23-97
Condition:	Cool and Intact	Date Analyzed:	09-25-97
		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 sample C104.**

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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:	09-25-97
Laboratory Number:	C104	Date Sampled:	N/A
Sample Matrix:	Liquid	Date Received:	N/A
Preservative:	N/A	Date Extracted:	N/A
Condition:	N/A	Date Analyzed:	09-25-97
		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 C104.**

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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:	09-25-97
Laboratory Number:	09-25-TCA.BLANK	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	09-25-97
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	97 %
	2,4,6-tribromophenol	97 %

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. 19

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

Comments: **QA/QC for sample C104.**

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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:	09-25-97
Laboratory Number:	09-23-TCA.MB	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	Cool	Date Extracted:	09-23-97
Condition:	Cool & Intact	Date Analyzed:	09-25-97
		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	100%
	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. 19

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

Comments: **QA/QC for sample C104.**

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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:	09-25-97
Laboratory Number:	C104	Date Sampled:	N/A
Sample Matrix:	Solid	Date Received:	N/A
Preservative:	Cool	Date Extracted:	N/A
Condition:	Cool & Intact	Date Analyzed:	09-25-97
		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 C104.**

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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:	Laboratory Blank	Date Reported:	09-25-97
Laboratory Number:	09-25-TCV.BLANK	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	09-25-97
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	97%
	Bromofluorobenzene	101%

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 C104.**

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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:	09-25-97
Laboratory Number:	09-23-TCV.MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	09-25-97
Condition:	N/A	Date Extracted:	09-23-97
		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	97%
	Bromofluorobenzene	102%

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 C104.**

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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 Duplicate	Date Reported:	09-25-97
Laboratory Number:	C104	Date Sampled:	N/A
Sample Matrix:	Solid	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	09-25-97
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 sample C104.**

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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:	09-25-97
Laboratory Number:	C104	Date Sampled:	N/A
Sample Matrix:	Solid	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	09-25-97
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	0.0486	0.0001	97%	28-163
1,1-Dichloroethene	ND	0.050	0.0489	0.0001	98%	43-143
2-Butanone (MEK)	ND	0.050	0.0492	0.0001	98%	47-132
Chloroform	ND	0.050	0.0485	0.0001	97%	49-133
Carbon Tetrachloride	ND	0.050	0.0485	0.0001	97%	43-143
Benzene	ND	0.050	0.0474	0.0001	95%	39-150
1,2-Dichloroethane	ND	0.050	0.0491	0.0001	98%	51-147
Trichloroethene	ND	0.050	0.0492	0.0003	98%	35-146
Tetrachloroethene	ND	0.050	0.0490	0.0005	98%	26-162
Chlorobenzene	ND	0.050	0.0495	0.0003	99%	38-150
1,4-Dichlorobenzene	ND	0.050	0.0478	0.0002	96%	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 C104.**

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CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location	ANALYSIS/PARAMETERS
91406-06 CUDD PRESSURE CONTROL	SLICKROCK Col.	
Sampler: (Signature) Morris D. Young	Chain of Custody Tape No.	

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TC LP Wb HZP						Remarks
1 5pt. Soil Composite	9/21/97	11:45	C104	SOLID	2	✓						

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Morris D Young	9/22/97	8:01	Dean L. Ajenca	9-22-97	8:01
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

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Aztec, 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: ☐ Non-Exempt: ☒	4. Generator Wellcox
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Main Yard
2. Management Facility Destination Envirotech Soil RemediationFac. Landfarm #2	6. Transporter TBA
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	2658 Bloomfield Hwy. Farmington, 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:

Former oil/water Separator sump Hydrocarbon Impacted Soil

TCLP w/ H&P ATTACHED.

4,4 DDD Hazardous U Listed Waste U060

40 CFR 261.33

MJK

RECEIVED
OCT 21 1997
Environmental Bureau
Oil Conservation Division

RECEIVED
OCT 20 1997
OIL CON. DIV.
DIST. 3

Estimated Volume 200 cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Harlan M. Brown
Waste Management Facility Authorized Agent
TITLE: Landfarm Manager DATE: 10-20-97

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. (505)632-0615

(This space for State Use)

APPROVED BY: [illegible] TITLE: Ecologist DATE: 10/20/97

DENIED MJK

APPROVED BY: _____ TITLE: _____ DATE: 10/22/97

Quanterra
Environmental Services

Chlorinated Pesticides and PCB's
Target Compound List (TCL)
Method 8080

Client Name: Brown and Root Environmental
Client ID: HX20-SB04-15
Lab ID: 056857-0009-SA
Matrix: SOLID
Authorized: 08 SEP 97

Sampled: 04 SEP 97
Received: 06 SEP 97

Prepared: 18 SEP 97
Analyzed: 28 SEP 97

Parameter	Result	Dry Weight Units	Reporting Limit
Aldrin	ND	ug/kg	1.9
Aroclor 1016	ND	ug/kg	36
Aroclor 1221	ND	ug/kg	36
Aroclor 1232	ND	ug/kg	36
Aroclor 1242	ND	ug/kg	36
Aroclor 1248	ND	ug/kg	36
Aroclor 1254	ND	ug/kg	36
Aroclor 1260	ND	ug/kg	36
alpha-BHC	ND	ug/kg	1.9
beta-BHC	ND	ug/kg	1.9
delta-BHC	ND	ug/kg	1.9
gamma-BHC (Lindane)	ND	ug/kg	1.9
alpha-Chlordane	ND	ug/kg	1.9
gamma-Chlordane	ND	ug/kg	1.9
listed u060 — 4,4'-DDD	4.1	ug/kg	3.6
4,4'-DDE	4.6	ug/kg	3.6
4,4'-DDT	ND	ug/kg	3.6
Dieldrin	ND	ug/kg	3.6
Endosulfan I	ND	ug/kg	1.9
Endosulfan II	ND	ug/kg	3.6
Endosulfan sulfate	ND	ug/kg	3.6
Endrin	ND	ug/kg	3.6
Endrin ketone	ND	ug/kg	3.6
Heptachlor	ND	ug/kg	1.9
Heptachlor epoxide	ND	ug/kg	1.9
Methoxychlor	ND	ug/kg	19
Toxaphene	ND	ug/kg	190

Surrogate	Recovery		Limits
Tetrachloro-m-xylene	71	%	39-105
Dibutyl chlorendate	45	%	51-115
Decachlorobiphenyl	43	%	70-126

Percent moisture is 8.8%. All results and limits are reported on a dry weight basis.
Dilution factor is 1.0. All results and limits are corrected for dilution.

ND = Not Detected

Reported By: Dianna Link

Approved By: Audrey Cornell

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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New Mexico
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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Wellcox
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Main Yard
2. Management Facility Destination Envirotech Soil RemediationFac. Landfarm #2	6. Transporter TBA.
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	2650 Bloomfield Hwy. Farmington, 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:

Former oil/water Separator sump. Hydrocarbon Impacted Soil

TCLP w/ H&P. ATTACHED.

RECEIVED
OCT 20 1997
OIL CON. DIV.
DIST. 3

Estimated Volume 200 cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: Harlan M. Brown
Waste Management FacilityAuthorized Agent

TITLE: Landfarm Manager DATE: 10-20-97

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. (505)632-0615

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 10/20/97

APPROVED BY: _____ TITLE: _____ DATE: _____

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
Halliburton Energy Services 4109 E. Main Street Farmington, NM 87499	Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico
3. Originating Site (name): Wellex Site Attach list of originating sites as appropriate	**Location of the Waste (Street address &/or ULSTR):** 2600 East Bloomfield Highway Farmington, NM 87401
4. Source and Description of Waste Former Oil/Water Seperator Hydrocarbon Impacted Soil	

I, L. Bradford Sumrall (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

XX **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

XX RCRA Hazardous Waste Analysis

___ Chain of Custody

___ Other (description):

Name (Original Signature): L Bradford Sumrall

Title: Environmental Engineer

Date: 10/16/97

Maximum Contaminant Concentrations For Toxicity Characteristic Wastes

Waste Stream Constituent	Concentration (milligrams/liter, mg/l)	EPA HW No.	Waste Stream Constituent	Concentration (milligrams/liter, mg/l)	EPA HW No.
* Arsenic	5.0	D004	Hexachlorobenzene	0.13	D032
* Barium	100.0	D005	Hexachlorobutadiene	0.5	D033
Benzene	0.5	D018	Hexachloroethane	3.0	D034
Cadmium	1.0	D006	* Lead	5.0	D008
Carbon Tetrachloride	0.5	D019	* Lindane	0.4	D013 PESTICIDE
PESTICIDE Chlordane	0.03	D020	* Mercury	0.2	D009
Chlorobenzene	100.0	D021	* Methoxychlor	10.0	D014 PESTICIDE
Chloroform	6.0	D022	Methyl ethyl ketone	200.0	D035
* Chromium	5.0	D007	Nitrobenzene	2.0	D036
Cresol	200.0	D026	Pentachlorophenol	100.0	D037
m-Cresol	200.0	D024	Pyridine	5.0	D038
o-Cresol	200.0	D023	* Selenium	1.0	D010
p-Cresol	200.0	D025	* Silver	5.0	D011
HERBICIDE * 2,4-D	10.0	D016	* 2,4,5-TP (Silvex)	1.0	D017 HERBICIDE
1,4-Dichlorobenzene	7.5	D027	Tetrachloroethylene	0.7	D039
1,2-Dichloroethane	0.5	D028	* Toxaphene	0.5	D015 PESTICIDE
1,1-Dichloroethylene	0.7	D029	Trichloroethylene	0.5	D040
2,4-Dinitrotoluene	0.13	D030	2,4,5-Trichlorophenol	400.0	D041
Pesticide * Endrin	0.02	D012	2,4,6-Trichlorophenol	2.0	D042
PESTICIDE Heptachlor	0.008	D031	Vinyl chloride	0.2	D043

*–EP Toxic wastes; TCLP must now be utilized for characterizing these wastes

Quanterra
Environmental Services

Chlorinated Pesticides and PCB's
Target Compound List (TCL)
Method 8080

Client Name: Brown and Root Environmental
Client ID: HX20-SB04-15
Lab ID: 056857-0009-SA
Matrix: SOLID Sampled: 04 SEP 97 Prepared: 18 SEP 97
Authorized: 08 SEP 97 Received: 06 SEP 97 Analyzed: 28 SEP 97

Parameter	Result	Dry Weight Units	Reporting Limit
Aldrin	ND	ug/kg	1.9
Aroclor 1016	ND	ug/kg	36
Aroclor 1221	ND	ug/kg	36
Aroclor 1232	ND	ug/kg	36
Aroclor 1242	ND	ug/kg	36
Aroclor 1248	ND	ug/kg	36
Aroclor 1254	ND	ug/kg	36
Aroclor 1260	ND	ug/kg	36
alpha-BHC	ND	ug/kg	1.9
beta-BHC	ND	ug/kg	1.9
delta-BHC	ND	ug/kg	1.9
gamma-BHC (Lindane)	ND	ug/kg	1.9
alpha-Chlordane	ND	ug/kg	1.9
gamma-Chlordane	ND	ug/kg	1.9
4,4'-DDD	4.1	ug/kg	3.6
4,4'-DDE	4.6	ug/kg	3.6
4,4'-DDT	ND	ug/kg	3.6
Dieldrin	ND	ug/kg	3.6
Endosulfan I	ND	ug/kg	1.9
Endosulfan II	ND	ug/kg	3.6
Endosulfan sulfate	ND	ug/kg	3.6
Endrin	ND	ug/kg	3.6
Endrin ketone	ND	ug/kg	3.6
Heptachlor	ND	ug/kg	1.9
Heptachlor epoxide	ND	ug/kg	1.9
Methoxychlor	ND	ug/kg	19
Toxaphene	ND	ug/kg	190

Surrogate	Recovery		Limits
Tetrachloro-m-xylene	71	%	39-105
Dibutyl chlorendate	45	%	51-115
Decachlorobiphenyl	43	%	70-126

Percent moisture is 8.8%. All results and limits are reported on a dry weight basis.
Dilution factor is 1.0. All results and limits are corrected for dilution.

ND = Not Detected

Reported By: Dianna Link Approved By: Audrey Cornell

Quanterra Environmental Services

Chlorinated Herbicides
SW-846 List
Method 8150

Client Name: Brown and Root Environmental
Client ID: HX20-SB04-15
Lab ID: 056857-0009-SA
Matrix: SOLID Sampled: 04 SEP 97 Prepared: 18 SEP 97
Authorized: 08 SEP 97 Received: 06 SEP 97 Analyzed: 25 SEP 97

Parameter	Result	Dry Weight Units	Reporting Limit
2,4-D	ND	ug/kg	44
2,4-DB	ND	ug/kg	110
2,4,5-T	ND	ug/kg	11
2,4,5-TP (Silvex)	ND	ug/kg	11
Dalapon	ND	ug/kg	110
Dicamba	ND	ug/kg	11
Dichlorprop	ND	ug/kg	22
Dinoseb	ND	ug/kg	22
MCPA	ND	ug/kg	5500
MCPP	ND	ug/kg	5500

Surrogate	Recovery		Limits
DCAA	127	%	39-113

Percent moisture is 8.8%. All results and limits are reported on a dry weight basis.
Dilution factor is 1.0. All results and limits are corrected for dilution.

ND = Not Detected

Reported By: Andy Burcham Approved By: Audrey Cornell

Quanterra
Environmental Services

Volatile Organic Toxicity Characteristic List
TCLP Leachate
Method 8240B

Client Name: Brown and Root Environmental
Client ID: HX20-SB04-15
Lab ID: 056857-0009-SA
Matrix: SOLID
Authorized: 08 SEP 97

Sampled: 04 SEP 97
Received: 06 SEP 97

Leached: 11 SEP 97
Prepared: 11 SEP 97
Analyzed: 15 SEP 97

Parameter	Result	Units	Reporting Limit
Benzene	ND	mg/L	0.050
2-Butanone	ND	mg/L	0.20
Carbon tetrachloride	ND	mg/L	0.050
Chlorobenzene	ND	mg/L	0.050
Chloroform	ND	mg/L	0.050
1,2-Dichloroethane	ND	mg/L	0.050
1,1-Dichloroethene	ND	mg/L	0.050
Tetrachloroethene	ND	mg/L	0.050
Trichloroethene	ND	mg/L	0.050
Vinyl chloride	ND	mg/L	0.10

Surrogate	Recovery		Limits
1,2-Dichloroethane-d4	92	%	80-120
4-Bromofluorobenzene	102	%	86-115
Toluene-d8	97	%	88-110

Dilution factor is 1.0. All results and limits are corrected for dilution.

ND = Not Detected

Reported By: Sandra Jones

Approved By: Lynn S. Calvin

Quanterra Environmental Services

Semivolatile Organics / TCLP
TCLP Leachate
Method 8270B

Client Name: Brown and Root Environmental
Client ID: HX20-SB04-15
Lab ID: 056857-0009-SA
Matrix: SOLID
Authorized: 08 SEP 97

Sampled: 04 SEP 97
Received: 06 SEP 97

Leached: 18 SEP 97
Prepared: 21 SEP 97
Analyzed: 25 SEP 97

Parameter	Result	Units	Reporting Limit
1,4-Dichlorobenzene	ND	mg/L	0.050
2,4-Dinitrotoluene	ND	mg/L	0.050
Hexachlorobenzene	ND	mg/L	0.050
Hexachlorobutadiene	ND	mg/L	0.050
Hexachloroethane	ND	mg/L	0.050
2-Methylphenol	ND	mg/L	0.050
3/4-Methylphenol	ND	mg/L	0.050
Nitrobenzene	ND	mg/L	0.050
Pentachlorophenol	ND	mg/L	0.25
Pyridine	ND	mg/L	0.10
2,4,5-Trichlorophenol	ND	mg/L	0.050
2,4,6-Trichlorophenol	ND	mg/L	0.050

Surrogate	Recovery		Limits
Nitrobenzene-d5	72	%	57-102
2-Fluorobiphenyl	69	%	43-116
Terphenyl-d14	64	%	43-128
2-Fluorophenol	74	%	26-104
Phenol-d5	77	%	33-117
2,4,6-Tribromophenol	81	%	37-117

Dilution factor is 1.0. All results and limits are corrected for dilution.

ND = Not Detected

Reported By: Tom Claeys

Approved By: Audrey Cornell

Quanterra Environmental Services

Metals
TCLP Leachate

Client Name: Brown and Root Environmental
Client ID: HX20-SB04-15
Lab ID: 056857-0009-SA
Matrix: SOLID
Authorized: 08 SEP 97

Sampled: 04 SEP 97
Prepared: See Below

Received: 06 SEP 97
Analyzed: See Below
Leached: 18 SEP 97

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Arsenic	ND		1.0	0.50	mg/L	6010A	19 SEP 97	22 SEP 97
Barium	ND		1.0	10.0	mg/L	6010A	19 SEP 97	22 SEP 97
Cadmium	ND		1.0	0.10	mg/L	6010A	19 SEP 97	22 SEP 97
Chromium	ND		1.0	0.50	mg/L	6010A	19 SEP 97	22 SEP 97
Lead	ND		1.0	0.50	mg/L	6010A	19 SEP 97	22 SEP 97
Selenium	ND		1.0	0.25	mg/L	6010A	19 SEP 97	22 SEP 97
Silver	ND		1.0	0.50	mg/L	6010A	19 SEP 97	22 SEP 97
Mercury	ND		1.0	0.00020	mg/L	7470	23 SEP 97	24 SEP 97

ND = Not Detected

Reported By: Harvey Pierre

Approved By: Richard Persichitte

Quanterra
Environmental Services

General Inorganics

Client Name: Brown and Root Environmental
Client ID: HX20-SB04-15
Lab ID: 056857-0009-SA
Matrix: SOLID — Sampled: 04 SEP 97 — Received: 06 SEP 97
Authorized: 08 SEP 97 — Prepared: See Below — Analyzed: See Below

Parameter	Result	Qual	Dil	RL	Units	Test Method	Prepared Date	Analyzed Date
Cyanide, Reactive	ND		1.0	0.10	mg/kg	9010A/901	17 SEP 97	18 SEP 97
Ignitability	NO		1.0			SW846 Cha	NA	23 SEP 97
pH	8.5		1.0	--	units	9045B	24 SEP 97	24 SEP 97
Sulfide, Reactive	ND		2.0	50.0	mg/kg	9030A	17 SEP 97	17 SEP 97

ND = Not Detected

Reported By: Cheryl Jones — Approved By: Roxanne Sullivan

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
Aztec, NM 87410
District IV - (505) 827-7131

Roger Anderson

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: 97-132

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Halliburton Energy Serv.
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Main Yard
2. Management Facility Destination Envirotech Soil Remediation Fac. Landfarm #2	6. Transporter TBA
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	4109 E Main St. Farmington, 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:

Contamination of Wash Bay Solids

TCLP ATTACHED

RECEIVED
OCT 17 1997
OIL CON. DIV.
DIST. 3

RECEIVED
OCT 21 1997
Environmental Bureau
Oil Conservation Division

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: 10-17-97
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. (505)632-0615

Sent to Pete 10/27/97

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 10/20/97

APPROVED BY: Martyne J. Kieling TITLE: Env Geologist DATE: 10/21/97

District I - (505) 393-6161
P. O. Box 1980
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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: 92132

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator HALLIBURTON ENERGY SERV
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site MAIN YARD
2. Management Facility Destination Envirotech Soil RemediationFac. Landfarm #2	6. Transporter TBA
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	4109 E Main St. Farmington, 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:

Continuation of Wash Bay Socios

TCLP ATTACHED

RECEIVED
OCT 17 1997
OIL CON. DIV.
DIST. 3

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: 10-17-97
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. Foust TITLE: Geologist DATE: 10/20/97

APPROVED BY: _____ TITLE: _____ DATE: _____

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
HALLIBURTON ENERGY SERVICES 4109 E. MAIN ST. FARMINGTON, NM 87402	Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico
3. Originating Site (name): HALLIBURTON ENERGY SERVICES Attach list of originating sites as appropriate	**Location of the Waste (Street address &/or ULSTR):** 4109 E. MAIN ST. FARMINGTON, NM 87402
4. Source and Description of Waste WASH BAY GRIT	

I, RJ GREENAKER (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

X **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

X RCRA Hazardous Waste Analysis

X Chain of Custody

___ Other (description):

Name (Original Signature): RJ Greenaker

Title: TOOL TECHNITION I

Date: October 15, 1997

ENVIROTECH INC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

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

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 Characterization Leaching Procedures (TCLP) analysis was performed. I further certify that said material is from operations in the immediate Four Corners area.

Signed RJ Greenaker

Date of TCLP 24 OCT 96

Name RJ GREENAKER

Title/Agency TOOL TECHNITION I

Address 4109 E. MAIN ST.
FARMINGTON, NM

Signature RJ Greenaker

Date 15 OCT 97

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

SUSPECTED HAZARDOUS & SOLID WASTE ANALYSIS

Client:	Halliburton Energy Services	Project #:	92132
Sample ID:	Wash Bay Solids	Date Reported:	10-22-96
Lab ID#:	A706	Date Sampled:	10-22-96
Sample Matrix:	Solid	Date Received:	10-22-96
Preservative:	Cool	Date Analyzed:	10-22-96
Condition:	Cool & Intact	Chain of Custody:	4966

Parameter	Result
IGNITABILITY:	**Did not ignite upon direct contact with flame.**
CORROSIVITY:	**7.25**
REACTIVITY:	**Did not react violently with water, strong base (10N Sodium Hydroxide), or strong acid (6N Hydrochloric acid).**

RCRA Hazardous Waste Criteria

Parameter	Hazardous Waste Criterion
IGNITABILITY:	Sample Ignition upon direct contact with flame indicates hazardous waste status.
CORROSIVITY:	pH less than or equal to 2.0 or pH greater than or equal to 12.5 indicates hazardous waste status.
REACTIVITY:	Violent reaction with water, strong base (10N Sodium Hydroxide), or strong acid (6N Hydrocholoric Acid) indicates hazardous waste status.

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

Comments: **4109 E. Main, Farmington, NM.**

Dennis L. Spencer
Analyst

Stacy W. Sandler
Review

5796 U.S. Highway 64-3014 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHODS 8010/8020 AROMATIC / HALOGENATED VOLATILE ORGANICS

Client:	Halliburton Energy Services	Project #:	92132
Sample ID:	Wash Bay Soilds	Date Reported:	10-29-96
Laboratory Number:	A706	Date Sampled:	10-22-96
Chain of Custody:	4966	Date Received:	10-22-96
Sample Matrix:	Solid	Date Extracted:	10-22-96
Preservative:	Cool	Date Analyzed:	10-28-96
Condition:	Cool & Intact	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.0004	0.2
1,1-Dichloroethene	ND	0.0002	0.7
2-Butanone (MEK)	ND	0.0003	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	ND	0.0002	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	103%
	Bromofluorobenzene	96%

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.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8040
PHENOLS

Client:	Halliburton Energy Services	Project #:	92132
Sample ID:	Wash Bay Solids	Date Reported:	10-29-96
Laboratory Number:	A706	Date Sampled:	10-22-96
Chain of Custody:	4966	Date Received:	10-22-96
Sample Matrix:	Solid	Date Extracted:	10-22-96
Preservative:	Cool	Date Analyzed:	10-28-96
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	99%
	2,4,6-Tribromophenol	102%

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. 198

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

Comments: **4109 E. Main, Farmington, NM.**

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ENVIROTECH LABS
PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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

Client:	Halliburton Energy Services	Project #:	92132
Sample ID:	Wash Bay Solids	Date Reported:	10-28-96
Laboratory Number:	A706	Date Sampled:	10-22-96
Chain of Custody:	4966	Date Received:	10-22-96
Sample Matrix:	Solid	Date Extracted:	10-22-96
Preservative:	Cool	Date Analyzed:	10-28-96
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	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: **4109 E. Main, Farmington, NM.**

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ENVIROTECH LABS
PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	Halliburton Energy Services	Project #:	92132
Sample ID:	Wash Bay Solids	Date Reported:	10-29-96
Laboratory Number:	A706	Date Sampled:	10-22-96
Chain of Custody:	4966	Date Received:	10-22-96
Sample Matrix:	Solid	Date Analyzed:	10-29-96
Preservative:	Cool	Date Extracted:	10-22-96
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
Arsenic	0.025	0.001	5.00
Barium	0.42	0.01	100
Cadmium	0.057	0.001	1.00
Chromium	0.001	0.001	5.00
Lead	0.009	0.001	5.00
Mercury	ND	0.001	0.200
Selenium	ND	0.001	1.00
Silver	ND	0.001	5.0

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

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

Comments: **4109 E. Main, Farmington, NM.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

QUALITY ASSURANCE / QUALITY CONTROL DOCUMENTATION

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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:	Laboratory Blank	Date Reported:	10-29-96
Laboratory Number:	10-28-TCV.BLANK	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	10-28-96
Condition:	N/A	Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.0004	0.2
1,1-Dichloroethene	ND	0.0002	0.7
2-Butanone (MEK)	ND	0.0003	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	ND	0.0002	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	96%
	Bromofluorobenzene	96%

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 A689, A706 and A713.**

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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:	Method Blank	Date Reported:	10-29-96
Laboratory Number:	10-22-TCV.MB	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	10-28-96
Condition:	N/A	Date Extracted:	10-22-96
		Analysis Requested:	TCLP

Parameter	Concentration (mg/L)	Detection Limit (mg/L)	Regulatory Limits (mg/L)
Vinyl Chloride	ND	0.0004	0.2
1,1-Dichloroethene	ND	0.0002	0.7
2-Butanone (MEK)	ND	0.0003	200
Chloroform	ND	0.0001	6.0
Carbon Tetrachloride	ND	0.0001	0.5
Benzene	ND	0.0002	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	101%

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 A689, A706 and A713.**

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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 Duplicate	Date Reported:	10-29-96
Laboratory Number:	A706	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	10-28-96
Condition:	N/A	Date Extracted:	10-22-96

Parameter	Sample Result (mg/L)	Duplicate Sample Result (mg/L)	Detection Limits (mg/L)	Percent Difference
Vinyl Chloride	ND	ND	0.0004	0.0%
1,1-Dichloroethene	ND	ND	0.0002	0.0%
2-Butanone (MEK)	ND	ND	0.0003	0.0%
Chloroform	ND	ND	0.0001	0.0%
Carbon Tetrachloride	ND	ND	0.0001	0.0%
Benzene	ND	ND	0.0002	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 A689, A706 and A713.**

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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:	10-29-96
Laboratory Number:	A706	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	10-28-96
Condition:	N/A	Date Extracted:	10-22-96

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	0.020	0.0203	0.0004	102%	28-163
1,1-Dichloroethene	ND	0.020	0.0217	0.0002	108%	43-143
2-Butanone (MEK)	ND	0.020	0.0196	0.0003	97%	47-132
Chloroform	ND	0.020	0.0199	0.0001	99%	49-133
Carbon Tetrachloride	ND	0.020	0.0193	0.0001	97%	43-143
Benzene	ND	0.020	0.0207	0.0002	103%	39-150
1,2-Dichloroethane	ND	0.020	0.0185	0.0001	93%	51-147
Trichloroethene	ND	0.020	0.0189	0.0003	95%	35-146
Tetrachloroethene	ND	0.020	0.0195	0.0005	97%	26-162
Chlorobenzene	ND	0.020	0.0204	0.0003	102%	38-150
1,4-Dichlorobenzene	ND	0.020	0.0193	0.0002	96%	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 A689, A706 and A713.**

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Analyst

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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:	10-29-96
Laboratory Number:	10-28-TCA.BLANK	Date Sampled:	N/A
Sample Matrix:	2-Propanol	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	10-28-96
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	100 %
	2,4,6-tribromophenol	102 %

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. 198

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

Comments: **QA/QC for samples A689, A706 and A713.**

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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:	10-29-96
Laboratory Number:	10-22-TCA.MB	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	Cool	Date Extracted:	10-22-96
Condition:	Cool & Intact	Date Analyzed:	10-28-96
		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	94%
	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. 198

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

Comments: **QA/QC for samples A689, A706 and A713.**

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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:	10-29-96
Laboratory Number:	A706	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	Cool	Date Extracted:	10-22-96
Condition:	Cool & Intact	Date Analyzed:	10-28-96
		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 A689, A706 and A713.**

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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:	10-28-96
Laboratory Number:	10-28-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:	10-28-96
		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 A689, A706 and A713.**

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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:	10-28-96
Laboratory Number:	10-22-TBN.MB	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	Cool	Date Extracted:	10-22-96
Condition:	Cool and Intact	Date Analyzed:	10-28-96
		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 A689, A706 and A713.**

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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:	10-28-96
Laboratory Number:	A706	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Extracted:	10-22-96
Condition:	N/A	Date Analyzed:	10-28-96
		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 A689, A706 and A713.**

Analyst

Review

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ENVIROTECH LABS
PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Blanks	Date Reported:	10-29-96
Laboratory Number:	N/A	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	10-29-96
Condition:	N/A	Date Extracted:	N/A

Parameter	Instrument Blank (mg/L)	Method Blank (mg/L)	Det. Limit (mg/L)
Arsenic	**ND**	**ND**	**0.001**
Barium	**ND**	**ND**	**0.01**
Cadmium	**ND**	**ND**	**0.001**
Chromium	**ND**	**ND**	**0.001**
Lead	**ND**	**ND**	**0.001**
Mercury	**ND**	**ND**	**0.001**
Selenium	**ND**	**ND**	**0.001**
Silver	**ND**	**ND**	**0.001**

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

Comments: **QA/QC for samples A706, A711 and A713.**

Dean L. Ofencer
Analyst

Stacy W Sendler
Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	10-29-96
Laboratory Number:	A706	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	10-29-96
Condition:	N/A	Date Extracted:	10-22-96

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Percent Difference
Arsenic	**0.025**	**0.026**	**3.9%**
Barium	**0.42**	**0.41**	**2.4%**
Cadmium	**0.057**	**0.057**	**0.0%**
Chromium	**0.001**	**0.001**	**0.0%**
Lead	**0.009**	**0.009**	**0.0%**
Mercury	**ND**	**ND**	**0.0%**
Selenium	**ND**	**ND**	**0.0%**
Silver	**ND**	**ND**	**0.0%**

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Maximum Difference
	Trace Metals	**30 %**

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

Comments: **QA/QC for samples A706, A711 and A713.**

Analyst

Review

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Spike	Date Reported:	10-29-96
Laboratory Number:	A706	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	10-29-96
Condition:	N/A	Date Extracted:	10-22-96

Parameter	Spike Added (mg/L)	Sample Result (mg/L)	Spiked Sample Result (mg/L)	Percent Recovery
Arsenic	**0.100**	**0.025**	**0.125**	**100%**
Barium	**1.00**	**0.42**	**1.41**	**99%**
Cadmium	**0.050**	**0.057**	**0.106**	**99%**
Chromium	**0.050**	**0.001**	**0.051**	**100%**
Lead	**0.100**	**0.009**	**0.109**	**100%**
Mercury	**0.025**	**ND**	**0.024**	**96%**
Selenium	**0.100**	**ND**	**0.099**	**99%**
Silver	**0.050**	**ND**	**0.049**	**98%**

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Acceptance Range %
	TCLP Metals	**80 - 120 %**

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

Comments: **QA/QC for samples A706, A711 and A713.**

Dawn L. Spencer
Analyst

Stacy W Sendler
Review

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CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location
Halliburton Energy Services	4109 E Main St, Farmington

Sampler: (Signature)	Chain of Custody Tape No.
[signature]	92132

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TCLP w/o Met						Remarks
Wash Bay Solids	10.22.96	9:50	A706	Solid	1	✓						

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	10.22.96	10:30	[signature]	10-22-96	10:30
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

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

san juan repro Form 579-81

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
Aztec, 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: 95008

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒ Verbal Approval Received: Yes ☐ No ☒	4. Generator Tidewater Compression 5. Originating Site Ute 32-11 #151
2. Management Facility Destination Envirotech Soil RemediationFac Landfarm #2	6. Transporter TBA
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State Colo → New Mexico
7. Location of Material (Street Address or ULSTR)	T32N R11W Section 15, La Plata County Colorado, NMPM.

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 Compressor oil contaminated soil.
TCLP Metals, RCRA CHARACTERIZATION & MSDS SHEETS ATTACHED

RECEIVED
OCT 2 1 1997
OIL CON. DIV.
DIST. 3

Estimated Volume 60-80 cy cy Known Volume (to be entered by the operator at the end of the haul) 63 cy

SIGNATURE: Harlan M Brown TITLE: Landfarm Manager DATE: 10·21·97
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: 10/21/97

APPROVED BY: Martyn J. Kilby TITLE: Env Geologist DATE: 10/22/97

Sent to Aztec 10/22/97

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
1000 Rio Brazos Road
Aztec, 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: 95008

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☐ Non-Exempt: ☒	4. Generator Tidewater Compression
Verbal Approval Received: Yes ☐ No ☒	5. Originating Site Ute 32-11 #151
2. Management Facility Destination Envirotech Soil Remediation Fac Landfarm #2	6. Transporter TBA
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State Colo → New Mexico
7. Location of Material (Street Address or ULSTR)	T32N R11W Section 15, La Plata County Colorado, NMPM.

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 Compressor oil contaminated soil.
TCLP Metals, RCRA CHARACTERIZATION & MSDS SHEETS ATTACHED

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OCT 21 1997
OIL CON. DIV.
DIST. 3

Estimated Volume 60-80 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: 10-21-97
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. Foust TITLE: Geologist DATE: 10/21/97

APPROVED BY: _____ TITLE: _____ DATE: _____

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
Tidewater Compression Service P.O. Box 280 Flora Vista, NM 87415	Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico
3. Originating Site (name): UTE 32-11 #151 Attach list of originating sites as appropriate	**Location of the Waste (Street address &/or ULSTR):** Section 15, T 32N, R11W, La Plata County Colorado, NMPM. On the Southern UTE Reservation.
4. Source and Description of Waste Compressor oil Contaminated soil	

I, x Jimmy Bond (Print Name) representative for:

Tidewater Compression 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

x **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):

x MSDS Information

x RCRA Hazardous Waste Analysis TCLP Metals & RCRA Characterization.

x Chain of Custody

___ Other (description):

*Name (Original Signature): Jimmy Bond

*Title: Acra Supervisor

*Date: 10-21-97

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SOUTHERN UTE INDIAN TRIBE

Tribal Affairs Building

October 21, 1997

RECEIVED
OCT 24 1997
OIL CON. DIV.
DIST. 3

Jimmy Bond
Area Supervisor
Tidewater Compression, Inc.
P.O. Box 280
Flora Vista, NM 87415

via fax: (505) 334-7547

Dear Mr. Bond:

The Environmental Programs Division has reviewed your request to transport non-exempt, non-hazardous used oil contaminated soil from Colorado to New Mexico for disposal at Envirotech's Landfarm at Hilltop. We have determined that the 60-80 cubic yards of soil are not toxic according to TCLP analysis and are not hazardous due to the negative ignitability, corrosivity and reactivity analyses. Enclosed are the signed certificates necessary for transportation of the waste.

We request that you send us a copy of any NM permits you receive.

Sincerely,

Michael A. Frost
Environmental Programs Director

cc: Harlan Brown, Envirotech

P.O. Box 737 • 116 Capote Dr. • Ignacio, CO 81137 • Phone: 303-563-0100 • FAX: 303-563-0396

CERTIFICATE FROM OUT-OF-STATE AGENCY AUTHORIZING REMOVAL OF RCRA NON-EXEMPT, NON-HAZARDOUS OIL FIELD WASTE FROM THEIR JURISDICTION TO NEW MEXICO

I have reviewed the information submitted by Tidewater Compression on October 8, 1997, concerning the non-exempt, non-hazardous oil field waste material from Ute 32-11 No. 151 located in Section 15, Township 32N, Range 11W and agree that by its description it is non-hazardous as defined by the Toxic Characteristic Leaching Procedure (TCLP) analysis and ignitability, corrosivity and reactivity analyses:

X The material is non-exempt oil field waste.

X The material is non-hazardous according to TCLP analysis and negative ignitability, corrosivity and reactivity analyses.

THEREFORE:
As a representative for the Southern Ute Indian Tribe, I have no objection to the material being removed to New Mexico for disposal in Envirotech's Landfarm at Hilltop, NM.

NAME: Michael A. Frost TITLE: Director of Environmental Programs

SIGNATURE: Michael A. Frost DATE: 10/21/97

AGENCY: Southern Ute Indian Tribe

ADDRESS: P.O. Box 737, Ignacio, CO 81137

PHONE: (970) 563-0135

CERTIFICATE FROM OUT-OF-STATE AGENCY AUTHORIZING REMOVAL OF RCRA NON-EXEMPT, NON-HAZARDOUS OIL FIELD WASTE FROM THEIR JURISDICTION TO NEW MEXICO

I have reviewed the information submitted by Tidewater Compression on October 8, 1997, concerning the non-exempt, non-hazardous oil field waste material from Ute 32-11 No. 151 located in Section 15, Township 32N, Range 11W and agree that by its description it is non-hazardous as defined by the Toxic Characteristic Leaching Procedure (TCLP) analysis and ignitability, corrosivity and reactivity analyses:

X The material is non-exempt oil field waste.

X The material is non-hazardous according to TCLP analysis and negative ignitability, corrosivity and reactivity analyses.

THEREFORE:
As a representative for the Southern Ute Indian Tribe, I have no objection to the material being removed to New Mexico for disposal in Envirotech's Landfarm at Hilltop, NM.

NAME: Michael A. Frost TITLE: Director of Environmental Programs

SIGNATURE: Michael A. Frost DATE: 10/21/97

AGENCY: Southern Ute Indian Tribe

ADDRESS: P.O. Box 737, Ignacio, CO 81137

PHONE: (970) 563-0135

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OCT 24 1997
OIL CON. DIV.
DIST. 3

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

SUSPECTED HAZARDOUS WASTE ANALYSIS

Client:	Tidewater Compression	Project #:	95008
Sample ID:	Compressor Oil Spill	Date Reported:	10-02-97
Lab ID#:	C221	Date Sampled:	09-30-97
Sample Matrix:	Soil	Date Received:	09-30-97
Preservative:	Cool	Date Analyzed:	10-01-97
Condition:	Cool & Intact	Chain of Custody:	5505

Parameter	Result	
IGNITABILITY:	**Negative**	
CORROSIVITY:	**Negative**	**pH = 8.77**
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: **Ute 32-11 No. 151.**

Dean L. Ajeman
Analyst

Stacy W Sendler
Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	Tidewater Compression	Project #:	95008
Sample ID:	Compressor Oil Spill	Date Reported:	10-06-97
Laboratory Number:	C221	Date Sampled:	09-30-97
Chain of Custody:	5505	Date Received:	09-30-97
Sample Matrix:	Soil	Date Analyzed:	10-06-97
Preservative:	Cool	Date Extracted:	10-01-97
Condition:	Cool & Intact	Analysis Needed:	TCLP metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)	Regulatory Level (mg/L)
Arsenic	**0.009**	**0.001**	**5.00**
Barium	**2.61**	**0.01**	**100**
Cadmium	**ND**	**0.001**	**1.00**
Chromium	**0.002**	**0.001**	**5.00**
Lead	**0.128**	**0.001**	**5.00**
Mercury	**ND**	**0.001**	**0.200**
Selenium	**ND**	**0.001**	**1.00**
Silver	**ND**	**0.001**	**5.0**

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure. SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

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

Comments: **UTE 32-11 No. 151.**

Dean L. Ajeen
Analyst

Stacy W Sendler
Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

QUALITY ASSURANCE / QUALITY CONTROL DOCUMENTATION

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Blanks	Date Reported:	10-06-97
Laboratory Number:	N/A	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	10-06-97
Condition:	N/A	Date Extracted:	N/A

Parameter	Instrument Blank (mg/L)	Method Blank (mg/L)	Det. Limit (mg/L)
Arsenic	**ND**	**ND**	**0.001**
Barium	**ND**	**ND**	**0.01**
Cadmium	**ND**	**ND**	**0.001**
Chromium	**ND**	**ND**	**0.001**
Lead	**ND**	**ND**	**0.001**
Mercury	**ND**	**ND**	**0.001**
Selenium	**ND**	**ND**	**0.001**
Silver	**ND**	**ND**	**0.001**

ND - Parameter not detected at the stated detection limit.

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA. July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

Comments: **QA/QC for samples C221 - C223.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	10-06-97
Laboratory Number:	C222	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	10-06-97
Condition:	N/A	Date Extracted:	10-01-97

Parameter	Sample Result (mg/L)	Duplicate Result (mg/L)	Percent Difference
Arsenic	**0.027**	**0.027**	**0.0%**
Barium	**0.75**	**0.75**	**0.0%**
Cadmium	**ND**	**ND**	**0.0%**
Chromium	**0.005**	**0.005**	**0.0%**
Lead	**0.296**	**0.294**	**0.7%**
Mercury	**ND**	**ND**	**0.0%**
Selenium	**ND**	**ND**	**0.0%**
Silver	**ND**	**ND**	**0.0%**

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Maximum Difference
	Trace Metals	**30 %**

References: Method 1311, Toxicity Characteristic Leaching Procedure. SW-846. USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

Comments: **QA/QC for samples C221 - C223.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 1311
TOXICITY CHARACTERISTIC LEACHING PROCEDURE
TRACE METAL ANALYSIS

Client:	QA/QC	Project #:	N/A
Sample ID:	Matrix Spike	Date Reported:	10-06-97
Laboratory Number:	C222	Date Sampled:	N/A
Sample Matrix:	TCLP Extract	Date Received:	N/A
Analysis Requested:	TCLP	Date Analyzed:	10-06-97
Condition:	N/A	Date Extracted:	10-01-97

Parameter	Spike Added (mg/L)	Sample Result (mg/L)	Spiked Sample Result (mg/L)	Percent Recovery
Arsenic	**0.100**	**0.027**	0.127	**100%**
Barium	**1.00**	**0.75**	1.75	**100%**
Cadmium	**0.050**	**ND**	0.050	**100%**
Chromium	**0.050**	**0.005**	0.054	**98%**
Lead	**0.100**	**0.296**	0.394	**99%**
Mercury	**0.025**	**ND**	0.025	**100%**
Selenium	**0.100**	**ND**	0.099	**99%**
Silver	**0.050**	**ND**	0.050	**100%**

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Acceptance Range %
	TCLP Metals	**80 - 120 %**

References: Method 1311, Toxicity Characteristic Leaching Procedure, SW-846, USEPA, July 1992.

Methods 3010, 3020, Acid Digestion of Aqueous Samples and Extracts for Total Metals, SW-846, USEPA, July 1992.

Methods 7060, 7080, 7131, 7191, 7470, 7421, 7740, 7761 Analysis of Metals by GFAA and Cold Vapor Techniques, SW-846, USEPA.

Comments: **QA/QC for samples C221 - C223.**

Analyst

Review

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95008

CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location
Tidewater Compression	UTE 32-11 No. 151

Sampler: (Signature) Harlan M Brown

Chain of Custody Tape No.

ANALYSIS/PARAMETERS

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TCLP Metals	RCRA Ignitability Characteristics					Remarks
Compressor oil spill	9.30.97	13:45	C221	Soil	1	✓	✓					

Sample received cool & intact. CD

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Harlan M Brown	9.30.97	17:45	Christina Walter	9-30-97	17:45
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

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

Material Safety Data Sheet
Material Safety Data Sheet

CHEVRON
CHEVRON

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

CHEVRON Gas Engine Oil 541 SAE 15W-40

PRODUCT NUMBER(S): CPS235458

COMPANY IDENTIFICATION

Chevron USA Products Company
Environmental, Safety, and Health
Room 2900
575 Market St.
San Francisco, CA 94105-2856

EMERGENCY TELEPHONE NUMBERS

HEALTH (24 hr): (800)231-0623 or
(510)231-0623 (International)
TRANSPORTATION (24 hr): CHEMTREC
(800)424-9300 or (202)483-7616

PRODUCT INFORMATION: MSDS Requests: (800) 228-3500
Environmental, Safety, & Health Info: (415) 894-1899
Product Information: (800) 582-3835

2. COMPOSITION/INFORMATION ON INGREDIENTS

100.0 % CHEVRON Gas Engine Oil 541 SAE 15W-40

CONTAINING

COMPONENTS	AMOUNT	LIMIT/QTY	AGENCY/TYPE
LUBRICATING BASE OIL CONTAINING ONE OR MORE OF THE FOLLOWING	> 85.0%		
SOLVENT REFINED DIST., HVY PAR Chemical Name: DISTILLATES, SOLVENT-REFINED HEAVY PARAFFINIC CAS64741884		5 mg/m3 (mist)	ACGIH TWA
		10 mg/m3 (mist)	ACGIH STEL
		5 mg/m3 (mist)	OSHA PEL
SOLVENT DEWAXED DIST., HVY PAR Chemical Name: DISTILLATES, SOLVENT DEWAXED HEAVY PARAFFINIC CAS64742650		5 mg/m3 (mist)	ACGIH TWA

Revision Number: 2 Revision Date: 01/11/95 MSDS Number: 004701
NDA - No Data Available NA - Not Applicable

Prepared according to the OSHA Hazard Communication Standard (29 CFR 1910.1200) and the ANSI MSDS Standard (Z400.1) by the Toxicology

10 mg/m3 (mist)	ACGIH STEL
5 mg/m3 (mist)	OSHA PEL

ADDITIVES

< 15.0%

COMPOSITION COMMENT:
All the components of this material are on the Toxic Substances Control Act Chemical Substances Inventory.

This product fits the ACGIH definition for mineral oil mist. The ACGIH TLV is 5 mg/m3, the OSHA PEL is 5 mg/m3.

TLV - Threshold Limit Value	TWA - Time Weighted Average
STEL - Short-term Exposure Limit	TPQ - Threshold Planning Quantity
RQ - Reportable Quantity	PEL - Permissible Exposure Limit
C - Ceiling Limit	CAS - Chemical Abstract Service Number
A1-5 - Appendix F Categories	() - Change Has Been Proposed

3. HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS
EYE:
This substance is not expected to cause prolonged or significant eye irritation. This hazard evaluation is based on the known toxicity of the ingredients in this substance.
SKIN:
This substance is not expected to cause prolonged or significant skin irritation. The systemic toxicity of this substance has not been determined. However, it should be practically non-toxic to internal organs if it gets on the skin. This hazard evaluation is based on the known toxicity of the ingredients in this substance.
INGESTION:
The systemic toxicity of this substance has not been determined. However, it should be practically non-toxic to internal organs if swallowed. This hazard evaluation is based on data from similar materials.
INHALATION:
The systemic toxicity of this substance has not been determined. However, it should be practically non-toxic to internal organs if inhaled. Prolonged or repeated breathing of petroleum oil mist can cause respiratory irritation. This hazard evaluation is based on data from similar materials.
SIGNS AND SYMPTOMS OF EXPOSURE:
INHALATION: Respiratory tract irritation may include, but may not be limited to, one or more of the following: nasal discharge, sore throat, coughing, bronchitis, pulmonary edema and difficulty in breathing.

4. FIRST AID MEASURES

EYE:
No first aid procedures are required. However, as a precaution flush eyes with fresh water for 15 minutes. Remove contact lenses if worn.
SKIN:
No first aid procedures are required. As a precaution, wash skin thoroughly with soap and water. Remove and wash contaminated clothing.
INGESTION:
If swallowed, give water or milk to drink and telephone for medical advice. Consult medical personnel before inducing vomiting. If medical advice cannot be obtained, then take the person and product container to the nearest medical emergency treatment center or hospital.
INHALATION:
If respiratory discomfort or irritation occurs, move the person to fresh air. See a doctor if discomfort or irritation continues.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES:
FLASH POINT: COC 406F (208C) Min.
AUTOIGNITION: NDA
FLAMMABILITY LIMITS (% by volume in air): Lower: NA Upper: NA
EXTINGUISHING MEDIA:
CO2, Dry Chemical, Foam, Water Fog
NFPA RATINGS: Health 1; Flammability 1; Reactivity 0.
FIRE FIGHTING INSTRUCTIONS:
For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment. This may include self-contained breathing apparatus to protect against the hazardous effects of normal products of combustion or oxygen deficiency. Read the entire document.
COMBUSTION PRODUCTS:
Normal combustion forms carbon dioxide, water vapor and may produce oxides of nitrogen. Incomplete combustion can produce carbon monoxide.

6. ACCIDENTAL RELEASE MEASURES

CHEMTREC EMERGENCY NUMBER (24 hr): (800)424-9300 or (202)483-7616
ACCIDENTAL RELEASE MEASURES:
Stop the source of the leak or release. Clean up releases as soon as possible. Contain liquid to prevent further contamination of soil, surface water or groundwater. Clean up small spills using appropriate techniques such as sorbent materials or pumping. Where feasible and

appropriate, remove contaminated soil. Follow prescribed procedures for reporting and responding to larger releases.

7. HANDLING AND STORAGE

HANDLING AND STORAGE:

DO NOT weld, heat or drill container. Residue may ignite with explosive violence if heated sufficiently. CAUTION! Do not use pressure to empty drum or drum may rupture with explosive force. Keep out of reach of children.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

PERSONAL PROTECTIVE EQUIPMENT
EYE/FACE PROTECTION:
No special eye protection is usually necessary.
SKIN PROTECTION:
No special skin protection is usually necessary. Avoid prolonged or frequently repeated skin contact with this material. Skin contact can be minimized by wearing protective clothing.
RESPIRATORY PROTECTION:
No special respiratory protection is normally required. However, if operating conditions create airborne concentrations which exceed the recommended exposure standards, the use of an approved respirator is required.
ENGINEERING CONTROLS:
Use adequate ventilation to keep the airborne concentrations of this material below the recommended exposure standard.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL DESCRIPTION:
Pale, lemon yellow liquid.

pH:	NDA
VAPOR PRESSURE:	NA
VAPOR DENSITY (AIR=1):	NA
BOILING POINT:	NDA
FREEZING POINT:	NDA
MELTING POINT:	NA
SOLUBILITY:	Soluble in hydrocarbon solvents; insoluble in water.
SPECIFIC GRAVITY:	0.88 @ 15.6/15.6C
EVAPORATION RATE:	NA

VISCOSITY: 13.0 cSt @ 100C (Min.)
PERCENT VOLATILE
(VOL): NA

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10. STABILITY AND REACTIVITY

HAZARDOUS DECOMPOSITION PRODUCTS:
NDA
CHEMICAL STABILITY:
Stable.
CONDITIONS TO AVOID:

No data available.
INCOMPATIBILITY WITH OTHER MATERIALS:
May react with strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.
HAZARDOUS POLYMERIZATION:
Polymerization will not occur.

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11. TOXICOLOGICAL INFORMATION

EYE EFFECTS:
No product toxicology data available. The hazard evaluation was based on data on the components.
SKIN EFFECTS:
No product toxicology data available. The hazard evaluation was based on data on the components.
ACUTE ORAL EFFECTS:
No product toxicology data available. The hazard evaluation was based on data from similar materials.
ACUTE INHALATION EFFECTS:
No product toxicology data available. The hazard evaluation was based on data from similar materials.
ADDITIONAL TOXICOLOGY INFORMATION:
This product contains petroleum base oils which may be refined by various processes including severe solvent extraction, severe hydrocracking, or severe hydrotreating. None of the oils requires a cancer warning under the OSHA Hazard Communication Standard (29 CFR 1910.1200). These oils have not been listed in the National Toxicology Program (NTP) Annual Report nor have they been classified by the International Agency for Research on Cancer (IARC) as; carcinogenic to humans (Group 1), probably carcinogenic to humans (Group 2A), or possibly carcinogenic to humans (Group 2B).

During use in engines, contamination of oil with low levels of cancer-causing combustion products occurs. Used motor oils have been

shown to cause skin cancer in mice following repeated application and continuous exposure. Brief or intermittent skin contact with used motor oil is not expected to have serious effects in humans if the oil is thoroughly removed by washing with soap and water. See Chevron Material Safety Data Sheet No. 1793 for additional information on used motor oil.

12. ECOLOGICAL INFORMATION

ECOTOXICITY:
No data available.
ENVIRONMENTAL FATE:
This material is not expected to present any environmental problems other than those associated with oil spills.

13. DISPOSAL CONSIDERATIONS

DISPOSAL CONSIDERATIONS:
Oil collection services and collection centers are available for used motor oil recycling or disposal. Some service stations, automotive service centers, and retailers provide motor oil collection facilities.

Place contaminated materials in containers and dispose of in a manner consistent with applicable regulations. Contact your sales representative or local environmental or health authorities for approved disposal or recycling methods.

14. TRANSPORT INFORMATION

The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate Dangerous Goods Regulations, for additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements.

DOT SHIPPING NAME: NOT DESIGNATED AS A HAZARDOUS MATERIAL BY THE FEDERAL DOT
DOT HAZARD CLASS: NOT APPLICABLE
DOT IDENTIFICATION NUMBER: NOT APPLICABLE
DOT PACKING GROUP NOT APPLICABLE

15. REGULATORY INFORMATION

SARA 311 CATEGORIES:

1. Immediate (Acute) Health Effects: NO
2. Delayed (Chronic) Health Effects: NO
3. Fire Hazard: NO
4. Sudden Release of Pressure Hazard: NO
5. Reactivity Hazard: NO

REGULATORY LISTS SEARCHED:

01=SARA 313	11=NJ RTK	22=TSCA Sect 5(a)(2)
02=MASS RTK	12=CERCLA 302.4	23=TSCA Sect 6
03=NTP Carcinogen	13=MN RTK	24=TSCA Sect 12(b)
04=CA Prop 65-Carcin	14=ACGIH TWA	25=TSCA Sect 8(a)
05=CA Prop 65-Repro Tox	15=ACGIH STEL	26=TSCA Sect 8(d)
06=IARC Group 1	16=ACGIH Calc TLV	27=TSCA Sect 4(a)
07=IARC Group 2A	17=OSHA PEL	28=Canadian WHMIS
08=IARC Group 2B	18=DOT Marine Pollutant	29=OSHA CEILING
09=SARA 302/304	19=Chevron TWA	30=Chevron STEL
10=PA RTK	20=EPA Carcinogen	

The following components of this material are found on the regulatory

lists indicated.

DISTILLATES, SOLVENT-REFINED HEAVY PARAFFINIC
is found on lists: 14,15,17,
DISTILLATES, SOLVENT DEWAXED HEAVY PARAFFINIC
is found on lists: 14,15,17,

16. OTHER INFORMATION

NFPA RATINGS: Health 1; Flammability 1; Reactivity 0;
(Least-0, Slight-1, Moderate-2, High-3, Extreme-4). These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the National Paint and Coating Association (for HMIS ratings).

REVISION STATEMENT:
Changes have been made throughout this Material Safety Data Sheet. Please read the entire document.

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The above information is based on the data of which we are aware and is

believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modification of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

Revision Number: 2 Revision Date: 01/11/95 MSDS Number: 004701
NDA - No Data Available NA - Not Applicable

TOTAL P.05

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
1000 Rio Brazos Road
Aztec, 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
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District Office

Env JN: 97018

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☒ Non-Exempt: ☐	4. Generator NATCO
Verbal Approval Received: Yes ☐ No ☐	5. Originating Site Various Burlington Resources
2. Management Facility Destination Envirotech Soil Remediation Fac. Landfarm #2	6. Transporter ENVIROTECH
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR) Natco Yard	Various Locations - Attached

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 during cleaning & refurbishing production equipment.
Certification of Norm's Testing Attached.

RECEIVED
OCT 10 1997
OIL CON. DIV.
DIST. 3

Estimated Volume 5 drums cy Known Volume (to be entered by the operator at the end of the haul) 7 drums cy

SIGNATURE: Harlan M. Brown
Waste Management Facility Authorized Agent
TITLE: Landfarm Manager DATE: 10.10.97

TYPE OR PRINT NAME: Harlan M. Brown TELEPHONE NO. (505)632-0615

(This space for State Use)

APPROVED BY: Denny G. Foust TITLE: Geologist DATE: 10/14/97

APPROVED BY: Ernie Busch TITLE: Geologist DATE: 10/14/97

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address: NATCO 2855 Southside River Road Farmington, New Mexico 87401	**2. Destination Name:** Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico
3. Originating Site (name): Burlington Resources Production Equipment from Various Locations - See Attached List **Attach list of originating sites as appropriate**	**Location of the Waste (Street address &/or ULSTR):** Drums at NATCO yard
4. Source and Description of Waste Solids generated during cleaning and refurbishing production equipment. NORMs tested by NATCO or operator.	

I, Eric Moore **representative for:**
(Print Name)

NATCO **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 only the following documentation is attached (check appropriate items):

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

Name (Original Signature): _____

Title: QC Manager / Safety

Date: October 10, 1997

1100

NATCO

To whom it may concern.

The equipment on the following lists have all been N.O.R.M. tested by a NATCO qualified technician. Upon arrival to our yard. Or by a qualified person for the lease operator.

Thank You

Eric L. Moore
Q.C. Manager

NATCO, a division of
National Tank Company

2855 Southside River Road
Farmington, NM 87401

Tel: (505) 326-6537
Fax: (505) 327-1481

ENVIROTECH INC.

UNDERGROUND TANK TESTING • SITE ASSESSMENT • SITE REMEDIATION

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

CERTIFICATE OF WASTE STATUS
OILFIELD EXEMPT WASTE

Originating Location: See Attached list

Source: Production Equipment - Burlington Resources

Disposal Location: Envirotech Soil Remediation Facility, (ESRF)
Hilltop, New Mexico

"As a condition of acceptance for disposal, I hereby certify that this waste is an oilfield production exempt waste as defined by the Environmental Protection Agency's (EPA) July 1988 Regulatory Determination. Additionally, to my knowledge, no non-exempt waste that is a "hazardous or listed waste" pursuant to the provisions of 40 CFR, Part 261, Subparts C and D, has been added or mixed with the exempt waste so as to make the resultant mixture a "hazardous waste" pursuant to the provisions of 40 CFR, section 261.3(b)."

I, the undersigned, as the agent for NATCO concur with the status of the waste from the subject site.

Name Eric Moore
Title/Agency QC Manager/Safety Coordinator - NATCO
Address 2855 Southside River Road
Farmington, N.M. 87401

Signature

Date 10-8-97

Burlington Waste Solids

Location	Job Number
1) Hartman #4	73009417
2) 28-5 #28	73007177
3) 29-4 #24	73008499
4) Grenier #17E	73007953
5) Ute 32-11 #151	73007883
6) 29-7 #123	73006870
7) Richardson #6	73006847
8) State Com 1Y	73006364
9) 29-4 #2	73008181
10) 27-5 #86M (DK)	73007994

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District III - (505) 334-6178
1 Rio Brazos Road
Aztec, 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: 96003-27

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☒ Non-Exempt: ☐ DF Verbal 9.8.97 10:48 AM.	4. Generator E.P.F.S.
Verbal Approval Received: Yes ☒ No ☐	5. Originating Site Ballard Compressor Station
2. Management Facility Destination Envirotech Soil RemediationFac Landfarm #2	6. Transporter Philip Services
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	NE4, SE4, Sec26, T26N, R9W, SJC, NMPM.

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 Contaminated soil generated @ cleanup of leaks around a condensate Tank.

9-12-97 BOL 10808 L2 unit 5 G-12 140 yd

RECEIVED
OCT 10 1997
OIL CON. DIV.
DIST. 3

Estimated Volume 90 cy Known Volume (to be entered by the operator at the end of the haul) 140 cy

SIGNATURE: Harlan M Brown TITLE: Landfarm Manager DATE: 10.9.97
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. Foust TITLE: Geologist DATE: 10/14/97

APPROVED BY: Ernie Busch TITLE: Geologist DATE: 10/14/97

RECEIVED SEP 12 19

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
El Paso Field Services Co. 614 Reilly Avenue Farmington, NM 87401	Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico
3. Originating Site (name): Ballard Compressor Station Attach list of originating sites as appropriate	Location of Waste(Street address &/or ULSTR): NE/4 & SE/4 Sec. 26, Y26N, R9W, San Juan Co., NM
4. Source and Description of Waste Clean up of leaks around pipeline condensate 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)

_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-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): David Bays

Title: Principal Environmental Scientist

Date: September 8, 1997

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
[illegible] Rio Brazos Road
[illegible], 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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District Office

Env JN: 92187

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☒ Non-Exempt: ☐ Verbal DF. 10.2.97 2:30 P.M.	4. Generator Western Gas Resources
Verbal Approval Received: Yes ☒ No ☐	5. Originating Site San Juan River Plant
2. Management Facility Destination Envirotech Soil RemediationFac Landfarm #2	6. Transporter Envirotech
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	99 Rd 6500, Hirtland 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:

Petroleum Hydrocarbon Contaminated soil generated during pigging operations

10.9.97 BOL 10859 LF2 UNIT 5 BB14 10 cy

RECEIVED
OCT 10 1997
OIL CON. DIV.
DIST. 3

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: 10.2.97
Waste Management FacilityAuthorized 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: 10/14/97

APPROVED BY: Ernie Busch TITLE: Geologist DATE: 10/14/97

RECEIVED OCT - 5 1997

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
Western Gas Resources P.O. Box 70 Kirtland, N.M. 87417	Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico
3. Originating Site (name): San Juan River Plant 99 Rd 6500 Kirtland, N.M. 87417 Attach list of originating sites as appropriate	Location of the Waste (Street address &/or ULSTR):
4. Source and Description of Waste Waste sludge from pipeline pigging operations Dry and clay like material	

I, Tim Bates (Print Name) representative for: Western Gas Resources 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 only the following documentation is attached (check appropriate items):

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

Name (Original Signature): Tim Bates

Title: Field Supervisor

Date: 10-2-97

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P. O. Box 1980
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811 S. First
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1 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

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

Form C-138
Originated 8/8/95

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Env JN: 92197

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: ☒ Non-Exempt: ☐ DF. 10.1.97 8:30 AM.	4. Generator Burlington Resources O&G
Verbal Approval Received: Yes ☒ No ☐	5. Originating Site Val Verde Plant
2. Management Facility Destination Envirotech Soil RemediationFac Landfarm #2	6. Transporter Freemager
3. Address of Facility Operator 5796 U.S. Highway 64 Farmington, NM 87401	8. State New Mexico
7. Location of Material (Street Address or ULSTR)	County Rd 4900, Bloomfield N.M.

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:
Contamination of Charcoal Filtration Media

10-1-97 10847 LFZ E.19 4cy.

RECEIVED
OCT 1 0 1997
OIL CON. DIV.
DIST. 3

Estimated Volume 10 cy 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: 10-1-97
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. Foust TITLE: Geologist DATE: 10/14/97

APPROVED BY: Ernie Busch TITLE: Geologist DATE: 10/14/97

Exempt Waste Manifest
Burlington Resources Oil & Gas

P.O. Box 4289, Farmington, NM 87499

Safety and Environmental

1. Waste Location: Lease/Well No. Val Verde Plant

2. Volume: 4 Cubic Yards _____ Barrels _____ Gallons

3. Description of Waste: Charcoal Filter Media

4. Method of Waste Generation: Charcoal is used to filter the MDEA at the plant. MDEA is used to remove CO2 from the gas stream.

5. Disposal Facility: Envirotech Inc.

6. Disposal Cost: $16 cubic yard

7. This waste material complies with the definition of exempt waste as listed in 40 CFR 261.4.

Approval for Disposal [signature] (signature) Date 10-1-97

BR Representative

Transportation Company: Freemyer

Date(s) Transported: 10-1-97

BR Representative on Site: [signature] (signature) Date 10-1-97

Disposal Facility

Complete and return to Burlington Safety and Environmental with invoice.

Date(s) Received: _____

Total Volume Received: _____

Waste Location: Cell/Grid No. _____

Received By: _____

Revised January 28, 1997
s:\2-envnmt\wastemgt\vv-mnfst.doc

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address:	2. Destination Name:
BURLINGTON RESOURCES 3535 EAST 30th STREET FARMINGTON, NM 87402	Envirotech Landfarm (ESRF) Hilltop, New Mexico
3. Originating Site (name): Val Verde Plant Attach list of originating sites as appropriate.	Location of the Waste (Street address &/or ULSTR): Section 14, Township 29N, Range 11W

4. Source and Description of Waste:

Charcoal Filter Media. From the filtering of amine which is used to remove carbon dioxide from natural gas.

I, Craig Bock representative for:

BURLINGTON RESOURCES 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 only the following documentation is attached (check appropriate items):

MSDS Information
RCRA Hazardous Waste Analysis
Chain of Custody

Other (description):

Name (Original Signature): Craig A Bock

Title: ENVIRONMENTAL REPRESENTATIVE

Date: 10-1-97

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